

Board of Directors Agenda

Click link to access the meeting:

https://us02web.zoom.us/j/98288032362

Zoom Meeting ID

Ways to Join



Computer: Click the link above. You will be prompted to run the Zoom browser or Zoom application. Once signed on to the meeting, you will have the option to join using your computer audio system or phone.

Webinar Features:

Raise Hand	•	Use the raise hand feature every time you wish to make a public comment.			
CC	•	Participants can enable closed captioning by clicking the CC icon. You may also view the full transcript and change the font size by clicking 'subtitle settings'. These features are not available via phone.			
Ø)	This symbol shows you are muted , click this icon to unmute your microphone.			
P)	This symbol shows you are currently unmuted , click this button to mute your microphone.			
(30)	•	The chat feature should be used by panelists and attendees solely for "housekeeping" matters as comments made through this feature will not be retained as part of the meeting record. See the Live Verbal Public Comment for instructions on how to make a public comment.			



Smartphone or Tablet: Download the Zoom app and join the meeting by clicking the link or using the webinar ID (found in the link).







Phone:

- 1. If you are joining the meeting audio by phone and viewing the meeting on a device, dial the number provided in the 'join audio' phone call tab of the initial pop-up, and enter the Meeting ID (found in the link).
- 2. If you are joining by phone only, dial: **+1-669-900-9128** or **+1-253-215-8782** and type the meeting ID found in the link, press #. You will have access to the meeting audio, but will NOT be able to view the PowerPoint presentations.



Live Verbal Public Comments: Use the 'Raise Hand' icon every time you wish to make a public comment on an item. Raise your hand once the agenda item you wish to comment on has been called. In person public comments will be taken first, virtual attendees will be taken in the order in which they raise their hand. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion. General Public Comment, at the beginning of the Board of Directors meeting only, will be limited to five speakers. Additional speakers with general public comments will be heard at the end of the meeting. Two-minutes of time is allotted per speaker, unless otherwise directed by the Chair.

Public Comments Made Via Zoom

- 1. Click the link found at the top of this instruction page
- 2. Click the raise hand icon located in the bottom center of the platform
- 3. The Clerk will announce your name when it is your turn to speak
- 4. Unmute yourself to speak

Public Comments Made by Phone Only

- 1. Dial +1-669-900-9128
- 2. Type in the zoom meeting ID found in the link and press #
- 3. Dial *9 to raise your hand via phone
- 4. The Clerk will call out the last 4 digits of your phone number to announce you are next to speak
- 5. Dial *6 to unmute yourself



Written Public Comments (before the meeting): Written public comments will be recorded in the public record and will be provided to MTS Board Members in advance of the meeting. Comments must be emailed or mailed to the Clerk of the Board* by 4:00pm the day prior to the meeting.



Translation Services: Requests for translation services can be made by contacting the Clerk of the Board* at least four working days in advance of the meeting.



In-Person Participation: In-person public comments will be heard first. Following in-person public comments, virtual attendees will be heard in the order in which they raise their hand via the Zoom platform. Speaking time will be limited to two minutes per person, unless specified by the Chairperson. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

Instructions for providing in-person public comments:

- 1. Fill out a speaker slip located at the entrance of the Board Room;
- 2. Submit speaker slip to MTS staff seated at the entrance of the Board Room;
- 3. When your name is announced, please approach the podium located on the right side of the dais to make your public comments.

Members of the public are permitted to make general public comment at the beginning of the agenda or specific comments referencing items on the agenda during the public comment period. General Public Comment, at the beginning of the Board of Directors meeting only, will be limited to five speakers. Additional speakers with general public comments will be heard at the end of the meeting.



Assistive Listening Devices (ALDs): ALDs are available from the Clerk of the Board* prior to the meeting and are to be returned at the end of the meeting.



Reasonable Accommodations: As required by the Americans with Disabilities Act (ADA), requests for agenda information in an alternative format or to request reasonable accommodations to facilitate meeting participation, please contact the Clerk of the Board* at least two working days prior to the meeting.



*Contact Information: Contact the Clerk of the Board via email at <u>ClerkoftheBoard@sdmts.com</u>, phone at (619) 398-9681 or by mail at 1255 Imperial Ave. Suite 1000, San Diego CA 92101.



Agenda de la Junta de Directores

Haga clic en el enlace para acceder a la reunión:

https://us02web.zoom.us/j/98288032362

Formas de Participar



Computadora: Haga clic en el enlace más arriba. Recibirá instrucciones para operar el navegador de Zoom o la aplicación de Zoom. Una vez que haya iniciado sesión en la reunión, tendrá la opción de participar usando el sistema de audio de su computadora o teléfono.

ID de la reunión en Zoom

Funciones del Seminario En Línea:

Levantar la mano	•	Use la herramienta de levantar la mano cada vez que desee hacer un comentario público.			
CC	>	Los participantes pueden habilitar el subtitulado haciendo clic en el ícono CC. También puede ver la transcripción completa y cambiar el tamaño de letra haciendo clic en "configuración de subtítulos". Estas herramientas no están disponibles por teléfono.			
A	•	Este símbolo indica que usted se encuentra en silencio , haga clic en este ícono para quitar el silenciador de su micrófono.			
•)	Este símbolo indica que su micrófono se encuentra encendido . Haga clic en este símbolo para silenciar su micrófono.			
•	>	La herramienta de chat deben usarla los panelistas y asistentes únicamente para asuntos "pertinentes a la reunión", ya que comentarios realizados a través de esta herramienta no se conservarán como parte del registro de la reunión. Consulte el Comentario público verbal en vivo para obtener instrucciones sobre cómo hacer un comentario público.			



Teléfono Inteligente o Tableta: Descargue la aplicación de Zoom y participe en la reunión haciendo clic en el enlace o usando el ID del seminario web (que se encuentra en el enlace).







Teléfono:

- 1. Si está participando en la reunión mediante audio de su teléfono y viendo la reunión en un dispositivo, marque el número indicado en la pestaña de llamada telefónica "unirse por audio" en la ventana emergente inicial e ingrese el ID de la reunión (que se encuentra en el enlace).
- 2. Si está participando solo por teléfono, marque: +1-669-900-9128 o +1-253-215-8782 e ingrese el ID de la reunión que se encuentra en el enlace, pulse #. Tendrá acceso al audio de la reunión, pero NO podrá ver las presentaciones en PowerPoint.



Comentarios Públicos Verbales en Vivo: Use la herramienta "levantar la mano" cada vez que desee hacer un comentario público sobre alguno de los artículos. Levante la mano una vez que el artículo de la agenda sobre el que desea comentar haya sido convocado. Los comentarios públicos en persona se escucharán primero, se escuchará a los asistentes virtuales en el orden en el que levanten la mano. No se aceptarán solicitudes para hablar después de que termine el periodo para hacer comentarios públicos, a menos de que el presidente determine de otra forma a su discreción. Comentarios públicos generales, únicamente al inicio de la reunión de la Junta de Directores, se limitarán a cinco personas que deseen hablar. Las personas adicionales que deseen aportar comentarios públicos generales podrán hacerlo al final de la reunión. Se otorga dos minutos de tiempo por persona que desee hablar, a menos de que el presidente instruya de otra forma. (Consulte la página 2 para obtener instrucciones sobre cómo hacer un comentario público.)

Comentarios Públicos a Través de Zoom

- 1. Haga clic en el enlace que se encuentra en la parte superior de esta página de instrucciones
- 2. Haga clic en el ícono de levantar la mano en el centro inferior de la plataforma
- 3. El secretario anunciará su nombre cuando sea su turno de hablar
- 4. Desactive el silenciador para que pueda hablar

Comentarios Públicos Realizados Únicamente por Teléfono

- 1. Marque el +1-669-900-9128
- 2. Ingrese el ID de la reunión en Zoom que se encuentra en el enlace y pulse #
- 3. Marque *9 para levantar la mano por teléfono
- El secretario indicará los últimos 4 dígitos de su número de teléfono para anunciar que usted será el siguiente en hablar
- 5. Marque *6 para desactivar el silenciador



Comentarios Públicos por Escrito (Antes de la Reunión): Los comentarios públicos por escrito se registrarán en el registro público y se entregarán a los miembros de la Junta de MTS antes de la reunión. Los comentarios deben enviarse por correo electrónico o postal al secretario de la Junta* antes de las 4:00 p.m. el día anterior a la reunión.



Servicios de Traducción: Pueden solicitarse servicios de traducción comunicándose con el secretario de la Junta* por lo menos cuatro días hábiles antes de la reunión.



Participación en Persona: Los comentarios públicos en persona se escucharán primero. Después de los comentarios públicos en persona, se escuchará a los asistentes virtuales en el orden en el que levanten la mano a través de la plataforma de Zoom. El tiempo para hablar se limitará a dos minutos por persona, a menos de que el presidente especifique de otra forma. No se recibirán solicitudes para hablar después de que termine el periodo para hacer comentarios públicos, a menos de que el presidente determine de otra forma a su discreción.

Instrucciones para brindar comentarios públicos en persona:

- 1. Llene la boleta para personas que desean hablar que se encuentran en la entrada de la Sala de la Junta.
- 2. Entregue la boleta para personas que desean hablar al personal de MTS que se encuentra sentado en la entrada de la Sala de la Junta.
- 3. Cuando anuncien su nombre, por favor, acérquese al podio ubicado en el lado derecho de la tarima para hacer sus comentarios públicos.

Los miembros del público pueden hacer comentarios públicos generales al inicio de la agenda o comentarios específicos que hagan referencia a los puntos de la agenda durante el periodo de comentarios públicos. Los comentarios públicos generales únicamente al inicio de la reunión de la Junta de Directores, se limitarán a cinco personas que deseen hablar. Las personas adicionales que deseen aportar comentarios públicos generales podrán hacerlo al final de la reunión.



Dispositivos de Asistencia Auditiva (ALD, por sus siglas en inglés): Los ALD están disponibles con el secretario de la Junta* antes de la reunión y estos deberán ser devueltos al final de la reunión.



Facilidades Razonables: Según lo requerido por la Ley de Estadounidenses con Discapacidades (ADA, por sus siglas en inglés), para presentar solicitudes de información de la agenda en un formato alternativo o solicitar facilidades razonables para facilitar su participación en la reunión, por favor, comuníquese con el secretario de la Junta* por lo menos dos días hábiles antes de la reunión.



*Información de Contacto: Comuníquese con el secretario de la Junta por correo electrónico en <u>ClerkoftheBoard@sdmts.com</u>, por teléfono al (619) 398-9681 o por correo postal en 1255 Imperial Ave. Suite 1000, San Diego CA 92101.



Board of Directors Agenda

September 14, 2023 at 9:00 a.m.

In-Person Participation: James R. Mills Building, 1255 Imperial Avenue, 10th Floor Board Room, San Diego CA 92101

Teleconference Participation: (669) 444-9171; Webinar ID: 982 8803 2362, https://zoom.us/j/98288032362

NO. ITEM SUBJECT AND DESCRIPTION

ACTION

1. Roll Call

2. Public Comments

This item is limited to five speakers with two minutes per speaker. Others will be heard after Board Discussion items. If you have a report to present, please give your copies to the Clerk of the Board.

CONSENT ITEMS

3. Approval of Minutes

Approve

Action would approve the July 27, 2023 Board of Directors meeting minutes.

4. Investment Report – Quarter Ending June 30, 2023

Informational

5. Fiscal Year (FY) 2022-2023 and FY 2023-2024 California Senate Bill (SB) 1 State of Good Repair Funding

Approve

Action would approve Resolution No. 23-10 in order to: 1) Authorize the use of, and application for, \$5,272,017 in FY 2023-24 State of Good Repair (SGR) funding to be used for the SD100 Light Rail Vehicle (LRV) Replacement Project; 2) Approve the acceptance of additional FY 2023-24 SB1-SGR funding if made available to MTS; and 3) Approve the reprogramming of FY 2022-23 SB1 SGR funding in the amount of \$5,095,907 to the FY24 Bus Procurement Project as approved in the FY 2024 Capital Improvement Program (CIP).

6. Policy 44: MTS Travel Expense – Policy Revision

Approve

Action would 1) Approve the proposed revisions to MTS Board Policy No. 44, "MTS Travel Expense Policy" (Attachment A, B); 2) Authorize the Chief Executive Officer (CEO) to modify MTS Board Policy No. 44, "MTS Travel Expense Policy" Attachment A, B, C, D, E and F as necessary to reflect



Board of Directors – Agenda September 14, 2023 Page 2 of 5

changes in annual IRS mileage reimbursement rates and IRS determinations of High Cost Localities, and to make minor changes to document design or formatting; and 3) Repeal MTS Board Policy No. 29, "Attendance at Transit-Related Conferences" (Attachment C);

7. Grantville Transit Center Hardscape and Landscape Improvements – Work Order Agreement

Approve

Action would authorize the Chief Executive Officer (CEO) to execute Work Order MTSJOC347-05 under Job Order Contract (JOC) MTS Doc. No. PWG347.0-22 with ABC General Contracting, Inc. (ABCGC), in the amount of \$968,743.63, for rehabilitating the hardscape and landscape currently present at the Grantville Transit Center.

8. Grantville Transit-Oriented Development (TOD) Painting – Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to: 1) Rescind the award and direction to execute MTS Doc. No. PWL370.0-23 to Prime Painting Contractors Inc. for Grantville Station Painting Improvements, approved by Agenda Item No. 13 at the July 27, 2023 MTS Board of Directors Meeting; 2) Execute MTS Doc. No. PWL370.0-23, with All Source Coatings Inc., a certified Small Business, for the Grantville Station Painting Improvements in the amount of \$1,746,000.00; and 3)Authorize the CEO to execute amendments or change orders up to a 20% contingency (\$349,200) for this construction contract, bringing total expenditure authority to \$2,095,200.00.

9. San Diego State University (SDSU) Tunnel Smoke Control Upgrades – Sole Source Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. PWL378.0-24, a Sole Source agreement, with Drake Integrations LLC (Drake Integrations), for provision of Smoke Control Upgrades at the SDSU tunnel, for a five (5) year period, in the amount of \$299,000.

Construction Management (CM) Services for South Bay Zero Emission Bus (ZEB) Overheard (OH) Charging Infrastructure Installation – Work Order Amendment

Approve

Action would 1)Ratify Work Order WOA2501-CM01.2 under MTS Doc No. G2501.0-21 with TRC Engineers, Inc. (TRC) totaling \$40,305.00, to provide additional survey and inspection staff; 2)Ratify Work Order WOA2501-CM01.3 under MTS Doc No. G2501.0-21 with TRC totaling a savings adjustment of \$6,942.44, for the revision of the estimated work hours for each task; and 3) Authorize the Chief Executive Officer (CEO) to execute Work Order WOA2501-CM01.4 under MTS Doc. No. G2501.0-21, with TRC, for additional CM services for the ZEB OH Charging Infrastructure Construction Project in the amount of \$421,142.48.

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11. South Bay Maintenance Facility (SBMF) Building 3620 Roofing Replacement – Work Order Agreement

Approve

Action would authorize the Chief Executive Officer (CEO) to execute Work Order MTSJOC324-35 under Job Order Contract (JOC) to MTS Doc. No. PWG324.0-21, with ABC General Contractor, Inc. (ABCGC), in the amount of \$193,236.34 for replacing the roofing at Building 3620 at the SBMF.

12. Municipal Separate Storm Sewer System (MS4) Support and As-Needed Best Management Practices (BMP) Repair and Consulting Services – Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc No. PWG367.0-23, with WSP USA (WSP), in the amount of \$1,079,270.68 for a period of five (5) years to provide MTS support and as-needed repair and consulting services related to Phase II MS4 General Order.

13. Light Rail Vehicle (LRV) Tire Kits - Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. L1648.0-23 with Penn Machine, in the amount of \$5,142,681.23 for LRV Tire Kits.

14. Mobile Column Lifts – Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. L1643.0-23, with Southwest Lift & Equipment, Inc., a Small Business (SB) in the amount of \$182,382.56 for mobile column lifts.

15. Tenable Software Renewal Service – Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. G2748.0-23, with Data Impressions Technology Group, in the amount of \$368,725.00, for a period of three (3) years for the provision of Tenable Software subscriptions.

16. Legal Services – Tort Liability – Contract Award

Approve

Action would 1) Authorize the Chief Executive Officer (CEO) to execute MTS Doc. G2782.0-24 with Kahana & Feld, LLP (Kahana & Feld) to provide legal services through December 31, 2026 in the amount of \$677,725; and 2) Authorize the CEO to execute MTS Doc. G2783.0-24 with McDougal Boehmer Foley Lyon Mitchell & Erickson (McDougal) to provide legal services through December 31, 2026 in the amount of \$677,725.

17. On-Call Marketing and Communication Services – Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to: 1) Execute MTS Doc. No. G2719.0-23, with Nuffer, Smith, Tucker, Inc. (Nuffer, Smith, Tucker), a Small Business (SB), for On-Call Marketing and Communication Services for a three (3) base year period in the amount of \$1,217,060, plus three (3) 1-year options in the amount of \$1,264,880 for a total contract amount of \$2,481,940; and 2) Exercise the option years at the CEO's discretion.

18. Clean Transit Advancement Campus (CTAC), Advanced Planning Services – Work Order Amendment

Approve

Action would 1) Ratify Work Order WOA353-AE-20, under MTS Doc No. PWL353.0-22, with Dokken Engineering (Dokken), in the amount of \$37,323.27 for design services to perform a Phase II Environmental Site Assessment (ESA); and 2) Authorize the Chief Executive Officer (CEO) to execute Work Order Amendment WOA353-AE-20.01, under MTS Doc No. PWL353.0-22, with Dokken, in the amount of \$1,238,671.08 to provide advanced planning services for a new MTS bus maintenance facility for the Clean Transit Advancement Campus (CTAC) Project, formally known as Division 6.

19. Communications (Comm) Cabinets HVAC Maintenance - Contract Award

Approve

Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. PWG365.0-23 with Comfort Mechanical, a Small Business (SB), at \$889,846, for HVAC preventative maintenance and inspection services for comm cabinets.

20. Additional Staffing – One (1) PRONTO Support Specialist and three (3) Call/Service Center Representatives

Approve

Action would authorize the Chief Executive Officer (CEO) to add one (1) PRONTO Support Specialist and three (3) Call/Service Center Representatives to the position tables previously approved in the Fiscal Year 2024 budget.

DISCUSSION AND REPORT ITEMS

21. PRONTO Fare Collection System – Contract Amendment (Israel Maldonado)

Approve

Action would authorize the Chief Executive Officer (CEO) to execute Amendment 17 to MTS Doc. No. G2091.0-18, with Innovations in Transportation, Inc. (INIT), for Open Payment and Inspection App Solution, in the amount of \$1,224,387.98.

22. Transit Security and Passenger Safety Department Expansion (Al Stiehler)

Approve

Action would approve the addition of 34 new Code Compliance Inspectors (CCIs), six (6) Code Compliance Supervisors, one (1) Assistant Field Operations Manager, one (1) Administrative Support Professional and create five (5) Code Compliance Dispatcher positions.

23. Grants Administration Report (Kena Teon and Julia Tuer)

Informational

24. MTS Access Services Overview (Michael Wygant and Jay Washburn)

Informational

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OTHER ITEMS

25. Chair's Report Informational

26. Chief Executive Officer's Report Informational

27. Board Member Communications

Informational

28. Remainder of Public Comments Not on The Agenda

This item is a continuation of item No. 2 (Public Comment), in the event all speakers who request to comment on item No. 2 are not called. If all Public Comment is accepted during item No. 2, no additional public comment will be accepted under this item.

CLOSED SESSION: TIME CERTAIN AT 11:00AM

29. Closed Session – Conference with Legal Counsel – Existing Litigation Pursuant to California Government Code Section 54956.9(d)(1)

Grecia Figueroa v Nathan Fletcher, San Diego Metropolitan Transit System, et al. San Diego Superior Court Case No. 37-2023-00012828-CU-OE-CTL

Possible Action

ADJOURNMENT

30. Next Meeting Date

The next Board of Director's meeting is scheduled for October 19, 2023 at 9:00am.

31. Adjournment

From: Elaine Regan <13eregan@gmail.com>
Sent: Friday, September 8, 2023 5:29 PM

To: ClerkoftheBoard

Subject: Please INSIST that SANDAG do on an extensive Study to connect the Trolley or other modes to the

Airport and OPPOSE SANDAG's APM

Attachments: ER - MTS-Support Trolley expansion to the Airport -not APM Sept 2023v2.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Please send my attached comments to the Board of Directors in anticipation of SANDAG's APM presentation to the Board.

Thank you.

Elaine Regan

DATE: September 8, 2023

Subject: Please INSIST that SANDAG do on an extensive Study to connect the Trolley or other modes to the Airport and OPPOSE SANDAG's Elevated Automated People Mover (APM)

Dear Chair Whitburn and MTS Board of Directors,

Although SANDAG's APM presentation to the MTS Board has been removed from the September agenda, I want to share my concerns about the concept. Please insist that SANDAG conduct an extensive study of the Trolley and other modes to expand and improve public transit to the airport and beyond and reject the unrealistic and rushed concept of an elevated Automated People Mover (APM) to Downtown.

San Diego should receive a fair share of the money available from the State and the Federal Infrastructure Bill for projects to expand service to the region with demonstrated need, without wasting money duplicating what we already have.

Therefore, I strongly oppose the elevated Automated People Mover from the Airport to Downtown that SANDAG proposed July 28, 2023. The rush to create a project for a CEQA evaluation lacks transparency and excludes the public. I strongly support an extensive study by SANDAG to connect the Trolley system, or other modes, to the Airport. The Trolley has greater potential to expand the service to new destinations and more potential to receive funding.

Please:

- Oppose this APM proposal and recommend against sending it for a CEQA evaluation
- Insist SANDAG do an in-depth study of alternative expansion possibilities for the Trolley system and other modes to reach the airport,
 - Include multiple options originating from the Middletown station,
 - Consider starting a new line, which could operate with greater frequency,
 - Include operating the Trolley more like an at-grade streetcar similar to operation on Park Blvd,
 - Include the long-term purpose of expanding the Trolley system to destinations such as Liberty Station and the Sports Arena.

REASONS TO SUPPORT FURTHER STUDY OF THE TROLLEY AND OTHER MODES

- Workers and airport travelers already have access to the airport via public transit. SANDAG used 2
 minutes frequency for the APM but 10 minutes for the bus and 15 minutes for the Trolley. Insist on
 fair and multiple comparisons.
- Ridership demand is not evident to justify spending \$2 billion (2022 dollars) for elevated APM service. Current weekday bus ridership on the downtown 992 Airport service averages 794 and pre-Covid was 1301. The Old Town Flyer weekday ridership is approximately 500. There is significant room to improve both of these services beyond what SANDAG studied.
- Rail service expansion west of the LOSSAN tracks should meet the **overall public transit needs** and the airport should be considered as a stop, not a final destination.
- SANDAG describes the APM: "vehicles are assumed to be **designed with airport travel in mind**, with space for luggage, available but minimal seating conducive to short trips, and ample handholds". The **APM is not the appropriate vehicle for expansion** to future destinations.
- SANDAG only studied one trolley alternative that operated 3 trains on one set of tracks, which is
 unrealistic since it creates too much congestion and doesn't allow for faster service. The Trolly
 deserves a fair study with multiple options.
- The **Trolley is capable of operating at-grade**, adjacent to traffic, like it does on Park Blvd, so many other solutions need to be explored. Even a **streetcar alternative should be considered before massive concrete structures are created downtown.**

• The Port is planning **dedicated transit lanes on Harbor Drive** and the study used those lanes in the Bus upgrade evaluation. **Consider Harbor Drive for at-grade rail expansion**. Every picture the Port uses has rail on these transit lanes.

REASONS TO OPPOSE THE APM PROPOSAL

- The proposed \$1.3 \$2 Billion (2022 \$\$) APM duplicates both the Trolley tracks and Trolley stations that already exist downtown.
- **Duplication will severely hinder the ability to get State or Federal funding.** Use State and Federal funds to expand our trolley system, not duplicate it.
- SANDAG's ridership model had to operate every 2 minutes before the APM had better ridership than the single Trolley option operating every 15 minutes. This ridership failure should have ended the study.
- SANDAG's **Concept 5 South Leg was NOT part of the study** but a last minute desperation choice that was tacked on as Appendix S and not shared with the public at the SANDAG Board meeting.
- Although the Trolley has lower Construction Cost and Cost per Rider, more stations to serve
 the public and tourists, and a better vehicle for expansion due to seats, SANDAG picked the
 APM anyway. This result is biased.
- Building a massive elevated concrete structure along Pacific Highway and Broadway, basically 3 stories high through downtown, will ruin the landscape of beautiful San Diego. The proposed APM system would be a giant eyesore.
- All the view corridors to the Bay, from Laurel through Broadway, would be ruined with an elevated APM on Pacific Highway and Broadway.
- The elevated APM concrete infrastructure would be similar to the Trolley infrastructure on Genesee in a purely Commercial district. Don't build elevated APM's next to thousands of residential homes downtown.
- SANDAG's ridership model does not reflect the new population projections SANDAG just released. Our whole region is only expected to grow by 40,000 people by 2060
- A massive elevated rail system in downtown is destructive to downtown's ambiance and function as a world class city. These streets are used for multiple civic functions as well as being our main entrance boulevards into the City.

The **Trolley and the bus can provide better and much more flexible total service** than the APM at a better cost, without the huge disruption and destruction of downtown's landscape.

See the following pictures

Please expand the transit system efficiently by extending the light rail Trolley system.

Sincerely,

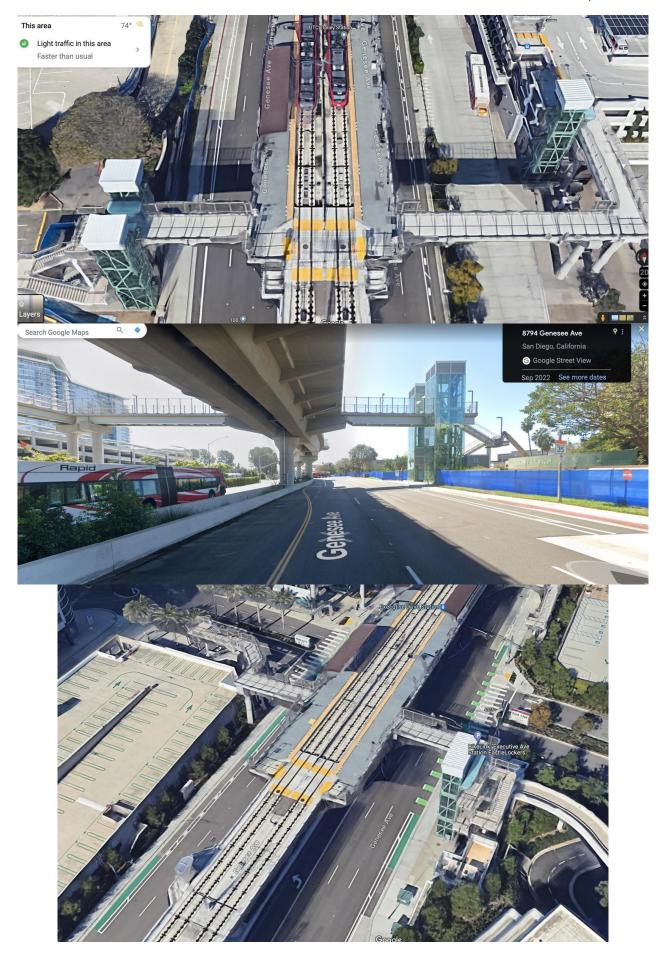
Elaine Regan 1205 Pacific Highway, Unit 1303 San Diego, CA 92101-8461 13eregan@gmail.com



REDUNDANT System based on South Leg proposal presented to SANDAG BOD 7/28/23



The APM would have similar concrete structures and stations on major streets in Downtown as pictured. The structures built on Genesee are in a totally commercial district and appropriate. This massive concrete construction is unacceptable for downtown.



From: Mark Regan <13mregan@gmail.com>
Sent: Friday, September 8, 2023 5:32 PM

To: ClerkoftheBoard

Subject: Please INSIST that SANDAG do on an extensive Study to connect the Trolley or other modes to the

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Mark Regan

DATE: September 8, 2023

Subject: Please INSIST that SANDAG do on an extensive Study to connect the Trolley or other modes to the Airport and OPPOSE SANDAG's Elevated Automated People Mover (APM)

Dear Chair Whitburn and MTS Board of Directors,

Although SANDAG's APM presentation to the MTS Board has been removed from the September agenda, I want to share my concerns about the concept. Please insist that SANDAG conduct an extensive study of the Trolley and other modes to expand and improve public transit to the airport and beyond and reject the unrealistic and rushed concept of an elevated Automated People Mover (APM) to Downtown.

San Diego should receive a fair share of the money available from the State and the Federal Infrastructure Bill for projects to expand service to the region with demonstrated need, without wasting money duplicating what we already have.

Therefore, I strongly oppose the elevated Automated People Mover from the Airport to Downtown that SANDAG proposed July 28, 2023. The rush to create a project for a CEQA evaluation lacks transparency and excludes the public. I strongly support an extensive study by SANDAG to connect the Trolley system, or other modes, to the Airport. The Trolley has greater potential to expand the service to new destinations and more potential to receive funding.

Please:

- Oppose this APM proposal and recommend against sending it for a CEQA evaluation
- Insist SANDAG do an in-depth study of alternative expansion possibilities for the Trolley system and other modes to reach the airport,
 - Include multiple options originating from the Middletown station,
 - Consider starting a new line, which could operate with greater frequency,
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REASONS TO SUPPORT FURTHER STUDY OF THE TROLLEY AND OTHER MODES

- Workers and airport travelers already have access to the airport via public transit. SANDAG used 2
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- Ridership demand is not evident to justify spending \$2 billion (2022 dollars) for elevated APM service. Current weekday bus ridership on the downtown 992 Airport service averages 794 and pre-Covid was 1301. The Old Town Flyer weekday ridership is approximately 500. There is significant room to improve both of these services beyond what SANDAG studied.
- Rail service expansion west of the LOSSAN tracks should meet the **overall public transit needs** and the airport should be considered as a stop, not a final destination.
- SANDAG describes the APM: "vehicles are assumed to be **designed with airport travel in mind**, with space for luggage, available but minimal seating conducive to short trips, and ample handholds". The **APM is not the appropriate vehicle for expansion** to future destinations.
- SANDAG only studied one trolley alternative that operated 3 trains on one set of tracks, which is
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- The **Trolley is capable of operating at-grade**, adjacent to traffic, like it does on Park Blvd, so many other solutions need to be explored. Even a **streetcar alternative should be considered before massive concrete structures are created downtown.**

• The Port is planning **dedicated transit lanes on Harbor Drive** and the study used those lanes in the Bus upgrade evaluation. **Consider Harbor Drive for at-grade rail expansion**. Every picture the Port uses has rail on these transit lanes.

REASONS TO OPPOSE THE APM PROPOSAL

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See the following pictures

Please expand the transit system efficiently by extending the light rail Trolley system.

Sincerely,

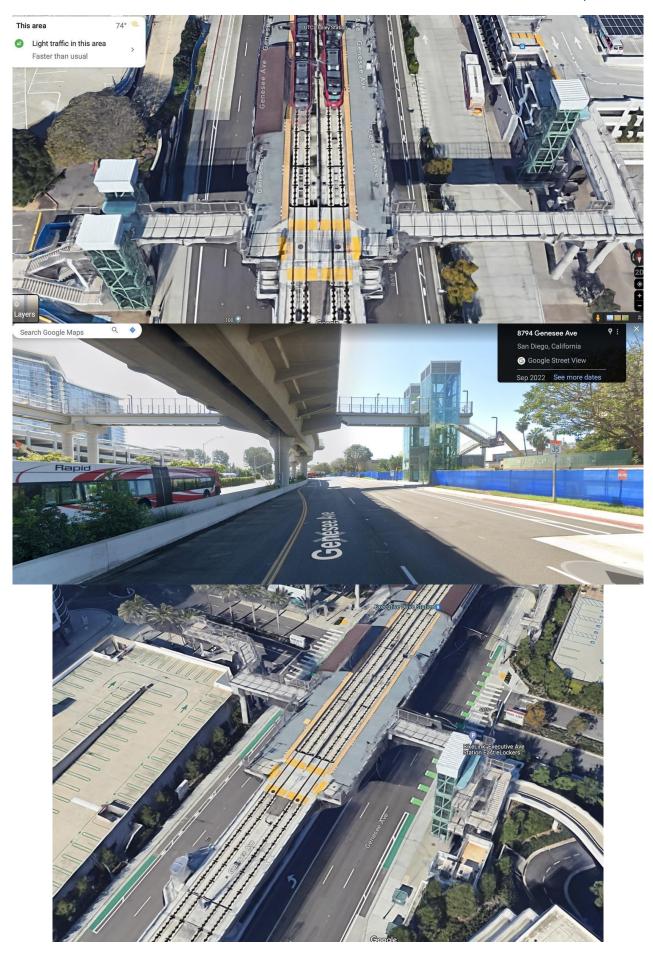
Mark Regan 1205 Pacific Highway, Unit 1303 San Diego, CA 92101-8461 13mregan@gmail.com



REDUNDANT System based on South Leg proposal presented to SANDAG BOD 7/28/23



The APM would have similar concrete structures and stations on major streets in Downtown as pictured. The structures built on Genesee are in a totally commercial district and appropriate. This massive concrete construction is unacceptable for downtown.



From: A Bird2 <am.a.bird02@gmail.com>
Sent: Friday, September 8, 2023 6:36 PM

To: ClerkoftheBoard

Subject: OPPOSITION TO SANDAG's Elevated Automated People Mover (APM)

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Chair Whitburn and MTS Board of Directors,

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REASONS TO SUPPORT FURTHER STUDY OF THE TROLLEY AND OTHER MODES

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- SANDAG describes the APM: "vehicles are assumed to be **designed with airport travel in mind,** with space for luggage, available but minimal seating conducive to short trips, and ample hand-holds". The **APM is not the appropriate vehicle for expansion** to future destinations.

- SANDAG only studied one trolley alternative that operated 3 trains on one set of tracks, which is unrealistic since it creates too much congestion and doesn't allow for faster service. **The Trolly deserves a fair study with multiple options.**
- The **Trolley is capable of operating at-grade**, adjacent to traffic, like it does on Park Blvd, so many other solutions need to be explored. Even a **streetcar alternative should be considered before massive concrete structures are created downtown**.
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REASONS TO OPPOSE THE APM PROPOSAL

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Sincerely,

Amy Parrott 1205 Pacific Hwy., Unit 1501 San Diego, CA 92101 am.a.bird02@gmail.com



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From: tali barzilai < talibarzilai@yahoo.com>
Sent: Saturday, September 9, 2023 2:43 AM

To: ClerkoftheBoard

Subject: Please don't let sandag project come through

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello

I live in the north tower of the grande north and I am opposed the Sandag project.

It's a wonderful idea to have public transportation to the airport but not with this ugly project. I am for the trolly going to the airport seems like more logical solution.

Hope you take the neighborhood community ideas and feeling before you make such major decision.

Thank you Tali Barzilai 1205 pacific highway Unit 1401 SD 92101

Sent from my Iphone

PUBLIC COMMENT AI 2, 9/14/23

From: jimtari@aol.com

Sent: Saturday, September 9, 2023 10:50 AM

To: ClerkoftheBoard

Subject: SANDAG People Mover Study

Attachments: SANDAG Study.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Please see attached letter.

Thank you.

DATE: September 8, 2023

Subject: Please INSIST that SANDAG do on an extensive Study to connect the Trolley or other modes to the Airport and OPPOSE SANDAG's Elevated Automated People Mover (APM)

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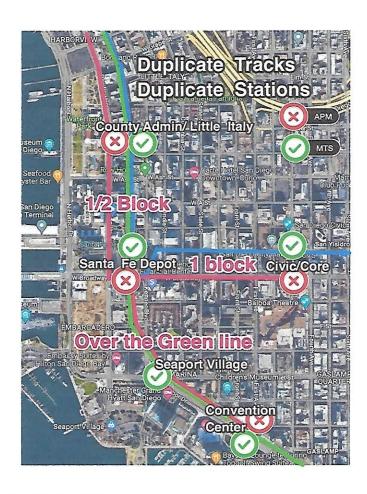
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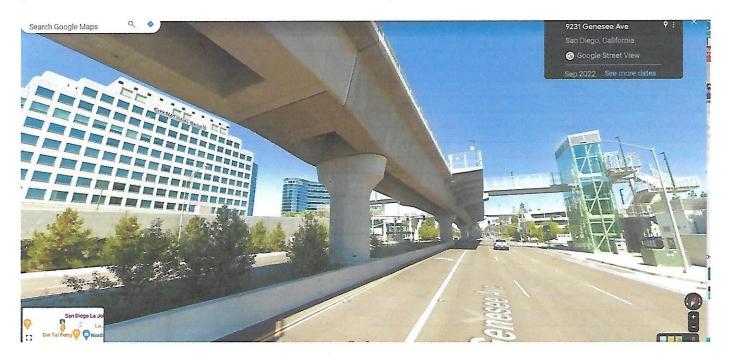
Please expand the transit system efficiently by extending the light rail Trolley system.

Sincerely,		11 a	- 12		
Name	JAMES	HOLIN	DRAK	6	
Address_	1205	PACIFIC	HWY	# 3302	
	9210		15		AOL. COM
email add	ress or phon	e number	m) in	MISIE	AUC. C



REDUNDANT System based on South Leg proposal presented to SANDAG BOD 7/28/23

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massive concrete construction is unacceptable for downtown.

From: Robert Algeni <robert.algeni@gmail.com>
Sent: Saturday, September 9, 2023 11:43 AM

To: ClerkoftheBoard

Subject: OPPOSE SANDAG's Elevated Automated People Mover

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Sincerely, Name Robert Algeni Address 1205 Pacific Highway Unit 3103 ZIP CODE 92101 email address or phone number 415.225.4041

Robert Algeni



MTS STAFF USE ONLY
Public Comment
AI #: 1_ Date: 9 /14 / 23
No. in queue: ______

IN - PERSON PUBLIC COMMENT

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PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to two minutes per person, unless specified by the Chairperson. Please make your comment at the podium located on the right side of the dais. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard two-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD

A paraphrased version of this comment will be included in the minutes. The full comment can be heard by reviewing the recording posted on the respective meeting website: https://www.sdmts.com/about/meetings-and-agendas. This form will be included in the Meeting Materials posted on the respective MTS meeting site.





SPEAKER INFORMATION (please print)

MTS STAFF USE ONLY
Public Comment
AI #: 1 Date: 9 / 14 /23

No. in queue: ______

IN - PERSON PUBLIC COMMENT

Agenda Item No.:

Name:

Name:

Micholus (ambrix Eyahaccan

City of Residence:

Remark Subject:

Affiliated

Organization:

Tourstors local 683, Transdew

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CALL – IN PUBLIC COMMENT

Alex Wong, provided a public comment for agenda item #2. A paraphrased version of Wong's statement will be reflected in the minutes.

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CALL – IN PUBLIC COMMENT

The Original DRA, provided a public comment for agenda item #2. A paraphrased version of The Original DRA's statement will be reflected in the minutes.

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MINUTES

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

July 27, 2023

[Clerk's note: Except where noted, public, staff and board member comments are paraphrased. The full comment can be heard by reviewing the recording at the MTS website.]

1. Roll Call

Chair Whitburn called the Board meeting to order at 9:03 a.m. A roll call sheet listing Board member attendance is attached.

2. Public Comment

David Roger – Provided a verbal statement to the Board during the meeting. Roger expressed concern for safety and health issues at the 5th Avenue Trolley Station and expressed dissatisfaction with the cleaning and security measures at the station.

Louis Pruitt – Provided a verbal statement to the Board during the meeting. Pruitt expressed dissatisfaction with the current Sunday schedule and asked if the Saturday schedule could replace the Sunday schedule.

Matthew Snyder – Representing Teamsters Local Union 542 made a verbal statement to the Board during the meeting. Snyder asked for conversations to continue on having Copley Park as part of the MTS operations. Snyder asked the Board what stage of the consolidation process the agency was in; if there was a formed ad hoc committee; when the meeting would take place; and who would compose the membership. Snyder asked for Local 542 representatives to be part of the membership and urged the subcommittee to be composed of MTS representatives, similar industries, San Diego Association of Governments (SANDAG) and service area representatives. Snyder noted the lack of sanitation and security at employee restrooms.

The Original DRA – Provided a verbal statement to the Board during the meeting. The Original DRA commented on the MTS vs Figueroa case and the financial severance option offered. They also commented on the recent strike and the increase in funding provided to Transdev. The Original DRA expressed dissatisfaction with these incidents and how MTS handled the situations.

Alex Wong – Provided a verbal statement to the Board during the meeting. Wong supported a people mover over the airport trolley in an effort to maximize high frequency service.

CONSENT ITEMS:

3. Approval of Minutes

Action would approve the June 8, 2023 Special Board of Directors and the June 15, 2023 Board of Directors meeting minutes.

4. Adoption of 2023 Conflict of Interest Code – Amendment

Action would 1) Adopt Resolution No. 23-09 amending the MTS Conflict of Interest Code pursuant to the Political Reform Act of 1974; 2) Adopt the amended 2023 MTS Conflict of Interest Code and 3) Forward the amended 2023 MTS Conflict of Interest Code to the County of San Diego (the designated code-reviewing body) (Gov. Code § 82011) requesting approval of the amendment as required under Government Code section 87303.

5. Proposed Revisions to The Accessible Services Advisory Committee Membership Guidelines

Action would approve the proposed revisions to the Accessible Services Advisory Committee (ASAC) Membership Guidelines.

- 6. Additional Staffing One (1) Planning Transportation Planner
 Action would authorize the Chief Executive Officer (CEO) to add one (1) Transportation
 Planner to the position tables previously approved in the Fiscal Year 2024 budget.
- 7. Trolley Track Improvement Construction Management (CM) Services Work Order Action would authorize the Chief Executive Officer (CEO) to execute Work Order WOA2499-CM01 under MTS Doc. No. G2499.0-21 with PGH Wong, a Minority Business Enterprise (MBE), in the amount of \$149,474.37 for CM services for Trolley Track Improvements.
- 8. Orange/Blue/Green Lines Variable Message Sign (VMS) Installation Project Work Order Agreement

Action would authorize the Chief Executive Officer (CEO) to execute Work Order No. WOA355-AE-17, under MTS Doc. No. PWL355.0-22 with Psomas in the amount of \$410,078.68 to prepare plans, specifications, and estimates (PS&E) for the Orange/Blue/Green Lines VMS Installation Project.

- 9. J Street Corrugated Metal Pipe Emergency Repair Work Order Agreement
 Action would authorize the Chief Executive Officer (CEO) to execute Work Order
 MTSJOC347-16 under Job Order Contract (JOC) to MTS Doc. No. PWG347.0-22, with ABC
 General Contractor, Inc. (ABCGC) in the amount of \$146,929.97 for the repair of the
 corrugated metal pipe located at J Street along the Blue Line right-of-way.
- 10. Motorola Solutions, Inc. Radio System Maintenance Services Contract Award
 Action would authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. B0759.023, a Sole Source agreement, with Motorola Solutions, Inc. (Motorola) for provision of
 Regional Transit Management System (RTMS) radio system maintenance services for a four
 (4) year period effective August 1, 2023 in the amount of \$1,185,954.08.
- 11. Blue Line Bridge Repair Work Order Agreement
 Action would authorize the Chief Executive Officer (CEO) to execute Work Order
 MTSJOC347-08 under Job Order Contract (JOC) to MTS Doc. No. PWG347.0-22, with ABC
 General Contractor, Inc. (ABCGC), in the amount of \$149,887.28 for the repair of the bridges located at 8th Street and 18th Street along the Blue Line right-of-way.
- 12. Microsoft Enterprise Licensing and Software Assurance Contract Amendment Action would authorize the Chief Executive Officer (CEO) to execute Amendment No. 4 to MTS Doc. No G2378.4-20, with Crayon Software Experts, LLC (Crayon) in the amount of \$160,874.78 bringing the contract total to \$1,150,551.61.
- 13. Grantville Transit-Oriented Development (TOD) Painting Contract Award
 Action would authorize the Chief Executive Officer (CEO) to: 1) Execute MTS Doc. No.
 PWL370.0-23 with Prime Painting Contractors Inc. for Grantville Station Painting
 Improvements in the amount of \$1,330,000; and 2) Authorize the CEO to execute

amendments or change orders up to a 20% contingency (\$266,000) for this construction contract bringing total expenditure authority to \$1,596,000.

14. Grantville Transit-Oriented Development (TOD) Painting Construction Management Services – Work Order Agreement

Action would authorize the Chief Executive Officer (CEO) to execute Work Order No. WOA2496-CM01 under MTS Doc. No. G2496.0-21 with AECOM Technical Services (AECOM) for the Grantville TOD Painting Construction Management (CM) Services in the amount of \$190,425.76.

15. Bayside Double Track Imperial Avenue Transit Center (IMT) Construction Management (CM) Services – Work Order Amendment

Action would authorize the Chief Executive Officer (CEO) to execute Work Order No. WOA2498-CM05 under MTS Doc. No. G2498.0-21 with Kleinfelder Construction Services, Inc., to provide Construction Management (CM) Services for the Bayside Double Track IMT Project in the amount of \$500,027.93.

Modernization of Stadium Trolley Station Elevator – Work Order Agreement Action would authorize the Chief Executive Officer (CEO) to execute Work Order MTSJOC347-21 to MTS Doc. No. PWG347.0-22 with ABC General Contractor, Inc. (ABCGC) in the amount of \$296,562.53 to modernize the Stadium Trolley Station elevator.

17. Billboard Lease Contract Renewals – Master Lease Agreement and Individual Site Leases

Action would authorize the Chief Executive Officer (CEO) to execute new Master Lease Agreements (MLA) and Location Specific Leases (LSL) (collectively Leases) (in substantially the same format as Attachment A and B) for thirteen (13) existing billboards on MTS property with Clear Channel Outdoor, LLC (CCO) and Outfront Media, LLC (OUT) (collectively Lessees) for a twenty (20) year term with a minimum annual revenue of \$458,559.

18. Additional Staffing – One (1) Bus Operations Training Instructor

Action would authorize the Chief Executive Officer (CEO) to add one (1) Bus Operations Training Instructor to the position tables previously approved in the Fiscal Year 2024 budget.

Public Comment

The Original DRA – Provided a verbal statement to the Board during the meeting. They expressed dissatisfaction with the meeting minutes. The Original DRA did not support item number 4 and urged the Board to join in partnerships where revenue from advertisement companies fund restroom maintenance costs.

Truth – Provided a verbal statement to the Board during the meeting. They believed that conflict of interest disclosure should include political interests. They commented about the vacant Caltrans position in the ASAC. They disapproved of various projects such as items: 8, 10, 11, 13, 14, 16, 17.

Action on Recommended Consent Items

Board Member Hall moved to approve Consent Agenda Item Nos. 3 to 18. Chair Whitburn seconded the motion, and the vote was 14 to 0 in favor with Board Member Vargas absent.

DISCUSSION ITEMS AND REPORT ITEMS:

19. San Ysidro Transit Center Improvements Project Update (Denis Desmond, Beverly Neff)

Beverly Neff, MTS Senior Planner, and Zack Hernandez, with SANDAG, presented on San Ysidro Transit Center Improvements Project Update. They outlined: challenges impacting San Ysidro, approach to solutions, various concepts, stakeholder and community outreach.

Public Comment

Truth – Provided a verbal statement to the Board during the meeting. Truth believed that not many people rode transit and suggested various design possibilities to maximize efficiency and safety for the project. Truth did not support the design C option.

The Original DRA – Provided a verbal statement to the Board during the meeting. They did not support any efforts to assist the Mexican Government. They did not agree with the survey strategies used, electric vehicle (EV) incentives, and an elevated platform design.

Committee Comment

Sharon Cooney, MTS Chief Executive Officer, alerted the Board that Concept C required the San Ysidro Station service to be suspended for 2-3 years during the construction period. She noted the importance to grade separate from pedestrian and vehicle crossings for maximizing trolley efficiency.

Board Member Moreno liked the San Ysidro Boulevard design concept and was excited about the plaza, bike, and restroom opportunities. She complemented staff on the user experience portion of the survey and highlighted the importance of rider survey participation to provide best service. She reminded the Board and audience of the highly trafficked border crossing the system services and urged planning for future growth not solely current demand. She noted the ongoing growth of Tijuana and recent San Ysidro point of entry improvement as markers for high cross border mobility and as incentives to use transit rather than cars. She noted that a previous San Ysidro Mobility Hub Project obstacle was a lack of space and encouraged continuous creative engineering solutions and supported Concept B as the best option for the area. She stated that this project should not be a solely MTS funded project and will require State and Federal funding. She stated that the agency could have addressed the project sooner with federal project infrastructure money. She supported the overall project and Concept B.

Board Member Hall asked if staff had performed cost estimates for the projects. Mr. Hernandez replied that traditionally, elevated structures were costlier and planners did not have definitive estimates at the current point of the project. Board Member Hall encouraged cost associations for the Board to be able to make fiscally appropriate decisions. He asked if traffic studies had been performed for the bus only lane concept. Mr. Hernandez replied that the agency has only looked at conceptual level assessments of what the area could support. He noted that there was a level of implementation feasibility within the next phase of engineering and design. Board Member Hall cautioned Mr. Hernandez about pricing themselves out of the market. Ms. Neff noted that both concepts would solicit costs whether it involved elevating the platform or implementing at grade separation. Board Member Hall asked how the Cross-Border Trolley concept integrated to the proposed project designs. Mr. Hernandez classified the project as a near term project that does not impact the addition or expansion of an alternative project such as the Cross-Border Trolley.

Board Member Chavez cautioned the consideration of Concept C due to the station requiring to be out of service for a 2-3-year timeline. She encouraged focus groups and supported the construction of restrooms in the area. She supported Concept B design. She noted that the area was a 24-hour crossing and encouraged a designated pick up and drop off zone. She cautioned about the highly dense traffic that causes congestion, limited pick up zones and bike related accidents. She encouraged rush hour connections to facilitate the transfer point from Ped West.

Board Member Elo-Rivera asked if there could be a temporary station nearby to consider Concept C as an option. Ms. Neff replied that temporary stations have been assessed but no satisfactory locations were identified and would have to be addressed with bus shuttles. He noted the efficient, effective and welcoming space the project will be for the region. He supported the bus only lane, flex curve opportunities, public space and the incorporation of restrooms. Board Member Elo-Rivera was curious about the survey engagement and if the survey captured riders throughout different times of day and he highlighted the needs of students. Mr. Hernandez cited a comprehensive travel behavior survey at the border that SANDAG finalized in 2019/2020 that showed work and school as large reasons for border crossings. He noted that additional outreach could be conducted to better serve communities, including schools. Board Member Elo-Rivera encouraged SANDAG to connect with community colleges. He agreed that the agency should anticipate the crossing demand growth.

Board Member Chavez suggested the construction of the project at night to reduce impacts.

Action Taken

Informational item only. No action taken.

20. State of California Budget – Transportation Funding (Sharon Cooney and Julia Tuer)

Julia Tuer, MTS Manager of Government Affairs, presented on State of California budget transportation funding. She provided details on: the state budget transportation funding, accountability requirements, statutory relief measures, transit transformation task force and next steps.

Public Comment

Truth – Provided a verbal statement to the Board during the meeting. Truth did not support funding of the various programs.

The Original DRA – Provided a verbal statement to the Board during the meeting. The Original DRA did not support funding, its various programs and the organization itself.

Committee Comment

Ms. Cooney added that Board Member Montgomery Steppe previously raised discussions about reinstating the Transportation Development Act (TDA) task force as part of a decision-making body. Ms. Cooney noted that it would be likely she is appointed the Chair of the California Transit Association and will likely be on the Transit Transformation Task Force.

Board Member Montgomery Steppe was happy to hear that the committee would be reinstated. She praised the additional funding that would be allocated to the region and looked forward to seeing the ideas that are created from the task force and the MTS Budget Development Committee. Board Member Montgomery Steppe asked about how funding would be distributed

over the following four years. Ms. Tuer explained that the majority of the funding would be allocated in the first two fiscal years (FY).

Board Member Donovan asked how the estimated FY 24 funding aligns with the projected budget. Ms. Cooney clarified that the funding presented on today was not reflected in the budget and noted that staff had not yet received full funding guidelines from the state.

Board Member Moreno thanked staff for their advocacy work at the state level. She noted that as Cahir of the MTS Budget Development Committee, they would allocate the funds appropriately and hoped to fund Youth Opportunity Passes (YOP) and a restroom study. Board Member Moreno asked who would compose the task force. Ms. Tuer replied that representatives would include: transit operators, Caltrans, local governments, regional planning agencies, transportation advocacy organizations, labor organizations, academic institutions, state/assembly transportation committees and additional stakeholders. Board Member Moreno claimed that this was MTS's opportunity for San Diego to be a leading transit agency in the state.

Action Taken

Informational item only. No action taken.

21. Transit Security and Passenger Safety Department Staffing Options (Al Stiehler)

Al Stiehler, MTS Director of Transit Security and Passenger Safety, presented on department staffing options. He presented on: the department's vision, mission & values, management department size, code compliance inspector (CCI) department size, INTERCON department size, K9 department size, homeless outreach team (HOT), bus enforcement support team (B.E.S.T.), camp team, passenger safety team, special details / community outreach, current department operations, trolley system, deployment, CCI inspections and enforcement, CCI total hand held unit (HHU) inspections, citations, challenges, light rail security issues survey, reimagining security, department expansion, benefits to expanding the department, additional expansion considerations, contracting with local law enforcement, and benefits of creating a transit police department.

Public Comment

David Roger – Provided a verbal statement to the Board during the meeting. Roger expressed dissatisfaction with MTS security and claimed lack of safety on the system.

The Original DRA – Provided a verbal statement to the Board during the meeting. The Original DRA critiqued the agency's perception of safety efforts presented.

Truth – Provided a verbal statement to the Board during the meeting. Truth expressed dissatisfaction with MTS security and claimed lack of safety on the system and provided anecdotal accounts.

Committee Comment

Board Member Dillard asked about the additional Transportation Security Association (TSA) K9 unit teams allocated to San Diego during Comic Con and the internal K9 unit. Mr. Stiehler replied that the agency has three K9 teams. She asked staff to describe how the unit is used. Mr. Stiehler stated that the unit is deployed when there is an unattended package to detect explosives. She invited staff's recommendations on La Mesa's HOME program.

Board Member Montgomery Steppe asked what staff's recommendation was based off of the three proposals. Mr. Stiehler suggested that they be considered as phases rather than options. He believed that the first phase should include a staff increase for visibility. Then, concurrently, the agency could contract with law enforcement, and while the contract was in place, the agency could begin to build an internal police department. Board Member Montgomery Steppe emphasized that a strategic plan would continue to be defined by existing principles, if the department were to be expanded. She encouraged the continuation of outreach workers, the ambassador program, along with additional cleanliness and lighting infrastructure. She noted that a partnership with the City Police Department or the Sheriff's department would be cumbersome as they are experience staffing impacts. She was wary of facing similar staffing issues, but preferred to have the services in-house rather than contracting them out. She emphasized a diverse police workforce and is open to exploring options to make the system safer. She cited the American Public Transportation Association (APTA) peer review, the Homelessness community plan and the balance between social impacts and safety.

Board Member Elo-Rivera noted the diverse ridership and finding balance of the perception of safety is a difficult task. He urged the Board to keep that framework present throughout the conversation. He validated the safety concerns expressed by the community. He believed that the agency needed the right tools to address arising issues. He asked to confirm that MTS is the only agency that does not have a law enforcement component and asked about the significant safety outcomes. Mr. Stiehler replied that transit as a whole is addressing similar issues. including: nuisances, loitering, drug use and mental health. Board Member Elo-Rivera suggested that the issues listed did not necessarily seem like they were law enforcement concerns and believed there were more appropriate resources to address the issues. He did not want to replicate traditional enforcement structures at MTS. He encouraged staff to continue to work with the MTS Security and Passenger Safety Community Advisory Group (CAG)? and expand staffing that trained to work with people experiencing homelessness. He asked staff how homelessness services were offered. Mr. Stiehler clarified that CCIs provide information on resources, and the Downtown Partnership has an unhoused CARE team who can facilitate better access opportunities than MTS. Board Member Elo-Rivera noted the importance of bridging folks with resources. He expressed reservations with contracting the Sheriff's department to yield the results the agency is looking for. He believed that the conversation should be had in a measured approach to ensure that MTS hosts a safe transit system for everyone who uses it.

Board Member Chavez asked what the cost difference would be to contract services versus hosting the program internally. Mr. Stiehler noted that the amount presented was a broad estimate and that to better assess the cost, the agency should higher a consultant. Board Member Chavez noted the prioritization of reliable, clean and safe service as well as continuing to solicit rider focus groups to better enhance the system. She also advocated for real time response. Mr. Stiehler noted the emergency buttons on the inside of each trolley car, and the agency's Ride Assured service where passengers can call or text to report an incident. He noted that the agency is currently working to introduce an application alert feature. Board Member Chavez acknowledged that MTS hosted elderly and disabled passengers on the system and suggested real time camera systems as a reliability tool. Mr. Stiehler replied that there are bandwidth and cost limitations to project a live feed.

Board Member Ortiz was concerned about distinguishing calls for service on MTS transit property and the various jurisdictions. Mr. Stiehler noted that there have been cases where 911 calls are not necessarily directed to jurisdictional dispatch centers and is rather transferred once

the caller disclosed their location. He noted that based off of that information, tracking the calls for service could be confusing where incidents are occurring on a trolley. He noted that law enforcement needs were defined by call for service metrics and asked if there was a way to track trolley specific call for services. Mr. Stiehler replied that the agency has recently created a Crime and Data Analyst position to appropriately deploy security to those areas. He added that once the agency has key data, they are able to accurately locate trolley cars because the dispatch center is within the trolley operator control center. Board Member Ortiz emphasized the importance of keeping accurate data to decision-making. He supported on-board, real-time cameras for accurate data collection.

Chair Whitburn liked the safety organizational goals. He was surprised by the number of MTS employees assaulted and believed that the agency should be able to protect its staff and respond effectively and efficiently. He believed that future conversations about this topic should be thoughtful and inclusive. He also commended the HOT for connecting people with shelters, benefits and family members.

Action Taken

No action taken. Informational item only.

22. Zero Emission Bus (ZEB) Program and Transition Plan Update (Mike Wygant, Kyle Whatley, and Heather Furey)

Mike Wygant, MTS Chief Operating Officer for Bus, and Kyle Whatley, Zero Emission Vehicle and Sustainability Manager, presented on ZEB Program and Transition Plan Update. They provided details on: policy history, timeline, ZEB program performance report, monthly fleet efficiency, average efficiency by route, efficiencies vs temperatures, compressed natural gas (CNG) vs battery electric bus (BEB) monthly millage, efficiency summary, CNG vs BEB fuel and maintenance, availability, ZEB program, summary, ZEB deployment, construction at bus division, South Bay bus maintenance facility, Imperial Ave division, Kearney Mesa and East County, new all-ZEB Division, funding, transition costs, upcoming milestones, upcoming ZEB procurement timeline, early adoption pathway, and final summary.

Public Comment

Truth – Provided a verbal statement to the Board during the meeting. Truth did not support the program due to cost, environmental and safety concerns.

The Original DRA – Provided a verbal statement to the Board during the meeting. The Original DRA did not support the program due to radiation health concerns.

Committee Comment

Board Member Montgomery Steppe noted that the Clean Transit Advancement Campus (CTAC) project's design build allows smaller businesses to be part of the construction process.

Action Taken

No action taken. Informational item only.

23. Grants Administration Report (Kena Teon and Julia Tuer)

The Board deferred the staff report for this item to the next meeting.

24. Operations Budget Status Report for May 2023 (Gordon Meyer)

The Board deferred the staff report for this item to the next meeting.

OTHER ITEMS:

25. Chair Report

There was no Chair report.

26. Chief Executive Officer's Report

There was no Chief Executive Officer's Report.

27. Board Member Communications

There were no Board Member communications.

28. Remainder of Public Comments Not on The Agenda

Truth – Provided a verbal statement to the Board during the meeting. Truth disagreed with the Comic-Con, homeless and YOP populations to be included as ridership metrics. They requested the Purple line pass through Kearney Mesa up to Mira Mesa in order to create major transit connections. Truth cited topics in the SANDAG June 23rd Agenda Packet and the Eno Center for Transportation.

William Moore – Provided a verbal statement to the Board during the meeting. Moore spoke about Circulate San Diego's support of Open Loop Payments and upcoming events on the subject.

ADJOURNMENT

29. Next Meeting Date

The next regularly scheduled Board meeting is September 14, 2023 at 9:00am.

30. Adjournment

The meeting was adjourned at: 12:03pm.

/S/ Stephen Whitburn	
Chairperson	
San Diego Metropolitan Transit System	
Filed by:	Approved as to form:
/S/ Dalia Gonzalez	/S/ Karen Landers
Clerk of the Board	General Counsel
San Diego Metropolitan Transit System	San Diego Metropolitan Transit System

Attachment: Roll Call Sheet

SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS ROLL CALL

MEETING OF (DATE): July 27, 2023			(CALL TO ORDER (TIME): 9:03 am					
RECESS:			F	RECONVENE:					
CLOSED SESSION:			F	RECONV	'ENE:				
PUBLIC HEARING:			F	RECONV	'ENE:				
ORDINANCES ADOP	TED:		<i>P</i>	ADJOUR	N: <u>12:03pm</u>				
JURISDICTION	BOARD MEMBE	≣R	ALTERNA	ATE	PRESENT (TIME ARRIVED)	ABSENT (TIME LEFT)			
City of Chula Vista	Chavez	\boxtimes	Cardenas		9:03am	12:03pm			
City of Chula Vista	McCann	\boxtimes	Cardenas		9:03am	10:05am			
City of Coronado	Donovan	\boxtimes	Duncan		9:03am	12:03pm			
County of San Diego	Vacant		Vargas		ABSENT	ABSENT			
City of El Cajon	Goble (Vice-Chair)		Ortiz	\boxtimes	9:03am	12:03pm			
City of Imperial Beach	Leyba-Gonzalez	\boxtimes	Aguirre		9:03am	12:03pm			
City of La Mesa	Dillard	\boxtimes	Arapostathis	₃ 🗖	9:03am	12:03pm			
City of Lemon Grove	Gastil		Mendoza		9:03am	12:03pm			
City of National City	Bush		Rodriguez		9:07am	10:17am			
City of Poway	Frank		Pepin		9:03am	11:46am			
City of San Diego	Montgomery Steppe	\boxtimes	Von Wilpert		9:03am	12:03pm			
City of San Diego	Elo-Rivera	\boxtimes	LaCava		9:03am	11:41am			
City of San Diego	Gloria		Moreno		9:03am	12:03pm			
City of San Diego	Whitburn (Chair)	\boxtimes	Campillo		9:03am	11:28am			
City of Santee	Hall	\boxtimes	Koval Minto		9:03am	12:03pm			

SIGNED BY THE CLERK OF THE BOARD: /S/ Dalia Gonzalez



Agenda Item No. 4

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Investment Report – Quarter Ending June 30, 2023

INFORMATIONAL ONLY

Budget Impact

None.

DISCUSSION:

Attachment A comprises a report of the San Diego Metropolitan Transit System (MTS) investments as of June 30, 2023. The combined total of all investments has increased quarter to quarter from \$233.5M to \$260.3M. This \$26.8M increase is attributable to \$41.4M in American Rescue Plan Act (ARPA) of 2021 revenue, \$12.4M in Federal Transit Administration (FTA) capital draws, partially offset by \$27.2M in capital expenditures, as well as normal timing differences between other payments and receipts.

The first column provides details about investments restricted for Capital Improvement Projects (CIP) and PRONTO Stored Value.

The second column, unrestricted investments, reports the working capital for MTS operations allowing payments for employee payroll and vendors' goods and services.

MTS remains in compliance with Board Policy 30 and is able to meet expenditure requirements for a minimum of the next six months as required.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachment: A. Investment Report for the Quarter Ending June 30, 2023



San Diego Metropolitan Transit System Investment Report June 30, 2023

Institution / Issuer	Function	Investment Type	Restricted	Unrestricted	Total	Avg. Rate of Return		Benchmark
J.P. Morgan Chase	Operating Funds	Depository Bank	-	29,469,139	29,469,139	2.46%	*	0.550% WSJ Money Market
U.S. Bank - Retention Trust Account	Restricted for Capital Support	Depository Bank	8,531,874	-	8,531,874	N/A	**	-
Local Agency Investment Fund (LAIF)	Restricted (Stored Value)	Investment Pool	6,017,970		6,017,970	3.167%		3.666% S&P US T-Bill 0-3 Mth Index
San Diego County Treasurer's Office	State Grant Funds	Investment Pool	18,814,663		18,814,663	3.380%		3.666% S&P US T-Bill 0-3 Mth Index
Subtotal: Restricted for Capital Support / Stored Value			33,364,506	-	33,364,506			
Local Agency Investment Fund (LAIF)	Investment of Surplus Funds	Investment Pool	-	37,338,074	37,338,074	3.167%		3.666% S&P US T-Bill 0-3 Mth Index
San Diego County Treasurer's Office	Investment of Surplus Funds	Investment Pool		160,154,174	160,154,174	3.380%		3.666% S&P US T-Bill 0-3 Mth Index
Subtotal: Investment Surplus Funds			-	197,492,248	197,492,248			
Grand Total Cash and Investments			\$ 33,364,506	\$ 226,961,387 \$	260,325,894			

^{*-}The 2.46% is an annual percentage yield on the average daily balance that exceeds \$30 million

^{** -} Per trust agreements, interest earned on retention account is allocated to trust beneficiary (contractor)



Agenda Item No. 5

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Fiscal Year (FY) 2022-2023 and FY 2023-2024 California Senate Bill (SB) 1 State of Good Repair Funding

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors approve Resolution No. 23-10 (in substantially the same format as Attachment A) in order to:

- 1) Authorize the use of, and application for, \$5,272,017 in FY 2023-24 State of Good Repair (SGR) funding to be used for the SD100 Light Rail Vehicle (LRV) Replacement Project;
- Approve the acceptance of additional FY 2023-24 SB1-SGR funding if made available to MTS: and
- 3) Approve the reprogramming of FY 2022-23 SB1 SGR funding in the amount of \$5,095,907 to the FY24 Bus Procurement Project as approved in the FY 2024 Capital Improvement Program (CIP).

Budget Impact

The State Controller's Office estimates that MTS will receive \$5,272,017 in FY2023-24 SB1-SGR funding. There are no matching requirements.

DISCUSSION:

The Road Repair and Accountability Act of 2017, Senate Bill (SB) 1 (Chapter 5, Statues of 2017), signed by the Governor on April 28, 2017, includes a program that will provide additional revenues for transit infrastructure repair and service improvements. This investment in public transit is referred to as the SGR Program. This program provides funding of approximately \$105 million annually to the State Transit Assistance (STA) Account. These funds are to be made available for eligible transit maintenance, rehabilitation, and capital projects.

The SGR Program is funded from a portion of a Transportation Improvement Fee on vehicle registrations due on or after January 1, 2018. A portion of this fee is transferred to the State



Controller's Office (SCO) for the SGR Program. These funds are allocated under the STA Program formula to eligible agencies pursuant to Public Utilities Code (PUC) section 99312.1. Half is allocated based on population and half according to transit operator revenues.

The SGR funding program requires agencies to agree to comply with all conditions and requirements set forth in the SGR Program Recipient Certifications and Assurances. The SGR program also requires that the agencies' governing body authorize the Chief Executive Officer or designated representative to execute all required documents of the SGR program.

MTS staff has identified the SD100 LRV Replacement Project as a project meeting the SGR funding requirements. The project will replace 47 LRVs between 2021 and 2027. The Board approved a contract with Siemens Mobility, Inc. on June 13, 2019 (Agenda Item 34) for the purchase of these vehicles. The total budget for this procurement is currently estimated at \$216.4 million. MTS has identified a combination of Federal 5307, Federal 5337, Federal RSTP, and local funding to fund this project.

The FY 2024 CIP approved by the Board on April 20, 2023 (Agenda Item 12), included \$174,606,000 in funding through FY 2024, and identified sufficient funding to complete the project for inclusion in the FY 2023 through FY 2025 CIPs. The FY 2023-2024 SGR funding identified in Resolution No. 23-10 will be included in the FY 2025 CIP funding allocation presented to the Board in or around April 2024.

The FY 2022-23 SB1 SGR funding was initially programmed to fund the SD100 LRV Replacement Project. However, during the FY 2024 CIP process, the funding was recommended to be reprogrammed for the FY2024 Bus Procurement Project. Today's action would also approve the reprogramming of FY 2022-23 SB1 SGR funding in the amount of \$5,095,907 from the SD100 LRV Replacement project to the FY 2024 Bus Procurement Project as approved in the FY 2024 CIP.

Therefore, staff recommends that the MTS Board of Directors approve Resolution No. 23-10 in order to:

- 1) Authorize the use of, and application for, \$5,272,017 in FY 2023-24 State of Good Repair funding to be used for the SD100 Light Rail Vehicle (LRV) Replacement Project;
- Approve the acceptance of additional FY 2023-24 SB1-SGR funding if made available to MTS; and
- 3) Approve the reprogramming of FY 2022-23 SB1 SGR funding in the amount of \$5,095,907 to the FY24 Bus Procurement Project as approved in the FY 2024 Capital Improvement Program (CIP).

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachment: A. Resolution No. 23-10

SAN DIEGO METROPOLITAN TRANSIT SYSTEM

RESOLUTION NO. 23-10

Resolution Approving the Fiscal Year (FY) 2022-2023 and FY 2023-2024 SB1 State of Good Repair Claim

WHEREAS the San Diego Metropolitan Transit System (MTS) is an eligible project sponsor and may receive State Transit Assistance (STA) funding from the State of Good Repair Account (SGR) for transit projects; and

WHEREAS, the statutes related to state-funded transit projects require a local or regional implementing agency to abide by various regulations; and

WHEREAS, Senate Bill 1 (2017) named the Department of Transportation (Caltrans) as the administrative agency for the SB1-SGR program; and

WHEREAS, the Department has developed guidelines for the purpose of administering and distributing SGR funds to eligible project sponsors (local agencies); and

WHEREAS, MTS wishes to delegate authorization to execute these documents and any amendments there to the Chief Executive Officer; and

WHEREAS, in order to qualify for the SB1-SGR funding allocation, MTS is required to submit a proposed project list to Caltrans on an annual basis and for FY 2023-2024, MTS propose to fund the ongoing SD100 Light Rail Vehicle (LRV) Replacement Project; and

WHEREAS, MTS wishes to authorize the use of, and application for, \$5,272,017 in FY 2023-2024 SB1-SGR funding to be used for the SD100 LRV Replacement Project; and

WHEREAS, MTS wishes to change the originally proposed project, SD100 LRV Replacement Project, for the use of, and application for, \$5,095.907 in FY 2022-2023 SB1-SGR funding to be used for the FY24 Bus Procurement Project; and

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED that the MTS Board does hereby direct and empower MTS staff to prepare and transmit allocation instructions to the County Auditor to disburse to MTS the FY 2023-2024 SGR amounts totaling \$5,272,017 for the SD100 LRV Replacement Project, and authorize the move of FY 2022-2023 SGR amounts totaling \$5,095.907 to the FY24 Bus Procurement Project

followin	PASSED AND ADOPTED, by the Board of Direct g vote:	tors this <u>14th</u> day of <u>September</u> 2023, by the
	AYES:	
	NAYS:	
	ABSENT:	
	ABSTAINING:	
	Chairperson San Diego Metropolitan Transit System	
	Filed by:	Approved as to form:
	Clerk of the Board	General Counsel
	San Diego Metropolitan Transit System	San Diego Metropolitan Transit System

Resolution No.23-10



Agenda Item No. 6

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Board Policy No. 44, "MTS Travel Expense Policy" and Repeal of MTS Board Policy No. 29, "Attendance at Transit-Related Conferences" – Policy Revision

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors:

- 1) Approve the proposed revisions to MTS Board Policy No. 44, "MTS Travel Expense Policy" (Attachment A, B);
- 2) Authorize the Chief Executive Officer (CEO) to modify MTS Board Policy No. 44, "MTS Travel Expense Policy" Attachment A, B, C, D, E and F as necessary to reflect changes in annual IRS mileage reimbursement rates and IRS determinations of High Cost Localities, and to make minor changes to document design or formatting; and
- 3) Repeal MTS Board Policy No. 29, "Attendance at Transit-Related Conferences" (Attachment C);

Budget Impact

None.

DISCUSSION:

Attendance at relevant industry and professional conferences is an important facet of employee and Board member understanding of transit issues, emerging trends, and the ongoing professional development of staff. MTS currently has two (2) Board Policies that provide the guidelines for travel by employees and Board members:

- MTS Board Policy No. 29, "Attendance at Transit-Related Conferences" (governing employee and Board member attendance at transit-related conferences)
- MTS Board Policy No. 44, "MTS Travel Expense Policy" (governing travel expense reimbursement limits and procedures)



To better organize and ensure consistency, it is recommended that we combine these two (2) Board Policies into one (1) Board Policy. In order to merge these documents, staff recommends the repeal of MTS Board Policy No. 29 "Attendance at Transit-Related Conferences" and to merge its language accordingly into MTS Board Policy No. 44 "MTS Travel Expense Policy", now to be referred to as, MTS Board Policy No. 44 "Travel". The redline version of Policy No. 44 in Attachment A shows the language being added from Policy No. 29, plus some additional revisions since the policy was last revised in 2017.

Staff completed a substantive review of the language in both policies. The proposed revisions include minor, non-substantive changes, as well as the changes described below. Most of the changes simply document the process that has been followed for travel approvals and reimbursements.

Proposed Policy Updates from 2017 Version

Updated Hotel and Meal Reimbursement Limits

The revisions include an update to the hotel and meal maximum reimbursement rates for employee travel, based on an internal survey of submitted travel expense reports as well as current market rates and costs of hotel and meals. Hotel rates are increasing as follows:

- From \$220 per night for large U.S. Cities / International to \$275 per night for High Cost Localities as identified in IRS Notice 2022-44, and
- From \$170 per night for Small / Medium U.S. Cities to \$200 per night for Medium / Low Cost Localities (localities not identified in IRS Notice 2022-44).

The policy revisions also clarify the reasons the CEO may authorize a waiver of the maximum limits, which include if (1) the conference hotel is fully booked and the traveler stays at a nearby hotel with a rate reasonably comparable to the conference hotel rate; or (2) a safe and convenient hotel within the maximum rates is not identified within reasonable proximity to the meeting or event necessitating the business travel.

Meal caps and total daily caps have also been modified:

• The daily cap on meal reimbursements are increasing from \$65 for Small / Medium U.S. Cities and \$80 for Large U.S. Cities / International to \$90 for all Localities.

Rental Car Reservations

Due to the varying charges and promotions for rental cars, which do not always follow the type of vehicle rented, the rental car provisions in Section 44.11(g) have been updated to permit a "reasonably priced standard-size sedan, unless the nature of the travel or the number of employees traveling warrants a larger vehicle." This language replaces the previous mandate that MTS would "only reimburse the least expensive compact -size vehicle."

Therefore, staff recommends that the San Diego Metropolitan Transit System (MTS) Board of Directors: 1) Approve the proposed revisions to MTS Board Policy No. 44, "MTS Travel Expense Policy" (Attachment A, B); 2) Authorize the Chief Executive Officer (CEO) to modify

Agenda Item No. 6 September 14, 2023 Page 3 of 3

MTS Board Policy No. 44, "MTS Travel Expense Policy" Attachment A, B, C, D, E and F as necessary to reflect changes in annual IRS mileage reimbursement rates and IRS determinations of High Cost Localities, and to make minor changes to document design or formatting; and 3) Repeal MTS Board Policy No. 29, "Attendance at Transit-Related Conferences" (Attachment C);

/s/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachment: A. Proposed Revisions to MTS Board Policy No. 44 (red-lined version)

B. Proposed Revisions to MTS Board Policy No. 44 (clean version)C. Repealed MTS Board Policy No. 29 (watermarked to show repeal)

Policies and Procedures No. <u>44</u>

Board Approval: 1/19/17 9/14/23

SUBJECT:

MTS TRAVEL EXPENSE POLICY

PURPOSE:

To establish guidelines for <u>San Diego Metropolitan Transit System (MTS)</u> employees and <u>MTS</u> Board <u>of Director (Board)</u> members who have been approved to travel travelling on behalf of MTS. <u>Attendance at relevant industry and professional conferences is an important facet of employee and Board member understanding of transit issues, emerging trends, and the ongoing professional development of staff.</u>

POLICY:

- 44.1 <u>Agencies Applicability</u>. This policy applies to all MTS agencies including MTS, San Diego Transit Corporation, San Diego Trolley, Inc., and San Diego Vintage Trolley, Inc. and Arizona Eastern Railway Co.
- 44.2 <u>Travel Authorization</u>. Persons 44.2 <u>Board Member Attendance</u>. MTS and its <u>customers benefit from Board member engagement in state and national transit-related association activities such as those organized by the California Transit Association (CTA) and the American Public Transit Association (APTA). Each Board member is encouraged to attend one transit-related conference annually. The Chief Executive Officer (CEO) will survey the Board members annually to ascertain their interest in attending conferences. Budget, Brown Act, and other considerations may limit the number of Board members who may attend any given conference or meeting.</u>
- 44.3 Travel by Board Member Alternate. Board alternates may attend one of the transit-related conferences, conditioned on the following:
 - a. They are attending in the place of the regular member.
 - b. They attended 50 percent or more of the Board meetings in the past
 12 months, or since appointment, whichever time is shortest.
- 44.4 Employee Attendance. Employees are encouraged to attend transit conferences, seminars, and training classes pertaining to their respective disciplines.



- 44.5 Other Meetings. Consistent with 44.2 through 44.4, full reimbursement will be provided to any Board member or employee who is active on a CTA or APTA committee for travel and expenses related to a committee meeting. Other transit-related conferences or meetings may also merit attendance. Examples include meetings of the California Transportation Commission and legislative hearings. In such cases, the Chairperson (in the case of Board members) or the CEO (in the case of employees) will determine whether attendance is desirable, consider the remaining available travel budget, and decide who should attend.
- 44.6 Board Member Travel Arrangements. Board members will be notified in advance of conference details and basic travel arrangements such as arrival and departure dates and times, cost of the trip, date that members need to notify MTS of their interest in attending, and any potential cost impacts for changes made after that date. Board members desiring different travel arrangements will be financially responsible for any costs over and above those determined for the basic trip. Board members shall be notified in sufficient time to make changes with advance reservation discounts.
- 44.7 Travel Authorization. Employees traveling for work relating to or for the benefit of MTS must request advance approval through a "Travel Authorization Form" (Attachment A). —The form must be completed and approved based on whenas soon as the need for travel is known, and if possible, at least two weeks prior to the trip. The requests canshall be approved as follows: department managers or directors can approve requests up to \$500, the, Chief Operating Officer(s) (COO), Chief Financial Officer, (CFO), and/or General Counsel can approve up to \$1,500, and all amounts in excess of \$1,500. All requests must be approved by the Chief Executive Officer. The Chief Executive Officer must also approve all travel authorizations for his/her direct reports CEO regardless of amount. The top-level approver will route the After CEO approval, the request form will be routed back to the Finance Department. Finance will send a copy of the "Travel Authorization Form" to the traveler and keep the original as backup for a pending "Travel Expense Report."

This authorization form is a required step for reimbursement of travel expenses but will not by itself serve as the basis for reimbursement of travel costs, as reimbursement requests shall be made on a "Travel Expense Report" (described in Section 44.8 and shown in Attachment C). All Board member and employee travel shall be consistent with Policy No. 29, "Attendance at Transit-Related Conferences.". Travel reservations will be made by the individual traveler, the Clerk of the Board for Board of Director travel, or individuals as designated by the Chief Operating OfficersCOO or Chief Executive OfficerCEO.

44.38 Expense Report. The "Travel Expense Report" portion of the form will be used to record actual trip expenses, and mustshould be completed within one weektwo weeks from the return date. The For employees, a department manager or director must indicate approval of the submitted expenses (Chief Executive OfficerCEO approval for direct report travel; Chief Executive OfficerCEO, General Counsel, or Chief Financial OfficerCFO approval for Board of Director member travel; and General Counsel approval of Chief Executive OfficerCEO travel). The form is routed to the Finance Department for processing, with a personal check attached for any funds due to MTS (if MTS direct expenses or travel advances exceed the total amount due). Failure to

submit expense reports within this timeframe may result in not being reimbursed or collection actions taken if money is owed to MTS. Extensions may be granted by the Chief Executive Officer. CEO. For Board members, MTS will work with the Board member or their staff to assist them in preparing and approving this report.

All expenses should be itemized, including items MTS may have paid for in advance (e.g., airfare, conference registration) so that the report provides a complete record of all expenses. It is the traveler's responsibility to submit a completed report in order to receive prompt reimbursement.

- 44.49 Receipts. Itemized receipts for expenditures must be attached to the "Travel Expense Report" for all expenses where a receipt is practically attainable (mandatory, unless a written satisfactory explanation is provided for expenses in excess of \$10). Such written explanations may be subjected to approval by the Chief Executive Officer.CEO. Hotel charges must be evidenced by an itemized hotel bill, as a credit card receipt is not sufficient.
- 44.510 Travel Advances. Travel advances are provided on a case-by-case basis as determined by need and approved by the Chief Financial OfficerCFO and/or Chief Executive OfficerCEO. A travel advance is a loan that provides cash resources to assist the employee while traveling and is not a payment by MTS for travel expenses. Persons requesting that MTS provide advance proceeds must request approval using the "Travel Advance Request" (Attachment B). This form must be completed and approved at least two weeks prior to the trip taking place, and these advances will typically be distributed one week prior to the departure date. Any travel advance shall not exceed the total estimated amount of the trip less any items paid by MTS.

Travel costs incurred prior to departure may be reimbursed when paid. An example is a traveler paying for conference registration or booking and paying for air travel personally several weeks in advance. Reimbursements for these costs are not considered an advance. These items should be included on a "Request for Payment/Payment Voucher" or "Travel Expense Report" and only after the "Travel Authorization Request" has been approved.

- 44.6 <u>I1 Reasonable Travel Expenses.</u> MTS does not reimburse employees based on per diem but rather reimburses employees for reasonable costs necessarily incurred for work travel in accordance with the terms of this policy and does not provide a per diem allowance. Employees must provide litemized receipts for all meals, hotel, airfare, registration, etc must be provided. The following expenditure guidelines and the Annual Travel Cost Rates set by MTS (rates for the current calendar year are attached as Attachment E) should be observed as upper limits unless particular circumstances reasonably dictate otherwise:
 - a. <u>Upper Limits</u>. Upper limits for meals, hotels, and similar costs will be updated, approved by the <u>Chief Executive OfficerCEO</u>, and published annually. See Attachment E for the current calendar year rates.
 - <u>Air Travel</u>. Air travel <u>is toshould</u> be coach class for the most direct route.
 Traveler arrangements should be made as far as possible in advance in order to secure the most favorable rates. MTS will cover the cost if it is

more cost effective (i.e., difference in airfare as compared to the additional cost for hotel and meals) to include a Saturday stay. Travelers should consider this option when practical. Refundable airfares may be purchased if warranted.

- c. <u>Personal Auto Use</u>. In the event that a private auto is used for the trip, mileage will be paid in accordance with the current IRS Mileage Reimbursement Rates. Maximum reimbursement shall not exceed the cost of a comparable coach airfare to the same location.
- d. <u>Ground Transportation</u>. In using surface transportation, the most practical, least expensive alternative <u>mustshould</u> be utilized. Such transportation includes travel to and from the airport and reasonable business-related trips at the location. <u>Employees and Board members Travelers</u> are encouraged to utilize public transportation where available.
 - e. Parking. MTS will reimburse the lesser of the parking cost for a personal auto left at the airport or the cost of a shuttle service, taxi, or cabride share service to and from the airport. If a specific option is not feasible given the time of travel or other personal circumstances, a waiver should be requested.
- f. Personal Travel. A traveler may wish to combine MTS-related travel with personal travel or include family members in the trip. If personal travel is included within the trip, prior authorization and approval of this requestit must be notated on the "Travel Authorization Form," and." For trips that include personal travel, MTS will reimburse the cost equivalent to a single-person trip. Under no circumstances-roundtrip for the most direct route between San Diego and the business travel location. MTS will MTSnot advance any payments to cover such-personal travel.
- g. Rental Car. The use of rental cars must be preapproved as part of the "Travel Authorization Form"—." In the event a rental car is required, MTS will only reimburse the least expensive compactrental car charges for up to a reasonably priced standard-size sedan, unless the nature of the travel or the number of employees traveling warrants a larger vehicle. The traveler will be responsible for the cost difference, if any, for any vehicle upgrades over a standard-size sedan. MTS will not reimburse for rental car insurance coverage due to the fact that since employees are included under MTS's general automobile insurance coverage.
- h. Meals (While in Travel Status). Meals, including tip, shall generally average no more than the maximum rate approved and published annually. Alcohol consumed with a meal is not reimbursable, including applicable taxes and tips related to the alcohol cost. The amount per day applies to each 24-hour day of travel, and partial days would be prorated accordingly. Exceptions to the maximum rates must be approved by the Chief Executive OfficerCEO or General Counsel.
- i. <u>Business Meal</u>. Reasonable business (involving outside persons or when necessary to conduct MTS-related business) meals are permitted. All

- such meals must be itemized, including the names of all attendees, with justification.
- j. Hotel. Travelers will be reimbursed for the cost of a moderate and reasonably priced single-occupancy hotel room. The maximum reimbursement is limited to the rate approved and published annually. Hotel stays in high-cost cities shall be approved by the Chief Executive Officer. These maximum limits may be waived if the traveler is staying at a hotel where a conference is being held and approved by the Chief Executive Officer. Baggage-handling service fees are reimbursable at standard rates. in this Policy (Attachment E). IRS Notice 2022-44 (Attachment F) provides high-cost localities and timeframes in which maximum limits are eligible for reimbursement. However, travelers are not required to stay in unsafe locations or locations that would result in long commutes to their meetings simply to meet those limits. These maximum limits do not apply if the traveler is staying at a hotel where a conference is being held. The CEO may authorize a waiver of the maximum limits in the event (1) the conference hotel is fully booked and the traveler stays at a nearby hotel with a rate reasonably comparable to the conference hotel rate; or (2) a safe and convenient hotel within the maximum rates is not identified within reasonable proximity to the meeting or event necessitating the business travel.
- k. <u>Other Business-Related Expenses</u>. Other business-related expenses while traveling such as supplies, equipment rental, reprographics, facsimiles, internet access, and other documented business-related expenses may be reimbursed when traveling on MTS business and used for MTS purposes.
- I. <u>Travel Outside of the U.S.</u> Reimbursement for travel to a foreign eountryoutside the U.S. will be calculated at the average exchange rate during the trip. All reimbursement for any Value Added Taxes charged for hotel accommodations must be returned to MTS.___
- m. <u>Telephone Calls (While in Travel Status)</u>. Reimbursements for telephone calls are permitted provided that such calls are directly related to MTS business. Travelers are required to provide an itemized list of all calls detailing the person(s) called and the reason for the call(s) for which reimbursement is requested. Personal calls are permitted up to a maximum of \$10 per day.
- <u>nm</u>. <u>Registration</u>. Travelers requesting to attend a conference or training that requires registration should do so in sufficient time to take advantage of any discounts.
- e. <u>Conferences.n.</u> Additional Conference Events or Costs.

 Conference luncheons, special banquets, or other set-price official affairs that exceed the actual cost listed under meals may be reimbursed if they are necessary to the attendance of the conference and must be authorized in advance with the submission of the "Travel Authorization Form".

- o. <u>Cancellation Penalties</u>. In the event that registration, airfare, hotel deposit, or any other such items that require prepayment are paid and the traveler is unable to attend and the prepayment is nonrefundable, then the traveler may be responsible for reimbursing MTS for the full cost unless the inability to attend is for valid business reasons, medical conditions, or personal emergencies, as approved by the <u>Chief Executive OfficerCEO</u> for employees or by the Executive Committee for Board members.
- p. <u>Non-allowable Expenses</u>. MTS will not provide any reimbursement for personal entertainment expenses, alcoholic beverages, movies in hotels, personal items, charitable contributions, air travel insurance, any travel expenses for family members (including but not limited to transportation, hotels, and meals), or any other expenses not deemed necessary for business purposes.
- q. <u>Political Events</u>. MTS will not provide reimbursement for expenses incurred for the purpose of attending political events. An event shall be considered "political" if it is held for the purpose of supporting, opposing, or raising money to support or oppose any candidate, ballot measure, or political party.
- r. <u>Non-Discrimination</u>. MTS will not provide any reimbursement for expenses incurred with any private club <u>or establishment</u> that discriminates on the basis of race, <u>color</u>, <u>national origin</u>, <u>disability</u>, gender, religion, sexual orientation, or other <u>invidious criterialegally protected</u> <u>characteristic or class</u> in its membership policy.

Exceptions to these guidelines must be approved by the Chief Executive

Officer CEO for employees and by the Executive Committee for Board members.

- 44.712 Within-Area Expenses. The form entitled "Expense Report (within area expenses)" (see Attachment D) must be used to record any potential eligible expenses. This report applies to expenses incurred within the San Diego County area only.
 - a. <u>Submittal of Form</u>. Employees must submit this form together with receipts after applicable expenses are incurred. This report applies to expenses incurred within the San Diego County area only.
 - b. <u>Eligible Expenses</u>. Eligible expenses must be related to and necessary for carrying out MTS business. They may include, but not be limited to, business meals or meetings, mileage, parking, or other miscellaneous out-of-pocket expenses related to MTS business. The <u>Chief Executive OfficerCEO</u> or <u>Chief Financial OfficerCFO</u> may, in their judgment, disallow any extraordinary or inappropriate expenses. Whenever possible, local travel should be by public transportation. If it is impractical to use public transit, an MTS vehicle or private auto should be used.
 - c. <u>Description and Purpose</u>. The report should include the date, description / purpose (including destination), and the applicable department / account code (if operations) or the applicable project / task detail (if capital).

d. <u>Approvals</u>. All necessary approvals must be obtained in advance and the completed form must be submitted to the Finance Department within one week after expenses are incurred.

44.8

44.13 Non-Exempt Employee Travel Time Compensation Guidelines

- a. <u>Travel Time.</u> MTS pays non-exempt employees for travel time in accordance with the Fair Labor Standards Act (FLSA).
- <u>b. a.</u> Home to Work Travel. In general, the time an employee spends commuting from home to work and from work to home is not work time and is not compensable.
- <u>Single-Day Travel.</u> Time spent by a non-exempt employee in travel as part of his or her normal work activities (travel is performed for the benefit of MTS and at its request), such as travel to a seminar during regular working hours, is considered hours worked. If the employee is required to travel to another city and return home in the same day, the travel time to and from the other city is considered hours worked regardless whether the travel occurs within the employee's normal work schedule or by common carrier. However, meal periods and the travel time between the employee's home and the point of public transportation (i.e. airport, train station) are not considered hours worked.
- e-Overnight Travel. Travel by a non-exempt employee who (at the request and for the benefit of MTS) will be away from home overnight is work time only during those periods that coincide with the employee's regular working hours (i.e. Monday through Friday 9 a.m. to 5 p.m.). Such time is counted as hours worked even if it occurs on a non-working day (i.e. Saturday or Sunday between 9 a.m. and 5 p.m.). Travel outside regular working hours as a passenger in a plane, train, boat, bus or automobile is not considered hours worked. Driving a vehicle, regardless of whether the travel takes place within or outside normal work hours, counts as hours worked if it is for the benefit of MTS. (If an employee drives a car as a matter of personal preference in lieu of a different authorized mode of travel, only the estimated travel time associated with the authorized mode will be counted as hours worked.) To the extent that an employee performs work while traveling (i.e. preparing for a meeting, reviewing documents, making telephone calls), this time constitutes hours worked even if the travel time would otherwise not be compensable. Regular meal periods and time spent at a hotel with freedom to use time for the employee's own purposes is not compensable. The employee will not be compensated for time not working even if it occurs within the employee's regular work schedule (Hi.e. employee goes sightseeing).
- e. Non-exempt employees shall record and report all hours worked in accordance with the above guidelines. Overtime will be paid to the extent that hours worked, including travel hours specified above, exceed 40 hours in a workweek. If you have any questions, please contact Human Resources.

POLICY.44.TRAVEL EXPENSE POLICY

Attachments: A. Travel Authorization Form

B. Travel Advance RequestC. Travel Expense Report

D. Expense Report (within-area expenses)

E. Annual Travel Cost Rates

F. IRS Notice 2022-44

Original Policy approved on 8/12/93.

Policy amended on 10/27/94.

Policy revised on 4/29/04.

Policy revised on 1/26/06.

Policy revised on 7/19/07.

Policy revised on 6/24/10.

Attachments updated by Staff 1/16/13.

Policy and attachments revised on 9/12/13.

Attachments updated by Staff 7/24/14.

Attachments updated by Staff 5/18/15.

Attachments updated by Staff 2/2/16.

Policy and attachments revised on 1/19/17.

Attachments updated by Staff 6/21/17.

Attachment A

Metropolitan Transit System

TRAVEL AUTHORIZATION

FORM

□ MTS□ SDTC□ SDTI

(complete this form first, before any travel expenses are incurred)

PART I - EMPLOYEE INFORMATION		
Report Date: 6/21/201	7 Costs to be charged to:	
Employee Name:	Department/Acct Code:	
Title:	OPERATIONS ONLY	
Department Name:	Project/Task Detail: CIP ONLY	
Travel Dates:	Location:	
Meeting Name/Purpose:		
PART II - TOTAL ESTIMATED EXPENSES		
Transportation Air Train Car Mileage rate = 53.5¢ / mile Rental car insurance is not reimbursable		
Total Transportation		\$ -
Shuttles / Taxi / Parking		
Lodging Days Rate		
Total Lodging		\$ -
Meals Days Rate		
Total Meals		\$ -
Other Costs Registration Other Other		
Total Other		\$ -
	Grand Total Estimated Expenses	\$ -
	Less: Amount To Be Paid Directly By MTS	\$ -
	Maximum Amount To Be Paid By Traveler	\$ -
PART III - SIGNATURES and APPROVALS	Signature	Date
Traveler:		
Department Manager / Director:		
COO / CFO / General Counsel:		
Budget Manager:		
CFO / General Counsel:		
Chief Executive Officer:		A-9

Attachment B

(Revised 2.2.2016) TRAVEL ADVANCE MTS **REQUEST** □ SDTC (complete this form, if needed, to request cash SDTI opolitan Transit System for travel) **PART I - EMPLOYEE INFORMATION** Report Date: 2/2/2016 Employee Name: Department Name: Travel Dates: ____ Meeting Name/Purpose: **PART II - TOTAL ESTIMATED EXPENSES** Grand Total Estimated Expenses (from travel authorization form) \$ Less: Amount To Be Paid Directly By MTS (from travel authorization form) \$ Maximum Amount To Be Paid By Traveler (from travel authorization form) **Total Advance Requested PART III - SIGNATURES and APPROVALS** Signature Date Traveler: Department Manager / Director: _____ COO: CFO / General Counsel:

Chief Executive Officer:

Attachment C



Department Director (Up to \$5000):

Chief Financial Officer:

TRAVEL EXPENSE

		175	itan Transi	it System		(comple	ere this t	REPO form no la	ter than	1 week	after		MTS SDTC SDTI	:
PART I - E	EMPLOYEE INFORMATION													
Report Da	ite:	1/4/2017	•		Cos	sts to b	e char	ged to:						
Employee	Name:				_	partmer								
Title:					0	PERATI	ONS C	ONLY						
Departme	nt Name:				F	roject/T	ask De	etail:						
						CIP	ONLY							
Meeting N	lame/Purpose:													
PART II -	TOTAL EXPENSES													
		DAY 1	I D	AY 2	l D	AY3	Гр	AY 4	I D	AY 5	D	AY 6	Т	otal
Travel Dat	tes	2711			_		<u> </u>		<u> </u>					
Location (City, State)													
Transport													\$	-
Shuttles/T	axis												\$	-
Parking													s	-
Lodging													s	-
Lodging Meals	Breakfast (\$20 daily limit)*	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
(Use Detail	Lunch (\$25 daily limit)*	s -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Tabs)	Dinner (\$50 daily limit)*	s -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Other:	Registration												s	-
Other:													\$	-
Other:													\$	-
Other:													\$	-
Total		s -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	expense report must be fill after completing trip.	ed within					Total	Expens	es				\$	_
2 44		*****					Loss	MTS Pa	id Itaa					
	receipts for all purchases of Il items over \$10 not having						Less	MISE	na nen	15 (please	enter a +	number)		
							Subto	otal					\$	-
	e related trip items paid sep n an asterisk.	arately by I	WIS;				Less	Cash A	dvance	d (please	enter a +	number)		
	an overall daily cap of \$65 s and \$80 for Large U.S. Ci						Amou	ınt Due					\$	-
**Rental o	car insurance is not reimbu	ırsable.												
PART III -	SIGNATURES and APPRO	VALS												
I certify	that the above report is true	and correct	. 0	EO app	roval	of excep	otion(s)	from th	e Trav	el Policy	y:			
			Prints	d Name					Sico	natura				ate
Traveler:			rinte	u manie					Sig	nature				ate
	Supervisor (Up to \$3000):												_	

Attachment D



3. Briefly describe the item or the destination and the purpose.

EXPENSE REPORT (within-area expenses)

MTS
SDTC
SDTI

-		all lilling	318 P. J. K. 100 - PR. 1. P.								
						Finance	Use O	nly:			
						PEID				=	
ART I - EM	PLOYEE INFORMAT	ION									
Employee N	Name:			ı	Period:			to		_	
Emplovee S	Signature:										
	hat the expenses re										
ADT II - EW	PENSES AND MILEA	AGE DETAIL									
Date	OPERATIONS ONLY Dept./Acct Code	CIP ONLY Project/Task Detail	Description / Purpose		ephone 55100	Е	eting xp. 5230	(53.5	eage ¢/mile) 5230	C	Other
				\$	-	\$	-	\$	-	\$	-
				\$	-	\$	-	\$	-	\$	-
				\$	-	\$	-	\$	-	\$	-
				\$	-	\$	-	\$	-	\$	-
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				\$	-	\$	-	\$		\$	
			TOTALS	\$		\$	-	\$		\$	-
							G	RAND T	OTAL	\$	-
ART III - A	PPROVALS										
epartment l	Director (Up to \$500):										
chief Financi	ial Officer (Up to \$1500):										
Chief Execut	ive Officer (CEO):										
vnonco E	Conort Instructions										
	Report Instructions Employees must		hen requesting reimbursement.	This r	eport a	oplies t	o expe	nses			
		San Diego metrop									
2.	but are not limited expenses related	to, business meals to MTS business. T	and necessary for carrying out l s, or meetings, parking, or other The CFO or CEO may, in their ju ceipts for all out-of-pocket exper	misco udgme	ellaneo ent, disa	us out-	of-pock	et	ту		

Polic [*]	y and	attachments	revised	on	XX/	XX	<u>/X)</u>	<u> </u>	<u>(χ</u>

Attachment A

(Revised 6.14.23)

Chief Executive Officer:

TRAVEL AUTHORIZATION FORM

MTS SDTC

	Metropolit	(complete this form first, before any travel expenses are incurred)		DTI
PART I - EMPLOYE				
Report Date:	6/14/2023	Costs to be charged to:		
Employee Name:		Department/Acct Code:		
Title:		OPERATIONS ONLY		
Department Name:		Project/Task Detail: CIP ONLY		
Travel Dates:		Logation		
Meeting Name/Purpo	ose:			
PART II - TOTAL ES	STIMATED EXPENSES			
Transportation				
Air				
Train Car				
	ate = \$.655 / mile r insurance is not reimbursable			
	Thousand to not remoundable			
Total Transportation			\$	-
Shuttles / Taxi / Park	king			
Lodging				
Days Rate				
			Φ.	
Total Lodging			\$	-
Meals				
Days Rate				
Total Meals			\$	-
Other Costs				
Registrati	on			
Other Other				
Total Other			\$	
Total Other			Φ	-
		Grand Total Estimated Expenses	\$	-
		Less: Amount To Be Paid Directly By MTS	\$	-
		Maximum Amount To Be Paid By Traveler	\$	-
PART III - SIGNATU	JRES and APPROVALS	Signature	Date	
Traveler:				
Department Manag	ger / Director:			
COO / CFO / Gen	eral Counsel:			
Budget Manager:				
CFO / General Co	unsel:		A	-14

Attachment B

(Revised 06.14.2023) TRAVEL ADVANCE ☐ MTS **REQUEST** □ SDTC (complete this form, if needed, to request cash SDTI opolitan Transit System for travel) **PART I - EMPLOYEE INFORMATION** Report Date: 6/14/2023 Employee Name: Department Name: Travel Dates: Meeting Name/Purpose: **PART II - TOTAL ESTIMATED EXPENSES** Grand Total Estimated Expenses (from travel authorization form) \$ Less: Amount To Be Paid Directly By MTS (from travel authorization form) Maximum Amount To Be Paid By Traveler (from travel authorization form) **Total Advance Requested PART III - SIGNATURES and APPROVALS** Signature Date Traveler: Department Manager / Director: _____ COO: CFO / General Counsel: Chief Executive Officer:

Attachment C



6/14/2023

TRAVEL EXPENSE REPORT

(complete this form no later than 1 week after return from travel)

Costs to be charged to:

Department/Acct Code:
OPERATIONS ONLY

Project/Task Detail: CIP ONLY

A, AI C	0, 09/14/23	
er	☐ MTS ☐ SDTC ☐ SDTI	
		-

PART II - TOTAL EXPENSES

Meeting Name/Purpose:

PART I - EMPLOYEE INFORMATION

Report Date:

Title:

Employee Name:

Department Name:

		DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	Total
Travel Dat	es							
Location ((City, State)							
Transporta	ation**							\$ -
Shuttles/7	Гахіѕ							\$ -
Parking								\$ -
Lodging								\$ -
Meals	Breakfast (\$30 daily limit)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Use Detail	Lunch (\$30 daily limit)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tabs)	Dinner (\$50 daily limit)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other:	Registration							\$ -
Other:								\$ -
Other:								\$ -
Other:								\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

1. Travel expense report must be filled within two weeks after completing trip.	Total Expenses	\$ -
2. Attach receipts for all purchases over \$10.	Less MTS Paid Items (please enter a +number)	
Explain all items over \$10 not having receipts.	Subtotal	\$ -
3. Include related trip items paid separately by MTS; mark with an asterisk.	Less Cash Advanced (please enter a +number)	
*There is an overall daily cap of \$90.00	Amount Due	\$ -

PART III - SIGNATURES and APPROV		ception(s) from the Travel Policy:	
	Printed Name	Signature	Date
Traveler:			
Manager/Supervisor (Up to \$3000):			
Department Director (Up to \$5000):			
Chief Financial Officer:			A-16

^{**}Rental car insurance is not reimbursable.

Attachment D



	MTS
	SDTC
П	SDTI

	7	Metrop	politan Transit System			ea e		nses)		_	SDTC SDTI
						Finance	Use O	nly:			
						PEID				_	
PART I - EN	MPLOYEE INFORMAT	ION									
Employee	Name:				Period:			to			
Employee	Signature:										
☐ I certify	that the expenses re	eported are true and	correct.								
PART II - E	XPENSES AND MILE	AGE DETAIL									
Date	OPERATIONS ONLY Dept./Acct Code	CIP ONLY Project/Task Detail	Description / Purpose		lephone 55100	E	eting xp. 5230	(\$.65	leage 55/mile) 5230	0	ther
				\$	-	\$	-	\$		\$	
					_	\$	_	\$	_	\$	_
				<u> </u>	_	\$	_	\$	_	\$	_
				<u> </u>	_	\$		\$	_	\$	_
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				\$	-	\$	-	\$	-	\$	-
				\$	-	\$	-	\$	-	\$	-
				\$	-		-	\$	-		-
			тот	ALS \$	-	\$	-	\$	-	\$	-
								GRAND	TOTAL	\$	-
PART III - A	APPROVALS										
Department	Director (Up to \$500):										
Chief Financ	cial Officer (Up to \$1500)	:									
Chief Execu	utive Officer (CEO):										
Expense	Report Instruction	s									
1.		submit this form wh e San Diego metrop	nen requesting reimbursen olitan area only.	nent. This	report a	ipplies t	o expe	nses			
2.	but are not limited	I to, business meals	and necessary for carrying s, or meetings, parking, or the CFO or CEO may, in t	other miso	cellaned	us out-	of-pock	ket	1		

- or inappropriate expenses. Attach receipts for all out-of-pocket expenses.
- 3. Briefly describe the item or the destination and the purpose.

Attachment E

Annual Travel Cost Rates Calendar Year 2017

Hotel Maximum (quoted price - not including taxes or fees)

Small/Medium US Cities \$170.00 Large US Cities/International \$220.00

Average Daily Meal Maximum

Small/Medium US Cities \$ 65.00 Large US Cities/International \$ 80.00

Mileage Reimbursement Rate

As set by the IRS, effective January 1, 2017 per mile \$ 0.535

NOTES:

- 1. These are maximum rates. A higher cap may be obtained if pre-authorized by the CEO. Rates must be reasonable and necessary under the circumstances and will customarily be lower.
- 2. Meal caps are detailed out below, with an overall daily cap of \$65.00 for Small / Medium U.S. Cities and \$80.00 for Large U.S. Cities / International.

Breakfast - \$20.00 Lunch - \$25.00 Dinner - \$50.00

- 3. If a conference registration fee covers meals, employees are to participate in those meals.
- ⁴. Small / Medium U.S. Cities are defined for this rate structure as those with less than 1 million persons in the metropolitan area.
 - Large U.S. Cities are defined for this rate structure as those with more than 1 million persons in the metropolitan area.
- 5. The Mileage Rate is directly tied to the rate set by the IRS and will be revised more frequently than annually if done so by the IRS.

Annual Travel Cost Rates Calendar Year 2023

Hotel Maximum (quoted price - not including taxes or fees)

Medium/Low Cost Localities \$200.00 High Cost Localities (IRS Notice 2022-44) \$275.00

Average Daily Meal Maximum

All Localities \$ 90.00

Mileage Reimbursement Rate

As set by the IRS, effective January 1, 2023 per mile \$ 0.655

NOTES:

- 1. These are maximum rates. A higher cap may be obtained if pre-authorized by the CEO. Rates must be reasonable and necessary under the circumstances and will customarily be lower.
- 2. Meal caps are detailed out below, with an overall daily cap of \$90.00

Breakfast - \$30.00 Lunch - \$30.00 Dinner - \$50.00

- 3. If a conference registration fee covers meals, employees are to participate in those meals.
- 4. Small / Medium U.S. Cities are defined for this rate structure as those with less than 1 million persons in the metropolitan area.
 - Large U.S. Cities are defined for this rate structure as those with more than 1 million persons in the metropolitan area.
- 5. The Mileage Rate is directly tied to the rate set by the IRS and will be revised more frequently than annually if done so by the IRS.

Attachment F

High-Cost Localities (IRS Notice 2022-44)

	High-Cost Localitie		-
Key City	County or Other Defined Location	State	Portion of Calendar Year
Gulf Shores	Baldwin	Alabama	June 1 – July 31
Phoenix/Scottsdale	Maricopa	Arizona	February 1 – March 31
Sedona	City limits of Sedona	Arizona	October 1 – September 30
California	Los Angeles, Orange, and Ventura, and Edwards AFB,		October 1 – October 31 and June 1 – September 30
Mill Valley/San Rafael/Novato	Marin	California	October 1 – October 31 and June 1 – September 30
Monterey	Monterey	California	June 1 – August 31
Napa	Napa	California	October 1 – September 30
Oakland	Alameda	California	October 1 – September 30
San Diego	San Diego	California	February 1 – August 31
San Francisco	San Francisco	California	October 1 – September 30
San Luis Obispo	San Luis Obispo	California	June 1 – August 31
San Mateo/Foster City/Belmont	San Mateo	California	October 1 – September 30
Santa Barbara	Santa Barbara	California	October 1 – September 30
Santa Monica	City limits of Santa Monica	California	October 1 – September 30
Sunnyvale/Palo Alto/San Jose	Santa Clara	California	October 1 – September 30
Aspen	Pitkin	Colorado	October 1 – March 31 and June 1 – September 30
Denver/Aurora	Denver, Adams, Arapahoe, and Jefferson	Colorado	October 1 – October 31 and April 1 – September 30
Durango	La Plata		June 1 – September 30
Grand Lake	Grand	Colorado	December 1 – March 31
Silverthorne/Brecken ridge	Summit	Colorado	October 1 – March 31 and June 1 – September 30
Steamboat Springs	Routt	Colorado	December 1 – March 31
Telluride	San Miguel	Colorado	October 1 – September 30
Vail	Eagle	Colorado	October 1 – September 30
Lewes	Sussex	Delaware	July 1 – August 31
			October 1 – September 30 December 1 – April 20
Boca Raton/Delray Beach/Jupiter	Palm Beach and Hendry	Florida	December 1 – April 30
Bradenton			February 1 – March 31
Cocoa Beach			February 1 – March 31
Fort Lauderdale	Broward	Florida	October 1 – April 30
Fort Myers	Lee	Florida	February 1 – March 31
Fort Walton Beach/DeFuniak Springs	Okaloosa and Walton	Florida	October 1 – October 31 March 1 – September 30
Gulf Breeze	Santa Rosa	Florida	June 1 – July 31
Key West	Monroe	Florida	October 1 – September 30
Miami	Miami-Dade	Florida	December 1 – March 31
Naples	Collier	Florida	December 1 – April 30
Panama City	Bay	Florida	June 1 – July 31
Pensacola	Escambia	Florida	June 1 – July 31
Punta Gorda			February 1 – March 31
Sarasota	Sarasota	Florida	February 1 – April 30
Sebring	Highlands	Florida	February 1 – March 31
Stuart	Martin	Florida	February 1 – March 31
Vero Beach	Indian River	Florida	December 1 – April 30
Jekyll Island/ Brunswick	Glynn	Georgia	March 1 – July 31
Sun Valley/Ketchum	Blaine and Elmore	Idaho	December 1 – March 31 and June 1 – September 30
Chicago	Cook and Lake	Illinois	October 1 – November 30 and April 1 – September 30
Bar Harbor/ Rockport	Hancock and Knox	Maine	October 1 – October 31 and July 1 – September 30
Kennebunk/Kittery/S anford	York	Maine	July 1 – August 31
Portland	Cumberland and Sagadahoc		July 1 – August 31
Ocean City	Worcester	Maryland	July 1 – August 31
Washington, DC Metropolitan Area	Montgomery and Prince George's	Maryland	October 1 – September 30
Boston/Cambridge	Suffolk and City of Cambridge	Massachusetts	October 1 – September 30
Falmouth	City limits of Falmouth	Massachusetts	May 1 – August 31
Hyannis	Barnstable less the city of Falmouth	Massachusetts	July 1 – August 31
Martha's Vineyard	Dukes	Massachusetts	October 1 – September 30
Nantucket	Nantucket	Massachusetts	October 1 – September 30
Mackinac Island	Mackinac		July 1 – August 31
Petoskey	Emmet		July 1 – August 31
Traverse City	Grand Traverse	Michigan	July 1 – August 31
Duluth	St. Louis		October 1 – October 31 and June 1 – September 30
Big Sky/West Yellowstone/Gardiner	Gallatin and Park	Minnesota Montana	June 1 – September 30
			July 1 – August 31
Kalispell/Whitefish Carlsbad	Flathead		
	Eddy	New Mexico	October 1 – September 30
Toms River	Ocean	New Jersey	July 1 – August 31
Glens Falls	Warren	New York	July 1 – August 31
	Essex		July 1 – August 31
Lake Placid			
Lake Placid New York City	Bronx, Kings, New York, Queens, and Richmond	New York	October 1 – December 31 and March 1 – September 30
Lake Placid New York City Kill Devil Hills	Dare	North Carolina	April 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City	Dare Lincoln	North Carolina Oregon	April 1 – September 30 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland	Dare Lincoln Multnomah	North Carolina	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City	Dare Lincoln	North Carolina Oregon	April 1 – September 30 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland	Dare Lincoln Multnomah	North Carolina Oregon Oregon Oregon	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside	Dare Lincoln Multnomah Clatsop	North Carolina Oregon Oregon Oregon	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey	Dare Lincoln Multnomah Clatsop Hershey	North Carolina Oregon Oregon Oregon Pennsylvania	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia	Dare Lincoln Multnomah Clatsop Hershey Philadelphia	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 June 1 – September 30 June 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson	North Carolina Oregon Oregon Oregon Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 October 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania South Carolina South Carolina South Carolina Tennessee Utah	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – October 31 and March 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina Tennessee Utah Utah	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach	North Carolina Oregon Oregon Oregon Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – September 30 October 1 – October 31 and March 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Mashwille Moab Park City Virginia Beach Wallops Island	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah Virginia	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 June 1 – August 31 July 1 – August 31 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Counti	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina South Carolina Utah Utah Virginia Virginia	April 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31 June 1 – September 30 October 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 October 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Countil	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah Virginia Virginia Vermont	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – Notober 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashwille Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester Port Angeles/Port Townsend	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Counti	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina South Carolina Utah Utah Virginia Virginia	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – Notober 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 June 1 – August 31 July 1 – August 31 July 1 – August 31 July 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31 October 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Countil	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah Virginia Virginia Vermont	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – Notober 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashwille Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester Port Angeles/Port Townsend	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Countile Bennington Clallam and Jefferson	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah Virginia Virginia Virginia Vermont Washington	April 1 – September 30 July 1 – August 31 October 1 – October 31 and June 1 – September 30 July 1 – August 31 June 1 – August 31 October 1 – Notober 30, March 1 – June 30, and September 1 – September 30 October 1 – October 31 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 June 1 – August 31 July 1 – August 31 July 1 – August 31 July 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31 October 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester Port Angeles/Port Townsend Seattle	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Countil Bennington Clallam and Jefferson King	North Carolina Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Tennessee Utah Utah Virginia Virginia Vermont Washington Washington	April 1 – September 30 July 1 – August 31 June 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – November 30 and June 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 June 1 – August 31 June 1 – August 31 June 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31 July 1 – August 31 October 1 – September 30 October 1 – September 30 July 1 – August 31 October 1 – September 30 July 1 – August 31 October 1 – September 30 July 1 – August 31
Lake Placid New York City Kill Devil Hills Lincoln City Portland Seaside Hershey Philadelphia Jamestown/Middleto wn/Newport Charleston Hilton Head Myrtle Beach Nashville Moab Park City Virginia Beach Wallops Island Washington, DC Metro Area Manchester Port Angeles/Port Townsend Seattle Vancouver	Dare Lincoln Multnomah Clatsop Hershey Philadelphia Newport Charleston, Berkeley, and Dorchester Beaufort Horry Davidson Grand Summit City of Virginia Beach Accomack Cities of Alexandria, Falls Church, and Fairfax; Countil Bennington Clallam and Jefferson King Clark, Cowlitz, and Skamania	North Carolina Oregon Oregon Oregon Oregon Pennsylvania Pennsylvania Rhode Island South Carolina South Carolina South Carolina Utah Virginia Virginia Virginia Vermont Washington Washington	April 1 – September 30 July 1 – August 31 June 1 – August 31 June 1 – August 31 June 1 – August 31 October 1 – October 30, March 1 – June 30, and September 1 – September 30 October 1 – November 30, March 1 – June 30, and September 1 – September 30 October 1 – Notober 31 and June 1 – September 30 Uctober 1 – September 30 June 1 – August 31 June 1 – August 31 October 1 – September 30 October 1 – September 30 October 1 – September 30 June 1 – August 31 July 1 – August 31 October 1 – September 30 October 1 – October 31 and June 1 – September 30

Policies and Procedures No. 44

Board Approval: 9/14/23

SUBJECT:

TRAVEL POLICY

PURPOSE:

To establish guidelines for San Diego Metropolitan Transit System (MTS) employees and MTS Board of Director (Board) members travelling on behalf of MTS. Attendance at relevant industry and professional conferences is an important facet of employee and Board member understanding of transit issues, emerging trends, and the ongoing professional development of staff.

POLICY:

- 44.1 <u>Applicability</u>. This policy applies to all MTS agencies including MTS, San Diego Transit Corporation, San Diego Trolley, Inc., and San Diego and Arizona Eastern Railway Co.
- 44.2 <u>Board Member Attendance</u>. MTS and its customers benefit from Board member engagement in state and national transit-related association activities such as those organized by the California Transit Association (CTA) and the American Public Transit Association (APTA). Each Board member is encouraged to attend one transit-related conference annually. The Chief Executive Officer (CEO) will survey the Board members annually to ascertain their interest in attending conferences. Budget, Brown Act, and other considerations may limit the number of Board members who may attend any given conference or meeting.
- <u>44.3</u> <u>Travel by Board Member Alternate</u>. Board alternates may attend one of the transit-related conferences, conditioned on the following:
 - a. They are attending in the place of the regular member.
 - b. They attended 50 percent or more of the Board meetings in the past 12 months, or since appointment, whichever time is shortest.
- 44.4 <u>Employee Attendance.</u> Employees are encouraged to attend transit conferences, seminars, and training classes pertaining to their respective disciplines.



- 44.5 Other Meetings. Consistent with 44.2 through 44.4, full reimbursement will be provided to any Board member or employee who is active on a CTA or APTA committee for travel and expenses related to a committee meeting. Other transit-related conferences or meetings may also merit attendance. Examples include meetings of the California Transportation Commission and legislative hearings. In such cases, the Chairperson (in the case of Board members) or the CEO (in the case of employees) will determine whether attendance is desirable, consider the remaining available travel budget, and decide who should attend.
- 44.6 Board Member Travel Arrangements. Board members will be notified in advance of conference details and basic travel arrangements such as arrival and departure dates and times, cost of the trip, date that members need to notify MTS of their interest in attending, and any potential cost impacts for changes made after that date. Board members desiring different travel arrangements will be financially responsible for any costs over and above those determined for the basic trip. Board members shall be notified in sufficient time to make changes with advance reservation discounts.
- Travel Authorization. Employees traveling for work relating to or for the benefit of MTS must request advance approval through a "Travel Authorization Form" (Attachment A). The form must be completed and approved as soon as the need for travel is known, and if possible, at least two weeks prior to the trip. The requests shall be approved as follows: department managers or directors, Chief Operating Officer(s) (COO), Chief Financial Officer (CFO), and/or General Counsel. All requests must be approved by the CEO regardless of amount. After CEO approval, the request form will be routed back to the Finance Department. Finance will send a copy of the "Travel Authorization Form" to the traveler and keep the original as backup for a pending "Travel Expense Report."

This authorization form is a required step for reimbursement of travel expenses but will not by itself serve as the basis for reimbursement of travel costs, as reimbursement requests shall be made on a "Travel Expense Report" described in Section 44.8 and shown in Attachment C. Travel reservations will be made by the individual traveler or individuals as designated by the COO or CEO.

44.8 Expense Report. The "Travel Expense Report" portion of the form will be used to record actual trip expenses, and should be completed within two weeks from the return date. For employees, a department manager or director must indicate approval of the expenses (CEO approval for direct report travel; CEO, General Counsel, or CFO approval for Board member travel; and General Counsel approval of CEO travel). The form is routed to the Finance Department for processing, with a personal check attached for any funds due to MTS (if MTS direct expenses or travel advances exceed the total amount due). Failure to submit expense reports within this timeframe may result in not being reimbursed or collection actions taken if money is owed to MTS. Extensions may be granted by the CEO. For Board members, MTS will work with the Board member or their staff to assist them in preparing and approving this report.

All expenses should be itemized, including items MTS may have paid for in advance (e.g., airfare, conference registration) so that the report provides a complete record of all expenses. It is the traveler's responsibility to submit a completed report in order to receive prompt reimbursement.

- 44.9 Receipts. Itemized receipts for expenditures must be attached to the "Travel Expense Report" for all expenses where a receipt is practically attainable (mandatory, unless a written satisfactory explanation is provided for expenses in excess of \$10). Such written explanations may be subjected to approval by the CEO. Hotel charges must be evidenced by an itemized hotel bill, as a credit card receipt is not sufficient.
- 44.10 <u>Travel Advances</u>. Travel advances are provided on a case-by-case basis and approved by the CFO and/or CEO. A travel advance is a loan that provides cash resources to assist the employee while traveling and is not a payment by MTS for travel expenses. Persons requesting that MTS provide advance proceeds must request approval using the "Travel Advance Request" (Attachment B). This form must be completed and approved at least two weeks prior to the trip taking place, and advances will typically be distributed one week prior to the departure date. Any travel advance shall not exceed the total estimated amount of the trip less any items paid by MTS.

Travel costs incurred prior to departure may be reimbursed when paid. An example is a traveler paying for conference registration or booking and paying for air travel personally several weeks in advance. Reimbursements for these costs are not considered an advance. These items should be included on a "Request for Payment/Payment Voucher" or "Travel Expense Report" and only after the "Travel Authorization Request" has been approved.

- 44.11 Reasonable Travel Expenses. MTS reimburses for reasonable costs necessarily incurred for work travel in accordance with the terms of this policy and does not provide a per diem allowance. Itemized receipts for all meals, hotel, airfare, registration, etc must be provided. The following expenditure guidelines and the Annual Travel Cost Rates set by MTS (rates for the current calendar year are attached as Attachment E) should be observed as upper limits unless particular circumstances reasonably dictate otherwise:
 - a. <u>Upper Limits</u>. Upper limits for meals, hotels, and similar costs will be updated, approved by the CEO, and published annually. See Attachment E for the current calendar year rates.
 - b. <u>Air Travel</u>. Air travel should be coach class for the most direct route. Traveler arrangements should be made as far as possible in advance in order to secure the most favorable rates. MTS will cover the cost if it is more cost effective (i.e., difference in airfare as compared to the additional cost for hotel and meals) to include a Saturday stay. Travelers should consider this option when practical. Refundable airfares may be purchased if warranted.
 - c. <u>Personal Auto Use</u>. In the event that a private auto is used for the trip, mileage will be paid in accordance with the current IRS Mileage Reimbursement Rates. Maximum reimbursement shall not exceed the cost of a comparable coach airfare to the same location.

- d. <u>Ground Transportation</u>. In using surface transportation, the most practical, least expensive alternative should be utilized. Such transportation includes travel to and from the airport and reasonable business-related trips at the location. Travelers are encouraged to utilize public transportation where available.
 - Parking. MTS will reimburse the lesser of the parking cost for a
 personal auto left at the airport or the cost of a shuttle service,
 taxi, or ride share service to and from the airport. If a specific
 option is not feasible given the time of travel or other personal
 circumstances, a waiver should be requested.
- f. Personal Travel. A traveler may wish to combine MTS-related travel with personal travel or include family members in the trip. If personal travel is included within the trip, it must be notated on the "Travel Authorization Form." For trips that include personal travel, MTS will reimburse the cost equivalent to a single-person roundtrip for the most direct route between San Diego and the business travel location. MTS will not advance any payments to cover personal travel.
- g. Rental Car. The use of rental cars must be preapproved as part of the "Travel Authorization Form." In the event a rental car is required, MTS will reimburse rental car charges for up to a reasonably priced standard-size sedan, unless the nature of the travel or the number of employees traveling warrants a larger vehicle. The traveler will be responsible for the cost difference, if any, for any vehicle upgrades over a standard-size sedan. MTS will not reimburse for rental car insurance coverage since employees are included under MTS's general automobile insurance coverage.
- h. Meals (While in Travel Status). Meals, including tip, shall generally average no more than the maximum rate approved and published annually. Alcohol consumed with a meal is not reimbursable, including applicable taxes and tips related to the alcohol cost. The amount per day applies to each 24-hour day of travel, and partial days would be prorated accordingly. Exceptions to the maximum rates must be approved by the CEO or General Counsel.
- Business Meal. Reasonable business (involving outside persons or when necessary to conduct MTS-related business) meals are permitted. All such meals must be itemized, including the names of all attendees, with justification.
- j. Hotel. Travelers will be reimbursed for the cost of a reasonably priced single-occupancy hotel room. The maximum reimbursement is limited to the rate approved and published in this Policy (Attachment E). IRS Notice 2022-44 (Attachment F) provides high-cost localities and timeframes in which maximum limits are eligible for reimbursement. However, travelers are not required to stay in unsafe locations or locations that would result in long commutes to their meetings simply to meet those limits. These maximum limits do not apply if the traveler is staying at a hotel where a conference is being held. The CEO may

authorize a waiver of the maximum limits in the event (1) the conference hotel is fully booked and the traveler stays at a nearby hotel with a rate reasonably comparable to the conference hotel rate; or (2) a safe and convenient hotel within the maximum rates is not identified within reasonable proximity to the meeting or event necessitating the business travel.

- k. <u>Other Business-Related Expenses</u>. Other business-related expenses while traveling such as supplies, equipment rental, reprographics, facsimiles, internet access, and other documented business-related expenses may be reimbursed when traveling on MTS business and used for MTS purposes.
- I. <u>Travel Outside of the U.S.</u> Reimbursement for travel outside the U.S. will be calculated at the average exchange rate during the trip. All reimbursement for any Value Added Taxes charged for hotel accommodations must be returned to MTS.
- m. <u>Registration</u>. Travelers requesting to attend a conference or training that requires registration should do so in sufficient time to take advantage of any discounts.
- n. Additional Conference Events or Costs. Conference luncheons, special banquets, or other set-price official affairs that exceed the actual cost listed under meals may be reimbursed if they are necessary to the attendance of the conference and must be authorized in advance with the submission of the "Travel Authorization Form".
- o. <u>Cancellation Penalties</u>. In the event that registration, airfare, hotel deposit, or any other such items that require prepayment are paid and the traveler is unable to attend and the prepayment is nonrefundable, then the traveler may be responsible for reimbursing MTS for the full cost unless the inability to attend is for valid business reasons, medical conditions, or personal emergencies, as approved by the CEO for employees or by the Executive Committee for Board members.
- p. <u>Non-allowable Expenses</u>. MTS will not provide any reimbursement for personal entertainment expenses, alcoholic beverages, movies in hotels, personal items, charitable contributions, air travel insurance, any travel expenses for family members (including but not limited to transportation, hotels, and meals), or any other expenses not deemed necessary for business purposes.
- q. <u>Political Events</u>. MTS will not provide reimbursement for expenses incurred for the purpose of attending political events. An event shall be considered "political" if it is held for the purpose of supporting, opposing, or raising money to support or oppose any candidate, ballot measure, or political party.

r. <u>Non-Discrimination</u>. MTS will not provide any reimbursement for expenses incurred with any private club or establishment that discriminates on the basis of race, color, national origin, disability, gender, religion, sexual orientation, or other legally protected characteristic or class in its membership policy.

Exceptions to these guidelines must be approved by the CEO for employees and by the Executive Committee for Board members.

- 44.12 <u>Within-Area Expenses</u>. The form entitled "Expense Report (within area expenses)" (see Attachment D) must be used to record any eligible expenses. This report applies to expenses incurred within the San Diego County area only.
 - a. <u>Submittal of Form</u>. Employees must submit this form together with receipts after applicable expenses are incurred.
 - b. <u>Eligible Expenses</u>. Eligible expenses must be related to and necessary for carrying out MTS business. They may include, but not be limited to, business meals or meetings, mileage, parking, or other miscellaneous out-of-pocket expenses related to MTS business. The CEO or CFO may, in their judgment, disallow any extraordinary or inappropriate expenses. Whenever possible, local travel should be by public transportation. If it is impractical to use public transit, an MTS vehicle or private auto should be used.
 - c. <u>Description and Purpose</u>. The report should include the date, description / purpose (including destination), and the applicable department / account code (if operations) or the applicable project / task detail (if capital).
 - d. <u>Approvals</u>. All necessary approvals must be obtained in advance and the completed form must be submitted to the Finance Department within one week after expenses are incurred.

44.13 Non-Exempt Employee Travel Time Compensation Guidelines

- a. <u>Travel Time.</u> MTS pays non-exempt employees for travel time in accordance with the Fair Labor Standards Act (FLSA).
- b. <u>Home to Work Travel.</u> In general, the time an employee spends commuting from home to work and from work to home is not work time and is not compensable.
- c. <u>Single-Day Travel</u>. Time spent by a non-exempt employee in travel as part of his or her normal work activities (travel is performed for the benefit of MTS and at its request), such as travel to a seminar during regular working hours, is considered hours worked. If the employee is required to travel to another city and return home in the same day, the travel time to and from the other city is considered hours worked regardless whether the travel occurs within the employee's normal work schedule or by common carrier. However, meal periods and the travel time between the employee's home and the point of public transportation (i.e. airport, train station) are not considered hours worked.

- d. Overnight Travel. Travel by a non-exempt employee who (at the request and for the benefit of MTS) will be away from home overnight is work time only during those periods that coincide with the employee's regular working hours (i.e. Monday through Friday 9 a.m. to 5 p.m.). Such time is counted as hours worked even if it occurs on a non-working day (i.e. Saturday or Sunday between 9 a.m. and 5 p.m.). Travel outside regular working hours as a passenger in a plane, train, boat, bus or automobile is not considered hours worked. Driving a vehicle, regardless of whether the travel takes place within or outside normal work hours. counts as hours worked if it is for the benefit of MTS. (If an employee drives a car as a matter of personal preference in lieu of a different authorized mode of travel, only the estimated travel time associated with the authorized mode will be counted as hours worked.) To the extent that an employee performs work while traveling (i.e. preparing for a meeting, reviewing documents, making telephone calls), this time constitutes hours worked even if the travel time would otherwise not be compensable. Regular meal periods and time spent at a hotel with freedom to use time for the employee's own purposes is not compensable. The employee will not be compensated for time not working even if it occurs within the employee's regular work schedule (i.e. employee goes sightseeing).
- e. Non-exempt employees shall record and report all hours worked in accordance with the above guidelines. Overtime will be paid to the extent that hours worked, including travel hours specified above, exceed 40 hours in a workweek. If you have any questions, please contact Human Resources.

POLICY.44.TRAVEL EXPENSE POLICY

Attachments: A. Travel Authorization Form

B. Travel Advance Request C. Travel Expense Report

D. Expense Report (within-area expenses)

E. Annual Travel Cost Rates

F. IRS Notice 2022-44

Original Policy approved on 8/12/93.

Policy amended on 10/27/94.

Policy revised on 4/29/04.

Policy revised on 1/26/06.

Policy revised on 7/19/07.

Policy revised on 6/24/10.

Attachments updated by Staff 1/16/13.

Policy and attachments revised on 9/12/13.

Attachments updated by Staff 7/24/14.

Attachments updated by Staff 5/18/15.

Attachments updated by Staff 2/2/16.

Policy and attachments revised on 1/19/17.

Attachments updated by Staff 6/21/17.

Policy and attachments revised on XX/XX/XXXX

(Revised 6.14.23)

Chief Executive Officer:

TRAVEL AUTHORIZATION

MTS
SDTC

B-9

	Metropolita	FORM (complete this form first, before any travel expenses are incurred)	□ SDTC □ SDTI
PART I - EMPLOYEE INFORMAT	ΓΙΟΝ		
Report Date:	6/14/2023	Costs to be charged to:	
Employee Name:			
Title:		OPERATIONS ONLY	
Department Name:		Project/Task Detail: CIP ONLY	
Travel Dates:		Location:	
Meeting Name/Purpose:			
PART II - TOTAL ESTIMATED E	XPENSES		
Transportation Air Train Car Mileage rate = \$.655 / m Rental car insurance is	not reimbursable		
Total Transportation			\$ -
Shuttles / Taxi / Parking			
Lodging Days Rate			
Total Lodging			\$ -
Meals Days Rate			
Total Meals			\$ -
Other Costs Registration Other Other			
Total Other			\$ -
		Grand Total Estimated Expenses	\$ -
		Less: Amount To Be Paid Directly By MTS	\$ -
		Maximum Amount To Be Paid By Traveler	\$ -
PART III - SIGNATURES and AF	PPROVALS	Signature	Date
Traveler:			
Department Manager / Directo	or:		
COO / CFO / General Counse	el:		
Budget Manager:			
CFO / General Counsel:			Б.О

Attachment B

(Revised 06.14.2023) TRAVEL ADVANCE MTS **REQUEST** SDTC (complete this form, if needed, to request cash ☐ SDTI opolitan Transit System for travel) **PART I - EMPLOYEE INFORMATION** Report Date: 6/14/2023 Employee Name: Department Name: Travel Dates: Meeting Name/Purpose: **PART II - TOTAL ESTIMATED EXPENSES** Grand Total Estimated Expenses (from travel authorization form) \$ \$ Less: Amount To Be Paid Directly By MTS (from travel authorization form) Maximum Amount To Be Paid By Traveler (from travel authorization form) \$ **Total Advance Requested PART III - SIGNATURES and APPROVALS** Signature Date Traveler: Department Manager / Director: _____ COO: CFO / General Counsel:

Chief Executive Officer:

Attachment C

(Revised	106.14.2023)	7	5 Netropolita	's an Trans	it System			ete this f	REPO	RT	an 1 week	_		MTS SD1	С
PART I -	EMPLOYEE INFORMATION	1													
Report Da	ite:	6/1	4/2023			Cos	sts to be	charg	ged to:						
Employee	Name:						partmen								
Title:						0	PERATI	ONS (ONLY						
Departme	nt Name:					- _ F	Project/T CIP	ask De							
Meeting N	lame/Purpose:														
PART II -	TOTAL EXPENSES														
		D.	AY 1	D/	AY 2	D	DAY 3	D	AY 4	D	AY 5	D	AY 6		Total
Travel Dat	es														
Location (City, State)														
Transporta	ation**													\$	-
Shuttles/1	Taxis													\$	-
Parking														\$	-
Lodging														\$	-
Meals	Breakfast (\$30 daily limit)*	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
(Use Detail	Lunch (\$30 daily limit)*	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Tabs)	Dinner (\$50 daily limit)*	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Other:	Registration													\$	-
Other:														\$	-
Other:														\$	-
Other:														\$	-
Total		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	expense report must be files after completing trip.	lled w	rithin					Total	Expens	es				\$	-
	receipts for all purchases all items over \$10 not havii									aid Ite	ms (pleas	e enter a	a +number)		
	e related trip items paid se h an asterisk.	parat	ely by l	MTS;				Subto		dvanc	ed (please	e enter a	+number)	\$	-
*There is	an overall daily cap of \$90	0.00						Amoi	unt Due					\$	-
**Rental o	car insurance is not reimbo	ursab	le.												
_	SIGNATURES and APPRoy that the above report is true	-	_	. (CEO ap	proval	of exce	eption(s	s) from th	ne Tra	avel Polic	:y:			
Traveler:				Printe	ed Name	;				Sig	jnature				Date

Manager/Supervisor (Up to \$3000): Department Director (Up to \$5000): Chief Financial Officer:

Attachment D



EXPENSE REPORT

	MTS
	SDTC
П	SDTI

	-	Metro	politan Transit System	(with	in-ar	ea exp	enses)			SDTI
						Finance Use	e Only:			
						PEID			_	
PART I - E	MPLOYEE INFORMAT	ION								
Employee	Name:			F	Period:		to		_	
Employee	Signature:									
□ I certify	that the expenses re	eported are true and	d correct.							
PART II - E	XPENSES AND MILE	AGE DETAIL								
Date	OPERATIONS ONLY Dept./Acct Code	CIP ONLY Project/Task Detail	Description / Purpose		phone 5100	Meeting Exp. 575230	(\$.65	leage 55/mile) 75230	C	Other
				\$		\$ -	\$	-	\$	
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-	\$	-
				\$	-	\$ -	\$	-		
			TOTAL	S \$	-	\$ -	\$	-	\$	-
							GRAND	TOTAL	\$	-
PART III - A	APPROVALS									
Department	Director (Up to \$500):			_						
Chief Finan	cial Officer (Up to \$1500)	:		_						
Chief Execu	utive Officer (CEO):									
-	Report Instructions Employees must		nen requesting reimbursemer	nt. This r	eport a	pplies to ex	penses			

- incurred within the San Diego metropolitan area only.
- 2. Eligible expenses must be related to and necessary for carrying out MTS business. They may include, but are not limited to, business meals, or meetings, parking, or other miscellaneous out-of-pocket expenses related to MTS business. The CFO or CEO may, in their judgment, disallow any extraordinary or inappropriate expenses. Attach receipts for all out-of-pocket expenses.
- 3. Briefly describe the item or the destination and the purpose.

Attachment E

Annual Travel Cost Rates Calendar Year 2023

Hotel Maximum (quoted price - not including taxes or fees)

Medium/Low Cost Localities \$200.00 High Cost Localities (IRS Notice 2022-44) \$275.00

Average Daily Meal Maximum

All Localities \$ 90.00

Mileage Reimbursement Rate

As set by the IRS, effective January 1, 2023 per mile \$ 0.655

NOTES:

- 1. These are maximum rates. A higher cap may be obtained if pre-authorized by the CEO. Rates must be reasonable and necessary under the circumstances and will customarily be lower.
- 2. Meal caps are detailed out below, with an overall daily cap of \$90.00

Breakfast - \$30.00 Lunch - \$30.00 Dinner - \$50.00

- 3. If a conference registration fee covers meals, employees are to participate in those meals.
- 4. Small / Medium U.S. Cities are defined for this rate structure as those with less than 1 million persons in the metropolitan area.
 - Large U.S. Cities are defined for this rate structure as those with more than 1 million persons in the metropolitan area.
- 5. The Mileage Rate is directly tied to the rate set by the IRS and will be revised more frequently than annually if done so by the IRS.

Attachment F High-Cost Localities (IRS Notice 2022-44)

Key City	County or Other Defined Location	State	Portion of Calendar Year
Gulf Shores	Baldwin	Alabama	June 1 – July 31
Phoenix/Scottsdale	Maricopa	Arizona	February 1 – March 31
Sedona	City limits of Sedona	Arizona	October 1 – September 30
California	Los Angeles, Orange, and Ventura, and Edwards AFB,		October 1 – October 31 and June 1 – September 30
Mill Valley/San Rafael/Novato Monterey	Marin Monterey	California California	October 1 – October 31 and June 1 – September 30 June 1 – August 31
Napa	Napa	California	October 1 – September 30
Oakland	Alameda	California	October 1 – September 30
San Diego	San Diego	California	February 1 – August 31
San Francisco	San Francisco	California	October 1 – September 30
San Luis Obispo	San Luis Obispo	California	June 1 – August 31
San Mateo/Foster City/Belmont	San Mateo	California	October 1 – September 30
Santa Barbara	Santa Barbara	California	October 1 – September 30
Santa Monica	City limits of Santa Monica	California	October 1 – September 30
Sunnyvale/Palo Alto/San Jose	Santa Clara	California	October 1 – September 30
Aspen	Pitkin	Colorado	October 1 – March 31 and June 1 – September 30
Denver/Aurora	Denver, Adams, Arapahoe, and Jefferson	Colorado Colorado	October 1 – October 31 and April 1 – September 30
Durango Grand Lake	La Plata Grand	Colorado	June 1 – September 30 December 1 – March 31
Silverthorne/Brecken ridge	Summit	Colorado	October 1 – March 31 and June 1 – September 30
Steamboat Springs	Routt	Colorado	December 1 – March 31
Telluride	San Miguel	Colorado	October 1 – September 30
Vail	Eagle	Colorado	October 1 – September 30
Lewes	Sussex	Delaware	July 1 – August 31
	xandria, Falls Church, and Fairfax, and the counties of	District of Columbia	October 1 – September 30
Boca Raton/Delray Beach/Jupiter	Palm Beach and Hendry	Florida	December 1 – April 30
Bradenton	Manatee	Florida	February 1 – March 31
Cocoa Beach	Brevard	Florida	February 1 – March 31
Fort Lauderdale	Broward	Florida	October 1 – April 30
Fort Myers	Lee	Florida	February 1 – March 31
Fort Walton Beach/DeFuniak Springs	Okaloosa and Walton	Florida	October 1 – October 31 March 1 – September 30
Gulf Breeze Key West	Santa Rosa Monroe	Florida	June 1 – July 31 October 1 – September 20
Miami	Miami-Dade	Florida Florida	October 1 – September 30
Naples	Collier	Florida	December 1 – March 31 December 1 – April 30
Panama City	Bay	Florida	June 1 – July 31
Pensacola	Escambia	Florida	June 1 – July 31
Punta Gorda	Charlotte	Florida	February 1 – March 31
Sarasota	Sarasota	Florida	February 1 – April 30
Sebring	Highlands	Florida	February 1 – March 31
Stuart	Martin	Florida	February 1 – March 31
Vero Beach	Indian River	Florida	December 1 – April 30
Jekyll Island/ Brunswick	Glynn	Georgia	March 1 – July 31
Sun Valley/Ketchum	Blaine and Elmore	Idaho	December 1 – March 31 and June 1 – September 30
Chicago	Cook and Lake	Illinois	October 1 – November 30 and April 1 – September 30
Bar Harbor/ Rockport	Hancock and Knox	Maine	October 1 – October 31 and July 1 – September 30
Kennebunk/Kittery/S anford	York	Maine	July 1 – August 31
Portland Ocean City	Cumberland and Sagadahoc	Maine	July 1 – August 31
Ocean City Washington, DC Metropolitan Area	Worcester	Maryland	July 1 – August 31
Boston/Cambridge	Montgomery and Prince George's Suffolk and City of Cambridge	Maryland Massachusetts	October 1 – September 30 October 1 – September 30
Falmouth	City limits of Falmouth	Massachusetts	May 1 – August 31
Hyannis	Barnstable less the city of Falmouth	Massachusetts	July 1 – August 31
Martha's Vineyard	Dukes	Massachusetts	October 1 – September 30
Nantucket	Nantucket	Massachusetts	October 1 – September 30
Mackinac Island	Mackinac	Michigan	July 1 – August 31
Petoskey	Emmet	Michigan	July 1 – August 31
Traverse City	Grand Traverse	Michigan	July 1 – August 31
Duluth	St. Louis	Minnesota	October 1 – October 31 and June 1 – September 30
Big Sky/West Yellowstone/Gardiner	Gallatin and Park	Montana	June 1 – September 30
Kalispell/Whitefish	Flathead	Montana	July 1 – August 31
Carlsbad	Eddy	New Mexico	October 1 – September 30
Toms River	Ocean	New Jersey	July 1 – August 31
Glens Falls	Warren	New York	July 1 – August 31 July 1 – August 31
Lake Placid New York City	Essex Bronx, Kings, New York, Queens, and Richmond	New York New York	July 1 – August 31 October 1 – December 31 and March 1 – September 30
Kill Devil Hills	Dare	New York North Carolina	April 1 – September 30
Lincoln City	Lincoln	Oregon	July 1 – August 31
Portland	Multnomah	Oregon	October 1 – October 31 and June 1 – September 30
Seaside	Clatsop	Oregon	July 1 – August 31
Hershey	Hershey	Pennsylvania	June 1 – August 31
Philadelphia	Philadelphia	Pennsylvania	October 1 – November 30, March 1 – June 30, and September 1 – September 30
Jamestown/Middleto wn/Newport	Newport	Rhode Island	October 1 – October 31 and June 1 – September 30
Charleston	Charleston, Berkeley, and Dorchester	South Carolina	October 1 –September 30
Hilton Head	Beaufort	South Carolina	June 1 – August 31
Myrtle Beach	Horry	South Carolina	June 1 – August 31
Nashville	Davidson	Tennessee	October 1 – September 30
Moab	Grand	Utah	October 1 – October 31 and March 1 – September 30
Park City	Summit	Utah	October 1 – September 30
Virginia Beach	City of Virginia Beach	Virginia	June 1 – August 31
Wallops Island Washington, DC Metro Area	Accomack Cities of Alexandria Falls Church and Fairfay: Counti	Virginia	July 1 – August 31 October 1 – September 30
Washington, DC Metro Area Manchester	Cities of Alexandria, Falls Church, and Fairfax; Counti Bennington	Virginia Vermont	October 1 – September 30 October 1 – September 30
Port Angeles/Port Townsend	Clallam and Jefferson	Washington	July 1 – August 31
Seattle	King	Washington	October 1 – September 30
, .			
Vancouver	Clark, Cowlitz, and Skamania	Washington	October 1 – October 31 and June 1 – September 30
Vancouver Cody		Washington Wyoming	October 1 – October 31 and June 1 – September 30 June 1 – September 30
	Clark, Cowlitz, and Skamania	_	



1255 Imperial Avenue, Suite 1000 San Diego, CA 92101-7490 619.231.1466 Fax: 619.234.3407

Policies and Procedures No. 29

SUBJECT: Board Approval: 3/11/04

ATTENDANCE AT TRANSIT-RELATED CONFERENCES

PURPOSE:

To establish a basis for budgeting Board member and employee attendance at transit-related conferences. Attendance at relevant industry and professional conferences is an important facet of Board member understanding of transit issues and state-of-the-art changes and the ongoing professional development of staff.

POLICY:

29.1 Board Member Attendance. It is desirable and beneficial to MTS and the constituents it represents that Board members actively participate in state and national transit-related association activities. Such activities are normally associated with the California Transit Association (CTA) and the American Public Transit Association (APTA). Each Board member is encouraged to attend one transit-related conference annually. Each year, the Chief Executive Officer will survey the Board members to ascertain their interest in attending one of the following conferences:

CTA Annual (November)
CTA Legislative (March)
APTA Annual (Fall)
APTA Rapid Transit (June)
APTA Board Members Seminar (July)
APTA Bus (Spring)
APTA Legislative (March)

29.2 <u>Employee Attendance.</u> Employees are encouraged to attend conferences related to transit in general (as listed above in 29.1) and/or their respective disciplines. Each year, the department directors will submit to the Chief Executive Officer a list of desired conferences and other meetings to be attended. Upon return, employees attending conferences will submit a written



Metropolitan Transit System (MTS) is a California public agency and is comprised of San Diego Transit Corporation and San Diego Trolley, Inc. nonprofit public benefit corporations, in cooperation with Chula Vista Transit and National City Transit. MTS is the taxicab administrator for eight cities and the owner of the San Diego and Arizona Eastern Railway Company.

MTS member agencies include: City of Chula Vista, City of Coronado, City of El Cajon, City of Imperial Beach, City of La Mesa, City of Lemon Grove, City of National City, City of Poway, City of San Diego, City of Santee, and the County of San Diego.

- trip report to the Chief Executive Officer in order to share the knowledge obtained from their attendance.
- 29.3 Annual Budgeting. Board member and employee attendance will be funded (i.e., full reimbursement for travel expenses and conference fees in accordance with MTS Policy No. 44) in the annual budget subject to the availability of funds and based on the survey results from 29.1 and 29.2 above. As part of this budgeting process, the Chief Executive Officer of MTS and the General Managers of SDTC and SDTI will meet and coordinate the lists of desired travel to out-of-town conferences resulting from 29.1 and 29.2. Their objectives will be to ensure minimum representation at key industry conferences and to make sure that the cumulative attendance at any one conference is not excessive.
- 29.4 Other Meetings. In addition to the above conferences and consistent with 29.1 through 29.2, full reimbursement will be provided to any Board member or employee who is active on a CTA or APTA committee for travel and expenses related to a committee meeting. In addition, other transit-related conferences or meetings may come up from time to time that deserve attendance. For such conferences or meetings, the Chairman (in the case of Board members) or the Chief Executive Officer (in the case of employees) will determine whether attendance is desirable, consider remaining available budget for travel, and decide who should attend. This definition includes meetings such as those of the California Transportation Commission or legislative hearings, for example.
- 29.5 <u>Expense Reporting</u>. Standard MTS expense reports will be used for all out-of-town travel in accordance with MTS Policy No. 44.
- 29.6 <u>Maximum Board Member Attendance</u>. The number of Board members attending any transit-related conference should not exceed seven (i.e., less than a quorum) unless this provision is specifically waived by the Board.
- 29.7 Board Member Travel Arrangements. Basic travel arrangements for a conference will be determined and Board members will be notified in advance of the details, such as: arrival and departure dates and times, cost of the trip, date that members need to notify MTS of their interest in attending, and any potential cost impacts for changes made after that date. Board members desiring to attend a conference using the basic arrangements will notify MTS. Board members desiring different travel arrangements will contact the Board's travel agent to make those arrangements and be financially responsible for any costs over and above those determined for the basic trip. Board members shall be notified in sufficient time to make changes with advance reservation discounts. If a Board member has a change in plans subsequent to having a basic trip arranged for him/her, the Board member will be responsible for contacting the Board's travel agent, handling the changes, and be financially responsible for any costs associated with the changes.

- 29.8 <u>Board Member/Employee Financial Responsibility</u>. If a Board member or employee initiates a change in plans, then the individual will equally share the financial responsibility with MTS for the cost impacts of the changes, unless a medical/death emergency occurs personally or with the individual's immediate family. The "immediate family" is defined to include only husband/wife, children, brother, sister, father, mother, father-in-law, mother-in-law, or any of the aforementioned step or adopted relatives.
- 29.9 <u>Travel by Board Member Alternate</u>. Board alternates may attend one of the transit-related conferences conditioned on the following:
 - a. He/she is attending in the place of the regular member.
 - b. He/she attended 50 percent or more of the Board meetings in the past 12 months, or since appointment, whichever time is shortest.

DDarro/SChamp/JGarde POLICY.29.ATTENDANCE TRANSIT CONFERENCES 7/14/06

Original Policy was adopted on 8/22/85. Policy was amended on 12/8/88. Policy was amended on 10/27/94. Policy was amended on 4/29/99. Policy was amended on 3/11/04.



Agenda Item No. $\frac{7}{2}$

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Grantville Transit Center Hardscape and Landscape Improvements – Work Order Agreement

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute Work Order MTSJOC347-05 under Job Order Contract (JOC) MTS Doc. No. PWG347.0-22 (in substantially the same format as Attachment A) with ABC General Contracting, Inc. (ABCGC), in the amount of \$968,743.63, for rehabilitating the hardscape and landscape currently present at the Grantville Transit Center.

Budget Impact

The total cost for this project is estimated at \$968,743.63. Under separate MTS Doc No. L1282.0-16, with The Gordian Group, MTS will pay a 1.95% JOC software license fee in the amount of \$18,890.50. This project is funded by MTS Grantville Station Improvements Work Breakdown Structure Element (WBSE) #2006116301.

DISCUSSION:

Grantville Transit Center – MTS Improvement Projects

On June 13, 2019 (AI 33) and as amended on April 8, 2021 (AI 18), the MTS Board of Directors authorized Disposition and Development Agreements for two transit-oriented developments at the Grantville Transit Station. The two developments included a 100% affordable housing development of 125 apartment homes with Grantville Trolley Family Housing, L.P. (an affiliate of Affirmed Housing Group, Inc., collectively "Affirmed"), and another with Greystar for a market rate multi-residential development of 250 apartment homes. As part of the project, 100 transit replacement transit parking spots were constructed as part of the Greystar development.

In January 2021, the California Department of Housing & Community Development (HCD) awarded a total of \$11,995,000 to Affirmed for their affordable housing development at the Grantville Trolley Station. The HCD grant was divided into two parts: a \$10,000,000 loan for construction of the affordable housing development, to be managed by Affirmed, and a \$1,995,000 grant for Infrastructure Projects, to be managed by MTS.



Of the \$1,995,000 in Infrastructure Grant Funds, \$599,000 of it is allocated to pay for Affirmed's cost share for 33 trolley replacement parking spaces constructed in the Greystar development. The remaining \$1,396,000 was available for MTS to implement various improvement projects at the Grantville Transit Center. During the Capital Improvement Program (CIP) Budgeting process, the MTS Board also allocated additional funds to complete the identified Grantville Transit Center projects. Identified projects include painting, hardscape, landscaping, lighting, closed circuit surveillance cameras, and additional variable message signs and PRONTO validators. The total CIP budget estimates for all projects is \$3.4 million. By timing the projects to be completed close to the opening of the Affirmed and Greystar apartment projects, riders will enjoy a fully refurbished station experience.

Today's proposed action relates to the hardscape and landscaping improvements portion of the project. Upon review of needed MTS improvement projects at the Grantville Transit center, it was determined that the current hardscape and landscape at the station was no longer in a state of good repair. The intent of this project is to rehabilitate existing walkways and common areas by demolishing and removing existing concrete benches and flatwork, replacing it with new concrete and landscaping to create a cohesive passenger flow between the transit center, the newly opened Greystar building, and the pending Affirmed building. This will include replacement and rehabilitation of the existing irrigation systems as well as all planting areas. Planting areas will receive new trees, plants, and mulch in order to return the landscaping at the station to a visually appealing state, as well as a state of good repair.

The project was funded with Fiscal Year (FY) 2023 annual CIP and HCD grant funds.

JOC Work Order Award Process & Recommendation

On October 6, 2020, MTS issued an Invitation for Bids (IFB) seeking a contractor to provide JOC civil construction services that primarily consists of repair, remodeling, or other repetitive work, and general building and facility contracting services. These services include, but are not limited to, demolition, maintenance, and modification of existing buildings and facilities, as well as any required incidental professional and technical services.

JOC is a procurement method under which public agencies may accomplish frequently encountered repairs, maintenance, and construction projects through a single, competitively procured long-term agreement.

The JOC program includes a catalog of pricing for a variety of potential tasks to be performed under the contract that have been pre-priced by the contractor, the Gordian Group. All potential contractors are subject to the pricing within this catalog. Each contractor then includes an adjustment factor, escalating their proposed price from the catalog price, to determine the total cost of the task order. The adjustment factor represents an average percentage increase over the catalog price (i.e. 1.25 adjustment factor represents 25% above the catalog price) for that respective task within the project. In order to select the lowest responsive and responsible bidder, MTS staff compares each contractor's proposed adjustment factor.

Nine (9) bids were received and MTS determined that ABCGC was the lowest responsive and responsible bidder. On December 10, 2020, the MTS Board authorized the CEO to execute MTS Doc. No. PWG347.0-22 with ABCGC for Civil Construction Services.

Agenda Item No. 7 September 14, 2023 Page 3 of 3

Today's proposed action would issue a work order to ABCGC under this JOC master agreement. Pricing for this repair work order was reviewed and determined to be fair and reasonable. Work is expected to be completed by January 2024. Harborside Construction Inc., Electro Specialty Systems, Titan Steel, The Doctor of Electricity and Koch General Engineering will be used as subcontractors for this work order.

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute Work Order MTSJOC347-05 under JOC MTS Doc. No. PWG347.0-22 (in substantially the same format as Attachment A) with (ABCGC, in the amount of \$968,743.63, for rehabilitating the hardscape and landscape currently present at the Grantville Transit Center.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft Work Order MTSJOC347-05

JOB ORDER CONTRACT WORK ORDER

THIS ACREMENT is entered into this		PWG347.0-22 CONTRACT NUMBER MTSJOC347-05 WORK ORDER NUMBER
THIS AGREEMENT is entered into this day of California by and between San Diego Metropolitan Traagency, and the following, hereinafter referred to as "California by and the following, hereinafter referred to as "California by and the following, hereinafter referred to as "California by and the following, hereinafter referred to as "California by an action of the following by a second of the following	ansit System ("N Contractor":	2023, iff the state of MTS"), a California public
Name: ABC General Contractor, Inc.	Address: 312	20 National Avenue
Form of Business: <u>Corporation</u> (Corporation, partnership, sole proprietor, etc.)		an Diego, CA 92113 619.937.1010
Authorized person to sign contracts: Travis Name	Brozowski	President Title
Pursuant to the existing Job Order Contract (MTS Doc to Contractor to complete the detailed Scope of Work (the Scope of Work (attached as Exhibit B.), and the storder (attached as Exhibit C.) TOTAL PAYMENTS TO CONTRACTOR SHALL NOT	attached as Exubcontractor list	hibit A.), the Cost Breakdown for ting form applicable to this Work
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	ABC GE	ENERAL CONTRACTOR, INC.
By:Sharon Cooney, Chief Executive Officer	Firm:	
Approved as to form:	By:	ignature
By:Karen Landers, General Counsel		ig.i.a.tai.o

EXHIBIT A (Scope of Work)

San Diego Metropolitan Transit System

1255 Imperial Ave San Diego, California 92101

Date: 8/15/2023

Job Order Contracting

Final Scope of Work

Contract No: PWG347.0-22

Job Order No: MTSJOC347-05

Job Order Title: Grantville Hardscape and Landscape Improvements

Location: Grantville Station

4510 Alvarado Canyon Rd San Diego, CA 92120

Brief Scope of Work:

To:

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

From:

SECTION 7- SCOPE OF WORK/MINIMUM TECHNICAL SPECIFICATIONS

SECTION 7-1 GENERAL

The Grantville Transit Center is currently undergoing multiple redevelopment projects. A large portion of that work is improvements to both the landscape and hardscape currently existing at the station, including landscape irrigation.

All work is to occur within 4510 Alvarado Canyon Road, San Diego, CA 92120.

SECTION 7-2 STAGING

Contractor is to keep and store all materials and equipment within the work area as possible. Any further staging would have to be coordinated with the MTS Project Manager. There may be some available space within or adjacent to the Grantville Transit Center. All property stored onsite is the responsibility of the contractor and MTS shall not be held liable for any and all equipment, material, tools, etc.

SECTION 7-3 TEMP FACILITIES

The contractor is to provide their own temporary restrooms and wash facilities as needed. Contractor is responsible for temp power and water.

Final Scope of Work And age 1 of 3

Contractor will also be responsible for providing appropriate and adequate temporary barricades (fencing) to ensure clear delineation between phases and to ensure public does not enter active construction zone during or after work hours.

SECTION 7-4 SAFETY AND ACCESS

Diligent caution must be taken during the undertaking of this work. All work will occur within an active transit center surrounded by the general public. Special precautions must be taken in order to ensure public safety and usability of the station for the duration of the project. There is extremely limited parking, and no equipment or materials may impede bus traffic at any point during revenue hours.

SECTION 7-5 WASTE

The contractor is responsible for legally disposing of any and all waste in relation to the work. The contractor shall not use any onsite receptacles to dispose of material generated during the performance of this contract. Contractor is responsible for general cleanup at the end of each work day.

SECTION 7-6 SCHEDULE AND SEQUENCING

All work shall be completed within Ninety (90) calendar days from issuance of Notice to Proceed. It is assumed there will be some lead time for some items, which is included in the duration. The work shall commence once all material is available and the work can proceed without stoppages. Phasing of this project will be necessary to ensure that there is always access to at least One (1) TVM, (2) Validators, and (1) Stair/elevator tower. A proposed phasing plan is attached. Contractor will be responsible for providing phasing plan for approval. MTS will ensure full completion of phase 1 prior to releasing the contractor to being phase 2 work.

SECTION 7-7 DETAILED SCOPE OF WORK:

Contractor will be responsible for any and all scope in provided renderings. Scope includes but is not limited to: demo and replacement of existing concrete flat work, movement of existing utilities to new locations to receive MTS TVMs and validators, removal and replacement of landscaping and associated irrigation, removal of old wall facia and application of new stucco, placement of new VMS poles with power and data service loops to receive new VMS signs to be installed by MTS, and new area lighting. Refer to provided renderings for full scope of work.

Contractor will also be responsible for delivery and installation of 1 bus shelter and 2 stone benches from MTS yard. Contractor will be responsible for extending existing legs of 2 shelters (1 delivered, 1 existing on site) in order to allow for new footings. Contractor will be responsible for installation of 2 shelters (1 delivered, 1 existing on site) with new footings and (4) total benches with footings.

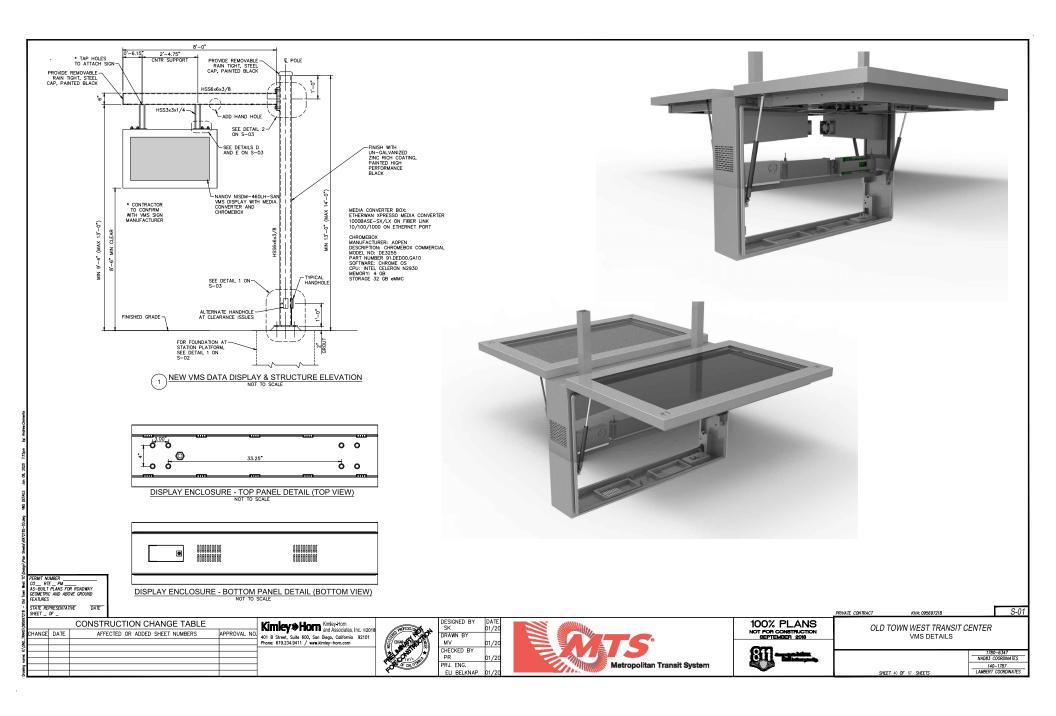
Final Scope of Work

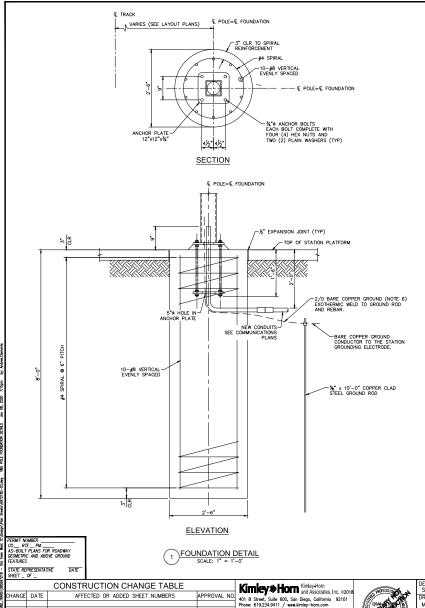
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Eli Polknon Monogor of Conital Projects	
Eli Belknap, Manager of Capital Projects	Date
Noah Cappadocia, Project Manager	Date

Final Scope of Work

Affage 3 of 3





A. STRUCTURAL DESIGN CRITERIA

- 1. APPLICABLE CODE: 2013 CBC (CALIFORNIA BUILDING CODE)
- 2. MINIMUM LOADING REQUIREMENTS PER CHAPTER 16 OF THE CBC. SEE SPECIFIC FACILITY PLANS FOR LIVE LOADS NOT INDICATED BELOW.
- 3. RISK CATEGORY II.
- 4. LIVE LOADS: ROOF 20 PSF (UNREDUCED)
- 5. WND LOAD:

WIND SPEED = 110-MPH (3 SECOND GUST) EXPOSURE C TOPOGRAPHIC FACTOR = 1.00 GUST FACTOR = 0.85

6. SEISMIC LOAD: SEISMIC PARAMETERS (DESIGN)

SEISMIC PARAMETERS (DESIGN Sds = 1.07 Sd1 = 0.64 SOIL SITE CLASS D IMPORTANCE FACTOR = 1.25 SEISMIC DESIGN CATEGORY D

7. GEOTECHNICAL DESIGN PARAMETERS: (PENDING GEOTECHNICAL REPORT) A. NET ALLOWABLE BEARING PRESSURES (MAY BE INCREASED BY 1/3 FOR LOAD COMBINATIONS THAT INCLUDE WIND OR SEISMIC LOADS):1500 PSF

8. LATERAL EARTH PRESSURES: PENDING GEOTECHNICAL REPORT. PASSIVE = 250 PSF/FT

B. GENERAL STRUCTURAL INFORMATION

- T. FOR ABBREWATIONS NOT LISTED, SEE ASME Y14.38 "ABBREWATIONS AND ACRONYMS" PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
- DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE KEYLD IN EACH LOCATION.
- 3. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS A GUARANTOR OF THE CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SECOLAL INSPECTIONS, COORDINATION, SUPERVISION, NOR SAFETY AT THE JOB SITE.
- SPECIAL INSPECTION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH 2013 CBC CHAPTER 17 AND SECTION 108 ON THE FOLLOWING PORTIONS OF THE WORK: THE PROPERTY OF THE WORK: THE PROPERTY OF THE STRUCTURAL WELDING ANCHORS, EMBELS AND BOLTS INSTALLED IN CONCRETE

ALL SPECIFIED CONCRETE TESTING DURING CONSTRUCTION WILL BE OWNER FURNISHED. ALL SPECIFIED LABORATORY TEST MIXES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

- SEE STRUCTURAL STEEL AND CONCRETE NOTES HEREON FOR GENERAL STRUCTURAL NOTES.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 SPECIFICATION.
- 3. REFER TO ELECTRICAL AND COMMUNICATION PLANS FOR POWER AND COMMUNICATIONS CONDUIT QUANTITY AND SIZES AND PULL BOX LOCATIONS,
- INSTALL VINYL TAPED SCHEDULE 40 PVC CONDUIT IN CONCRETE FOUNDATION WITH COUPLET TO SCHEDULE 40 PVC CONDUIT UNDER PLATFORM.
- ANCHOR BOLTS AND ANCHOR PLATE SHALL BE GALVANIZED, CONFORMING TO THE PROVISIONS OF SECTION 75, "GALVANIZING" OF THE STANDARD SPECIFICATIONS.
- THE BARE GROUND CABLE SHALL HAVE A TAIL OF 2'-6" ABOVE TOP OF FOUNDATION.
- 7 SEE SHEET S-01 AND S-03 FOR VMS POLE DETAILS

- ALL CONCRETE FOR STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH
 OF 4000 POUNDS PER SQUARE INCH AT 28 DAYS EXCEPT AS NOTED.
- REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A615, GRADE 60, DEFORMED. REINFORCING BARS SHOWN ON THE PLANS TO BE WEDLED SHALL BE NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A706, GRADE 60, DEFORMED.
- 3. CONCRETE DESIGN IS IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-10). AND 2013 CBC.
- DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI SP-66(04)).
- 5. CONCRETE COVER FOR REINFORCEMENT BARS SHALL CONFORM TO THE FOLLOWING, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH . 3 INCHES B. CONCRETE EXPOSED TO EARTH OR WEATHER . 2 INCHES
- CHAMFER EXPOSED CONCRETE EDGES ¾ INCH X ¾ INCH UNLESS NOTED OTHERWISE. CONCRETE PEDESTALS SHALL NOT RECEIVE CHAMFERS.
- CONCRETE JOINT LOCATIONS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO START OF WORK.
- 8. UNLESS NOTED ON THE DRAWINGS, CONCRETE FORMED AND UNFORMED SURFACES SHALL RECEIVE FINISH NOTED IN SPECIFICATIONS.

E. STRUCTURAL STEEL

- 1. PLATES, BARS, AND ANGLES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- 2. HSS RECTANGULAR MEMBERS SHALL CONFORM TO ASTM A500, GRADE B (46 KSI).
- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC CODES AND SPECIFICATIONS. INCLUDING THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS.
- 4. EXPOSED OR PARTIALLY EXPOSED STRUCTURAL STEEL SHALL BE FABRICATED AND INSTALLED PER THE "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" SECTION OF THE AISC MANUAL AND THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS. STEEL NOT CONFORMING TO THESE TOLERANCES WILL BE REJECTED AND REFRABRICATED AT NO EXPENSE TO THE OWNER. SEE DRAWNOS FOR LOCATIONS OF ARCHITECTURALLY EXPOSED STEEL.
- 5. SHOP CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH BOLTS OR BY WELDING, FIELD CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH BOLTS, EXCEPT WHERE WELDING IS INDICATED ON THE DRAWNINS, INGH-STRENGTH BOLTS SHALL CONFORM TO ASTEM DESIGNATION A232 BEARING TYPE CONNECTION WITH THEADS INCLUDED IN SHEAR PLANE UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE \$\frac{1}{2}\$ INCH DAMETER UNLESS NOTED OTHERWISE.
- 6. ALL WELD SIZES, NOT INDICATED SHALL COMPLY WITH THE LATEST AWS D1.1 BUT IN NO CASE SHALL WELD SIZE BE LESS THAN $\frac{1}{16}$ INCH.
- 7. NATURAL MILL CAMBER OF BEAMS SHALL BE PLACED UP.
- 8. THE STRUCTURAL BEAMS ARE NOT DESIGNED FOR USE AS LIFT BEAMS.
- 9. ADEQUATE TEMPORARY BRACING SHALL BE PROVIDED DURING CONSTRUCTION.
- 10. MINIMUM THICKNESS OF STRUCTURAL STEEL SHALL BE 1/4 INCH UNLESS NOTED OTHERWISE.

KHA: 095697218

S-02

OLD TOWN WEST TRANSIT CENTER

100% PLANS

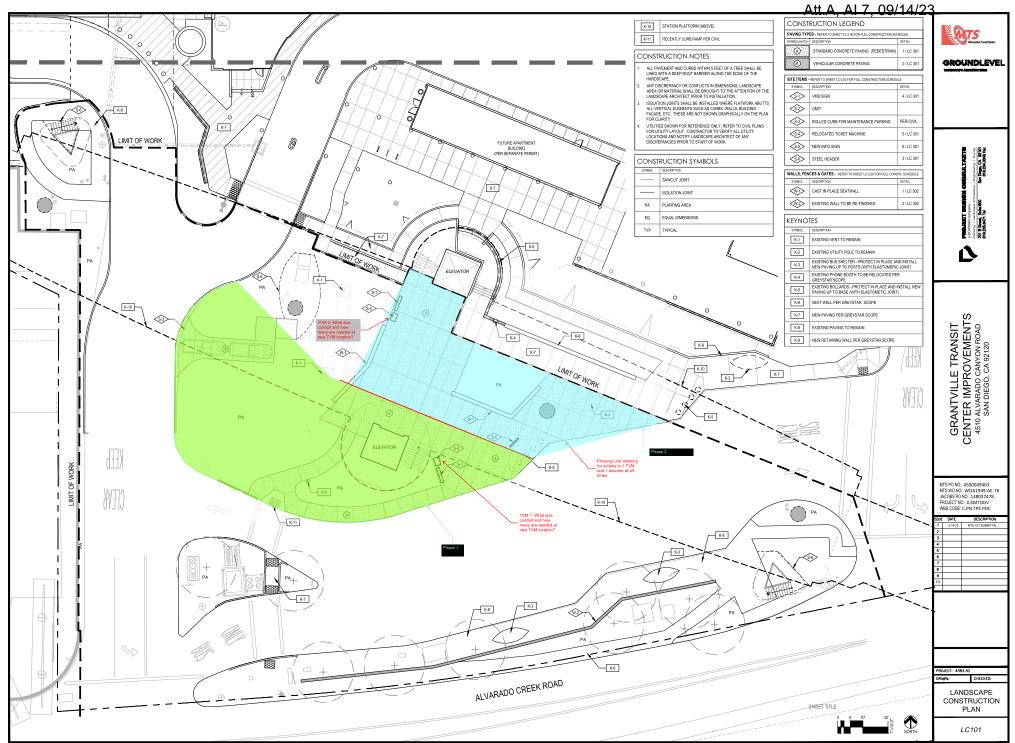
VMS POLE FOUNDATION DETAILS

SHEET 41 OF 57 SHEETS

NAD83 COORDINATES 140-1787 LAMBERT COORDINATES

CHECKED B PRJ. ENG FIL BELKNAF









GRANTVILLE TRANSIT CENTER IMPROVEMENTS 4510 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

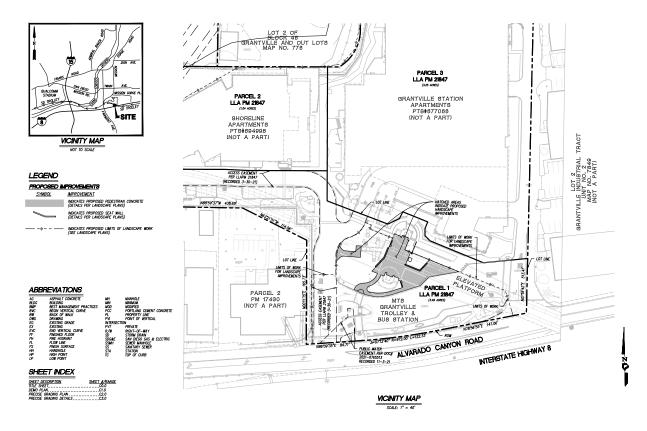
MTS PO NO.: 4500049463 MTS WO NO.: WOA1949-AE-76 JACOBS PO NO.: 148037478 PROJECT NO.: JLXMTDGV WBS CODE: C.PN.TPE.PDC

ROJECT:	4383.30	

TITLE SHEET

C0.0

PRECISE GRADING PLANS FOR: MTS GRANTVILLE TRANSIT CENTER IMPROVEMENTS



OWNER/APPLICANT

METROPOLITAN TRANSIT DEVELOPMENT BOARD 1255 IMPERIAL AVENUE, SUITE 1000 SAN DIEGO, CA 92101

SITE ADDRESS

4520 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

ASSESSORS PARCEL NUMBER

TOPOGRAPHY SOURCE

PROJECT DESIGN CONSULTANTS SURVEYS
70' B STREET, SUTE 400,
MAI DECO, CA SUTE 500,
TOPOGRAPH'S SUM ON THIS SURVEY IS BASED
UPON AN ARMA SUNWEY BY PROJECT DESIGN
CONSULTANTS IN MOVEMBER 28, 2018.

BENCHMARK

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THESE PLANS IS THE CALIFORNIA COGROWATE SYSTEM OF 1983, ZONE 6, EPOCH 1991,35 GRO BEARING BETWEEN 1ST ORDER G.P.S. STATION 217 AND 1ST ORDER G.P.S. STATION 100 PER ROS 14492. OFFICE G.P.S. STATION 160 PEP ROS 14492.
LE, NORTH 84'3159" WEST.
DISTANCES SHOWN HEREON ARE GROUND DISTANCES. TO
OFFIAN GROD LEVEL DISTANCES, MUTPLY DISTANCES BY
LOCOCOLOGI. QUOTED BERAINGS FROM REFERENCE
DEEDS/MAPS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

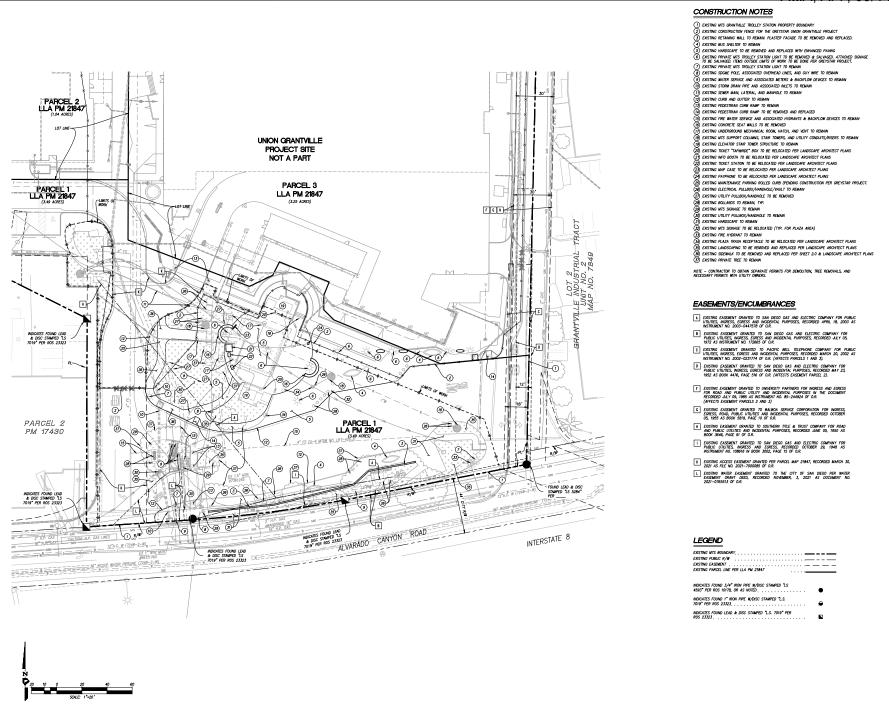
LEGAL DESCRIPTION

PARCEL 1 OF ILA PARCEL MAP NO. 21847

REFERENCE DRAWINGS

7248-W, 26215-D, 12496-D, 17065-D, 21647-D, 22201-D, MTS GRANTVILLE STATION MTDB CONTRACT NO. LRT-426.3

Att A ALT 09/14/23



Metropolitan Transit Syria



GRANTVILLE TRANSIT CENTER IMPROVEMENTS 4510 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

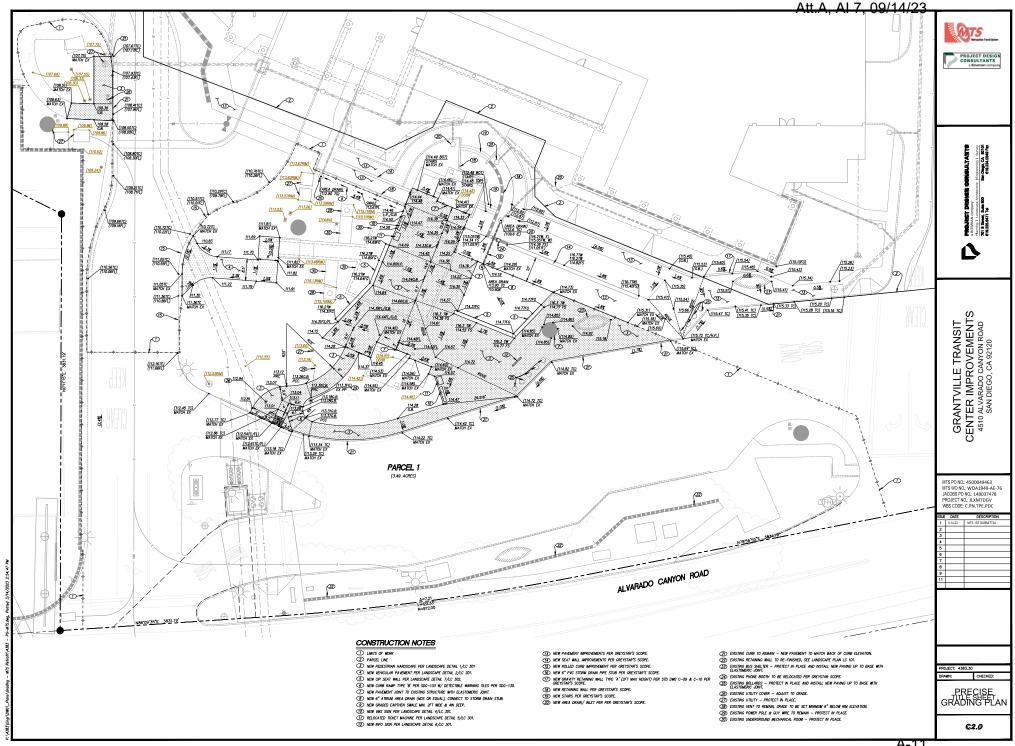
MTS PO NO.: 4500049463 MTS WO NO.: WOA1949-AE-76 JACOBS PO NO.: 148037478 PROJECT NO.: JLXMTDGV WBS CODE: C PN TEF PDC

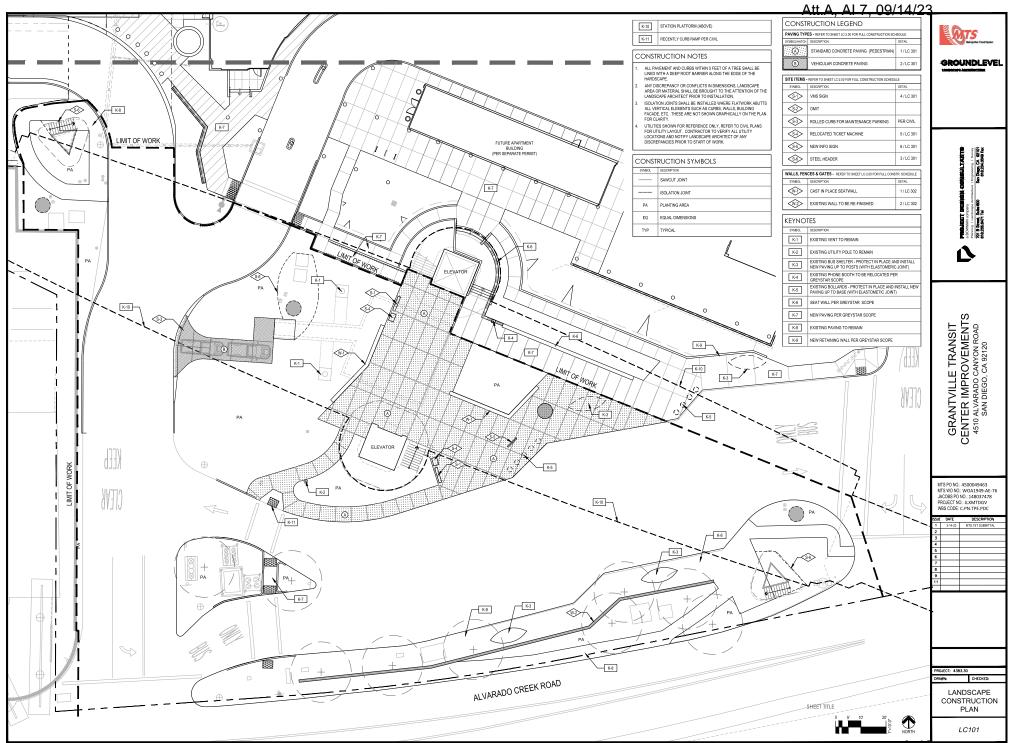
1	3-14-23	MTS 1ST SUBMITTAL
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PROJECT: 4383.30

DEMO PLAN

C1.0





LANDSCAPE CONSTRUCTION SCHEDULE

P.	AVING TYPE	is .						
	SYMBOL	DESCRIPTION	MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
	A	STANDARD CONCRETE PAVING (PEDESTRIAN)	LOCAL BATCH PLANT			TOPCAST - LIGHT (MATCH GREYSTAR	MATCH GREYSTAR INSTALLATION PROVIDE MOCK-UP FOR REVIEW & APPROVAL	1 / LC 301
	®	VEHICULAR CONCRETE PAVING	LOCAL BATCH PLANT	TYPE 2 CONCRETE - INTEGRAL COLOR	DAVIS "ADOBE" #61078	HEAVY ETCH	PROVIDE 4X4 MOCKUP FOR REVIEW	2 / LC 301

SITE ITEMS							
SYMBOL	DESCRIPTION	MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
\$ -1>	VMS SIGN	PER MTS STANDARDS				PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL BY MTS	4 / LC 301
⟨\$2⟩	OMIT						
<\$3>	MAINTENANCE PARKING WITH ROLLED CURB	PER CIVIL					PER CIVIL
\$4	RELOCATED TICKET MACHINE	EXISTING; PRESERVE & RE	LOCATE			RE-PAINT & REFURBISH PER MTS DIRECTION	5 / LC 301
\$ -5 >	NEW INFO SIGN	PER MTS STANDARDS				PROVIDE SHOP DRAWINGS FOR REVIEW & APPROVAL BY MTS	4 / LC 301
\$6	STEEL HEADER	J.D.RUSSELL	DURAEDGE, HEAVE DUTY 1/4" THICKNESS X 5" DEPTH	NATURAL	UNFINISHED	STAKES SHALL BE INSTALLED ON PLANTING SIDE OF EDGING	3 / LC 301

_										
V	WALL, FENC	ES, & GATES								
Г	SYMBOL	DESCRIPTION		MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL	
	₩ -1>	CAST IN PLACE SEATWALL		LOCAL BATCH PLANT	TYPE 2 CONCRETE	NATURAL GREY	LIGHT ETCH	PROVIDE MOCK-UP (4' LONG) FOR REVIEW & APPROVAL PRIOR TO INSTALL	1 / LC 302	
Г	⟨W-2⟩		PLASTER OMEGA		INTEGRAL COLOR PLASTER	TBD	TBD	PROVIDE MOCK-UP FOR REVIEW &	2 / LC 302	
	~~	EXISTING WALL TO BE RE-FINISHED ANTI-GRAFFITI CO.		PER MTS STANDARDS	TBD	N/A	N/A	APPROVAL PRIOR TO INSTALL	2720002	

CONSTRUCTION NOTES

- 1. THE LANGSCAPE ARCHITECT SHALL REVEW ALL HARDSCAPE FORM WORK PRIOR TO CONCRETE POURS. NOTIFY THE LANGSCAPE ARCHITECT (72) HOURS PRIOR TO PORTISE A ANNA MAIR.

 AN INSCREPANCY OR CORFLICTS IN DIMENSIONS, LANDSCAPE ARC OR MATERIAL SHALL BE BROUGHT TO THE EDGE OF THE HARDSCAPE.

 ANY DISCREPANCY OR CORFLICTS IN DIMENSIONS, LANDSCAPE ARC OR MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANGSCAPE ARCHITECT PRIOR TO INSTITULATION.

 ISOLATION LONTS SHALL BE INSTALLED WHERE FLATWORK ABUTTS ALL VERTICAL ELEMENTS SUCH AS CURBS, WALLS BUILDING FACADE, ETC. THESE ARE NOT SHOWN DEPENDENCY OF THE PERFORMENCE OF THE CONTRACTOR TO VERREY ALL UTILITY LOCATIONS AND NOTIFY OF THE PROPOSALS WILL BE EVALUATED ABORDON THE PROVISIONS DETAILED IN THE CONTRACT SPECIFICATIONS. SPECIFIC EVALUATION CRITERIA ROLLUDING PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED IN THE CONTRACT SPECIFICATIONS. SPECIFIC EVALUATION CRITERIA ROLLUDING PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED IN THE CONTRACT SPECIFICATIONS. SPECIFIC EVALUATION CRITERIA ROLLUDING PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED BY THE CONTRACT SPECIFICATIONS. SPECIFIC EVALUATION CRITERIA ROLLUDING PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED BY THE CONTRACT SPECIFICATIONS. SPECIFIC DISTONATION SPECIFICATION SECREDIAL SUBSTITUTIONS PROPOSALS WILL BE EVALUATED BASED ON THE PROVISIONS DETAILED BY THE CONTRACT SPECIFICATIONS. SPECIFIC DISTONATION SPECIFICATION SECREDIAL SECRETICATION SECRED PROPOSAL SECRETICATION SECRED SECRETICATION SECRED SECRETICATION SECRED SECRETICATION SECRED SECRED SECRED SECRETICATION SECRED SECRED SECRED SECRETICATION SECRED S



GROUNDLEVEL



GRANTVILLE TRANSIT CENTER IMPROVEMENTS 4510 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

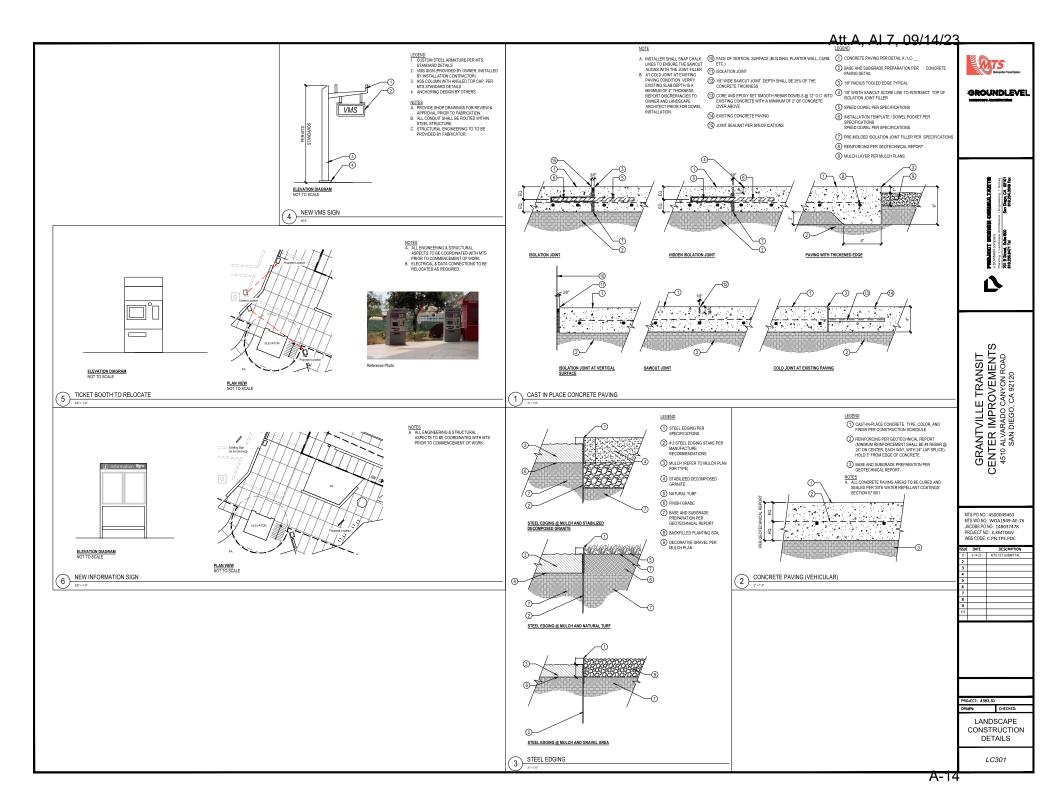
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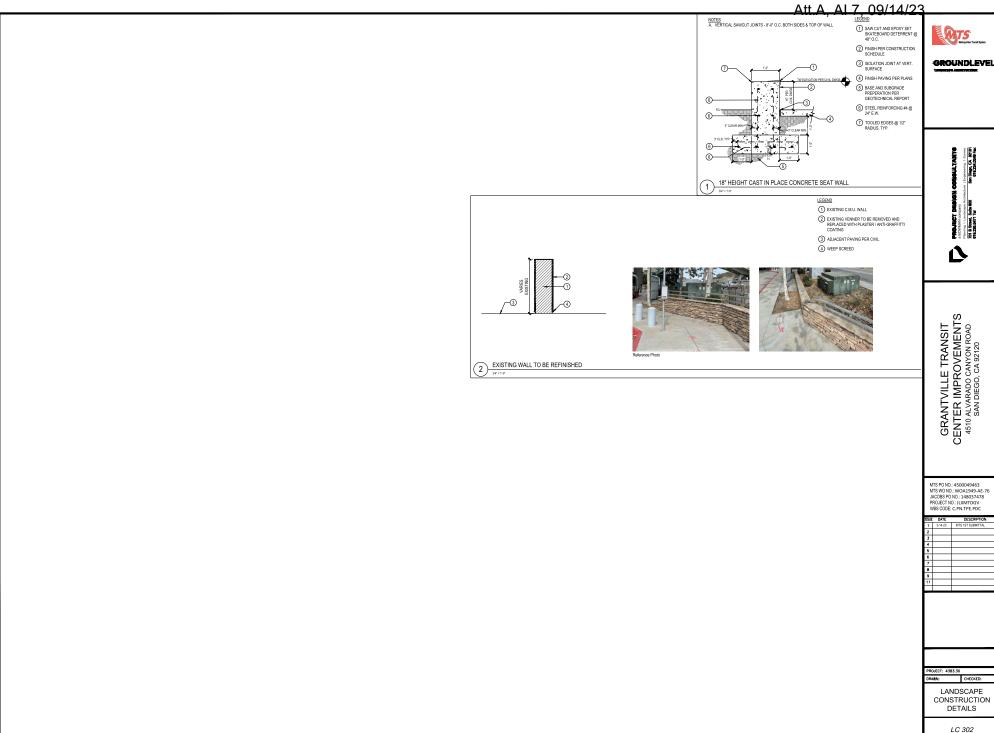
ISSUE	DATE	DESCRIPTION
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PROJECT: 4383.30 CHECKED:

LANDSCAPE CONSTRUCTION LEGEND

LC 200





69JE	DATE	DESCRIPTION
1	3-14-23	MTS 1ST SUBMITTAL
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IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIEV THE LOCATIONS OF ILL DESTINOUTLERS STRUCTURES AND SERVICES SEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE OUTLY. AND INSCREPANCIES BETWEEN THESE PLANS AND ACTUAL PIELD CONDITIONS SHALL BE REPORTED TO THE OWNERS REPRESENTATION.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WERRIN IS OBVIOLS IN THE FIELD THAT LIANGOWN CONDITIONS SIXET THAT WERE NOT EVIDEN THE ATTENDED OF THE OWNERS FOR THE PROPERTY OF THE OWNERS OWNERS OF THE OWN
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS, CONTRACTOR SHALL
 BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH
 EQUIPMENT AND INSTALLATION.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE EXISTING IRRIGATION BACKFLOW PREVENTER IS TO BE FIELD VERIFIED WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE NEW AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR IS TO PROVIDE AN FIVE (5) PLOT WIRES FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LASEL SPARE WIRES AT BOTH ENDS.
- 10. ALL PIPE UNDER PAYED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WRIE UNDER PAYED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SEE REQUIRED TO EASY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12º PAST THE EDGE OF THE PAYED.
- 11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 12. ALL HADA RETO BE RISTALLED WITHIN 16 NOZILE, SCREEN AND ACS SHOWN ON THE PLANS. ALL HADA RETO BE ADAPTED TO PREVENT OWERPHAY ONTO BLADONGS, WALLS, ENCESS ALL HADA RETORD ACTION AND ALL THAT AND ACTION AND ALL THAT AND ACTION AND ALL THAT AND ACTION ACTION AND ACTION AND ACTION AND ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION AND ACTION AND ACTION ACTION ACTION AND ACTION A
- CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
- 14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEEDLY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND MECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
- 15. THE CONTRACTOR IS REQUIRED TO CONTACT DISALERT OR 811 A MINIMAM OF TWO (2) DAYS PROOR TO THE START OR ANY EXCAVATIONS ON THE PROJECT AND SHEEPICALLY PRIOR TO THE START OR ANY EXCAVATIONS ON THE PROJECT AND SHEEPICALLY PRIOR TO THE START A PROJECT TO THE TO THE START A PROJECT TO THE TO THE START AND AT 18 A THE SERVICE PROVIDED TO THE PROJECT FAULURE TO CONTACT AND HAVE THE EXISTING UTLITES IDENTIFIED, LOCATED AND MAYED SHALL MIXED THE CONTRACTOR SOLELY RESPONSIBLE FOR NAY AND ALL DAMAGES.

This worksheet is:

WATER EFFICIENT LANDSCAPE WORKSHEET

							Project Name:	Grantville	Transit Cer	ter Improv	ements			
							Project Address:			n Road				+ associat
							Reference Evapo	transpirat	ion (ETo)	46.5	In./Yr.	Residentia	l Project?	No
							Hydrozone # / Planting Description*	Plant Factor	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated To Water Use (ETWU) ⁶
							Regular Landscap	e Areas						
							Low Water Use Plantings	0.20	Overhead	0.75	0.27	8,897	2,402	69,255
	ESSURE						2. Moderate Water Use Plantings	0.40	Overhead	0.75	0.54	1,176	635	18,308
	1					1.50					Totals:	10,073	3,037	
						100.0	Special Landscape	Areas						
	440										Totals:	0	0	
					SIZE (III.)									
	30				HEST HEAD	30			Maxim	um Applie	d Water A	Allowance (MAWA)*:	130,682
G81129 251159 AND CONSELTING	OTHER PER					DEN WITHOUT	1.) Front Lawn			Overhead . Drip	Spray of			
			FLOW	#	LOSS									
							3.) Medium Water Us	ie Plantings						
		ELLS)					Where 0.62 is a conve	ersion factor	that conve	rts acre-inci	nes/acre/y	ear to gallor	s/square f	oot/year.
	.VC	_				per								
	LL TYPE)		30	9	1.00	PSI								
			30	10	3.38	PSI								
			30	13	0.41								rea in squi	are feet,
	VE ASSEMBL	Υ.					and ETAF is 0.55 for n	esidential p	rojects and	0.45 for non	-residentic	I projects.		
	1011 80 81 80						Evanoteaneniention (diurtment	Earter /ETA	El Colculati	one			
								-						
			I N/A				This non-residential	project com	plies with t	he WELO an	d its avera	ge ETAF is le	ess than	0.45
				18	33.1 45.0	PSI								
							Regular Landscape Ar		1	All Landsca				
REQUIRED AT HEAD (OPE			_											
SSURE REQUIRED (SUM C	F #18 AND #1			20	78.1	PSI	Total ETAF x Area	3.037		Total ETAF		3.037		
	F #18 AND #1 IOVE)			20 21 22	78.1 100.0 21.9	PSI PSI PSI					x Area	3,037 10,073		
	TER NAMER GROVE LINE (FT) PEFFER KEE (FT) PEFFER KEE (FT) PEFFER KEE (FT) PEFFER KEE (FT) BECH (FT) BEC	EFINAMER GROCE LINE PT GROCE LINE LINE LINE LINE LINE LINE GROCE LINE LINE LINE LINE GROCE LINE LINE LINE GROCE LINE LINE GROCE GROCE	ER MAMER P GROCE LIME 97 MIN RICK STORY MIN RICK ST	ERMANER 1 EXPINE WATER 1 EXPIRE WATER 1 WATER BETTER WATER PRESSURE PRESS	ERIAMBER ENTRE WESTER ENTRE WESTER	GRACE LIKE #P) WINTER KEE RELEVANCE #P) WINTER KEE RELEVANCE #P) WINTER KEE RELEVANCE #P) VOICE VOICE	EFFANARER 1	Reference Expand Press P	WATER PRESSURE LOSS CALCULATIONS WATER PRESSURE LOSS CALCULATIONS IF NAMED	WATER PRESSURE LOSS CALCULATIONS WATER PRESSURE LOSS CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER PRESSURE LOSS CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WATER WETER CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WETER CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WETER CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WETER CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WETER CALCULATIONS IF MANAGER DOBTEC WATER ME TER 500 (Dotte) WATER WETER CALCULATIONS IF MANAGER DOTTE CENTRE WATER SET	Reference Cusport analysis ASS Network Course Note Associate Region Associate Reg	Project Address:	Reference Proportemagnization (Tr)	Reference Cycapte analysis Pietral Impaired Pietral Pietral

0.00 ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17 0	L00 P	SI		This non-		- Localia		and the second						0.45
OTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			3.1 P			Inis non-	residenti	ai projec	comprie	s with ti	e WELO	ina its av	erage E	AF IS IESS	tnan	0.45
RESSURE REQUIRED AT HEAD (OPERATING PRESSURE)		19 4	5.0 P						_			-	_	_		
OTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			8.1 P			Regular L			_		All Lands			_		
ATIC WATER PRESSURE (FROM ABOVE)			00.0 P			Total ETA			037		Total ETA			037		
SIDUAL PRESSURE (SUBTRACT #20 FROM #21)			1.9 P			Total Are			,073		Total Are			,073		
ET PRV OR MCV AT (#20 PLUS 10 PSI)			(/A P			Average	ETAF		1.3		Average	ETAF		0.3		
RESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RES	SIDUAL)	24 1	(/A P	SI												
					IRRIG	ATION C	ONTRO	DLLER	RUN TI	MES						
POC or Controller	_			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total / Avg.
POC or Controller	-	ETo / Month	(In about		2.40		4.60	5.10	5.30	5.70	5.60	4.30	3.60	2.40	2.00	46.50
Λ.	_		(Inches):	0.07	0.09		0.15	0.16	0.18	0.18	0.18	0.14	0.12	0.08	0.06	0.13
A	ler	igation Day		2	2	3	3	5	5	6	6	5	3	2	2	0.10
												-				-
Plant / Irrig. Type	AKc			JAN	FEB		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	_
Low Shrubs	0.20		0.75	5.4	6.9	5.8	8.2	5.3	5.7	4.9	4.8	4.6	6.2	6.4	5.2	Min./Day/Zone
Rotary Heads	Numbe	r of Zones:	5	27.1	34.3	29.2	40.9	26.3	28.3	24.5	24.1	22.9	31.0	32.0	25.8	Total Min/Da
Low Shrubs	0.20	1.00	0.75	3.8	4.8	4.1	5.7	3.7	4.0	3.4	3.4	3.2	4.3	4.5	3.6	Min /Day/Zone
Shrub Bubblers	Numbe	r of Zones:	5	19.0	24.0	20.5	28.6	18.4	19.8	17.2	16.9	16.1	21.7	22.4	18.1	Total Min/Da
						-										
Moderate Shrubs	0.40	0.70	0.75	10.8	13.7	11.7	16.4	10.5	11.3	9.8	9.6	9.2	12.4	12.8	10.3	Min /Day/Zone
Rotary Heads	Numbe	r of Zones:	1	10.8	13.7	11.7	16.4	10.5	11.3	9.8	9.6	9.2	12.4	12.8	10.3	Total Min/Da
Moderate Shrubs	0.40	1.00	0.75	7.6	9.6	8.2	11.4	7.4	7.9	6.9	6.7	6.4	8.7	9.0	7.2	Min /Day/Zone
Shrub Bubblers		r of Zones:	2	15.2	19.2		22.9	14.7	15.8	13.7	13.5	12.8	17.3	17.9	14.5	Total Min/Da
United Belleville	premine	T OT BOTTON	-	TOIL	1012	10.4	LAID	140	10.0	1011	14.0	12.00	1110	111.0	14.0	100010000
Moderate Trees	0.50	1.00	0.75	9.5	12.0	10.2	14.3	9.2	9.9	8.6	8.4	8.0	10.8	11.2	9.0	Min /Day/Zone
Bubblers	Numbe	r of Zones:	2	19.0	24.0	20.5	28.6	18.4	19.8	17.2	16.9	16.1	21.7	22.4	18.1	Total Min/Da
		r of Zones:	15	91	115	98	137	88	95	82	81	77	104	108	87	Total Min /Day
		r Run Time		1.52	1.92		2.29	1.47	1.58	1.37	1.35	1.28	1.73	1.79	1.45	Total Hrs./Da
Ioui	Controlle	r Run Time	in nours:	JAN	FEB		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total His/Da
	_	_	_	JAN	PED	MAR	AFR	MAI	JUN	JUL	AUG	OEF	001	NOV	DEC	_
Note	represe	ent the MAX	MUM REA	SONAB lo not in	LE run t	times and infall, site	are used	to ensures, speci	e that all	l irrigati sures (sì	on may b	e comple us sun), a	ted dur	ng the sp	ecific w	e calculations ratering windo specific slope
																t of irrigation
																provided ET
							as requir	ed. Conf	ractor sh	all prov	de a con	troller sc	hedule i	nside the	control	ler cabinet pri
		turnover of														

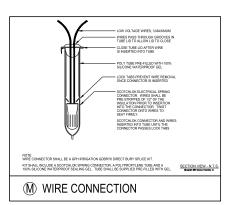
IRRIGATION MATERIAL LEGEND

		IRRIGATION WATERIAL LEGEND					
Q T H F	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRL)	DETAIL
	RAIN BIRD	RD-12-S-P45-F 12" POP-UP SHRUB HEAD WITH R-VAN14 (Q/T/H) / R-VAN14-360 NOZZLES	.32, .42, .63, 1.27	45	14 FT	0.70 INJHR.	A
0 0 0 0	RAIN BIRD	RD-12-S-P45-F 12" POP-UP SHRUB HEAD WITH R-VAN18 (Q/T/H) / R-VAN18-360 NOZZLES	.50, .62, 1.17, 1.85	45	18 FT	0.70 IN./HR.	A
● ● ⊕ ●	RAIN BIRD	RD-12-S-P45-F 12* POP-UP SHRUB HEAD WITH R-VAN24 (Q/T/H) / R-VAN24-360 NOZZLES	.84, 1.16, 1.68, 3.48	45	24 FT	0.70 IN./HR.	A
	RAIN BIRD / GPH	RD-04-S-P30-F 4" POP-UP BUBBLER WITH A PA-80 SHRUB ADAPTER AND A GPH SPEC-CHECK GPSTCV4 BUBBLER NOZZLE EACH SYMBOL REPRESENTS ONE BUBBLER PER SHRUB. FINAL BUBBLER DUNTITY SHALL BE ASSED ON FINAL PLANT QUANTITIES WITHIN EACH PLANTER	.07	30	1 FT	1.00 IN/HR.	A
▽	RAIN BIRD	ROAS 6° POP-UP BUBBLER HEAD WITH A NUMER MISBLEZG STREAM BUBBLER NOZZLE EACH SYMBOR DEPRESENTS TWO QUI BUBBLER TO PROVIDE A TOTAL OF THOX (2) BUBBLERS PER PER TIREE. PLACE THE BUBBLER HEADS SIK (6) INCHES FROM THE ROOT BALL OF THE TREE AND ON OPPOSTE SIDES OF TREE. ADJUST BUBBLES RITEAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE.	.25 (0.50 TOTAL)	30	1 FT	1.00 IN/HR.	A,B
M	EXISTING	EXISTING 1-1/2" POTABLE (DOMESTIC) DEDICATED IRRIGATION WATER METER #97381245 TO REM	MAIN: PROTECT-IN-PLACE	Œ			N/A
•	EXISTING	EXISTING 2" RIP IRRIGATION BACK FLOW PREVENTION DEVICE TO REMAIN; PROTECT-IN-PLACE.	SHOWN FOR REFEREN	CE ONLY	1		N/A
	WILKINS	500XL·HLR 2" BRONZE, HIGH LOW RANGE (10-125 PSI) PRESSURE REGULATOR, WITH SINGLE UNI REGULATOR INSIDE A STANDARD RECTANGULAR VALVE BOX. SET WATER PRESSURE TO 10 PSI.	ON FIPT X FIPT CONNE ABOVE DESIGN PRESS	CTIONS, URE SHO	INSTALL PE	RESSURE IC NOTES.	С
V	BUCKNER	3300-XX0 1-1/2" NORMALLY OPEN, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTRO ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL INSIDE A STANDARD RECTANGULA.	R VALVE BOX.				D
₽	CREATIVE SENSOR TECH.	1-1/2 PVC TEE, IMPELLER TYPE FLOW SENSOR INCLUDED AS PART OF CONTROLLER ASSEMBLY BY AUP AND WIRES INSIDE A 114" SCH. 40 PVC (GRAY) ELECTRICAL COMDIT, WITH MASTER CONRECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.	SPECIFIED BELOW, WI NTROL VALVE WIRES.	RE TO C	PER MANU	R USING TWO (2) FACTURER'S	E
>> 4	NIBCO	T-113 CLASS 125, BRONZE GATE VALVE WITH HAND WHEEL (UP TO 2° SIZE) FOR MAINLINE & VALVINSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.	E MANIFOLD ISOLATIC	N, LINE :	SIZE PER M	AINLINE.	F
•	RAIN BIRD	33LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JC	DINT. INSTALL INSIDE A	10° ROU	JND VALVE	BOX.	G
•	RAIN BIRD	XXX-EPB-CP-PRS-D PRESSURE REGULATING, BRASS REMOTE CONTROL. VALVE (RCV), SIZE AS 8 REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUIBBLER HEAD ATT VALVE ZONE (MEASURE PS) AT HEAD; INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VI	HE HIGHEST OR FARTI	SIZES), HEST HE	SET PRS-D AD ON THE	PRESSURE CONTROL	н
	IRRITROL / ITS	ICA6-IR1-24/SP/IRCUP/IFS-100 (MC-E BLUE SERIES) 24-STATION CONTROLLER ASSEMBLY. CONT ASSEMBLED TOP-ENTRY STAINLESS STEEL ENCLOSURE. FOR FURTHER ASSISTANCE CONTACT	ROLLER TO BE INSTAL DARYL GREEN WITH I.1	LED WIT	HIN A IMPEI 49-584-7311	RIAL	I,J
NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND THE REQUIRED LENGTH OF #8AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INS			ROD CLAW	IP AND	J
₽	ITS	RAIN SENSOR MOUNTED TO SIDE OF CONTROLLER ENCLOSURE. INCLUDED AS PART OF CONTROL	OLLER ASSEMBLY LIST	ED ABO	/E		N/A
(III)	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL I					N/A
	AS APPROVED	PVC PIPE 3/4" - 3" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTA			ADE		К
	AS APPROVED	PVC PIPE 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED					к
	AS APPROVED	PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" E					К
====	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUINDLE CARRIED (2 PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSI SHALL BE INSTALLED 24' BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL	DE SLEEVES. SLEEVES	SUNDER	R PEDESTRI	AN PAVING	L
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITLINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH	TE IN COLOR, AND SIZE	TO MAT D TO MA	CH THE MA	INLINE ATERAL	N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE US CEMENT. PRIMER SHALL BE LOW VOC PURPLE PRIMER: SOLVENT CEMENT SHALL BE LOW VOC USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SPIPE AND FITTING MANUFACTURERS RECOMMENDATIONS.	C, GRAY OR BLUE COLI	ORED 'M	EDIUM BOD	NED* CEMENT.	N/A
NO SYMBOL	AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR I PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES.					N/A
NO SYMBOL	PAIGE ELECTRIC	PJ7700 PQLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WRIE WIRES SHALL BE RED IN COLD CO. COMMON GROUND WIRE SHALL BE WITTE IN COLD, SPARSE WISHALL ROUTE TWO (2) SPARSE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE LOOP SPARSE WIRES UP AND INTO EACH VALVE BOX ALONG THE MANNUME. PROVIDING A 3 FOOT WEST ON THE PROJECT, BLOCH CONTROLLER SHALL HAVE DIFFERENT COLOR FOR PLOT WHIE	IRES SHALL BE YELLOW MAINLINE IN ALL DIRECT MINIMUM LOOP. WHE	VIN COL	OR, THE CO	ONTRACTOR THE CONTROLLER	K,L,M
NO SYMBOL	GPH IRRIGATION	GDBRY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON					м
NO SYMBOL	NDS (K.B.I.)	KSC.XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SI THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP	ZONES AS REQUIRED	TO PREV	ENT LOW F	HEAD DRAINAGE.	N/A
NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SI	DE OF EACH RCV WHE	N THE R	CV IS HIGHE	ER THAN	N/A
NO SYMBOL	EISEL	ALL IRRIGATION EQUIPMENT REQUIRING A VALVE BOX (BOTH CONCRETE AND LANDSCAPE) SHALL CONCRETE VALVES BOX WITH HINGED METALLIDS. ALL VALVE BOX LIDS SHALL BE EMBOSSED VIGHALLIDS. ALL VALVES BOX LIDS SHALL BE EMBOSSED VIGHALLIDS. ALL VALVES, BOX LOVERS FOR TO CONCRETE WITH LOCKING CAST RICK OVERSES FOR TO CONCRETE WITH LOCKING CAST RICK OVERSES. FOR RECTANGULAR VALVES EDGES LISE 12" X 2" MICKEL WITH LOCKING CAST RICK OVERSES."	VITH THE INITIALS OF I' OL VALVES, MASTER V. UND VALVE BOXES USE	IS CONT ALVE, FL	ENTS IN MI OW SENSO	N. 1-1/2" R. QUICK	N/A



HYDROZONE DESCRIPTION CHART								
NUMBER	DESCRIPTION OF THE HYDROZONE	WUCOLS	PLANT FACTOR					
HZ 1	LOW WATER USE PLANTINGS	L	0.20					
HZ 2	MODERATE WATER USE PLANTINGS	М	0.40					
H7.3	MODERATE WATER USE TREES	3.5	0.50					

IRRIGATION METHOD DESCRIPTION CHART									
LETTERS	DESCRIPTION OF THE IRRIGATION	TYPE	IR. EFFICIENCY						
R	ROTARY HEADS	ROTOR	0.75						
TB	TREE BUBBLERS	BUBBLER	0.75						
SB	SHRUB BUBBLERS	BUBBLER	0.75						



sweeney + associates IRRIGATION DESIGN AND CONSULTING

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN



CROWNDIEVE tenterspronensamespor

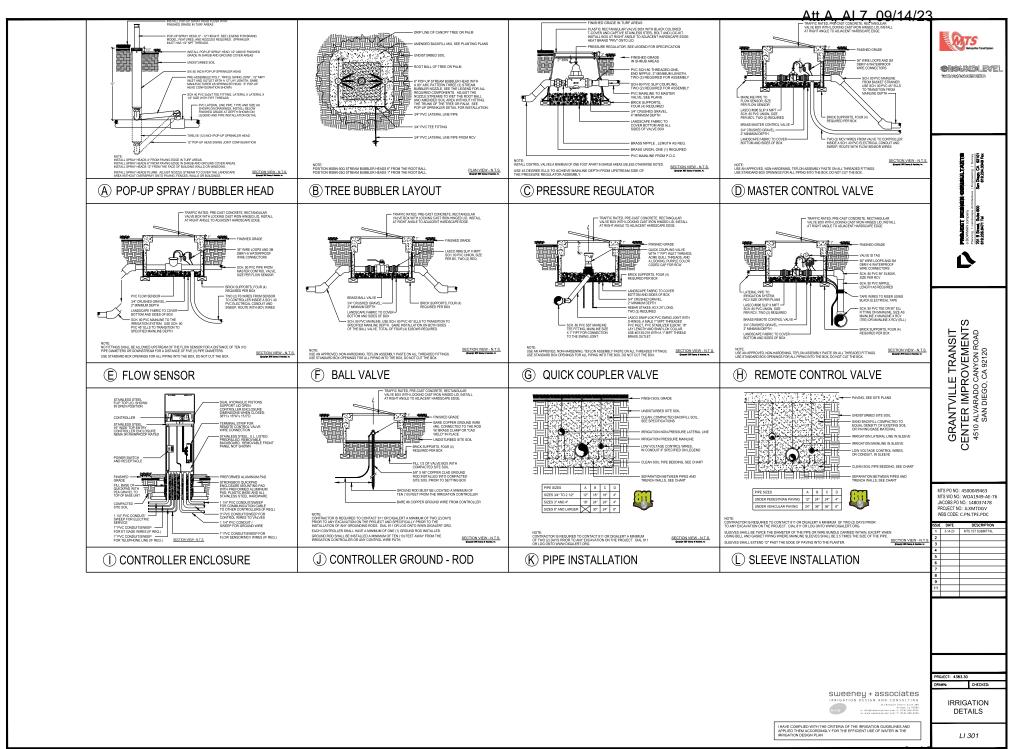
GRANTVILLE TRANSIT CENTER IMPROVEMENTS 4510 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

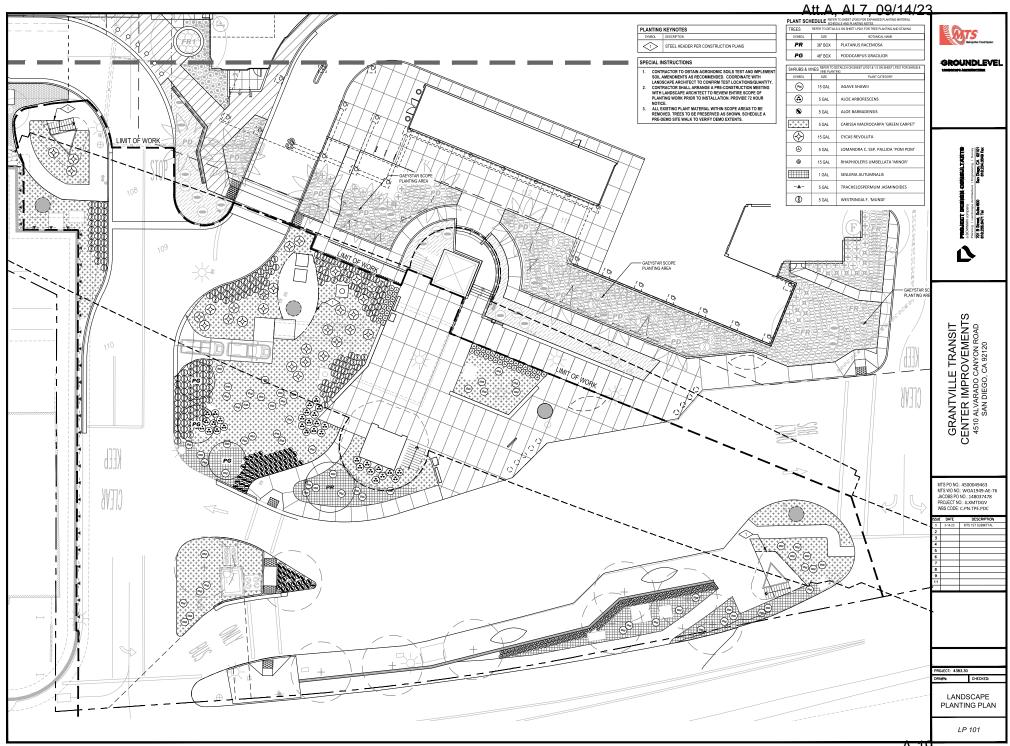
MTS PO NO.: 4500049463 MTS WO NO.: WOA1949-AE-76 JACOBS PO NO.: 148037478

	PROJECT NO.: JLXMTDGV								
W	WBS CODE: C.PN.TPE.PDC								
ISSUE	DATE		DESCRIPTION						
1	3-14-23	MT	S 1ST SUBMITTAL						
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IRRIGATION **LEGEND & NOTES**

LI 201





Att A Al 7, 09/14/23

	NG NOTES
NUMBER	DESCRIPTION
1	TREES ARE STANDARD FORM UNLESS NOTED OTHERWISE.
2	TRIPLE STAKE TREES, UNLESS NOTED OTHERWISE.
3	TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARI PLACED WITHIN 5 FEET OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WIRAP AROUND THE ROO BALL.
4	WHERE SPREADING GROUNDCOVERS ARE SHOWN TO BE PLANTED ADJACENT TO A CURB OR WALKWAY EDGE, SET CENTER OF PLANT 24" OFF HARD SURFACE.
(5)	MINIMUM TEES SEPARATION DISTANCE: TRAFFIC SIGNALS / STOP SIONS. 20 FT. UNDERGROUND UTILITY LINES
6	EXISTING TREES TO REMAN ON SITE WITHIN THE AREA OF WORK WILL SER PROTECTION PIACE. AT THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED. 1. A REPORT PLACED AROUND EXISTING TREES AT THE WILL SERVICE AND DESCRIPTION TO THE STATE OF THE STA
0	ALL PLANTING AREA TO RECIEVE 3" LAYER OF BAMK MULCH (AGNSENICE "FROST FINES") UNLESS OTHERWISE NOTED.
8	MULCH: ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A NINIMUM DEPTH OF 3", EXCLUDING SLOPES REQUIRING REVEGETATION PER SDMC 142.0411.
9	IF ANY REQUIRED LANDSCAPE INDICATION ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING GENOLITION OR CONSTRUCTION, IT SHALL BE REPARIED ANDOR REPLACED IN NIND AND COUNTAINT STATEMENT OF THE ASSISTANCE OF THE CONSTRUCTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE.
10	SOIL SAMPLES SHALL BE TAKEN FROM THE SITE AT THE LANDSCAPE ARCHITECT'S DIRECTIVE AND SENT TO A SOIL ANALYSIS LABORATORY TO PERFORM PROVIDE SOIL AGRONOMIC TEST REPORTS, PER SPECIFICATIONS. THIS REPORT SHALL BE PERFORMED PRIOR TO START OF

PLANT SCHEDULE

TREES	REFER TO DETAILS 1-4 ON SHEET LP301 FOR TIREE PLANTING AND STAKING								
SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT GOELIVERY	SPREAD GOELIVERY	SPACING	REMARKS	
PR	36" BOX	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	MID	14'	8'	AS SHOWN	MULTI	
PG	48" BOX	PODOCARPUS GRACILIOR	AFRICAN FERN PINE	MID	15'	6"	AS SHOWN	STANDARD	

SHRUBS & \	SHRUBS & VINES REFER TO DETAILS ON SHEET LP 3.01 FOR SHRUB & VINE PLANTING			DIMENSIONS @ TIME OF INSTALL			
SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	HEIGHT	WIDTH	O.C OFFSET FROM EDGE
@	15 GAL	AGAVE SHAWII	SHAW'S AGAVE	LOW	18"		@3' O.C. SPACING
•	5 GAL	ALOE ARBORESCENS	TORCH ALOE	LOW	2		@3' O.C. SPACING
•	5 GAL	ALOE BARBADENSIS	ALOE VERA	LOW	12"	10"	@1' O.C. SPACING
+++++	5 GAL	CARISSA MACROCARPA 'GREEN CARPET'	COMPACT NATAL PLUM	LOW	1'		@2' O.C. SPACING
\otimes	15 GAL	CYCAS REVOLUTA	SAGO PALM	MID	2		@4' O.C. SPACING
(8)	5 GAL	LOMANDRA C. SSP. PALLIDA 'POM POM'	SHORTY MAT RUSH	MID	10"		@2' O.C. SPACING
•	15 GAL	RHAPHIOLEPIS UMBELLATA 'MINOR'	DWARF YEDDO HAWTHORN	LOW	2		@18" O.C. SPACING
	1 GAL	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	MID	6"		@1' O.C. SPACING
-4-	5 GAL	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	MID	6' L		AS SHOWN
(8)	5 GAL	WESTRINGIA F. 'MUNDI'	LOW COAST ROSEMARY	LOW	1'		@30" O.C. SPACING



GROUNDLEVEL

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GRANTVILLE TRANSIT CENTER IMPROVEMENTS 4510 ALVARADO CANYON ROAD SAN DIEGO, CA 92120

MTS PO NO.: 4500049463 MTS WO NO.: WOA1949-AE-76 JACOBS PO NO.: 148037478 PROJECT NO.: JLXMTDGV WBS CODE: C.PN.TPE.PDC

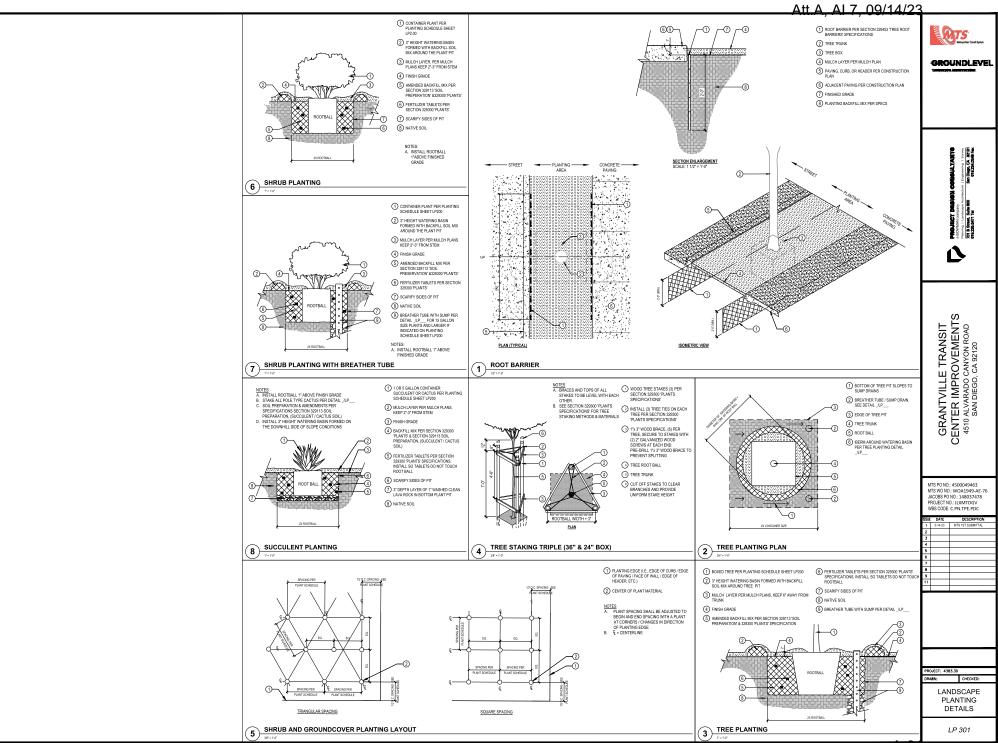
ISSUE	DATE	DESCRIPTION
1	3-14-23	MTS 1ST SUBMITTAL
2		
3		
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11		

PROJECT: 4383.30

DRAWN: CHECKED:

LANDSCAPE PLANTING LEGEND

LP 200



A-21

EXHIBIT B (Cost Breakdown)

By Division Version: 2.0

Approved
Proposal Value: \$968,743.63
Approved Date: August 2, 2023

Job Order: MTSJOC347-05

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

Division		Install Total	NPP Total	Demo Total	Division Total
01	General Requirements	\$228,296.64	\$0.00	\$0.00	\$228,296.64
02	Existing Conditions	\$85,414.48	\$0.00	\$0.00	\$85,414.48
03	Concrete	\$38,454.40	\$0.00	\$0.00	\$38,454.40
04	Masonry	\$0.00	\$0.00	\$11,283.43	\$11,283.43
09	Finishes	\$4,648.05	\$0.00	\$0.00	\$4,648.05
26	Electrical	\$22,947.06	\$0.00	\$2,452.48	\$25,399.54
31	Earthwork	\$114,003.10	\$0.00	\$642.51	\$114,645.61
32	Exterior Improvements	\$380,138.69	\$0.00	\$0.00	\$380,138.69
34	Transportation	\$52,882.62	\$0.00	\$0.00	\$52,882.62
50	Custom Standards And Assemblies	\$27,580.17	\$0.00	\$0.00	\$27,580.17
Line Count: 149			F	Proposal Total:	\$968,743.63

The Percentage of Non Pre-Priced on this Proposal:

0.0%

Page 1 of 48

By Division

Version: 2.0 Approved

Proposal Value: \$968,743.63

Job Order: MTSJOC347-05

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Approved Date: August 2, 2023

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

01 General Requirements \$228								
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
1	012216000004	Reimbursable Fees	Installation	4,510.00	\$1.00	EA	1.0000	\$4,510.00
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0000	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: CONCRETE PLANT

Prevailing Wage set up fee (1 per project) - \$550

Prevailing Wage truck fee \$220 per truck x 18 trucks = \$3,960

Item Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.

							Total:	\$4,510.00
2	012220000059	Senior Surveyor (Party Chief)	Installation	40.00	\$109.21	HR	1.0890	\$4,757.19
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	HR	1.0890	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials No

User Note: office calculation for onsite survey

Item Note:

							Total:	\$4,757.19
3	012220000060	Surveyor (Instrument person)	Installation	72.00	\$104.57	HR	1.0890	\$8,199.12
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	HR	1.0890	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials No

User Note: Survey Layout onsite as needed, 3 days per phase

Item Note:

Total: \$8,199.12

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

012220000061 Surveyor (Rod person) Installation 72.00 \$103.65 HR 1.0890 \$8,126.99 0.000000 \$0.00 HR 1.0890 \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo:

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials No

User Note: Survey Layout onsite as needed

Item Note:

Total: \$8,126.99 012223000289 3,000 LB Capacity, 78" Wide, 4.00 \$1,287.24 DAY 1.0890 \$5,607.22 5 Installation Tracked Skid-Steer Loader With **Full-Time Operator** History: 1.1 Added, 1.2 Accepted, 1.3 0.000000 \$0.00 DAY 1.0890 \$0.00 Accepted Demo: Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: Drilling foundations Phase 1 - 3 days

Phase 2 - 1 day

Item Note:

Total:

\$5,607.22

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Price Proposal Combined Report

By Division

Version: 2.0 Approved

6

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

012223000290 3,000 LB Capacity, 78" Wide, Installation 6.00 \$5,463.52 WK 1.0890 \$35,698.64

Tracked Skid-Steer Loader With

Full-Time Operator

Accepted History: 1.1 Added, 1.2 Modified, 1.3 Demo: 0.000000 \$0.00 WK 1.0890 \$0.00

Modified, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials Yes

Owner Comments: V:1.2-6 weeks of sweeping is extremely excessive and equipment will already be on-site. There will not

be a dedicated sweeping skid steer

User Note: BMP's - Sweeping or vehicular travel ways during construction

. 12 Weeks total @ 50%

Item Note:

7 012223000290 For Equipment Without MOD: Installation 3.00 -\$3,852.53 WK 1.0890 -\$12,586.22

Operator, Deduct 0039
Accepted History: 1.1 Added, 1.2 Modified, 1.3

Modified, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials No

User Note: 1/2 time deduct for when in not use.

Item Note:

Item Note:

-\$12,586.22 Total: 8 012223000302 Broom Attachment For Skid-Installation 5.00 \$258.37 WK 1.0890 \$1,406.82 Steer Loaders History: 1.1 Added, 1.2 Accepted, 1.3 0.000000 \$0.00 WK 1.0890 \$0.00 Accepted Demo: Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted, 1.4 Accepted,

Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: BMP's - Sweeping or vehicular travel ways during construction

12 Weeks total @ 50%

Page 4 of 48

Print Date: 08/15/2023 12:15:57 PM PST

\$1,406.82

Total:

By Division

Version: 2.0 Approved

9

Accepted

10

Accepted

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

012223000307 Augei

Auger Attachment (Excludes Bits And Extensions) For Skid-

4.00

\$83.08 DAY

1.0890

\$361.90

Steer Loaders

oleer Loaders

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Demo:

Installation

0.000000

\$0.00

DAY

DAY

DAY

1.0890

\$0.00

Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: Drilling foundations

Phase 1 - 3 days

Phase 2 - 1 day

Item Note:

012223000905

20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With

Full-Time Operator

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Demo:

Installation

0.000000

4.00

\$0.00

\$1,470.31

1.0890

1.0890

Total:

\$0.0

\$0.00

\$361.90

\$6,404.67

Accepted

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: Crane used to erect light poles, camera pole and 2 VMS

Item Note:

Total:

\$6,404.67

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By Division

Version: 2.0 Approved

11

Accepted

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

 012223001333
 18 CY Rear Dump Truck With
 Installation
 36.00
 \$1,726.52
 DAY
 1.0890
 \$67,686.49

 Full-Time Truck Driver

History: 1.1 Added, 1.2 Modified, 1.3 Demo: 0.000000 \$0.00 DAY 1.0890 \$0.00

Modified, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials Yes

Owner Comments: V:1.2-you will not have a dedicated truck driver sitting in his truck for 36 days

User Note: End Dumps for Import and Export

Demo Flatwork - 3 trucks x 4 days
Demo Seat walls - 1 truck x 2 days

Demo Existing Foundations - 1 truck x 2 days Demo Existing Veneer - 1 truck x 3 days Spoils Haul Off from Grading - 2 trucks x 4 days Removal of Existing Landscape - 2 trucks x 4 days

Import new DG - 1 truck x 1 day

Item Note:

Total: \$67,686.49

12 012223001333 For Equipment Without MOD: Installation 0.00 -\$573.42 DAY 1.0890 \$0.00
Operator, Deduct 0029

Accepted History: 1.1 Added, 1.2 Modified, 1.3

Modified, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor No Includes Equipment No Includes Materials No

User Note: No deduct as a truck driver is no working as any other trade onsite, sitting waiting for truck to be loaded of driving truck.

Item Note:

\$0.00 Total: 13 Temporary 6' High Chain Link \$7,999.58 015626000143 1,060.00 \$6.93 LF 1.0890 Installation Fence Panels (Portable), Up To 6 Months Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 LF 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$7,999.58

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Approved Date: August 2, 2023

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

14	015626000158	Temporary Chain Link Fence Panels (Portable) Sandbag	Installation	400.00	\$5.70	BAG	1.0890	\$2,482.92
Accepted		History: 1.1 Added, 1.2 Modified, 1.3	Demo:	0.000000	\$0.00	BAG	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-Will not be re-purchasing sandbags per phase

User Note: 200 bags per phase, replaced 1 time over 12 weeks from deterioration

Item Note: Includes placement and removal.

							Total:	\$2,482.92
15	015626000162	Relocate Temporary 6' High Chain Link Fence And Posts	Installation	1,060.00	\$4.10	LF	1.0890	\$4,732.79
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$4,732.79

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

16	017113000004	First 25 Miles, Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed	Installation	19.00	\$715.07	EA	1.0890	\$14,795.51	
Accepted		History: 1.1 Added, 1.2 Modified, 1.3 Modified, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00	

Includes Labor Yes Includes Equipment Yes Includes Materials No

Owner Comments: V:1.2-You will not de-mobilize then re-mobilize 3 times

User Note: Equipment Mobilization

Accepted

Demo: (Move off & On 6ea)

-Bobcat -Loader -Saw Cutter

Trenching & Grading: (Move off & On 6ea)

-Excavator -Skid Steer -Roller

Landscaper/Irr: (Move off & On 6ea)

-Trencher -Skid Steer

Misc.

-Rough Terrain Fork Lift (1 Move on leave)

Total: 19

Item Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough

terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.

							Total:	\$14,795.51
17	017113000008	20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane	Installation	4.00	\$598.68	EA	1.0890	\$2,607.85
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Move on for Crane used to erect light poles, camera pole and 2 VMS

Item Note: Includes delivery and pickup.

Total: \$2,607.85

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

18	017123160019	Survey Clear Area For Underground Utilities	Installation	0.50	\$5,567.02	ACR	1.0890	\$3,031.24
Accepted		History: 1.1 Added, 1.2 Modified, 1.3 Accented, 1.4 Accented, 1.5 Accented, 2.0	Demo:	0.000000	\$0.00	ACR	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-1 acre excessive

User Note: "KNOWN" Utility Mark out (CPL)

Item Note:

							Total:	\$3,031.24
19	017136000005	>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	Installation	2.00	\$1,951.92	EA	1.0890	\$4,251.28
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: GPR/X-Ray existing prior to demo (especially over a raised)

Item Note:

							Total:	\$4,251.28
20	017419000021	Rampless Concrete Washout Bin	Installation	3.00	\$555.08	MO	1.0890	\$1,813.45
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	МО	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: BMP's - Concrete Washout for duration of Project Est 12 weeks

Item Note: Includes delivery.

Total: \$1,813.45

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

21	017419000023	Interim Vacuum Service, Concrete Washout Bin	Installation	12.00	\$358.02	EA	1.0890	\$4,678.61
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: BMP's - Weekly washout service, Est 12 weeks of construction

Item Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.

							Total:	\$4,678.61
22	017419000036	General Refuse	Installation	1,067.00	\$44.52	TON	1.0890	\$51,730.59
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	TON	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: Landfill Fees for removed materials

-472 Tons of concrete -365 Tons of Misc. dirt -150 Tons of greens -80 Tons of Misc. Total: 1,067 Tons

Item Note:

							Total:	\$51,730.59
02 Existin		\$85,414.48						
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
23	023213000020	Excavation For Test Pit, Light Soil, Hand Excavation	Installation	30.00	\$165.66	CY	1.0890	\$5,412.11
Accepted		History: 1.1 Added, 1.2 Clarification Requested, 1.3 Clarified, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

Owner Comments: V:1.2-What requires this volume of potholes?

Contractor Comments: V:1.3-Potholing as needed after mark to establish demo control and depth with existing utility and

structures

User Note: Pot Holing, Est

Item Note:

Total: \$5,412.11

\$21,728.82

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Accepted

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

900.00

0.000000

\$22.17

\$0.00

SY

SY

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

24 024113130011 >3" To 6" By Machine, Break-up

And Remove Welded Wire Reinforced Concrete Paving

Accepted History: 1.1 Added, 1.2 Clarification

Requested, 1.3 Clarified, 1.4 Accepted,

1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Owner Comments: V:1.2-Justify 900 sy of hand demo

Contractor Comments: V:1.3-Demo of existing

User Note: Demo existing sidewalk

Item Note:

25 024113130011 For Additional Cost Of Hand MOD: Installation 900.00 \$6.65 SY 1.0890 \$6,517.67

Installation

Demo:

Held Equipment Usage (Around Existing Structures And

Obstructions), Add

History: 1.1 Added, 1.2 Clarification

Requested, 1.3 Clarified, 1.4 Accepted,

1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

0012

							i otai:	\$6,517.67
26	024113130018	>19" To 24" By Machine, Break- up And Remove Rod Reinforced Concrete Paving	Installation	31.00	\$88.32	SY	1.0890	\$2,981.59
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo existing seat wall

Item Note:

Total: \$2,981.59

\$5,963.19

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

62.00

0.000000

\$88.32

\$0.00

SY

SY

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

27 024113130018 >19" To 24" By Machine, Break-

up And Remove Rod Reinforced Concrete Paving

....

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo misc. foundations

Item Note:

							Total:	\$5,963.19
28	024116130018	By Machine, Wood Frame Construction Building Demolition	Installation	150.00	\$28.00	CCF	1.0890	\$4,573.80
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CCF	1.0890	\$0.00

Installation

Demo:

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo existing ticket booth

Item Note:

								Total:	\$4,573.60
29	024116130018	For Up To 500, Add	MOD:	Installation	150.00	\$8.40	CCF	1.0890	\$1,372.14
			0004						

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$1,372.14

Total

By Division

Version: 2.0 Approved

ved Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

30 024116130020 Sorting Of Material Debris For Installation 1,418.00 \$8.19 CCF 1.0890 \$12,647.01 Recycling Prior To Hauling Off Accepted History: 1.1 Added, 1.2 Removed, 1.3 Demo: 0.000000 \$0.00 CCF 1.0890 \$0.00

Retained, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Owner Comments: V:1.2-Item unnecessary

Contractor Comments: V:1.3-We will need to sort debris as demo'd and load out similar for removal.

User Note: Recycling Requirements; Sorting of all demo'd/Removed materials

534CY = 14,418CF

Item Note:

Total: \$12,647.01

31 024116130020 For >1,000 To 2,000, Add MOD: Installation 1,418.00 \$0.82 CCF 1.0890 \$1,266.25

Accepted History: 1.1 Added, 1.2 Removed, 1.3 Retained, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials No

Total: \$1,266.25 32 024116130061 Concrete Footing For Fence, 616.00 \$12.82 CF 1.0890 \$8,599.96 Installation Gate Or Playground Equipment Post, Etc. Demolition Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 CF 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Misc. Footing Demo

Seatwall - 237SFx18" = 356CF Light Poles - 16SFx5' x3 = 240CF Ticket Stations - 4SFx12" x2 = 8CF Information Kiosk - 12SFx12" = 12CF

Total: 616CF

Item Note: Includes excavation.

Total: \$8,599.96

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\$4,884.17

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Accepted

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Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Demo:

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

1,500.00

0.000000

\$2.99

\$0.00

LF

LF

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

024119130062

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

33 024119130062 Welded Wire Reinforced Installation

Concrete Slab Up To 4" Depth, Saw Cut

History: 1.1 Added, 1.2 Clarification

Requested, 1.3 Clarified, 1.4 Accepted,

1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-Justify modifier. Saw cutting will not be 10" thick.

Contractor Comments: V:1.3-Saw cutting existing concrete before demo

For Each Additional Pass MOD: Installation 3,000.00 \$1.14 LF 1.0890 \$3,724.38 (Depth To 3"), Add 0031

Accepted History: 1.1 Added, 1.2 Clarification

Requested, 1.3 Clarified, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$3,724.38 35 024119130284 1" Diameter Drilling In Concrete Installation 1,800.00 \$2.93 IN 1.0890 \$5,743.39 Per Inch Of Depth Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 IN 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Estimate 150 Dowels at 12"

Item Note:

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Approved Date: August 2, 2023

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

Accepted

36 030513000021 Premium Color (See Davis Installation 72.00 \$77.33 CY 1.0890 \$6,063.29 Colors Color Card), Concrete Admixture \$0.00 Accepted

\$0.00 History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 CY 1.0890 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: Colors per Plans

Item Note:

Total: \$6,063.29 37 031519000038 3/4" Diameter x 12" Length, 32.00 \$12.37 EΑ 1.0890 \$431.07 Installation Plain Steel, L-Type Cast In Place Anchor Bolt 0.000000 \$0.00 EΑ 1.0890 \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Anchor bolts for light poles, ticket station and VMS signs

Item Note:

Total: \$431.07 38 031519000038 MOD: Installation 32.00 \$2.27 EΑ 1.0890 \$79.10 For Galvanized, Add

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

Total: \$79.10

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

39 032111000124 #4, Grade 50, Slab On Grade, Installation 8,650.00 \$0.83 LF 1.0890 \$7,818.48 Steel Reinforcement Bar Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 LF 1.0890 \$0.00

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: Rebar for new Concrete

sidewalk 7300 lf seal wall 550 lf seat wall footing 550 lf foundation 250 lf

Item Note:

Total: \$7,818.48 40 032111000243 5/8" Diameter x 24" Long, Installation 150.00 \$3.17 EΑ 1.0890 \$517.82 Deformed Straight Dowel Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 EΑ 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Estimated 150 Dowels

Accepted

Item Note:

\$517.82 Total: 033113000027 Direct Chute, Place 3,000 PSI 20.00 1.0890 \$4,431.58 41 Installation \$203.47 CY Concrete Spread Footings \$0.00 CY 1.0890 \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New seat wall footing

Item Note:

Total: \$4,431.58

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

42	033113000074	15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	Installation	30.00	\$192.11	CY	1.0890	\$6,276.23
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New seat wall

Item Note:

							Total:	\$6,276.23
43	033113000099	6" Equipment Pad With Rebar	Installation	24.00	\$23.45	SF	1.0890	\$612.89
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New ticket station

Item Note:

							Total:	\$612.89
44	033716000010	35 CY/HR, 66 HP Trailer Mounted Concrete Pump	Installation	80.00	\$97.56	HR	1.0890	\$8,499.43
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	HR	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Concrete Pump, Estimated

Item Note: Includes hoses

							Total:	\$8,499.43
45	036423000002	Pressure Injected Epoxy Grout	Installation	3.00	\$1,140.04	CF	1.0890	\$3,724.51
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: For the New Dowels, 150 ea

Item Note:

Total: \$3,724.51

* Includes Price Changes due to Construction Task Catalog update

Price Proposal Combined Report Print Date: 08/15/2023 12:15:57 PM PST

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

04 Masonry \$11,283									
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total	
46	044316000020	4" Ashlar Veneer Limestone, Random Sizes	Installation	0.00	\$51.44	SF	1.0890	\$0.00	
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	516.000000	\$20.08	SF	1.0890	\$11,283.43	

Includes Labor No Includes Equipment No Includes Materials No

User Note: Removal of Existing Veneer from Wall

Item Note:

					Total:	\$11,283.43
09 Finishes		\$4,648.05				
Record # CSI Number Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

47	092423000004	Scratch/Finish, Two Coat Troweled Stucco	Installation	516.00	\$5.17	SF	1.0890	\$2,905.15
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$1.23	SF	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New Stucco

Item Note: Excludes lath and felt. Interior or exterior, one side.

								Total:	\$2,905.15
48	092423000004	For Smooth Float Finish, Add	MOD: 0034	Installation	0.00	\$1.24	SF	1.0890	\$0.00

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor No Includes Equipment No Includes Materials No

								Total:	\$0.00
49	092423000004	For >100 To 500, Add	MOD: 0037	Installation	430.00	\$1.13	SF	1.0890	\$529.15

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$529.15
50	099113000086	Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work	Installation	516.00	\$1.03	SF	1.0890	\$578.78
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

\$578.78 Total:

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

Accepted

51	099113000087	Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work	Installation	516.00	\$1.13	SF	1.0890	\$634.97
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	SF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$634.97
26 Electric	26 Electrical							
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
52	260120910002	Lock Out/Tag Out Local Disconnect	Installation	10.00	\$19.77	EA	1.0890	\$215.30
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$215.30
53	260120910007	Lighting, Existing Circuit Tracing Per Circuit	Installation	10.00	\$16.45	EA	1.0890	\$179.14
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: 2 light poles, booth, 2 ticket machine, 2 tap and go,

Item Note:

							Total:	\$179.14
54	260519160004	Pull String Installed To Remain In Place, In New Conduits	Installation	600.00	\$0.13	LF	1.0890	\$84.94
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials Yes

Total: \$84.94

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Print Date: 08/15/2023 12:15:57 PM PST

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

55	260519160018	#12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit	Installation	3.00	\$749.18	MLF	1.0890	\$2,447.57
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$205.85	MLF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$2,447.57
56	260533131440	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	Installation	850.00	\$3.50	LF	1.0890	\$3,239.78
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	250.000000	\$1.30	LF	1.0890	\$353.93

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$3,593.71
57	260533131441	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	Installation	750.00	\$4.15	LF	1.0890	\$3,389.51
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	250.000000	\$1.52	LF	1.0890	\$413.82

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$3,803.33
58	260533131453	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	Installation	6.00	\$16.87	EA	1.0890	\$110.23
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$6.38	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$110.23

By Division

Version: 2.0 **Approved**

Job Order: MTSJOC347-05

Job Order Name: Grantville Hardscape and Landscape Improvements Proposal Value: \$968,743.63

Approved Date: August 2, 2023 Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

59	260533131454	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	Installation	6.00	\$19.56	EA	1.0890	\$127.81
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$7.24	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$127.81
60	260533131466	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	Installation	6.00	\$16.82	EA	1.0890	\$109.90
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$6.38	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$109.90
61	260533131467	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow	Installation	6.00	\$19.49	EA	1.0890	\$127.35
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$7.24	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$127.35
62	265568000004	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	Installation	3.00	\$1,031.37	EA	1.0890	\$3,369.49
Accepted		History: 1.1 Added, 1.2 Modified, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	3.000000	\$515.68	EA	1.0890	\$1,684.73

Includes Labor Yes Includes Equipment Yes Includes Materials No

Owner Comments: V:1.2-Should not include material costs for re-using material

User Note: Reuse 2 for lights ad 1 for Camera

Item Note:

Total: \$5,054.22

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\$9,546.04

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

4.00

\$2,191.47

EΑ

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

63 265619000159 40 LEDs, 89 Watt, Pole Mount,

LED Architectural Area Fixture (Lithonia DSXO LED)

Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$80.01 EΑ

Job Order: MTSJOC347-05

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: new lights

Item Note:

							Total:	\$9,546.04
31 Earthw		\$114,645.61						
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
64	310516000026	Graded Aggregate Base Fill (3/4" Minus) Class II Base	Installation	5.00	\$50.37	CY	1.0890	\$274.26
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Installation

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: DG in between steel header

Item Note:

								Total:	\$274.26
65	310516000026	For Up To 8, Add	MOD:	Installation	5.00	\$10.07	CY	1.0890	\$54.83
			0053						

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$54.83

Price Proposal Combined Report

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

66	311100000017	Hand Loading Of Cleared And Grubbed Material	Installation	230.00	\$33.89	CY	1.0890	\$8,488.43
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Estimated:

-150 Tons of greens -80 Tons of Misc. Total: 230 Tons

Item Note:

							Total:	\$8,488.43
67	311313000004	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	Installation	4.00	\$1,000.49	EA	1.0890	\$4,358.13
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo existing

Item Note: Includes cutting up tree, chipping and loading.

							Total:	\$4,358.13
68	311313000014	>12" To 24" Diameter Stump Removal	Installation	4.00	\$204.74	EA	1.0890	\$891.85
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo existing

Item Note: Includes excavation necessary to remove stump and loading.

Total: \$891.85

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

69 311313000052 Removal Of 18" To 24" Shrub, Installation 40.00 \$30.13 EΑ 1.0890 \$1,312.46 Deciduous Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 EΑ 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo existing

Item Note:

							Total:	\$1,312.46
70	312316130003	Over 12" Wide, Excavation for Trenching by Machine in Soil	Installation	45.00	\$5.73	CY	1.0890	\$280.80
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: 600 If electrical trench

Item Note:

								Total:	\$280.80
71	312316130003	For >20 To 50, Add	MOD:	Installation	30.00	\$2.87	CY	1.0890	\$93.76

Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted, 1.4 Acc

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$93.76
72	312316130007	Excavation For Trenching By Hand In Soil	Installation	259.00	\$111.82	CY	1.0890	\$31,538.94
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: 3500 If irrigation trenching

Item Note: Includes stockpilling excess materials and trimming sides and bottom of trench.

Total: \$31,538.94

* Includes Price Changes due to Construction Task Catalog update

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

73	312316130011	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	Installation	259.00	\$31.06	CY	1.0890	\$8,760.50
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: 190 cy irrigation trench

Item Note:

							Total:	\$8,760.50
74	312316130011	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	Installation	45.00	\$31.06	CY	1.0890	\$1,522.10
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: 30 cy electrical

Item Note:

							Total:	\$1,522.10
75	312316130014	Compaction of Fill or Subbase for Trenches by Hand	Installation	259.00	\$35.04	CY	1.0890	\$9,883.07
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$9,883.07
76	312316130014	Compaction of Fill or Subbase for Trenches by Hand	Installation	45.00	\$35.04	CY	1.0890	\$1,717.14
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$1,717.14

By Division

Version: 2.0 **Approved**

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

77 312316360003 **Excavation For Building** Foundations And Other

137.00

\$7.74

1.0890

1.0890

\$1,154.75

Structures By Skid-Steer Loader

In Soil

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Demo:

Installation

0.000000

137.00

\$0.00

CY

CY

CY

\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape 3" 10500 sf = 97 cy x 1.42 swell = 137

Item Note:

78 312316360003

For >50 To 250, Add

MOD: 0016 Installation

\$3.09

Total: 1.0890

\$1,154.75 \$461.01

Accepted

Accepted

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total:

\$461.01

Print Date: 08/15/2023 12:15:57 PM PST

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

79 312316360003 **Excavation For Building** Installation 147.00 \$7.74 CY 1.0890 \$1,239.04 Foundations And Other Structures By Skid-Steer Loader In Soil \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 CY 1.0890

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Excavation per plans

-sidewalk 5,100SF -vehicle parking 450SF 103CY x 1.42 swell =147CY

Item Note:

80 312316360003 For >50 To 250, Add MOD: Installation 100.00 \$3.09 CY 1.0890 \$336.50

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$336.50
81	312316360009	Excavation For Building Foundations And Other Structures By Hand in Soil	Installation	85.00	\$111.82	CY	1.0890	\$10,350.62
Accepted		History: 1.1 Added, 1.2 Clarification	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

1.5 Accepted, 2.0 Accepted

Owner Comments: V:1.2-Please provide justification for 10K worth of "misc. hand work"

Contractor Comments: V:1.3-Hand digging as needed as there are many 'existing" items, edges etc.

User Note: Misc. Hand Work

Item Note:

Total: \$10,350.62

\$289.95

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

82

Accepted

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Jepproved Date: August 2, 2023

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

5.00

0.000000

\$53.25

\$0.00

CY

CY

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

312316360019 Backfilling Around Building

Foundations And Other Structures By Hand

History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: DG

							l otal:	\$289.95
83	312316360021	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	Installation	195.00	\$10.25	CY	1.0890	\$2,176.64
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Installation

Demo:

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape 3" 10500 sf x 6"subgrade 195 cy

Item Note:

84 312316360021 For >50 To 250, Add MOD: Installation 195.00 \$4.10 CY 1.0890 \$870.66 0024

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$870.66

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera

Accepted

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Demo:

Installation

0.000000

103.00

\$0.00

\$10.25

CY

CY

1.0890

1.0890

\$0.00

\$1,149.71

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: For new Subbase

-sidewalk 5,100SF -vehicle parking 450SF

@6" =103CY

Item Note:

312316360021 86

						Total:	\$1,149.71
For >50 To 250, Add	MOD:	Installation	103.00	\$4.10	CY	1.0890	\$459.88

Accepted

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$459.88
87	312316360024	Rough Grading For Building Foundations And Other Structures by Machine	Installation	1,167.00	\$1.01	SY	1.0890	\$1,283.57
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	SY	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape 3" 10500 sf

Item Note:

Total: \$1,283.57

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

88 312316360024 Rough Grading For Building Installation 617.00 \$1.01 SY 1.0890 \$678.63 Foundations And Other

Structures by Machine

Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 SY 1.0890 \$0.00

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: For new Subbase

-sidewalk 5,100SF -vehicle parking 450SF

Item Note:

Total: \$678.63 Finish Grading For Building Foundations And Other 89 312316360025 Installation 1,784.00 \$1.62 SY 1.0890 \$3,147.30 Structures by Machine Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 SY 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape 3" 10500 sf

Item Note:

Total: \$3,147.30

\$714.63

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Proposal Value: \$968,743.63

Job Order: MTSJOC347-05

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

137.00

0.000000

\$4.79

\$0.00

CY

CY

1.0890

1.0890

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Approved Date: August 2, 2023

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

90 312316360028 Load Excess Material For Removal From Excavation For Building Foundations and Other

Structures by Machine

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape 3" 10500 sf = 97 cy x 1.42 swell = 137

Item Note:

91 312316360028 For >50 To 250, Add MOD: Installation 137.00 \$1.92 CY 1.0890 \$286.45 0028

Installation

Demo:

Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$286.45

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

92 312316360028 Load Excess Material For Installation 534.00 \$4.79 CY 1.0890 \$2,785.51 Removal From Excavation For **Building Foundations and Other** Structures by Machine \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 CY 1.0890

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Loading out removed materials

-472 Tons of concrete -365 Tons of Misc. dirt -150 Tons of greens -80 Tons of Misc. Total: 1,067 Tons

Item Note:

\$2,785.51 Total: 312316360028 For >50 To 250, Add MOD: 100.00 \$1.92 CY 1.0890 \$209.09 Installation

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

Includes Labor Yes Includes Equipment Yes Includes Materials No

Total: \$209.09 94 312316360032 Spread Excess Or Imported \$45.25 CY 1.0890 \$246.39 Installation 5.00 Material On Site By Hand Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 CY 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

User Note: DG 5 cy

Item Note:

Total: \$246.39

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

95	312316360032	Spread Excess Or Imported Material On Site By Hand	Installation	190.00	\$45.25	CY	1.0890	\$9,362.68
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: landscape trench 190 cy

Item Note:

							Total:	\$9,362.68
96	312316360032	Spread Excess Or Imported Material On Site By Hand	Installation	45.00	\$45.25	CY	1.0890	\$2,217.48
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: elec trench 30 cy

Item Note:

							Total:	\$2,217.48
97	312413000019	Finish Grade For Curb	Installation	25.00	\$0.98	LF	1.0890	\$26.68
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$26.68
98	312514230014	50 LB Capacity Gravel Bag With Gravel	Installation	250.00	\$8.40	BAG	1.0890	\$2,286.90
Accepted		History: 1.1 Added, 1.2 Modified, 1.3 Modified, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	250.000000	\$2.36	BAG	1.0890	\$642.51

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-Gravel bags will not be purchased 3 times

User Note: BMP's - Estimated 250/phase

Item Note:

Total: \$2,929.41

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\$3,092.76

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements

Approved Date: August 2, 2023 Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

99 312514260028 8" Diameter Fiber Roll, (Sterile Installation 500.00

Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS

Type 1

History: 1.1 Added, 1.2 Modified, 1.3 \$0.00 1.0890 \$0.00 Accepted Demo: 500.000000 LF

\$5.68

LF

1.0890

Modified, 1.4 Accepted, 1.5 Accepted, 2.0

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-Waddle will not be purchased 3 times

User Note: BMP's As needed, Est 500lf/phase

Item Note:

							Total:	\$3,092.76
32 Exterio		\$380,138.69						
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
100	321613130003	6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	Installation	25.00	\$18.68	LF	1.0890	\$508.56
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$9.69	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: rolled curb

Item Note:

								Total:	\$508.56
101	321613130003	For >20 To 50, Add	MOD:	Installation	25.00	\$6.54	LF	1.0890	\$178.05

History: 1.1 Added, 1.2 Accepted, 1.3 Accepted

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$178.05

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

102 321623000002 4" Cast In Place Concrete Installation 5,100.00 \$7.61 SF 1.0890 \$42,265.18 Sidewalk Accepted History: 1.1 Added, 1.2 Modified, 1.3 Demo: 0.000000 \$0.00 SF 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New PCC Phased

Item Note:

							Total:	\$42,265.18
103	321623000004	6" Cast In Place Concrete Sidewalk	Installation	465.00	\$8.94	SF	1.0890	\$4,527.08
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New vehicle parking

Item Note:

							Total:	\$4,527.08
104 32162300000	4 For >100 To 500, Add	MOD: 0094	Installation	465.00	\$1.04	SF	1.0890	\$526.64

Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

* Includes Price Changes due to Construction Task Catalog update

Includes Labor Yes Includes Equipment No Includes Materials Yes

							Total:	\$526.64
105	328423000005	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	Installation	4.00	\$30.32	EA	1.0890	\$132.07
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$10.68	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$132.07

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

106	328423000009	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	Installation	104.00	\$36.05	EA	1.0890	\$4,082.88
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$10.68	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$4,082.88
107	328423000017	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	Installation	698.00	\$26.79	EA	1.0890	\$20,363.67
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$10.68	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$20,363.67
108	328423000098	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	Installation	15.00	\$452.96	EA	1.0890	\$7,399.10
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$111.29	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$7,399.10
109	328423000109	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD)	Installation	25.00	\$179.89	EA	1.0890	\$4,897.51
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$61.60	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$4,897.51

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

110	328423000179	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	Installation	1.00	\$914.11	EA	1.0890	\$995.47
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$59.64	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$995.47
111	328423000205	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	Installation	1.00	\$208.38	EA	1.0890	\$226.93
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$22.37	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$226.93
112	328423000252	2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	Installation	1.00	\$1,264.88	EA	1.0890	\$1,377.45
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$74.56	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$1,377.45
113	328423000287	15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE- BREAKER)	Installation	1.00	\$322.35	EA	1.0890	\$351.04
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$55.91	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$351.04

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

114	328423000292	Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)	Installation	1.00	\$3,368.15	EA	1.0890	\$3,667.92
ccepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$27.96	EA	1.0890	\$0.00
		Includes Labor Yes Includes Equipmen	t Yes Includes	Materials Yes				
							Total:	\$3,667.92
115	328423000450	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	Installation	9.00	\$546.17	EA	1.0890	\$5,353.01
ccepted		History: 1.1 Added, 1.2 Accepted, 1.3	Demo:	0.000000	\$36.74	EA	1.0890	\$0.00
		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted						
		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	t Yes Includes	Materials Yes				
		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	t Yes Includes	Materials Yes				
		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	t Yes Includes	Materials Yes			Total:	\$5,353.01
116	328423000459	Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	t Yes Includes	Materials Yes 6.00	\$163.49	EA	Total: 1.0890	\$5,353.01 \$1,068.24
	328423000459	Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipmen 1", 2-Piece Brass Body, Quick- Coupling Irrigation Valve (Rain			\$163.49 \$32.05	EA EA		
116 Accepted	328423000459	Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipmen 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Installation Demo:	6.00			1.0890	\$1,068.24
	328423000459	Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Installation Demo:	6.00			1.0890 1.0890	\$1,068.24 \$0.00
Accepted		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment	Installation Demo: It Yes Includes	6.00 0.000000 Materials Yes	\$32.05	EA	1.0890 1.0890 Total:	\$1,068.24 \$0.00
Accepted	328423000459 328423000496	Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 2" Brass Threaded Gate Valve And Box (Carson 910-10)	Installation Demo: It Yes Includes Installation	6.00 0.000000 Waterials Yes	\$32.05 \$394.62	EA	1.0890 1.0890 Total:	\$1,068.24 \$0.00 \$1,068.24 \$3,008.19
Accepted		Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC) History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted Includes Labor Yes Includes Equipment 2" Brass Threaded Gate Valve	Installation Demo: It Yes Includes	6.00 0.000000 Materials Yes	\$32.05	EA	1.0890 1.0890 Total:	\$1,068.24 \$0.00

\$3,008.19

Total:

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

118	328423000502	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	Installation	805.00	\$44.05	EA	1.0890	\$38,616.21	
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$17.72	EA	1.0890	\$0.00	

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$38,616.21
119	328423000515	1 - Single Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	Installation	1.00	\$518.13	MLF	1.0890	\$564.24
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$13.35	MLF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$564.24
120	328423000517	1 - Single Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	Installation	1.00	\$664.37	MLF	1.0890	\$723.50
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$13.35	MLF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$723.50
121	328423000534	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	Installation	3,500.00	\$3.06	LF	1.0890	\$11,663.19
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$1.12	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$11,663.19

By Division

Version: 2.0 Approved

ed Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

122	328423000537	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	Installation	731.00	\$6.21	LF	1.0890	\$4,943.53
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$2.12	LF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$4,943.53
123	328423000679	Thrust Block For 1-1/2" Pipe Size And Smaller	Installation	155.00	\$30.11	EA	1.0890	\$5,082.42
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Modified, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$5,082.42
124	328423000680	Thrust Block For 2" Pipe	Installation	25.00	\$51.82	EA	1.0890	\$1,410.80
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$1,410.80
125	329113160003	Hardwood Bark Nugget Mulch	Installation	97.00	\$104.46	CY	1.0890	\$11,034.42
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total:	\$11,034.42
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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements

Approved Date: August 2, 2023 Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

126	329113260006	Prepare And Mix Plant Bed By	Installation	10.500.00	\$4.95	SF	1.0890	\$56,600,78	
.20	02011020000	Hand, 9" To 13" Deep	otaliation	10,000.00	Ψσσ	0.		φου,σουσ	
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SF	1.0890	\$0.00	

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$56,600.78
127	329113260013	Excavate Planting Pit By Hand, Sandy Soil	Installation	75.00	\$74.56	CY	1.0890	\$6,089.69
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$6,089.69
128	329113260018	Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	Installation	75.00	\$99.86	CY	1.0890	\$8,156.07
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$8,156.07
129	329113260023	4 Oz/SY Woven, Polypropylene Weed Barrier	Installation	1,167.00	\$2.04	SY	1.0890	\$2,592.56
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SY	1.0890	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials Yes

Total:	\$2,592.56
Total.	\$2,392.30

By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

130	329113360003	Rake Topsoil By Hand	Installation	10.00	\$59.64	MSF	1.0890	\$649.48
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	MSF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$649.48
131	329119130012	Furnish And Place Amended Topsoil	Installation	75.00	\$35.84	CY	1.0890	\$2,927.23
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$2,927.23
132	329119130017	Up To 5,000 SF Scarify >8" To 12" Soil With Machine	Installation	10.00	\$80.37	MSF	1.0890	\$875.23
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	MSF	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$875.23
133	329313000012	1 Gallon, Koeleria glauca - Blue Hair Grass	Installation	1,620.00	\$18.99	EA	1.0890	\$33,501.78
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User	Note:	autumin	moor	grass
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Item Note:

Total: \$33,501.78

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

134	329313000019	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	Installation	50.00	\$45.02	EA	1.0890	\$2,451.34
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: shorty mat rush

Item Note:

							Total:	\$2,451.34
135	329313000035	15 Gallon Agave Attenuata - Century Plant	Installation	250.00	\$63.38	EA	1.0890	\$17,255.21
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: shaw agave

Item Note:

							Total:	\$17,255.21
136	329313000048	5 Gallon Trachelospermum Jasminoides - Star Jasmine	Installation	35.00	\$13.46	EA	1.0890	\$513.03
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

							Total:	\$513.03
137	329313000050	5 Gallon Westringia Fruticosa - Coast Rosemary	Installation	200.00	\$13.11	EA	1.0890	\$2,855.36
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

Total: \$2,855.36

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By Division

Version: 2.0

Approved J

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order: MTSJOC347-05

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

138 329313000207 15 Gallon Agave americana -Installation 120.00 \$60.60 EΑ 1.0890 \$7,919.21 Century Plant Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 EΑ 1.0890 \$0.00 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: dwarf hawthorn

Item Note:

							Total:	\$7,919.21
139	329333000389	5 Gallon Ligustrum lucidum - Glossy Privet	Installation	32.00	\$31.11	EA	1.0890	\$1,084.12
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: torch aloe

Item Note:

							Total:	\$1,084.12
140	329333000746	5 Gallon Border Forsythia - Goldenbells	Installation	85.00	\$44.17	EA	1.0890	\$4,088.60
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: aloe vera

Item Note:

							Total:	\$4,088.60
141	329343000949	15 Gallon Phoenix roebelenii - Pygmy Date Palm	Installation	35.00	\$72.97	EA	1.0890	\$2,781.25
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: sago palm

Item Note:

Total: \$2,781.25

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By Division

Version: 2.0 Approved

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Approved Date: August 2, 2023 Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

142	329383000034	1 Gallon Container Shrub Planting	Installation	1,620.00	\$15.85	EA	1.0890	\$27,962.25
Accepted		History:	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Planting of the 1,620 1-gals

Item Note:

							Total:	\$27,962.25
143	329383000038	5 Gallon Container Shrub Planting	Installation	402.00	\$46.60	EA	1.0890	\$20,400.45
Accepted		History:	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Planting of the 402 5-gals

Item Note:

							Total:	\$20,400.45
144	329383000041	15 Gallon Container Shrub Planting	Installation	45.00	\$115.56	EA	1.0890	\$5,663.02
Accepted		History:	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Planting of the 405 15-gals

Item Note:

							Total:	\$5,663.02
145	329449000005	Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	Installation	12.00	\$61.58	EA	1.0890	\$804.73
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: 4 trees x 3 guying post per trees

Item Note:

					Total:	\$804.73
34 Transportation						\$52,882.62
Record # CSI Number Description	Туре	Quanity	Unit Price	иом	Factor	Line Total

Page 46 of 48

By Division

Version: 2.0 Approved

Accepted

Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order N

Job Order Name: Grantville Hardscape and Landscape Improvements

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Approved Date: August 2, 2023

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

146 344113000200 Pole Base Foundation for Type Installation 13.00 \$3,735.44 EA 1.0890 \$52,882.62 15 and 21 Poles

History: 1.1 Added, 1.2 Modified, 1.3 Demo: 0.000000 \$1.15 EA 1.0890 \$0.00

Modified, 1.4 Modified, 1.5 Modified, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Owner Comments: V:1.2-There is not a stand alone camera pole

V:1.4-should only be 4, there is not an independent camera pole

User Note: 2 light pole foundation 2 VMS pole foundation

10 Shelter

Item Note:

							Total:	\$52,882.62
50 Custon	n Standards And	Assemblies						\$27,580.17
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
147	508982120002	CALTRANS 120116 TYPE II BARRICADE	Installation	720.00	\$27.42	EA	1.0890	\$21,499.47
Accepted		History: 1.1 Added, 1.2 Clarification Requested, 1.3 Clarified, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00
		Includes Labor Yes Includes Equipmen	nt Yes Includes I	Materials Yes				
c	wner Comments:	V:1.2-Justify, you will not be purchasing new	barricades every o	day.				
Contr	ractor Comments:	V:1.3-TC 12 set up every day for 12 weeks (Estimated	construction durat	tion)				
	User Note:	12 set up every day for 12 weeks						
	Item Note:							
							Total:	\$21,499.47

							Total.	\$21,499.4 <i>1</i>
148	508982120012	CALTRANS 120182 PORTABLE DELINEATOR	Installation	300.00	\$15.70	EA	1.0890	\$5,129.19
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 1.4 Accepted, 1.5 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0890	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: 50 set up every day for 12 weeks (12 weeks x 5 days 5 50/day = 3000)

Item Note:

Total: \$5,129.19

By Division

Version: 2.0 Approved

ed Job Order: MTSJOC347-05

Proposal Value: \$968,743.63 Job Order Name: Grantville Hardscape and Landscape Improvements
Approved Date: August 2, 2023

Location: Grantville Station 4510 Alvarado Canyon Rd San Diego, CA 92120

Contractor: ABC General Inc. Contract Number: PWG347.0-22

Contract Name: JOC CIVIL CONSTRUCTION SERVICES

149 508983200035 CALTRANS 206005 EDGING Installation 75.00 \$11.65 LF 1.0890 \$951.51 History: 1.1 Added, 1.2 Accepted, 1.3 0.000000 \$0.00 LF 1.0890 \$0.00 Accepted Demo:

Accepted, 1.4 Accepted, 1.5 Accepted, 2.0

Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

Total: \$951.51

Proposal Total: \$968,743.63

Div The Percentage of Non Pre-Priced on this Proposal: 0.0%

EXHIBIT C (Subcontractor Listing)

San Diego Metropolitan Transit System

1255 Imperial Ave San Diego, CA 92101



Date: 8/15/2023

Job Order Contracting

Subcontractor Report

Contract #: PWG347.0-22

Job Order #: MTSJOC347-05

Job Order Title: Grantville Hardscape and Landscape Improvements

Job Order Value: \$968,743.63

Location: Grantville Station **Contractor:** ABC General Inc.

Subcontractors: ELECTRO SPECIALTY SYSTEMS (ESS)

Harborside Construction Inc Koch General Engineering the doctor of electricity

Titan Steel

Subcontractor Name	License Number	Describe Nature of Work (Trade)	Certifications	Subcontractor Total	%
ELECTRO SPECIALTY SYSTEMS (ESS) 7940 Convoy Ct, San Diego, CA 92111	524465	VMS Data		\$12,886.00	1.33%
Harborside Construction Inc 2010 Garrison Way, El Cajon, CA 92019	730817	New Stucco		\$36,000.00	3.72%
Koch General Engineering PO Box 1190, Lakeside, CA 92040	1023489A	Place Concrete & Landscape		\$718,832.95	74.20%
the doctor of electricity 41815 Hawthorne Street, Murrieta, CA 92562	517763	Electrician		\$21,575.00	2.23%
Titan Steel 955 VERNON WAY, El Cajon, CA 92020	537924	VMS Offsite Fabrication		\$15,331.95	1.58%

Summary

Certification Name	Value	%
	\$804,625.90	74.20%
Total	\$804,625.90	83.06%



Agenda Item No. 8

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Grantville Transit-Oriented Development (TOD) Painting - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to:

- Rescind the award and direction to execute MTS Doc. No. PWL370.0-23 to Prime Painting Contractors Inc. for Grantville Station Painting Improvements, approved by Agenda Item No. 13 at the July 27, 2023 MTS Board of Directors Meeting;
- 2) Execute MTS Doc. No. PWL370.0-23 (in substantially the same format as Attachment A), with All Source Coatings Inc., a certified Small Business, for the Grantville Station Painting Improvements in the amount of \$1,746,000.00; and
- 3) Authorize the CEO to execute amendments or change orders up to a 20% contingency (\$349,200) for this construction contract, bringing total expenditure authority to \$2,095,200.00.

Budget Impact

The total cost of this contract is estimated to be \$2,095,200.00; total bid amount of \$1,746,000.00 plus 20% contingency. This project is funded by MTS Capital Improvement Projects (CIP) 2006116301 Grantville Station Improvements. A portion of this work is funded by the California Department of Housing & Community Development (HCD) TOD Infrastructure grant.

DISCUSSION:

As further explained below, on July 27, 2023 (Al 13), the MTS Board of Directors authorized the CEO to execute a contract with Prime Painting Contractors Inc. for the Grantville Station Painting Improvements. After further review of their bid in anticipation of executing the contract, staff identified that the bid was not responsive because it did not comply with a material requirement related to minimum self-performance. Therefore, it is recommended to award to



the second lowest responsive and responsible bidder, All Source Coatings, Inc. The following provides overall background on this project and the history of this solicitation.

Grantville Transit Center – MTS Improvement Projects

On June 13, 2019 (AI 33) and as amended on April 8, 2021 (AI 18), the MTS Board of Directors authorized Disposition and Development Agreements for two transit-oriented developments at the Grantville Transit Station. The two developments included a 100% affordable housing development of 125 apartment homes with Grantville Trolley Family Housing, L.P. (an affiliate of Affirmed Housing Group, Inc., collectively "Affirmed"), and another with Greystar for a market rate multi-residential development of 250 apartment homes. As part of the project, 100 transit replacement transit parking spots were constructed as part of the Greystar development.

In January 2021, the California Department of Housing & Community Development (HCD) awarded a total of \$11,995,000 to Affirmed for their affordable housing development at the Grantville Trolley Station. The HCD grant was divided into two parts: a \$10,000,000 loan for construction of the affordable housing development, to be managed by Affirmed, and a \$1,995,000 grant for Infrastructure Projects, to be managed by MTS.

Of the \$1,995,000 in Infrastructure Grant Funds, \$599,000 of it is allocated to pay for Affirmed's cost share for 33 trolley replacement parking spaces constructed in the Greystar development. The remaining \$1,396,000 was available for MTS to implement various improvement projects at the Grantville Transit Center. During the Capital Improvement Program (CIP) Budgeting process, the MTS Board also allocated additional funds to complete the identified Grantville Transit Center projects. Identified projects include painting, hardscape, landscaping, lighting, closed circuit surveillance cameras, and additional variable message signs and PRONTO validators. The total CIP budget estimates for all projects is \$3.4 million. By timing the projects to be completed close to the opening of the Affirmed and Greystar apartment projects, riders will enjoy a fully refurbished station experience.

Today's proposed action relates to the painting portion of the identified Grantville Transit Center improvement projects. Painting is the largest individual project. Today's action would award a contract to paint the elevated steel guideway structure at the trolley station. The existing paint has faded due to sun exposure and as a result the station appearance is not up to MTS standards. With the joint developments under construction and more than 375 apartments with occupancy planned in the next 12 months, now is the time to improve the appearance of the structure. In addition to the station paint, the project will also remove and upgrade the bird deterrents around the structure.

This contract would cover the paint and related work portion of the Grantville Station Improvements CIP. The contract includes:

- Full preparation of all existing metals (currently painted teal/green/blue), priming, and application of high-performance coating system to help preserve existing metals, as well as improve appearance of station and state of repair, including the existing bus shelters.
- Full removal and replacement of bird deterrent systems to ensure cleanliness and state
 of good repair at the station.

Procurement Process – Grantville Transit Center Paint Project

On May 1, 2023, staff issued an Invitation for Bids (IFB). A total of three (3) bids were received:

GRANTVILLE TOD PAINTING IFB					
COMPANY NAME	FIRM CERTIFICATION	BID AMOUNT			
MTS – Independent Cost Estimate (ICE)		\$1,772,810			
Prime Painting Contractors Inc. (Deemed Non Responsive)	SB	\$1,330,000			
All Source Coatings Inc.	SB	\$1,746,000			
U.S National Corp	SB	\$2,293,700			

On July 3, 2023, MTS issued a Notice of Intent to Award to Prime Painting Contractors Inc. No protests were received. On July 27, 2023 (Al 13), the MTS Board of Directors approved a contract award to Prime Painting Contractors Inc., for \$1,596,000, which was comprised of a total bid amount of \$1,330,000 plus 20% contingency of \$266,000.

After further review, and before contract execution, MTS staff discovered that Prime Painting Contractors Inc. did not fulfill a material requirement in the IFB to self-perform a minimum of 30% of the work. Prime Painting Contractors Inc. had subcontracted out \$1,177,000 (88.50%) of the work amongst three (3) subcontractors, meaning the percentage to be self-performed was only 11.50%. MTS includes a self-perform minimum requirement on MTS's construction projects, consistent with industry standards. A self-perform minimum requirement helps to ensure the prime contractor's workforce is one that is experienced and qualified to perform a portion of the work and that the prime contractor will have sufficient control over schedule and performance of the project. Further, a self-perform requirement helps to ensure that the prime contractor is not merely being paid to oversee the work of its subcontractors.

MTS deemed the bid to be non-responsive on August 29, 2023 for not meeting a material requirement of the IFB, and moved to the 2nd lowest responsive, responsible bidder, All Source Coatings Inc. On August 29, 2023, MTS issued a Notice of Intent to Award to All Source Coatings Inc. There is a 15-day protest period which ends on September 13, 2023 (one day before the September 14, 2023 MTS Board of Directors Meeting). If a protest is received, MTS will review and as necessary, may pull this agenda item.

Based on the bids received, and in comparison, with the ICE at \$1,772,810, MTS staff deems All Source Coatings Inc. bid at \$1,746,000 to be price to be fair and reasonable.

All Source Coatings Inc. will not be utilizing any subcontractors as shown in Attachment C.

Therefore, staff recommends that the MTS Board of Directors:

- 1) Rescind the award and direction to execute MTS Doc. No. PWL370.0-23 to Prime Painting Contractors Inc. for Grantville Station Painting Improvements, approved by Agenda Item No. 13 at the July 27, 2023 MTS Board of Directors Meeting;
- 2) Execute MTS Doc. No. PWL370.0-23 (in substantially the same format as Attachment A), with All Source Coatings Inc., a certified SB, for the Grantville Station Painting Improvements in the amount of \$1,746,000.00; and

Agenda Item No. 8 September 14, 2023 Page 4 of 4

3) Authorize the CEO to execute amendments or change orders up to a 20% contingency (\$349,200) for this construction contract, bringing total expenditure authority to \$2,095,200.00.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft Agreement MTS Doc No.PWL370.0-23

B. Bid Price Form

C. All Source Coatings Subcontractor Form



STANDARD CONSTRUCTION AGREEMENT

FOR

MTS DOC. NO. PWL370.0-23

GRANTVILLE TOD PAINTING

THIS AGREEMENT is entered into th	is day of		2023, in the State of California	
by and between San Diego Metropo		("MTS"),	a California public agency, and the	
following, hereinafter referred to as "C	Contractor":			
Name: ALL SOURCE COATINGS,	INC.	Address:	10625 SCRIPPS RANCH BLVD.	
			SUITE A, SAN DIEGO, CA 92131	
Form of Business: CORP				
(Corporation, Partnership, Sole P	roprietor, etc.)	Email:	jerry@allsourceco.com	
Telephone: 858-586-0903		•		
Authorized person to sign contracts	Jerry Zumbro		President	
	Name		Title	

The specified Contract Documents are part of this Agreement. The Contractor agrees to furnish to MTS services and materials, as follows:

Contractor shall furnish all necessary management, supervision, labor, materials, tools, supplies, equipment, plant, services, engineering, testing and/or any other act or thing required to diligently and fully perform and complete the Project as specified in accordance with the Standard Agreement and General Conditions (Exhibit A), Scope of Work, Special Conditions and Attachments (Exhibit B), Bid Price Form (Exhibit C), and Forms (Exhibit D)

SCOPE OF WORK

Contractor, for and in consideration of the payment to be made to Contractor as hereinafter provided, shall furnish all plant, labor, technical and professional services, supervision, materials and equipment, other than such materials and equipment as may be specified to be furnished by MTS, and perform all operations necessary to complete the Work in strict conformance with the Contract Documents (defined below) for the following public work of improvement:

GRANTVILLE TOD PAINTING

Contractor is an independent contractor and not an agent of MTS. The Contractor and its surety shall be liable to MTS for any damages arising as a result of the Contractor's failure to comply with this obligation.

MTS Doc No: PWL370.0-23

GRANTVILLE TOD PAINTING



CONTRACT TIME.

Time is of the essence in the performance of the Work. The Work shall be commenced by the date stated in MTS's Notice to Proceed. The Contractor shall complete all Work required by the Contract Documents within **180 calendar days** from the commencement date stated in the Notice to Proceed. By its signature hereunder, Contractor agrees the Contract Time is adequate and reasonable to complete the Work.

CONTRACT PRICE.

MTS shall pay the Contractor as full compensation for the performance of the Contract, subject to any additions or deductions as provided in the Contract Documents, and including all applicable taxes and costs, the sum of one million three hundred thirty three thousand Dollars (\$ 1,330,000.00). Payment shall be made as set forth in the General Conditions.

PROVISIONS REQUIRED BY LAW.

Each and every provision of law required to be included in these Contract Documents shall be deemed to be included in these Contract Documents. The Contractor shall comply with all requirements of the California Labor Code applicable to this Project.

INDEMNIFICATION.

Contractor shall provide indemnification as set forth in the General Conditions.

PREVAILING WAGES.

Contractor shall be required to pay the prevailing rate of wages in accordance with the Labor Code which such rates shall be made available at MTS's Administrative Office or may be obtained online at http://www.dir.ca.gov and which must be posted at the job site.

SAN DIEGO METROPOLITAN TRANSIT SYSTEM	ALL SOURCE COATINGS, INC.		
Ву:			
Sharon Cooney, Chief Executive Officer	Ву		
Approved as to form:			
Ву:	Title:		
Karen Landers, General Counsel			

GRANTVILLE TOD PAINTING (PWL370.0-23)

BIDDER: ALL SOURCE COATINGS, INC.

Item Num	Description	Unit of Measure	Quantity	All Source Coatings Inc - Unit Price	All Source Coatings Inc - Line Total
1	Mobilization	EA	1	\$35,000.00	\$35,000.00
2	Demobilization	EA	1	\$35,000.00	\$35,000.00
3	Supervision	LS	1	\$50,000.00	\$50,000.00
4	Temporary Facilities	LS	1	\$5,000.00	\$5,000.00
5	Temporary Controls	LS	1	\$5,000.00	\$5,000.00
6	Surface Preparation	LS	1	\$80,000.00	\$80,000.00
7	Surface Painting	LS	1	\$850,000.00	\$850,000.00
8	Elevated work plan (Rolling scaffold, stationary scaffold, man lift	LS	1	\$350,000.00	\$350,000.00
9	Bird Netting/ Bird Spikes/Deterrents	LS	1	\$300,000.00	\$300,000.00
10	Payment and Performance Bond	LS	1	\$18,000.00	\$18,000.00
11	Bid Bond	LS	1	\$18,000.00	\$18,000.00
			Bid Total		\$1,746,000.00
			Contingency	20%	\$349,200.00

Total After Contingency

\$2,095,200.00

Subcontractor					Any time there is a change to a Subcont	cractor resubmit this attachmer Contract Code sections 4100				le in accorda	ınce with Public		
Company Name	Type of DBE	% of Work	DIR Number	Dollar Value	Description of Work	Point of Contact First Name	Point of Contact Last Name	Email	Phone Number	Street Address	City	State	Zip
Self Performed - All Sour	ce Coatings Inc												



Agenda Item No. 9

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

San Diego State University (SDSU) Tunnel Smoke Control Upgrades – Sole Source Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. PWL378.0-24, a Sole Source agreement (in substantially the same format as Attachment A), with Drake Integrations LLC (Drake Integrations), for provision of Smoke Control Upgrades at the SDSU tunnel, for a five (5) year period, in the amount of \$299,000.

Budget Impact

The total cost of this contract is estimated to be \$299,000 and will be funded by Capital Improvements Program (CIP) funding #2008122101.

DISCUSSION:

The MTS SDSU Transit Center tunnel requires a smoke control system, which provides emergency ventilation if smoke is ever identified. Prior to 2018, MTS utilized a LonWorks Networking Management (LonWorks) smoke control system, that was maintained by MTS Maintenance of Way staff. In early 2018, it was identified that the LonWorks system was obsolete and would need to be decommissioned. MTS reviewed the system peripherals, and available products on the market, and determined that the Distech Management System (Distech) smoke control system should replace it, which is the smoke control system currently in use.

Distech was identified as the only product that could meet all of the following requirements: (a) meets minimum California Department of Forestry and Fire Protection (CalFire) life and safety requirements; (b) meets MTS's operational needs, based on its computer graphic interface so MTS can review the systems functions at the operational control center (OCC) and at the SDSU Transit Center; (c) Distech's ability to connect to the Sapphire Novec 1230 Fire Suppression system, which again not only allows OCC to monitor, but also MTS's fire alarm maintenance contractor. Both of these connections are imperative so that MTS and MTS's contractors can be notified immediately if there is any smoke in the tunnel, and to provide subsequent notice to CalFire.



Recently MTS has been made aware of some programming updates related to the current Distech fire management system controller, which is a component of the overall Distech system. The currently used fire management system controller will be decommissioned. To ensure the fire management system controller is in good working repair, the current Version 9 fire management system controller needs to be upgraded to Version 10. This controller is a critical component of the smoke control system. MTS cannot allow it to not be functioning or supported, as the smoke control system must be in good operational condition at all times to ensure the safety of passengers if there is ever smoke identified in the tunnel.

This is a proprietary system and to ensure MTS complies with Distech's warranty, Distech requires that only Distech certified vendors, and their qualified engineers, can program and upgrade the controller to Version 10. MTS is of the understanding there is no other Distech certified vendor that works in this area besides Drake Integrations.

In 2017, Drake Integrations was awarded the contract to replace the LonWorks system and to procure, install and program the Distech system (MTS Doc No. PWL237.0-17). Drake Integration's engineer is the designer of record for MTS's Distech smoke control system. Since Drake Integrations installed and programmed the Distech system for MTS, they are uniquely knowledgeable of the codes and requirements needed for the project and also the existing programming and functionality of Distech. If there were any other known certified Distech vendors available, those vendors would not be able to upgrade this controller without significant time and costs, as they would need to develop an understanding and knowledge of all of MTS's smoke control system components and functionalities and layout from scratch, including redoing the control drawings (as-builts), training programs and operation and maintenance procedures. In other words, reverse engineering all of the programming built into the system, which likely would take hundreds of hours of engineering time that has already been completed from the 2017 installation by Drake Integrations.

Maintaining compliance, continuity and functionality of the system is a critical and urgent matter. Drake Integrations has the necessary experience with the system, requisite certifications, security clearances, and necessary understanding of the overall requirements of the SDSU tunnel.

Per MTS Board Policy No. 52, "Procurement of Goods and Services", MTS is permitted to utilize a documented Sole Source procurement method when goods or services needed are available from only one responsible and responsive source and no other goods or services will satisfy its requirements. MTS staff finds that Drake is the only vendor that can install the upgrades for the Distech.

The costs are as follows:

Service Description	Price
Smoke Control System Upgrade 10th Edition	\$220,000
Uninterruptible Power Supply (UPS) & Inverter System Upgrades	\$79,000
Contract Total	\$299,000

MTS's Independence Cost Estimate (ICE) is \$290,977.00, a difference of 3%, a price that staff deems to be fair and reasonable.

Agenda Item No. 9 September 14, 2023 Page 3 of 3

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute MTS Doc. PWL378.0-24, a Sole Source agreement (in substantially the same format as Attachment A), with Drake Integrations LLC (Drake Integrations), for provision of Smoke Control Upgrades at the SDSU tunnel for a five (5) year period, in the amount of \$299,000.

/S/ Sharon Cooney

Sharon Cooney
Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft Agreement, MTS Doc. No. PWL378.0-24

B. Scope of Work and Costs



STANDARD AGREEMENT

FOR

MTS DOC. NO. PWL378.0-24

SDSU TUNNEL SOMKE CONTROL SYSTEM UPGRADE

THIS AGREEMENT is entered into this _ by and between San Diego Metropolitar following, hereinafter referred to as "Control of the control of	n Transit System			ate of California gency, and the
Name: Drake Integrations LLC	Address:	500 S. 8th St	reet	
		Boise	ID	83702
Form of Corporation Business:	_	City	State	Zip
(Corporation, Partnership, Sole Proprietor, etc.)	Email:	finlay@drake	eintegrations.co	<u>m</u>
Telephone: <u>760-707-7379</u>				
Authorized person to sign contracts	Finlay L. Drake		President	
	Name		Title	
The Contractor agrees to provide service Work and Pricing (Exhibit A), and in a Conditions (Exhibit B) and Forms (Exhibit The contract term is for a five year period Payment terms shall be net 30 days from \$299,000.00 without the express written	ccordance with the tension of the consent of MTS.	ne Standard A	greement, incl gh September this contract s	uding Standard 30, 2028. hall not exceed
SAN DIEGO METROPOLITAN TRANSIT	SYSTEM	DRAKE	INTEGRATIONS	SLLC
By:				
Sharon Cooney, Chief Executive	Officer By			
Approved as to form:				
Ву:	Titl	e:		
Karen Landers, General Cou	nsel	-		







Date Services to be Performed by:

August 17, 2023

Drake Integrations LLC

500 S. 8th Street Boise, ID 83702 Services to be Performed for:

Metropolitan Transit System – SDSU Transit Center

1255 Imperial Avenue, Suite 1000 San Diego, CA 92101

PROJECT DESCRIPTION

The MTS SDSU Transit Center smoke control system was upgraded in early 2018 from a LonWorks based system to a Distech Controls UUKL Smoke Control Niagara^{AX}-based system that complied with UL 864 UUKL 9th Edition utilizing EC-BOS-6^{AX} UUKL embedded controller/servers and UUKL BACnet programmable controllers and I/O extension modules. The End of Life (EOL) support for the Niagara^{AX}-based system was July 2021 and has been replaced by UL 864 UUKL 10th Edition that is based on the Niagara 4 Framework and EC-BOS-8 UUKL embedded controller/servers (see attached datasheet). Fortunately, the existing UUKL BACnet programmable controllers and I/O extension modules would only need a firmware upgrade to be following the 10th edition. Note that there is currently no EOL date determined yet for the 10th Edition based system but will notify MTS as soon as this has been provided by Distech Controls.

In order to maintain the most reliable and resilient system possible, it is recommended to upgrade the current 9th edition-based system to the latest 10th edition. It should be noted that in the interim, should an existing EC-BOS-6^{AX} controller fail, the new EC-BOS-8 hardware can be utilized temporarily as it can be downgraded to the "AX" firmware to function with the existing system until the entire system is fully upgraded.

Additionally, the Distech Controls Niagara EC-Net Supervisor and the graphical user interface (GUI) software, expressEnvysion, is hosted on a physical server located in the Security Office. This server is running an older Windows Server Operating System (OS) and is recommended to be replaced with an upgraded server running Windows Server 2019 OS. Utilizing a new server versus just upgrading the existing server OS will allow for much of the upgrade process to occur "offline", which will allow the field cutover transition time to be much shorter. Note that the expressEnvysion GUI software is in the process of being replaced by a new GUI software, which has yet to be officially released. Therefore, it will be recommended to be upgraded in a future project.

One further recommendation is to replace all of the existing CTRLink EIS fiber-to-ethernet converters as it was discovered during a preventative maintenance visit on May 12, 2021, that some were found to be leaking oil (see attached site visit/field report by Performance Automation Solutions).

UL® 864 UUKL SMOKE CONTROL SYSTEM UPGRADE 10TH EDITION

The following outlines the scope required to upgrade the system from 9th edition to 10th edition:

- Update the Smoke Control System Drawings as necessary, including:
 - Network Architecture
 - o Panel Layouts
 - Wiring Diagrams
 - o Installation Details
- Replace all twelve (12) EC-BOS-6AX with EC-BOS-8 UUKL embedded controller/servers
- Replace all CTRLink EIS fiber-to-ethernet converters with new
- Install Distech Niagara 4 EC-Net Supervisor and expressEnvysion software on a new MTS-provided server with Windows Server 2019 OS. Niagara 4 EC-Net Supervisor to be provided with a 5-year software maintenance agreement (SMA) (see attached datasheet). Labor costs for the implementation of future software updates is to be covered under the "Software & Firmware Updates" section below.
- Upgrade existing AX database to Niagara 4
- Upgrade the firmware of UUKL BACnet programmable controllers and I/O extension modules
- Provide one (1) of each for additional spare stock:
 - o EC-BOS-8 UUKL
 - o ECB-600 UUKL
 - o ECX-400 UUKL
- Provide onsite testing and validation with MTS representative (~2-3 days)
- Provide updated as-built drawings (3 hard copies)
- Provide updated operation & maintenance manuals (3 hard copies)
- Provide updated training agendas & documentation
- Provide onsite training (1 day)

EXCLUSION & CLARIFICATIONS

- Drake Integrations is not responsible or liable for any damages, injuries, or loss of life as a result of the existing or upgraded Smoke Controls System.
- Pricing Includes Night/Weekend Work, as necessary
- Excludes any additional labor or materials required to achieve a fully code compliant smoke control system other than what is listed above.
- Excludes the addition of a Firefighter's Smoke Control Station (FSCS), if required.
- Excludes replacement/repair of any field devices such as dampers, sensors, switches, etc.
- Excludes costs associated with Fire Watch
- Excludes controls for any equipment or system not listed above.
- Excludes bond
- Excludes UL certification of existing control enclosures.
- Excludes any new fiber optic cables or repair of fiber optic cable.
- Warranty covers labor and material for one (1) year after acceptance of the system.

PRICING SCHEDULE & TERMS

Description	Fee
Materials	\$120,000
Labor	\$100,000
TOTAL	\$220,000

Invoicing will be submitted monthly or after each phase of completion. Payment terms will be 30 days upon receipt of invoices.

UPS & INVERTER SYSTEM UPGRADES

The MTS SDSU Transit Center will be upgrading the Uninterruptible Power System (UPS) and Inverters in the East & West Electrical Rooms to remain in compliance with the National Fire Protection Association (NFPA). These components provide power to critical infrastructure and lighting at SDSU. As part of this upgrade, the Distech system will be expanded to monitor the new equipment. The new controls will be on the non-UUKL portion of the Smoke Control System which currently monitors and controls the existing Lonworks Lighting Control Panels (East & West).

The following outlines the scope required to monitor the new equipment:

- Update the Smoke Control System Drawings as necessary, including:
 - Network Architecture
 - o Panel Layouts
 - Wiring Diagrams
 - Installation Details
- Provide new Modbus or BACnet communication to new UPS' & Inverters:
 - o West:
 - INV-W serving CHWM
 - UPS-W serving CLWM1&2, CLWP1
 - o East:
 - INV-E serving CHEM
 - UPS-E serving CLEM1&2, CLEP1
- Provide new non-UUKL BACnet programmable controllers to monitor the Hydrogen Alarm System. Will provide new Modbus or BACnet communication to the Hydrogen Alarm System if it is equipped with the proper communication module. Hydrogen Alarm System is to be provided and installed by others.
- Upgrade existing AX database to Niagara 4
- Provide new graphics pages & alarms for the new equipment
- Provide one (1) of each for additional spare stock:
 - o ECB-600 non-UUKL
- Coordinate with UPS, Inverter and Hydrogen Technicians for proper integration and testing
- Provide onsite testing and validation with MTS representative (~2-3 days)
- Provide updated as-built drawings (3 hard copies)

- Provide updated operation & maintenance manuals (3 hard copies)
- Provide updated training agendas & documentation
- Provide onsite training (1 day)

EXCLUSION & CLARIFICATIONS

- Drake Integrations is not responsible or liable for any damages, injuries, or loss of life as a result of the existing or upgraded Smoke Controls System.
- Pricing Includes Night/Weekend Work, as necessary
- Excludes any additional labor or materials required to achieve a fully code compliant smoke control system other than what is listed above.
- Excludes the addition of a Firefighter's Smoke Control Station (FSCS), if required.
- Excludes replacement/repair of any field devices such as dampers, sensors, switches, etc.
- Excludes costs associated with Fire Watch
- Excludes controls for any equipment or system not listed above.
- Excludes bond
- Excludes UL certification of existing control enclosures.
- Excludes any new fiber optic cables or repair of fiber optic cable.
- Warranty covers labor and material for one (1) year after acceptance of the system.

PRICING SCHEDULE & TERMS

Description	Fee
Materials	\$19,000
Labor	\$60,000
TOTAL	\$79,000

Invoicing will be submitted monthly or after each phase of completion. Payment terms will be 30 days upon receipt of invoices.

LEGAL

COMPENSATION FOR ADDITIONAL SERVICES - In addition to the payments made to the Drake Integrations LLC, the "Client" shall pay Drake Integrations LLC for any additional services provided by Drake Integrations LLC above and beyond those listed above.

ARBITRATION. Any controversies or disputes arising out of or relating to this Contract shall be resolved by binding arbitration in accordance with the then-current Commercial Arbitration Rules of the American Arbitration Association. The parties shall select a mutually acceptable arbitrator knowledgeable about issues relating to the subject matter of this Contract. In the event the parties are unable to agree to such a selection, each party will select an arbitrator and the two arbitrators in turn shall select a third arbitrator, all three of whom shall preside jointly over the matter. The arbitration shall take place at a location that is reasonably centrally located between the parties, or otherwise mutually agreed upon by the parties. All documents, materials, and information in the possession of each party that are in any way relevant to the dispute shall be made available to the other party for review and copying no later than 30 days after the notice of arbitration is served. The arbitrator(s) shall not have the authority to modify any provision of this Contract or to award punitive damages. The arbitrator(s) shall have the power to issue mandatory orders and restraint orders in connection with the arbitration. The decision rendered by the arbitrator(s) shall be final and binding on the parties, and judgment may be entered in conformity with the decision in any court having jurisdiction. The agreement to arbitration shall be specifically enforceable under the prevailing arbitration law. During the continuance of any arbitration proceeding, the parties shall continue to perform their respective obligations under this Contract.

ENTIRE AGREEMENT. This Contract contains the entire agreement of the parties, and there are no other promises or conditions in any other agreement whether oral or written concerning the subject matter of this Contract. This Contract supersedes any prior written or oral agreements between the parties.

SEVERABILITY. If any provision of this Contract will be held to be invalid or unenforceable for any reason, the remaining provisions will continue to be valid and enforceable. If a court finds that any provision of this Contract is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision will be deemed to be written, construed, and enforced as so limited.

AMENDMENT. This Contract may be modified or amended in writing, if the writing is signed by the party obligated under the amendment.

GOVERNING LAW. This Contract shall be construed in accordance with the laws of the State of California.

NOTICE. Any notice or communication required or permitted under this Contract shall be sufficiently given if delivered in person or by certified mail, return receipt requested, to the address set forth in the opening paragraph or to such other address as one party may have furnished to the other in writing.

WAIVER OF CONTRACTUAL RIGHT. The failure of either party to enforce any provision of this Contract shall not be construed as a waiver or limitation of that party's right to subsequently enforce and compel strict compliance with every provision of this Contract.

AGREEMENT

Drake Integrations appreciates the opportunity to service your company and if you accept this proposal and the terms above, please sign and date in the space below

CLIENT ACCEPTANCE:	DRAKE INTEGRATIONS:
Signature	Signature
	Finlay L. Drake, PE, CxA
Print Name	Print Name
	President
Title	Title
Date	Date



Agenda Item No. 10

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Construction Management (CM) Services for South Bay Zero Emission Bus (ZEB) Overheard (OH) Charging Infrastructure Installation – Work Order Amendment

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors:

- 1) Ratify Work Order WOA2501-CM01.2 under MTS Doc No. G2501.0-21 (Attachment A) with TRC Engineers, Inc. (TRC) totaling \$40,305.00, to provide additional survey and inspection staff;
- 2) Ratify Work Order WOA2501-CM01.3 under MTS Doc No. G2501.0-21 (Attachment B) with TRC totaling a savings adjustment of \$6,942.44, for the revision of the estimated work hours for each task: and
- 3) Authorize the Chief Executive Officer (CEO) to execute Work Order WOA2501-CM01.4 under MTS Doc. No. G2501.0-21 (in substantially the same format as Attachment C), with TRC, for additional CM services for the ZEB OH Charging Infrastructure Construction Project in the amount of \$421,142.48.

Budget Impact

The total budget for this contract shall not exceed \$1,825,070.96 over the duration of the CM services. This project is funded by MTS Capital Improvement Program (CIP) 1009113101 – Iris Rapid – Charging Infrastructure at South Bay Maintenance Facility (SBMF), and CIP 1009113001 – Iris Rapid – Route & Stations Infrastructure.

DISCUSSION:

On December 16, 2021 (Al 16), the MTS Board approved a construction contract with Palm Engineering Construction for the ZEB OH Charging Infrastructure Construction project at the South Bay Bus Maintenance Facility. The South Bay ZEB OH Charging Construction project



consists of the construction of a new overhead gantry system capable of providing charging to Battery Electric Buses (BEB's). The project consists of civil, electrical, and structural site improvements as well as new service from the local electrical utility to provide new primary switchgear for future BEB projects. New primary electric switchgear and duct banks are being installed with latency to provide future growth opportunities for anticipated expansion of BEB fleet growth at the facility, current duct bank design includes spare conduits capable of expanding the entire yard to BEB vehicles. Once complete, the South Bay facility will have the ability to charge twenty-four (24) battery electric buses as well as expand as needed for future overhead charging projects. The project is necessary to support MTS's overall ZEB Transition Plan, and the more immediate Iris Rapid Project, which will include 12 BEBs operating on a new Rapid 227 route between the Otay Mesa Transit Center and Imperial Beach.

In conjunction with the construction contract award, at the same meeting on December 16, 2021 (Al 12), the MTS Board of Directors authorized an agreement with TRC to provide construction management services for the SBMF ZEB OH Charging Infrastructure project. Construction management services are needed to assist MTS staff with the coordination, control, and oversight of the project from beginning of the work through completion and closeout.

The South Bay ZEB OH Charging Infrastructure Construction project is currently in construction and has experienced several delays including, but not limited to, supply chain issues, manufacturer delays, design changes and a work stoppage that has pushed the completion date of the project. Today's proposed action would authorize additional funding to maintenance sufficient construction management services throughout the expanded project timeline.

Under the proposed work order Amendment 4, TRC will continue to provide construction management services to augment MTS staff and provide oversight of the construction contractor and overall project. TRC will extend their construction management services as necessary to meet the revised completion date including resident engineering, field inspection, office engineering, project scheduling analysis, geotechnical testing and observations, hazardous materials testing, quality assurance (QA) source and field inspections to ensure the project is safely and successfully completed.

The Work Order, and subsequent Amendments are summarized below:

Work Order No.	Purpose	Amount	Board Approval Date
WOA2501-CM01	Original Work Order for the SBMF ZEB overhead charging infrastructure project.	\$796,363.18	12/16/21 (AI 12)
WOA2501-CM01.1	Additional CM services for the Iris Rapid Route construction project.	\$574,202.74	3/10/23 (AI 9)
WOA2501-CM01.2	Provide additional survey and inspection staff	\$40,305.00	CEO approval 2/14/23 per Board Policy No. 41
WOA2501-CM01.3	Revision of the estimated work hours for each task	(\$6,942.44)	CEO approval 2/24/21 per Board Policy No. 41
WOA2501-CM01.4	Provide additional CM services due to project delays	\$421,142.48	Today's proposed action
	TOTAL	\$1,825,070.96	

Agenda Item No. 10 September 14, 2023 Page 3 of 3

TRC's proposed amount of \$421,142.48 is less than MTS's Independent Cost Estimate (ICE) (\$423,060.72) and determined to be fair and reasonable.

Therefore, staff recommends that the MTS Board of Directors:

- 1) Ratify Work Order WOA2501-CM01.2 under MTS Doc No. G2501.0-21 (Attachment A) with TRC Engineers, Inc. (TRC) totaling \$40,305.00, to provide additional survey and inspection staff;
- 2) Ratify Work Order WOA2501-CM01.3 under MTS Doc No. G2501.0-21 (Attachment B) with TRC totaling a savings adjustment of \$6,942.44, for the revision of the estimated work hours for each task; and
- 3) Authorize the CEO to execute Work Order WOA2501-CM01.4 under MTS Doc. No. G2501.0-21 (in substantially the same format as Attachment C), with TRC, for additional construction management (CM)services for the ZEB OH Charging Infrastructure Construction Project in the amount of \$421,142.48.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachments: A. Executed Work Order WOA2501-CM01.2

B. Executed Work Order WOA2501-CM01.3 C. Draft Work Order WOA2501-CM01.4



Amendment 2

January 16, 2023

ZEB IRIS CM AMENDMENT

MTS Doc No. G2501.0-21 WOA2501-CM01.2

TRC Engineers Inc Jim Devey Project/Task Order Manager 4393 Viewridge Ave. Ste. A San Diego, CA 92123

This shall serve as Amendment No.2 to the original agreement WOA2501-CM01 as further described below.

SCOPE OF SERVICES

Provide additional survey and inspection staff for the ZEB / Iris Rapid Construction work (see MTS contract PWB342.0-22 and PWB333.0-21), in accordance with MTS and SANDAG policies and procedures. This Amendment shall replace *Attachment A, Scope of Services*, with Attachment A, Scope of Services Amendment 2 for a detailed summary of the services to be provided.

SCHEDULE

The project schedule shall follow MTS Project ZEB Construction (PWB333.0-21) and Iris Rapid Construction (PWB342.0-22).

PAYMENT

Payment for this Amendment shall authorize additional costs not to exceed \$40,305.00. The total value of this contract including this amendment shall be \$1,423,214.40. This amount shall not be exceeded without prior written approval from MTS.



Please sign and return the copy to the Contract Specialist at MTS. All other terms and conditions shall remain the same and in effect. Retain the other copies for your records.

Sincerely,

Sharon Cooney, Chief Executive Officer

Agreed:

Jim Devey, Project Manager

TRC Engineers Inc.

Attachments: A - Scope of Services Amendment 2

B - Negotiated Fee Proposal Amendment 2



Contract No.: G2501.0-21 Work Order No.: WOA2501-CM01.2 Attachment A

WORK ORDER TITLE: SBMF ZEB Overhead Charging Facility and Iris Rapid Corridor and Station Construction: **Amendment 2**

PROJECT DESCRIPTION

This Work order is comprised of two projects broken down into two separate construction phases.

SBMF ZEB OH Charging Phase 1:

Addition of Quality Assurance Surveying for South Bay Maintenance Facility ZEB Overhead Charging Facility.

Iris Rapid Corridor and Stations Phase 2:

Addition of Quality Assurance Surveying for 'Rapid" Bus Route between Otay Mesa Transit Center, the Iris Transit Center and Imperial Communities.

EXPECTED RESULTS 11.

The Contractor is expected to provide the scope of work and deliverables.

SCOPE OF WORK III.

Additional scope of work added as an amendment includes:

Construction Management and Inspection Services

- Monitor construction activities performed by the contractor per project plans and specifications, including periodic job site safety reviews.
 - QA Surveying and Construction Staking

PERIOD OF PERFORMANCE

Phase 1 ZEB: Follows the Zeb Construction schedule PWB333.0-21

Phase 2 IRIS: Follows the Iris Construction schedule. PWB342.0-22

DELIVERABLES

Deliverables will consist of the work products produced under direct supervision by MTS management which include:

1. Survey Staking in field with provided Staking Reports

SCHEDULE OF SERVICES/MILESTONES/DELIVERABLES

Tasks Schedule

Task Construction Management Services Project Closeout and Final Records Transmittal **Begin/End Dates**

See Zeb and Iris Rapid Construction See Zeb and Iris Rapid Construction

MTS Doc No. TBD

Work Order No.: TBD Attachment A

VII. MATERIALS TO BE PROVIDED BY MTS AND/OR SANDAG

- 1. Project drawings, specifications, and other pertinent project documents.
- 2. Necessary forms for project flaggers.
- 3. Flagging personnel for work alongside the MTS right-of-way.
- 4. MTS Roadway Worker training (if not current) for personnel to be working on the project, at all sites, alongside the MTS right-of-way.
- 5. Access to all signal and highway grade crossing facilities as required.

VIII. SPECIAL CONDITIONS

Not Applicable.

IX. MTS ACCEPTANCE OF SERVICES:

Firm shall not be compensated at any time for unauthorized work outside of this Work Order. Firm shall provide notice to MTS' Project Manager upon 100% completion of this Work Order. Within five (5) business days from receipt of notice of Work Order completion, MTS' Project Manager shall review, for acceptance, the 100% completion notice. If Firm provides final service(s) or final work product(s) which are found to be unacceptable due to Firms and/or Firms subcontractors negligence and thus not 100% complete by MTS' Project Manager, Firm shall be required to make revisions to said service(s) and/or work product(s) within the Not to Exceed (NTE) Budget. MTS reserves the right to withhold payment associated with this Work Order until the Project Manager provides written acceptance for the 100% final completion notice. Moreover, 100% acceptance and final completion will be based on resolution of comments received to the draft documents and delivery of final documentation which shall incorporate all MTS revisions and comments.

Monthly progress payments shall be based on hours performed for each person/classification identified in the attached Fee Schedule and shall at no time exceed the NTE. Firm shall only be compensated for actual performance of services and at no time shall be compensated for services for which MTS does not have an accepted deliverable or written proof and MTS acceptance of services performed.

X. DEFICIENT WORK PRODUCT:

Throughout the design and/or implementation phases associated with the services rendered by the Firm, if MTS finds any work product provided by Firm to be deficient and the deficiently delays any portion of the project, Firm shall bear the full burden of their deficient work and shall be responsible for taking all corrective actions to remedy their deficient work product including but not limited to the following:

- Paying applicable delay fees,
- Revising provided documents,

At no time shall MTS be required to correct any portion of the Firms deficient work product and shall bear no costs or burden associated with Firms deficient performance and/or work product.

XI. DELIVERABLE REQUIREMENTS

Firm shall be required to submit any and all documentation required by the Scope of Work. The deliverables furnished shall be of a quality acceptable to MTS. The criteria for acceptance shall be a product of neat appearance, well-organized, and procedurally, technically and grammatically correct. MTS reserves the right to request a change in the format if it doesn't satisfy MTS's needs. All work products shall become the property of MTS. MTS reserves the right to disclose any reports or material provided by the Firm to any third party.

Work Order No.: TBD Attachment A

Firm shall provide with each task, a work plan showing the deliverables schedule as well as other relevant date needed for Firm's work control, when and as requested by MTS.

Firm's computer data processing and work processing capabilities and data storage should be compatible with Windows compatible PC's, text files readable in Microsoft Word, and standard and customary electronic storage. Firm shall maintain backup copies of all data conveyed to MTS.

Firm shall provide MTS with hard copy or electronic versions of reports and/or other material as requested by MTS.

XII. ADDITIONAL INFORMATION

List additional information as applicable to the specific Work Order scope of services.

- · Services Not included in Scope of Work:
 - o Labor Compliance Monitoring
 - o Skilled and Trained Workforce requirements do not apply to consultant services

Work Order Estimate Summary

MTS Doc. No.

G2501.0-22

Work Order No.

WOA2501-CMO1.2

Attachment:

В

Work Order Title: Phase 1 ZEB OH - Ammendment 1
Phase 2 Iris Rapid Corridor - Ammendment 1

Project No:

Table 1 - Cost Codes Summary (Costs & Hours)

Item	Cost Codes	Cost Codes Description	Total Costs
1		PHASE 1 Construction Management and Inspection Services - Surveying	\$7,755.00
2		PHASE 2 Construction Management and Inspection Services - Surveying	\$32,550.00

\$40,305.00 Totals =

Table 2 - TASKS/WBS Summary (Costs & Hours)

Item	TASKS/WBS	TASKS/WBS Description	Labor Hrs	Total Costs
1		PHASE 1 Construction Management and Inspection Services	45.0	\$7,755.00
2		PHASE 2 Construction Management and Inspection Services	190.0	\$32,550.00

235.0 \$40,305.00 Totals =

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

(If Applicable, Select One)		t One)				
DBE	DVBE	SBE	Other	Consultant	Labor Hrs	Total Costs
				PHASE 1 Rick Engineering	45.0	\$7,755.00
				PHASE 2 Rick Engineering	190.0	\$32,550.00

\$40,305.00 Totals = 235.0

Att.A, AI 10, 09/14/23

Work Order Estimate Summary

Consultant/Subconsultant: Rick Engineering MTS Doc. No.: 45 Work Order No.: WOA2501-CMO1.2 Total Hours = Total Costs = \$7,755.00 Work Order Title: PHASE 1: South Bay Maintenance Facility - ZEB OH Charging Attachment: В Associate Survey Principal Surveyor **Assistant** Surveying **ODCs** Total (See Totals Hours Attachment) TASKS/WBS TASKS/WBS Description \$ 240.00 \$ 167.50 \$ 167.50 \$ Item 1 Task 1 QA Surveying
ODCs
Project Management and Communications \$720.00 Lead Surveyor 21 21 \$7,035.00 Assistant Surveyor Subtotals (Hours) = N/A 21 21 45 \$7,755.00 Subtotals (Costs) = \$720.00 \$3,517.50 \$3,517.50 45 \$7,755.00 Subtotals (Hours) = N/A Subtotals (Costs) = Totals (Summary) = \$7,755.00 Totals = Total (Hours) = N/A 3 21 21 Total (Costs) = \$7,755.00 \$720.00 \$3,517.50 \$3,517.50 Percentage of Total (Hours) = 47% 47% 100% N/A 7% Percentage of Total (Costs) = 9% 45% 45% 100%

Att.A, AI 10, 09/14/23

Work Order Estimate Summary

Consultant/Subconsultant: Rick Engineering MTS Doc. No.: 190 Work Order No.: WOA2501-CMO1.2 Total Hours = Total Costs = \$32,550.00 Work Order Title: PHASE 1: South Bay Maintenance Facility - ZEB OH Charging Attachment: В Associate Survey Principal Surveyor **Assistant** Surveying **ODCs** Total (See Totals Hours Attachment) TASKS/WBS TASKS/WBS Description \$ 240.00 \$ 167.50 \$ 167.50 \$ Item 1 Task 1 ODCs QA Surveying Project Management and Communications 10 10 \$2,400.00 Lead Surveyor 90 90 180 \$30,150.00 Assistant Surveyor \$32,550.00 **\$32,550.00** Subtotals (Hours) = N/A 10 90 90 190 Subtotals (Costs) = \$2,400.00 \$15,075.00 \$15,075.00 190 Subtotals (Hours) = N/A Subtotals (Costs) = Totals (Summary) = \$32,550.00 Totals = 190 Total (Hours) = N/A 90 10 90 190 Total (Costs) = \$15,075.00 \$15,075.00 \$32,550.00 \$2,400.00 Percentage of Total (Hours) = 47% 47% 100% N/A 5% Percentage of Total (Costs) = 7% 46% 46% 100%



Amendment 3

June 19, 2023

MTS Doc No. G2501.0-21 WOA2501-CM01.3

ZEB IRIS CM AMENDMENT

TRC Engineers Inc. Jim Devey Project/Task Order Manager 4393 Viewridge Ave. Ste. A San Diego, CA 92123

This shall serve as Amendment No.3 to the original agreement WOA2501-CM01 as further described below.

SCOPE OF SERVICES

This Amendment revises the estimated work hours for each task and replaces in its entirety previous Pricing and Negotiated Fee Proposal attachments, with Attachment B Negotiated Fee Proposal, showing corrected rates.

SCHEDULE

There shall be no change to the schedule.

PAYMENT

This Amendment shall authorize a cost reduction not to exceed (\$6,942.44). The total value of this contract including this amendment shall be \$1,416,271.96. This amount shall not be exceeded without prior written approval from MTS.

Sincerely,	Agreed:		
Sharon Cooney Digitally signed by Sharon Cooney Date: 2023.06.20 11:52:59 -07'00'	Charlens Palmer		
Sharon Cooney, Chief Executive Officer	Charlene Palmer, Vice President, TRC Engineers Inc.		

Attachments: B - Negotiated Fee Proposal



6/20/2023

Date:

MTS Doc. No.

Work Order No.

WOA2501-CM01.3

Attachment:

В

Phase 1 Project South Bay Maintenance Facility ZEB OH Work Order Title: Phase 1 Project South Bay Inditions
Phase 2 Project Iris Rapid Corridor Bus Stations

Project No:

Table 1 - Cost Codes Summary (Costs & Hours)

Item	Cost Codes	Cost Codes Description	Total Costs
1		PHASE 1 Construction Management and Inspection Services	\$821,520.98
2		PHASE 2 Construction Management and Inspection Services	\$594,750.98

\$1,416,271.96 Totals =

Table 2 - TASKS/WBS Summary (Costs & Hours)

Item	TASKS/WBS	TASKS/WBS Description	Labor Hrs	Total Costs
1		PHASE 1 Construction Management and Inspection Services	3,758.5	\$821,520.98
2		PHASE 2 Construction Management and Inspection Services	2,702.0	\$594,750.98
3				
4				
5				

\$1,416,271.96 Totals = 6,460.5

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

(If App	licable	, Selec	t One)			
DBE	DVBE	SBE	Other	Consultant	Labor Hrs	Total Costs
				PHASE 1 TRC Engineers	3,216.5	\$711,993.28
				PHASE 2 TRC Engineers	2,438.0	\$542,116.08
				PHASE 1 Leighton Consulting	392.0	\$76,170.00
				PHASE 2 Leighton Consulting	264.0	\$52,634.90
				PHASE 1&2 Rick Engineering	150.0	\$33,357.70

Totals = 6,460.5 \$1,416,271.96

Work Order Estimate Summary

							Sumr	nary									
				Consultant/S	Subconsultant:	TRC Engine	ers								MTS	Doc. No.:	
Total Hours =	3,217										1				Work	Order No · V	VOA2501-CM01.3
rotarriouro	0,217														WOIK	Order Ho	TOALEGOT GINGTIO
Total Costs =	\$711,993.28			Wo	rk Order Title:	PHASE 1: S	South Bay Ma	intenance F	acility - ZEB C	H Charging					At	tachment:	В
·			•	Task Order Manager	Engineer, Supervising	Engineer, Senior	(PW)Field Inspector, Civil, Mechanical	(PW)Field Inspector, Electrical	Techincal Expert - Other (Electrical)	QA/QC, Senior	QA/QC, Senior	Scheduler, Senior	Project Controls III	Stormwater Compliance, Senior			
			MSA Field Rates Effective Execution until June	Charlene Palmer	Jim Devey, PE	Mike Moen, PE	Mel Jacobo, Mahlon Lindenmuth or Rob Hehman	Al Perez, PE	Jesse Sandhu, PE	Brian Murray	TBD	Dagher Dagher	Linda Abu- Hamid	Amy Comte		Total Hours	Totals
Item TASKS/WBS	TASKS/WBS Descrip	otion	30, 2022 (See Attachment)	\$ 223.32	\$ 260.54	\$ 210.91	\$ 199.91	\$ 169.26	\$ 310.16	\$ 223.32	\$ 223.32	\$ 235.72	\$ 136.47	\$ 173.69		Hours	
			July 1,2022 Rates with increase	\$ 229.35	\$ 267.57	\$ 216.60	\$ 205.31	\$ 173.83	\$ 318.54	\$ 229.35	\$ 229.35	\$ 242.09	\$ 140.16	\$ 178.38			
			July 1,2023 Rates with increase	\$ 235.54	\$ 274.79	\$ 222.45	\$ 210.85	\$ 178.52	\$ 327.14	\$ 235.54	\$ 235.54	\$ 248.62	\$ 143.94	\$ 183.20			
			Rates from first WO	\$ 226.33	\$ 264.10	\$ 204.40	\$ 200.00	\$ 213.76	\$ 314.35	\$ 180.00	\$ 160.00	\$ 238.90	\$ 151.87	\$ 176.00			
1 Task 1	Construction Management and	Incuration			1												
1 Task 1 Task Order Manage		inspection	\$19.871.32	44									14			58	\$31.607.98
Resident Engineerii			ψ19,071.32	44	860								14			860	\$224.064.40
Office Engineering	··g					790										790	\$166,618,90
Field Inspection							590	584	1							1.175	\$216,949.82
	and Shop Drawing Reviews						***									.,	
QA/QC - Source an	d Specialty Inspection									80	152					232	\$51,810.24
Scheduling Analysis												52				52	\$12,257.44
Labor Compliance I	Monitoring																
Stormwater Compli														50		50	\$8,684.50
		btotals (Hours) =	N/A	44	860	790	590	584	1	80	152	52	14	50		3,217	\$711,993.28
	Sul	btotals (Costs) = btotals (Hours) = btotals (Costs) =	\$19,871.32 N/A	\$9,826.08	\$224,064.40	\$166,618.90	\$117,946.90	\$98,847.84	\$155.08	\$17,865.60	\$33,944.64	\$12,257.44	\$1,910.58	\$8,684.50	ļ	3,217	\$711,993.28
	Totals (Summary) = Total (Hours) = Total (Costs) =		N/A \$19,871.32	44 \$9,826.08		790 \$166,618.90		584 \$98,847.84	1 \$155.08	80 \$17,865.60		52 \$12,257.44	14 \$1,910.58	Totals = 50 \$8,684.50	[3,217 3217	\$711,993.28 \$711,993.28
	Percentage of Total (Hours) = Percentage of Total (Costs) =		N/A 3%	1% 1%		25% 23%	18% 17%	18% 14%		2% 3%		2% 2%	0% 0%	2% 1%		100%	100%

Work Order Estimate Summary

							Sullilli	ai y			•					_	
				Consultant/Si	ubconsultant:	Leighton Co	nsulting								MTS	Doc. No.:	
Total Hours =	392				,						-				Work	Order No.:	WOA2501-CM01.3
Total Costs =	\$76,170.0	0		Wor	k Order Title:	PHASE 1: S	outh Bay Ma	intenance Fa	acility - ZEB C	OH Charging					At	tachment:	В
•				Engineer, Supervising	Engineer, Senior	Geologist, Senior	Geologist III	PW Tech II	PW Tech III	PW Field Soil & Material	PW Inspector Senior	PW Field Soil & Material	CADD III	Admin III	Admin II		
			MSA Field Rates Effective Execution							Tester Inspector Grp 1		Tester Inspector Grp 2				Total	
Item TASKS/WBS	TASKS/WBS De	scription	until June 30, 2022 (See Attachment)	\$ 288.07	\$ 201.64	\$ 179.62	\$ 144.03	\$ 88.44	\$ 115.42	\$ 215.38	\$ 162.89	\$ 249.20	\$ 127.73	\$ 96.50	\$ 66.91	Hours	Totals
			July 1,2022 Rates with increase	\$ 295.85	\$ 207.08	\$ 184.47	\$ 147.92	\$ 90.83	\$ 118.53	\$ 221.20	\$ 167.29	\$ 255.93	\$ 131.18	\$ 99.10	\$ 98.71		
			July 1,2023 Rates with increase	\$ 303.83	\$ 212.67	\$ 189.45	\$ 151.92	\$ 93.28	\$ 121.73	\$ 227.17	\$ 171.80	\$ 262.84	\$ 134.72	\$ 101.78	\$ 70.57		
			Rates from first WO	\$ 264.53	\$ 185.16	\$ 164.94	\$ 132.27	\$ 188.60	\$ 193.13	\$ 232.03	\$ 232.03	\$ 232.88	\$ 117.30	\$ 88.62	\$ -		
1 Task 1	QA Material Testing				1												
ODCs	WA Material Testing		\$7.558.00														\$7,558.00
	nt and Communications		ψ1,000.00	8	12	20										40	\$8,316.64
Geotechnical Samp	oling and Testing				4			40	46							90	\$9,653.48
Environmental Sam	pling					4	24									28	\$4,175.20
Special Inspection										50	50	80				180	\$38,849.50
Document Control					8	12	8						6	10		44	\$6,652.18
Project Accounting	and Labor Compliance													10		10	\$965.00
		Subtotals (Hours) = Subtotals (Costs) = Subtotals (Hours) = Subtotals (Costs) =		8 \$2,304.56	24 \$4,839.36	36 \$6,466.32	32 \$4,608.96	40 \$3,537.60	46 \$5,309.32	50 \$10,769.00	50 \$8,144.50	80 \$19,936.00	6 \$766.38	20 \$1,930.00	1	392 392	\$76,170.00 \$76,170.00
	Totals (Summary) =	Subiolais (Costs) –												Totals =	· 	392	\$76,170.00
	Total (Hours) = Total (Costs) =		N/A \$7,558.00	\$2,304.56		36 \$6,466.32	32 \$4,608.96	40 \$3,537.60	46 \$5,309.32				6 \$766.38			392	\$76,170.00
	Percentage of Total (Hours) = Percentage of Total (Costs) =		N/A 10%	2% 3%		9% 8%	8% 6%	10% 5%					2% 1%			100%	100%

ODC Item

> 2 3 4

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ODC Item

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Subtotal =

Subtotal =

Consultant/ Subconsultant	TRC Engineer	rs]				Contract No:	
							_				Task Order No.	WOA2501-CM01.3
Work Order Title	PHASE 1: So	outh Bay Maintenar	nce Facility - 2	ZEB OH Charging							Attachment:	В
					TASK	S/WBS (1-5)						
			-	Task 1		Task 2		Task 3		Task 4		Task 5
Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
ehicles	Monthly	\$709.69	28	\$19,871.32								
A Surveying (If Required)												
			Subtotal =	\$19,871.32	Subtotal =		Subtotal =		Subtotal =		Subtotal =	
					TASKS	S/WBS (6-10)	_		_		_	
					TAGIN	371120 (0 10)						Totals
Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
ehicles											28	\$19,871.32
A Surveying (If Required)												

Totals =

\$19,871.32

Subtotal =

Subtotal =

Subtotal =

Consultant/ Subconsultant: Leighton Consulting	Contract No:	
	Task Order No.	WOA2501-CM01.3
Work Order Title: PHASE 1: South Bay Maintenance Facility - ZEB OH Charging	Attachment:	В.

TASKS/WBS (1-5)

ODC					Гask 1		Гask 2	-	Task 3		Task 4	1	Task 5
Item	Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
1	Mileage	MI	\$0.575	600	\$345.00								
2	Modified Proctor	EA	\$220.00	2	\$440.00								
3	Modified Proctor (6 inch)	EA	\$245.00	2	\$490.00								
4	Sieve Analysis	EA	\$175.00	2	\$350.00								
5	Sand Equivalent	EA	\$105.00	2	\$210.00								
6	Durability Index	EA	\$200.00	2	\$400.00								
7	Specific Gravity	EA	\$130.00	2	\$260.00								
8	R-Value	EA	\$310.00	2	\$620.00								
9	HMA Theoretical Max Density	EA	\$130.00	2	\$260.00								
10	Concrete/CLSM Testing	EA	\$25.00	35	\$875.00								
11	Sample Pick Up	EA	\$90.00	7	\$630.00								
12	PID and PPE	EA	\$150.00	1	\$150.00								
13	CA Title 22 Metals	EA	\$128.00	8	\$1,024.00								
14	TPH ext.	EA	\$83.00	8	\$664.00								
15	VOCs	8	\$840.00										
				Subtotal =	\$7,558.00	Subtotal =		Subtotal =		Subtotal =		Subtotal =	

TASKS/WBS (6-10)

ODC													Totals
Item	Description	Quantity	Total	Quantity	Total								
1	Mileage											600	\$345.00
2	Modified Proctor											2	\$440.00
3	Modified Proctor (6 inch)											2	\$490.00
4	Sieve Analysis											2	\$350.00
5	Sand Equivalent											2	\$210.00
6	Durability Index											2	\$400.00
7	Specific Gravity											2	\$260.00
8	R-Value											2	\$620.00
9	HMA Theoretical Max Density											2	\$260.00
10	Concrete/CLSM Testing											35	\$875.00
11	Sample Pick Up											7	\$630.00
12	PID and PPE											1	\$150.00
13	CA Title 22 Metals											8	\$1,024.00
14	TPH ext.											8	\$664.00
15	VOCs											8	\$840.00
		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Totals =	\$7,558.00

ODC Item

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Consultant/ Subconsultant:	David Evans	and Associates									Contract No:	
										Ta	ask Order No.	WOA2501-CM01.3
Work Order Title:	PHASE 1: S	outh Bay Maintenai	nce Facility - 2	ZEB OH Charging							Attachment:	В
					TASK	S/WBS (1-5)						
			1	Task 1	-	Task 2	-	Task 3		Task 4		Task 5
Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
Mileage	MI	\$0.575										
			Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =	
					o abtota.		Joanna		Jastotai		J	
					TASKS	S/WBS (6-10)						
												Totals
Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
/lileage												
	Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Totals =	
	Cubicial -		Capicial -		Cubicial -		- Jubicial -		Cubicial -		i otalo –	

Work Order Estimate Summary

	_			_	Consultant/	Subconsu	Itant:	TRC Engine	ers									MTS	B Doc. No.:	
7	otal Hours =	2,438					-											Work	Order No.:	
7	otal Costs =	\$542,116.0	08		W	ork Order	Title:	Iris Rapid C	orridor and S	Station Desig	jn							At	tachment:	В
	'				Task Order Manager	Engine Supervi		Engineer, Senior	(PW)Field Inspector, Civil, Mechanical	(PW)Field Inspector, Electrical	Techincal Expert - Oth (Electrical)		C, Senior	QA/QC, Senior	Scheduler, Senior	Project Controls III	Stormwater Compliance, Senior			
				MSA Field Rates Effective Execution	Charlene Palmer	Jim Deve	y, PE	Mike Moen, PE	Mel Jacobo, Mahlon Lindenmuth or Rob Hehman	Al Perez, PE	Jesse Sandhu, PE		TBD	TBD	Dagher Dagher	Linda Abu- Hamid	Amy Comte		Total Hours	Totals
Item	TASKS/WBS	TASKS/WBS Des	scription	until June 30, 2022 (See Attachment)	\$ 223.32	\$ 26	60.54	\$ 210.91	\$ 199.91	\$ 169.26	\$ 310.1	6 \$	223.32	\$ 223.32	\$ 235.72	\$ 136.47	\$ 173.69		nours	
				July 1,2022 Rates with increase	\$ 229.35	\$ 26	67.57	\$ 216.60	\$ 205.31	\$ 173.83	\$ 318.5	4 \$	229.35	\$ 229.35	\$ 242.09	\$ 140.16	\$ 178.38			
				July 1,2023 Rates with increase	\$ 235.54	\$ 27	4.79	\$ 222.45	\$ 210.85	\$ 178.52	\$ 327.1	4 \$	235.54	\$ 235.54	\$ 248.62	\$ 143.94	\$ 183.20			
				Rates from first WO	\$ 226.33	\$ 26	64.10	\$ 204.40	\$ 200.00	\$ 213.76	\$ 314.3	5 \$	180.00	\$ 160.00	\$ 238.90	\$ 151.87	\$ 176.00			
1 1	ask 1	Construction Management	and Inspection																	
	ask Order Manage			\$9,935.66	16											14			30	\$15,419.36
	Resident Engineeri	ng				468	3												468	\$121,932.72
	Office Engineering							612											612	\$129,076.92
	ield Inspection								636	232	136								1,004	\$208,592.84
		and Shop Drawing Reviews																		
		d Specialty Inspection											30	78					108	\$24,118.56
	Scheduling Analysi														88				88	\$20,743.36
	abor Compliance																			
8	Stormwater Compli																128		128	\$22,232.32
			Subtotals (Hours) =		16	468		612	636	232	136		30	78	88	14	128		2,438	\$542,116.08
			Subtotals (Costs) = Subtotals (Hours) =		\$3,573.12	\$121,93	2.72	\$129,076.92	\$127,142.76	\$39,268.32	\$42,181.76	\$6,6	699.60	\$17,418.96	\$20,743.36	\$1,910.58	\$22,232.32		2,438	\$542,116.08
			Subtotals (Costs) =																	
		Totals (Summary) = Total (Hours) = Total (Costs) =		N/A \$9,935.66	10 \$3,573.12		468 32.72	612 \$129,076.92	636 \$127,142.76				30 \$6,699.60	78 \$17,418.96					2,438 2438	\$542,116.08 \$542,116.08
		Percentage of Total (Hours) = Percentage of Total (Costs) =		N/A 2%	19 19		19% 22%	25% 24%					1% 1%	3% 3%					100%	100%

Work Order Estimate Summary

					Consulta	ant/Su	ubconsultant:	Leighton Co	onsulting										MT	S Doc. No.:	
Т	otal Hours =	264												_					Worl	Order No.:	
Т	otal Costs =	\$52,634.9	0			Worl	k Order Title:	Iris Rapid C	orridor and \$	Station De	sigr	1							А	ttachment:	В
	·				Engine Supervis		Engineer, Senior	Geologist, Senior	Geologist III	PW Tech	ıll	PW Tech III	PW Field Soil & Material	PW Inspecto Senior	PW Fie Soil & Materi	. (CADD III	Admin III	Admin II		
				MSA Field Rates Effective Execution									Tester Inspector Grp 1		Teste Inspect Grp 2	or				Total	Totals
Item	TASKS/WBS	TASKS/WBS Des		until June 30, 2022 (See Attachment)	\$ 28	8.07	\$ 201.64	\$ 179.62	\$ 144.03	\$ 88.	44	\$ 115.42	\$ 215.3	3 \$ 162.	39 \$ 249	.20 \$	127.73	\$ 96.50	\$ 66.91	Hours	Totals
				July 1,2022 Rates with increase	\$ 29	5.85	\$ 207.08	\$ 184.47	\$ 147.92	\$ 90.	83	\$ 118.53	\$ 221.2	\$ 167.	29 \$ 255	.93 \$	131.18	\$ 99.10	\$ 98.71		
				July 1,2023 Rates with increase	\$ 30	3.83	\$ 212.67	\$ 189.45	\$ 151.92	\$ 93.	28	\$ 121.73	\$ 227.1	7 \$ 171.	30 \$ 262	.84 \$	134.72	\$ 101.78	\$ 70.57		
				Rates from first WO	\$ 26	4.53	\$ 185.16	\$ 164.94	\$ 132.27	\$ 188.	60	\$ 193.13	\$ 232.0	\$ 232.	3 \$ 232	.88 \$	117.30	\$ 88.62	\$ -		
1 1	ask 1	QA Material Testing																			
	DCs			\$7,665.00																	\$7,665.00
P	roject Manageme	nt and Communications		, , , , , , , ,	4		20													24	
C	Seotechnical Samp	oling and Testing					4	20	56											80	\$12,464.64
	nvironmental Sam	npling								20		20	20	20						80	\$11,642.60
S	pecial Inspection														44					44	\$10,964.80
	ocument Control						10										6	10		26	\$3,747.78
P	roject Accounting	and Labor Compliance																10		10	\$965.00
_		•	Subtotals (Hours) =	N/A	4		34	20	56	20		20	20	20	44		6	20	•	264	\$52,634.90
			Subtotals (Costs) = Subtotals (Hours) =	\$7,665.00 N/A	\$1,152	.28	\$6,855.76	\$3,592.40	\$8,065.68	\$1,768.8	80	\$2,308.40	\$4,307.60	\$3,257.8	3 \$10,964	.80	\$766.38	\$1,930.00		264	\$52,634.90
			Subtotals (Costs) =																		
		Totals (Summary) =																Totals =		264	\$52,634.90
		Total (Hours) = Total (Costs) =		N/A \$7,665.00	\$1,1	4 52.28					20 3.80	20 \$2,308.40			20 80 \$10,96	44 4.80	\$766.38	20 \$1,930.00		264	\$52,634.90
		Percentage of Total (Hours) = Percentage of Total (Costs) =		N/A 15%		2% 2%	13% 13%	8% 7%			8% 3%	8% 4%				17% 21%	2% 1%			100%	100%

8 9 10

Subtotal =

Subtotal =

Consultant/ Subconsultant:	TRC Enginee	ers									Contract No:	
							,			Та	sk Order No.	
Work Order Title:	Iris Rapid Co	orridor and Station	Design								Attachment:	В
					TASK	S/WBS (1-5)	I				I	
			-	Task 1		Task 2		Task 3		Task 4		Task 5
Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
Vehicles	Monthly	\$709.69	14	\$9,935.66								
QA Surveying (If Required) Invoice												
			[0.1.1.1		1				1	
			Subtotal =	\$9,935.66	Subtotal =		Subtotal =		Subtotal =		Subtotal =	
					TASKS	S/WBS (6-10)						
						(Totals
Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
Vehicles											14	\$9,935.66
QA Surveying (If Required) Invoice												
mvoice												
											ļ	

\$9,935.66

Totals =

Subtotal =

Subtotal =

Subtotal =

Consultant/ Subconsultant: Leighton Consulting	Contract No:	
	Task Order No.	
Work Order Title: Iris Rapid Corridor and Station Design	Attachment:	В

TASKS/WBS (1-5)

ODC				1	Гask 1	Task 2		Task 2		Task 2 T		Task 4		Task 5	
Item	Description	Unit	Unit Cost	Quantity	Total	Quantity Total (Quantity	Total	Quantity	Total	Quantity	Total		
1	Mileage	MI	\$0.575	400	\$230.00										
2	Modified Proctor	EA	\$220.00	4	\$880.00										
3	Modified Proctor (6 inch)	EA	\$245.00	4	\$980.00										
4	Sieve Analysis	EA	\$175.00	2	\$350.00										
5	Sand Equivalent	EA	\$105.00	2	\$210.00										
6	Durability Index	EA	\$200.00	2	\$400.00										
7	Specific Gravity	EA	\$130.00	2	\$260.00										
8	R-Value	EA	\$310.00	2	\$620.00										
9	HMA Theoretical Max Density	EA	\$130.00	2	\$260.00										
10	Concrete/CLSM Testing	EA	\$25.00	85	\$2,125.00										
11	Sample Pick Up	EA	\$90.00	15	\$1,350.00										
12	PID and PPE	EA	\$150.00												
13	CA Title 22 Metals	EA	\$128.00												
14	TPH ext.	EA	\$83.00												
15	VOCs	EA	\$105.00												
		·		Subtotal =	\$7,665.00	Subtotal =		Subtotal =		Subtotal =		Subtotal =			

TASKS/WBS (6-10)

ODC													Γotals
Item	Description	Quantity	Total	Quantity	Total								
1	Mileage											400	\$230.00
2	Modified Proctor											4	\$880.00
3	Modified Proctor (6 inch)											4	\$980.00
4	Sieve Analysis											2	\$350.00
5	Sand Equivalent											2	\$210.00
6	Durability Index											2	\$400.00
7	Specific Gravity											2	\$260.00
8	R-Value											2	\$620.00
9	HMA Theoretical Max Density											2	\$260.00
10	Concrete/CLSM Testing											85	\$2,125.00
11	Sample Pick Up											15	\$1,350.00
12	PID and PPE												
13	CA Title 22 Metals												
14	TPH ext.												
15	VOCs												
		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Totals =	\$7,665.00

Work Order Estimate Summary

								Oullilli	ai y			-					
					Consultant/S	ubconsultant:	Leighton Co	onsulting							MTS	Doc. No.:	
	Total Hours =	150		1								-			Work	Order No :	WOA2501-CM01.3
	Total Hours –	130					ı								VVOIK	Order No	VVOA2301-CIVIO1.3
	Total Costs =	\$33,357.7	n		Wo					nce Facility Z	EB OH				Δ++	achment:	В
	10tai 003t3 =	ψ55,557.7	•		****	ik Order Title.	Phase 2 Pro	ject Iris Rap	id Corridor E	Bus Stations					Α	acimient.	
				- [Chainman/Ro	Chainman/R	Chainman/R	Chainman/R				
					Contract	Chief of	Chief of	Chief of	Chief of	dman	odman	odman	odman				
					Manger	Party (Lead)	Party (Lead)	Party (Lead)	Party (Lead)	(Assistant)	(Assistant)	(Assistant)	(Assistant)				
				MSA Field						(, ,	,,	, , ,				
				Rates		Josh	Chris Kilma	Chance	Steven	Carl Luhring	Alfredo	Eliot Molina	Daniel Ordaz				
				Effective	Geff Dye	Bueche	(PW)	Ferguson	Peace (PW)		Gonzalea	(PW)	Huerta (PW)				
				Execution		(PW)	(,	(PW)		(,	(PW)	(,				Total	
				until June 30,												Hours	Totals
				2023												nours	
Item	TASKS/WBS	TASKS/WBS De	scription	(See	\$ 207.38	\$ 168.84	\$ 169.09	\$ 169.39	\$ 170.34	\$ 167.13	\$ 169.38	\$ 172.82	\$ 169.09				
				Attachment)													
				Attachment)													
				July 1,2023													
				Rates with	¢ 242.00	\$ 171.43	¢ 171.60	¢ 171.00	¢ 172.02	e 160.72	¢ 171.07	\$ 175.41	¢ 171.60				
				increase	\$ 212.50	\$ 171.43	\$ 171.00	φ 171.50	\$ 172.93	\$ 105.72	φ 1/1.5/	\$ 175.41	φ 171.00				
				Increase													
				July 1,2024													
				Rates with	\$ 218.73	\$ 174.09	\$ 174.34	\$ 174.64	\$ 175.59	\$ 172.38	\$ 174.63	\$ 178.07	\$ 174.34				
				increase				,	,	,		,					
1	Task 1 & 2	QA Surveying				1											
	ODCs			\$7,558.00													\$7,558.00
		nt and Communications			10											10	\$2,073.80
	Lead Surveyor					15	25	15	15							70	\$11,855.80
	Assistant Surveyor									15.0	25.0	15.0	15.0			70	\$11,870.10
			Subtotals (Hours) =	NI/A	10	45	05	15	45	45	05	45	15			150	600.057.70
			Subtotals (Costs) =		\$2,073.80	15 \$2,532.60	25 \$4,227.25	\$2,540.85	15 \$2,555.10	15 \$2,506.95	25 \$4,234.50	15 \$2,592.30	\$2,536.35		ī	150 150	\$33,357.70 \$33,357.70
			Subtotals (Hours) =		\$2,073.00	\$2,552.00	φ4,221.23	\$2,540.65	\$2,555.10	φ2,500.95	φ4,234.30	φ2,392.30	φ2,550.55		L	150	φ33,331.1U
			Subtotals (Costs) =												Γ	1	
			Oublotais (Costs) -												ι	1	
		Totals (Summary) =												Totals =	П	150	\$33,357.70
		Total (Hours) =		N/A	10	15	25	15	15	15	25	5 15	15		L	150	400,001.70
		Total (Costs) =		\$7,558.00	\$2,073.80											150	\$33,357.70
		10141 (00313) -		ψ1,550.00	Ψ2,013.00	Ψ2,002.00	Ψ4,221.23	Ψ2,040.00	Ψ2,000.10	Ψ2,500.95	Ψ4,204.00	, ψ2,002.30	Ψ2,000.00				ψου,οστ.10
		Percentage of Total (Hours) =		N/A	7%	10%	17%	10%	10%	10%	17%	10%	10%			100%	
		Percentage of Total (Costs) =		23%	6%											10070	100%
		. 5.55.1tago or 10tal (005tb) =		2070	070	070	1370	070	0 /0	. 070	. 1370	. 070	0 70				10070

Amendment 4

September 14, 2023

ZEB IRIS CM AMENDMENT

TRC Engineers Inc Jim Devey Project/Task Order Manager 4393 Viewridge Ave. Ste. A San Diego, CA 92123 MTS Doc No. G2501.0-21 WOA2501-CM01.4

This shall serve as Amendment No.4 to the original agreement WOA2501-CM01 as further described below.

SCOPE OF SERVICES

There shall be no change to the Scope of Work, as a result of this Amendment. This Amendment shall provide additional time and funding for construction management services for the ZEB Overhead and Iris Rapid construction projects (see MTS contracts PWB333.0-21 and PWB342.0-22 respectively).

SCHEDULE

This Amendment shall add four hundred seventy-six (476) calendar days to the Schedule. The Schedule shall remain in effect through the completion construction ZEB Overhead and Iris Rapid construction projects (see MTS contracts PWB333.0-21 and PWB342.0-22 respectively).

PAYMENT

As a result of this Amendment, the Payment shall be increased by \$421,142.48 (Attachment B). The revised total value of this contract including this amendment shall be \$1,825,070.96. This amount shall not be exceeded without prior written approval from MTS.



Please sign below, and return the document to the Contracts Specialist at MTS. All other terms and conditions shall remain the same and in effect.

Sincerely,	Agreed:					
Sharon Cooney, Chief Executive Officer	Jim Devey, Project Manager TRC Engineers Inc. Date:					

Attachments: B - Negotiated Fee Proposal

ATTACHMENTS B NEGOTIATED FEE PROPOSAL



MTS Doc. No. G2501.0-21
Work Order No. WOA2501-CM01.4
Attachment: B

Work Order Title: PHASE 1 ZEB OH - AMMENDMENT NO 4

Project No:

Table 1 - Cost Codes Summary (Costs & Hours)

Ite	m Cost Codes	Cost Codes Description	Total Costs
1		PHASE 1 Construction Management and Inspection Services (Extension)	\$421,142.48

Totals = \$421,142.48

Table 2 - TASKS/WBS Summary (Costs & Hours)

Item	TASKS/WBS	TASKS/WBS Description	Labor Hrs	Total Costs
1		PHASE 1 Construction Management and Inspection Services	1,928.0	\$421,142.48
2				
3				
4				
5				

Totals = 1,928.0 \$421,142.48

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

(If Applicable, Select One)		lect				
DBE	DVBE	SBE	Other	Consultant	Labor Hrs	Total Costs
				TRC - PHASE 1 Construction Management and Inspection Services	1,928.0	\$421,142.48

Totals = 1,928.0 \$421,142.48

Work Order Estimate Summary

Consultant/Subconsultant: TRC Engineers MTS Doc. No.: Total Hours = 1,928 Work Order No.: OA2501-CM01 Total Costs = \$421,142.48 Work Order Title: PHASE 1: South Bay Maintenance Facility - ZEB OH Charging Attachment: (PW)Field (PW)Field Techincal Task Order Engineer, Inspector, Scheduler, Project Engineer, Inspector, Expert - Other QA/QC, Senior QA/QC, Senior Compliance, Supervising Manager Senior Civil. Senior **Controls III** Electrical (Electrical) Mechanical Mel Jacobo. Mahlon MSA Field Charlene Mike Moen, Dagher Linda Abu-Jesse Sandhu Jim Devey, PE Brian Murray TBD Lindenmuth Al Perez, PE **Amy Comte** Rates Effective PE Dagher Hamid or Rob **Execution until** Total Hehman Totals June 30, 2022 Hours (See TASKS/WBS TASKS/WBS Description \$ 223.32 \$ 260.54 \$ 210.91 199.91 169.26 \$ 310.16 \$ 223.32 \$ 223.32 \$ 235.72 \$ 136.47 \$ 173.69 Attachment) July 1,2022 \$ 229.35 \$ 267.57 \$ 216.60 \$ 205.31 \$ 173.83 \$ 318.54 \$ 229.35 \$ 229.35 \$ 242.09 \$ 140.16 \$ 178.38 Rates with increase July 1,2023 Rates with \$ 235.54 \$ 274.79 \$ 222.45 \$ 210.85 \$ 178.52 \$ 327.14 \$ 235.54 \$ 235.54 \$ 248.62 \$ 143.94 \$ 183.20 increase Rates from first \$ 226.33 \$ 264.10 \$ 204.40 \$ 200.00 \$ 213.76 \$ 314.35 \$ 180.00 \$ 160.00 \$ 238.90 \$ 151.87 \$ 176.00 wo Construction Management and Inspection 1 Task 1 Task Order Management 16 \$3,573.12 16 Resident Engineering 600 600 \$156,324.00 Office Engineering Field Inspection 560 680 1,240 \$233,206.40 Electrical Submittal and Shop Drawing Reviews QA/QC - Source and Specialty Inspection Scheduling Analysis 72 72 \$16,971.84 Labor Compliance Monitoring Stormwater Compliance Monitoring Subtotals (Hours) = 600 680 72 1,928 \$410,075.36 N/A Subtotals (Costs) = 1,928 \$421,142.48 \$3,669.60 \$160,542.00 \$121,296.00 \$118,204.40 \$17,430.48 Subtotals (Hours) = N/A Subtotals (Costs) = Totals (Summary) = Totals = 1,928 \$421,142.48 Total (Hours) = N/A 680 16 600 560 72 Total (Costs) = \$3,669.60 \$160,542.00 \$121,296.00 \$118,204.40 \$17,430.48 \$421,142.48 35% Percentage of Total (Hours) = N/A 4% 100% 31% 29% Percentage of Total (Costs) = 38% 29% 28% 4% 100%



Agenda Item No. 11

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

South Bay Maintenance Facility (SBMF) Building 3620 Roofing Replacement – Work Order Agreement

RECOMMENDATION:

That the San Diego Metropolitan System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute Work Order MTSJOC324-35 under Job Order Contract (JOC) to MTS Doc. No. PWG324.0-21 (in substantially the same format as Attachment A), with ABC General Contractor, Inc. (ABCGC), in the amount of \$193,236.34 for replacing the roofing at Building 3620 at the SBMF.

Budget Impact

The total budget for this work order shall not exceed \$193,236.34. Under separate MTS Doc No. L1282.0-16 with The Gordian Group, MTS will pay a 1.95% JOC software license fee in the amount of \$3,768.11. This project is funded by the MTS Capital Improvement Program (CIP) Work Breakdown Structure Element (WBSE) #1006117701 – SBMF 3620 Roofing Replacement.

DISCUSSION:

SBMF Building 3620 Roof Repair Project

The existing roofing at SBMF Building 3620 (located at 3620 Main Street, Chula Vista, CA) is beyond its useful life, and thus, needs to be replaced. This project will generally consist of the removal of approximately 8,100 square feet of existing bitumen roofing system, replacing with Thermoplastic-Polyolefin (TPO), and replacing existing sheet metal flashing. This work will improve the current condition of the building and help bring it to a state of good repair, thus mitigating potential risks and costs to MTS in the future.



JOC Procurement Process

On October 6, 2020, MTS issued an Invitation for Bids (IFB) seeking a contractor to provide JOC building and facilities construction services that primarily consists of repair, remodeling, or other repetitive work, and general building and facility contracting services. These services include, but are not limited to, demolition, maintenance, and modification of existing buildings and facilities, as well as any required incidental professional and technical services.

JOC is a procurement method under which public agencies may accomplish frequently encountered repairs, maintenance, and construction projects through a single, competitively procured long-term agreement.

The JOC program includes a catalog of pricing for a variety of potential tasks to be performed under the contract that have been pre-priced by the contractor, the Gordian Group. All potential contractors are subject to the pricing within this catalog. Each contractor then includes an adjustment factor, escalating their proposed price from the catalog price, to determine the total cost of the task order. The adjustment factor represents an average percentage increase over the catalog price (i.e. 1.25 adjustment factor represents 25% above the catalog price) for that respective task within the project. In order to select the lowest responsive and responsible bidder, MTS staff compares each contractor's proposed adjustment factor.

Nine (9) bids were received and MTS determined that ABCGC was the lowest responsive and responsible bidder. On December 10, 2020 (Al 11), the MTS Board authorized the CEO to execute MTS Doc. No. PWG324.0-21 with ABCGC for General Building Construction Services.

Proposed Action – JOC Work Order for SBMF Building 3620 Roof Repair Project

Today's proposed action would issue a work order to ABCGC under this JOC master agreement. Pricing for this work order was reviewed and determined to be fair and reasonable. ABCGC will provide all materials, labor, and equipment for the removal and replacement of the roofing system at SBMF Building 3620. Work is expected to be completed by November 2023. Premier Roofing of California will be used as a subcontractor for this work order.

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute Work Order MTSJOC324-35 under Job Order Contract (JOC) to MTS Doc. No. PWG324.0-21 (in substantially the same format as Attachment A), with ABC General Contractor, Inc. (ABCGC), in the amount of \$193,236.34 for replacing the roofing at SBMF Building 3620.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachments: A. Draft Work Order MTSJOC324-35

JOB ORDER CONTRACT WORK ORDER

WORK OR	DER	
		PWG324.0-21
		CONTRACT NUMBER
		MTSJOC324-35
		WORK ORDER NUMBER
THIS AGREEMENT is entered into this day or California by and between San Diego Metropolitan Tra agency, and the following, hereinafter referred to as "(ansit System ("N	2023, in the state of MTS"), a California public
Name: ABC General Contractor, Inc.	Address: 312	20 National Avenue
Form of Business: Corporation	S	an Diego, CA 92113
(Corporation, partnership, sole proprietor, etc.)	Telephone: _	619.937.1010
	Brozowski	President
Name		Title
Pursuant to the existing Job Order Contract (MTS Docto Contractor to complete the detailed Scope of Work the Scope of Work (attached as Exhibit B.), and the s Order (attached as Exhibit C.)	(attached as Ex ubcontractor lis	hibit A.), the Cost Breakdown for ting form applicable to this Work
TOTAL PAYMENTS TO CONTRACTOR SHALL NOT	EXCEED \$193	3 <u>,236.34</u>
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	ABC GE	ENERAL CONTRACTOR, INC.
By: Sharon Cooney, Chief Executive Officer	Firm:	
Approved as to form:	By:	
	By:S	ignature
By:	Title:	
Karen Landers, General Counsel		

EXHIBIT A (Scope of Work)

San Diego Metropolitan Transit System 1255 Imperial Ave San Diego, California 92101



Date: 8/16/2023

Final Scope of	inal Scope of Work			
			Job Order Contracting	
То:		From:		
Contract No:	PWG324.0-21			
Job Order No:	MTSJOC324-35			
Job Order Title:	SMBF 3620 Roofing Repl	lacement		
Location:	SBMF Building 3620 3620 Main Street Chula Vista, CA 91911			
Brief Scope of Work:				
	letail the scope of work as dis shall be considered part of th		nents necessary to accomplish the	
Owner Project Mana	ager		Date	

Anage 1 of 1 Final Scope of Work

SCOPE OF WORK/MINIMUM TECHNICAL SPECIFICATIONS

SECTION 1-1 GENERAL

This project is for the South Bay Maintenance Facility ("SBMF") improvements at the Training Building, located at 3620 Main Street in Chula Vista. The improvements will consist removal of approximately 8,100 SF of existing bitumen roofing system and replacing with Thermoplastic-Polyolefin (TPO) and replacing existing sheet metal flashing.

All work is to occur within the 3620 building at SBMF located at 3620 Main St. Chula Vista, CA 91911.

SECTION 1-2 STAGING

Contractor is to keep and store all materials and equipment within the work area as possible. Any further staging would have to be coordinated with the MTS Project Manager. There may be some available space adjacent to the work area. All property stored onsite is the responsibility of the contractor and MTS shall not be held liable for any and all equipment, material, tools, etc.

SECTION 1-3 TEMP FACILITIES

The contractor may use MTS' restroom facilities. Contractor is responsible for temp power and water if there is not a close or local source.

SECTION 1-4 SAFETY AND ACCESS

Diligent caution must be taken during the undertaking of this work. All work will occur within the building and on the roof. MTS will coordinate daily access to driver training area. MTS will coordinate parking spots for the contractor. Only vehicles necessary for the performance of the work shall be parked within the lot adjacent to the work. All other parking can be offsite. Roof access can consist of using the roof hatch and ladder or attaching an exterior ladder of scaffolding as necessary. Staff will vacate the training area, but may still use the adjacent lounge area. Contractor to coordinate any days of picking material that for safety purposes would require MTS staff to vacate the lounge area.

SECTION 1-5 WASTE

The contractor is responsible for legally disposing of any and all waste in relation to the work. The contractor shall be responsible for properly disposing all removed materials and old equipment as specified herein. The contractor shall not use any onsite receptacles to dispose of material generated during the performance of this contract. Contractor is responsible for general cleanup at the end of each work day.

SECTION 1-6 SCHEDULE AND SEQUENCING

All work shall be completed within thirty (30) calendar days from issuance of Notice to Proceed. It is assumed there will be some lead time for some items, which is included in the duration. The work shall commence once all material is available and the work can proceed without stoppages. Contractor is to provide a schedule for the work.

SECTION 1-7 SUBMITTALS

Contractor is to provide the following submittals including, but not limited to:

Roofing

- -TPO Roofing Membrane(s)
- -Insulation
- -Cover Board
- -Roofing Materials Certificates of Compliance
- -Roof Application Compounds, including MSDS
- -Skylight Product Data

Sheet Metal Flashing

- -Flashing Product Data with Certificates of Compliance
- -Elastomeric Sealant and Epoxy Seam Sealer
- -Shop Drawing Details for Sheet Metal Flashing Design
- -Sheet Metal Finish Samples

Construction Schedule

SECTION 1-8 ROOFING SCOPE OF WORK

1. Replace Roofing System

- a. Provide all labor, tools, equipment, and materials to replace the existing skylights and roofing system with new TPO at Building 3620 as shown in drawings A-5.0.
- b. Remove thirteen (13) existing skylights; remove and replace nine (9) skylights in-kind, remove the four (4) southerly skylights and replace with TPO roofing.
- c. Remove existing bitumen asphalt roofing system to expose substrate.
- d. Substrate conditions to be inspected with the Contractor and MTS and may be replaced at the direction of MTS at an additional cost.
- e. Protect in place existing roof vents pipes, gas line, roof access hatch, skylights, roof curbing for HVAC utilities, and etc. All penetrations shall be re-sealed as needed.
- f. TPO roofing system shall be constructed to resist wind uplift.
- g. TPO Sheets shall meet ASTM D6878/D6878M, internally fabric- or scrim-reinforced with 60 mils nominal thickness with exposed face color in white.
 - Manufacturers: Subject to compliance with requirements, provide products by one of the following:

Carlisle SynTec Incorporated.

Flex Membrane International Corp.

GAF.

Johns Manville; a Berkshire Hathaway company.

- h. Provide preformed roof insulation boards manufactured or approved by TPO roof membrane manufacturer. Polyisocyanurate Board insulation must comply with ASTM C1289, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
- i. Provide roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with other roofing system components.
- j. Cover board: Provide glass-mat, water-resistant gypsum boards that meet ASTM C1177/C1177M or fiber-reinforced gypsum board that meets ASTM C1278/C1278M
- k. Provide manufacturer's recommended adhesive formulated to attach roof insulation substrate or to another insulation layer as follows:
 - i. Modified asphaltic, asbestos-free cold-applied adhesive.
 - ii. Bead applied, low-rise, one-component or multicomponent urethane adhesive.
 - iii. Full-spread, spray applied, low-rose, two component urethane adhesive.
- I. Contractor to provide 20-year quality assurance warranty.

- m. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - i. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.

2. Remove/Replace Flashing In-Kind

- a. Provide all labor, tools, equipment, and materials to remove and replace the existing flashing at Building 3620.
- b. Flashing at existing expansion joint shall be kept in place with tucker metal to counter flash at expansion joint. Cutting of existing protective flashing at expansion joint shall be coated with cold galvanized coated spray. Expansion joint on west edge shall be protected in place during flashing installation.
- c. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- d. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.
- e. Install new base flashing:
 - i. Install sheet flashings and preformed flashing accessories and adhere to substrates according to roofing system manufacturer's written instructions.
 - ii. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
 - iii. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
 - iv. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hotair weld side and end laps to ensure a watertight seam installation.
 - v. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.
- f. Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
- g. Manufacture and install copings roof edge flashings approved for windstorm classification, Class 1-60 Class 1-75 Class 1-90 Class 1-105 Class 1-120.
- h. Aluminum sheeting shall meet ASTM B209, color to match existing.
- i. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
- j. Elastomeric Sealant: ASTM C920, elastomeric polysulfide silicone polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
- Epoxy Seam Sealer: Two-part, noncorrosive, aluminum seam-cementing compound, recommended by aluminum manufacturer for exterior nonmoving joints, including riveted joints.
- I. Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer.
- m. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

- n. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
- o. Install roof edge flashings in accordance with ANSI/SPRI/FM 4435/ES-1.
- p. Anchor flashings to resist uplift and outward forces.
- q. Contractor to provide 20-year quality assurance warranty.

Attachment(s): South Bay Maintenance Facility Roof Plan As-Builts

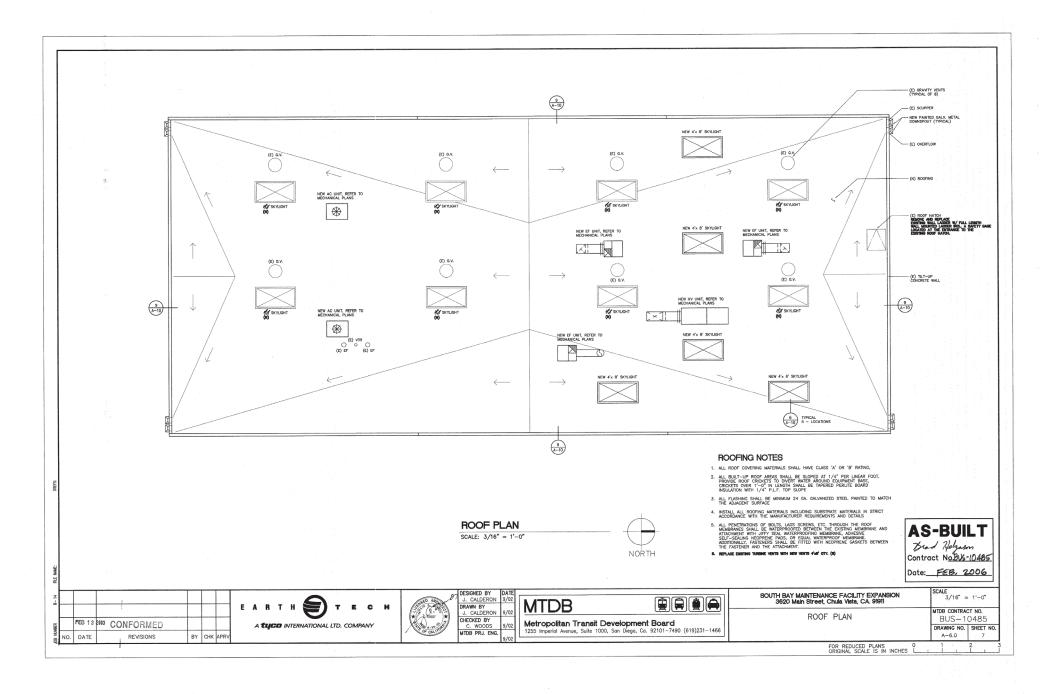


EXHIBIT B (Cost Breakdown)

By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34 Approved Date: August 14, 2023 Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

Division		Install Total	NPP Total	Demo Total	Division Total
01	General Requirements	\$23,477.38	\$0.00	\$0.00	\$23,477.38
06	Wood, Plastics, and Composites	\$4,388.44	\$0.00	\$377.17	\$4,765.61
07	Thermal And Moisture Protection	\$129,185.20	\$0.00	\$16,452.56	\$145,637.76
08	Openings	\$15,669.24	\$0.00	\$1,168.75	\$16,837.99
23	Heating, Ventilating, And Air-Conditioning (HVAC)	\$2,103.57	\$0.00	\$414.03	\$2,517.60
Line Count: 34			F	Proposal Total:	\$193,236.34

The Percentage of Non Pre-Priced on this Proposal:

0.0%

By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Job Order Name: SMBF 3620 Roofing Replacement

Approved Date: August 14, 2023

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

01 General Requirements								
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
1	012223000962	10,000 LB Telescopic Boom, Hi- Reach, Rough Terrain Construction Forklift With Full- Time Operator	Installation	2.00	\$5,784.41	WK	1.0715	\$12,395.99
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	WK	1.0715	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: Hi-Reach

1 week of demo, 1 week of new

Item Note:

							Total:	\$12,395.99
2	012223001331	13 CY Rear Dump Truck With Full-Time Truck Driver	Installation	1.00	\$5,287.91	WK	1.0715	\$5,666.00
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3	Demo:	0.000000	\$0.00	WK	1.0715	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: 1 Week of Demo

Item Note:

							Total:	\$5,666.00
3	017113000002	First 25 Miles, Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	Installation	1.00	\$230.26	EA	1.0715	\$246.72
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	EA	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Hi-Reach Delivery

Item Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forkliffs, sweepers, scissor

platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.

Total: \$246.72

Page 2 of 11

Print Date: 08/16/2023 08:16:20 AM PST

By Division

Version: 2.0 **Approved**

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Approved Date: August 14, 2023

Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

4	017413000003	Collect Existing Debris And Load Into Truck Or Dumpster	Installation	119.00	\$21.83	CY	1.0715	\$2,783.51
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	CY	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials No

User Note: Demo'd/Removed Materials Item Note: Per CY of debris removed.

							Total:	\$2,783.51
5	017419000036	General Refuse	Installation	50.00	\$44.52	TON	1.0715	\$2,385.16
Accepted		History: 1.1 Added, 1.2 Modified, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	TON	1.0715	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

Owner Comments: V:1.2-Approx. 50 tons for general construction debris for 119 CY of waste. Factor for general

construction debris is .37 yards/ton.

User Note: Demo'd/Removed Materials

Item Note:

							Total:	\$2,305.10
06 Wood, Plastics, and Composites								\$4,765.61
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
6	061116000178	2" x 8" Pressure Treated Lumber, For Roofing Nailers	Installation	440.00	\$3.37	LF	1.0715	\$1,588.82
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	440.000000	\$0.80	LF	1.0715	\$377.17

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Nailer under new coping

Item Note:

							Total:	\$1,965.99
7	061116000178	2" x 8" Pressure Treated Lumber, For Roofing Nailers	Installation	240.00	\$3.37	LF	1.0715	\$866.63
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.80	LF	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Frame in existing skylight

Total: \$866.63

Page 3 of 11

Item Note:

Price Proposal Combined Report

^{*} Includes Price Changes due to Construction Task Catalog update

By Division

Version: 2.0 Approved

Accepted

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Approved Date: August 14, 2023

Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

8 061633000006 3/4" Thick CDX Plywood Roof Installation 440.00 \$2.00 SF 1.0715 \$942.92 Deckina Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.62 SF 1.0715 \$0.00 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Frame in existing skylight, double layer

Item Note: Applied to wood rafters.

Total: \$942.92 9 061633000006 For Exterior CC Grade Plywood, MOD: Installation 440.00 \$0.10 SF 1.0715 \$47.15

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 2.0 Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

								Total:	\$47.15
10	061633000006	For Selective Replacement <400 (Includes Removal Of	MOD: 0011	Installation	440.00	\$2.00	SF	1.0715	\$942.92

Damaged Plywood And Fitting New Plywood To Size), Add

History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials No

							Total:	\$942.92
07 Therma	al And Moisture P			\$145,637.76				
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
11	070150190003	Removal Of Gravel Ballast From Roof, Vacuum And Disposal	Installation	94.00	\$37.10	SQ	1.0715	\$3,736.75
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SQ	1.0715	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: Existing Ballast Removal

Item Note:

Total: \$3,736.75

* Includes Price Changes due to Construction Task Catalog update

Print Date: 08/16/2023 08:16:20 AM PST

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By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34 Approved Date: August 14, 2023 Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

12	070150810009	Mastic Sealer, 1/4" Bead At Joint	Installation	960.00	\$3.07	LF	1.0715	\$3,157.92
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	960.000000	\$1.32	LF	1.0715	\$1,357.80

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: At termination bar

Item Note:

							Total:	\$4,515.72
13	071313000006	5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	Installation	0.00	\$373.57	CSF	1.0715	\$0.00
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	96.000000	\$111.98	CSF	1.0715	\$11,518.71

Includes Labor No Includes Equipment No Includes Materials No

User Note: Bituminous Demo

Item Note:

							Total:	\$11,518.71
14	072216000147	1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	Installation	9,600.00	\$1.90	SF	1.0715	\$19,544.16
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SF	1.0715	\$0.00

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: New Insulation

Item Note:

Total: \$19,544.16

\$0.00

Price Proposal Detail Report

By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Job Order Name: SMBF 3620 Roofing Replacement

Approved Date: August 14, 2023

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

15 072216000390 3.5" Average Thickness (20.0 Installation 960.00 \$4.35 SF 1.0715 \$4,474.58 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened History: 1.1 Added, 1.2 Accepted, 1.3 Accepted Demo: 0.000000 \$0.00 SF 1.0715

Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Install crickets system as necessary to allow for proper drainage at mechanical units.

Item Note:

Total: \$4,474.58 072216000467 SF 1.0715 \$4,217.42 16 Demolish Up To 1/2" Average Installation 9.600.00 \$0.41 Thickness, Rigid Board Roofing Insulation \$0.00 SF 1.0715 \$0.00 Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment No Includes Materials No

User Note: Remove existing insulation under the Bituminous Roofing.

Item Note:

							Total:	\$4,217.42
17	075113000129	Polyroof SF Flashing Mastic	Installation	440.00	\$17.28	LF	1.0715	\$8,146.83
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	LF	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Coping Seal

Item Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.

							Total:	\$8,146.83
18	075113000133	TremSEAL S Silicone Sealant	Installation	880.00	\$4.18	LF	1.0715	\$3,941.41
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	LF	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Misc. Joint sealant

Item Note:

Price Proposal Combined Report

Total: \$3,941.41

* Includes Price Changes due to Construction Task Catalog update

Print Date: 08/16/2023 08:16:20 AM PST

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By Division

Version: 2.0

Accepted

Job Order: MTSJOC324-35 **Approved**

Proposal Value: \$193,236.34 Approved Date: August 14, 2023 Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

19 075113000143 36" Wide, Fiberglass Reinforced Installation 480.00 \$20.57 LF 1.0715 \$10,579.56 Asphaltic Walkway Protection

Pad (Tremco Trem-Tred®)

History: 1.1 Added, 1.2 Accepted, 1.3 0.000000 \$0.00 LF 1.0715 \$0.00 Demo:

Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Misc. Protection Pad "walkway Pads"

Estimated 5%

Item Note:

Total: \$10,579.56 Up To 10,000 SF 20 Year 1.00 20 075113000193 Installation \$2,000.00 EΑ 1.0715 \$2,143.00 Roofing System Warranty Accepted History: 1.1 Added, 1.2 Accepted, 1.3 Demo: 0.000000 \$0.00 EΑ 1.0715 \$0.00 Accepted, 2.0 Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: 20 Year NDL Labor and Material Warranty

Item Note:

Total: \$2,143.00

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Price Proposal Combined Report

By Division

Version: 2.0 **Approved**

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Job Order Name: SMBF 3620 Roofing Replacement

Approved Date: August 14, 2023

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

21	075423000003	60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	Installation	96.00	\$245.44	SQ	1.0715	\$25,246.94
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$60.53	SQ	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New TPO Item Note: Includes adhesive.

								Total:	\$25,246.94
22	075423000003	For Low VOC Adhesive, Add	MOD:	Installation	89.00	\$59.26	SQ	1.0715	\$5,651.24
			0444						

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 2.0 Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

								Total:	\$5,651.24
23	075423000003	For Integral Polyester Fleece- Backing, Add	MOD: 0149	Installation	89.00	\$33.25	SQ	1.0715	\$3,170.84

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 2.0 Accepted

Includes Labor No Includes Equipment No Includes Materials Yes

							Total:	\$3,170.84
24	075423000009	Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat	Installation	96.00	\$50.95	SQ	1.0715	\$5,240.92
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	0.000000	\$0.00	SQ	1.0715	\$0.00

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Under new TPO

Item Note:

Total: \$5,240.92

By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34 Approved Date: August 14, 2023 Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

25	075423000013	6" Diameter, Prefabricated TPO Penetration Pocket	Installation	15.00	\$75.52	EA	1.0715	\$1,213.80
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	15.000000	\$7.70	EA	1.0715	\$123.76

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New Pipe/Penetration Boots

Item Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.

							Total:	\$1,337.56
26	075423000015	Thermoplastic Polyolefin Membrane Base Flashing	Installation	600.00	\$5.03	SF	1.0715	\$3,233.79
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	600.000000	\$1.10	SF	1.0715	\$707.19

Includes Labor Yes Includes Equipment No Includes Materials Yes

User Note: Misc. base/counter flashing

Item Note:

							Total:	\$3,940.98
27	075423000017	Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing	Installation	880.00	\$7.27	SF	1.0715	\$6,855.03
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	880.000000	\$1.10	SF	1.0715	\$1,037.21

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

							Total:	\$7,892.24
28	075900000002	Membrane Roofing Termination Bar	Installation	440.00	\$3.18	LF	1.0715	\$1,499.24
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	440.000000	\$1.06	LF	1.0715	\$499.75

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New Termination Bar

Item Note: Includes fasteners and caulking.

Total: \$1,998.99

By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34

Job Order Name: SMBF 3620 Roofing Replacement

Approved Date: August 14, 2023

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

29	076213000038	Install 24 Gauge Galvanized Scupper To 12" Square	Installation	6.00	\$155.91	EA	1.0715	\$1,002.35
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	6.000000	\$0.00	EA	1.0715	\$0.00

Includes Labor No Includes Equipment No Includes Materials Yes

User Note: Scupper replacement

Item Note: Primed, set in mastic and nailed off at flange 2 rows 3" on center and five (5) coursed to roof membrane.

							Total:	\$1,002.35
30	077113000004	>14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	Installation	440.00	\$21.30	LF	1.0715	\$10,042.10
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	440.000000	\$1.82	LF	1.0715	\$858.06

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: New Coping

Item Note:

							Total:	\$10,900.16
31	077223000008	21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	Installation	8.00	\$434.03	EA	1.0715	\$3,720.51
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	8.000000	\$40.84	EA	1.0715	\$350.08

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Replace 8 Whirlybird vents

Item Note:

								Total:	\$4,070.59
32	077223000008	For Curb Or Flange Base, Add	MOD:	Installation	8.00	\$276.11	EA	1.0715	\$2,366.81

Accepted History: 1.1 Added, 1.2 Accepted, 1.3

Accepted, 2.0 Accepted

Includes Labor Yes Includes Equipment No Includes Materials Yes

Total: \$2,366.81

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By Division

Version: 2.0 Approved

Job Order: MTSJOC324-35

Proposal Value: \$193,236.34 Approved Date: August 14, 2023 Job Order Name: SMBF 3620 Roofing Replacement

Location: SBMF Building 3620 3620 Main Street Chula Vista, CA 91911

Contractor: ABC General Inc. Contract Number: PWG324.0-21

Contract Name: JOC Building and Facilities Construction Services. - Option 2

08 Openings								
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
33	086313000177	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	Installation	9.00	\$1,624.85	EA	1.0715	\$15,669.24
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	11.000000	\$99.16	EA	1.0715	\$1,168.75

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: 11 Total demo, 2 to be abandon, 9 remaining

Item Note:

							Total:	\$16,837.99
23 Heating, Ventilating, And Air-Conditioning (HVAC)								\$2,517.60
Record #	CSI Number	Description	Туре	Quanity	Unit Price	UOM	Factor	Line Total
34	230529000539	5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B- Line Dura-Blok DB10)	Installation	40.00	\$49.08	EA	1.0715	\$2,103.57
Accepted		History: 1.1 Added, 1.2 Accepted, 1.3 Accepted, 2.0 Accepted	Demo:	40.000000	\$9.66	EA	1.0715	\$414.03

Includes Labor Yes Includes Equipment Yes Includes Materials Yes

User Note: Misc. Durablocks

Item Note:

	Total:	\$2,517.60
Pr	posal Total:	\$193,236.34
Div The Percentage of Non Pre-Priced on the Property of Non Pre-Priced on the Property of Non-Pre-Priced on the Pre-Priced on the Pre-Pric	is Proposal:	0.0%

EXHIBIT C (Subcontractor Listing)

San Diego Metropolitan Transit System

1255 Imperial Ave San Diego, CA 92101



Date: 8/16/2023

Job Order Contracting

Subcontractor Report

Contract #: PWG324.0-21

Job Order #: MTSJOC324-35

Job Order Title: SMBF 3620 Roofing Replacement

Job Order Value: \$193,236.34

Location: SBMF Building 3620
Contractor: ABC General Inc.

Subcontractor: Permier Roofing of California

Subcontractor Name	License Number	Describe Nature of Work (Trade)	Certifications	Subcontractor Total	%
Permier Roofing of California 9134 Olive Drive, Spring Valley, CA 91977	874943	roofer		\$125,632.00	65.01%

Summary

Certification Name	— Value	%
	\$125,632.00	65.01%
Total	\$125,632.00	65.01%



Agenda Item No. 12

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Municipal Separate Storm Sewer System (MS4) Support and As-Needed Best Management Practices (BMP) Repair and Consulting Services – Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc No. PWG367.0-23 (in substantially the same format as Attachments A), with WSP USA (WSP), in the amount of \$1,079,270.68 for a period of five (5) years to provide MTS support and as-needed repair and consulting services related to Phase II MS4 General Order.

Budget Impact

The total budget for this project shall not exceed \$1,079,270.68. This project is funded by Storm Water Operations Budget 122010 – 571140.

DISCUSSION:

State law gives the State Water Resources Control Board (SWRCB) authority to regulate water quality. The SWRCB does this partially by establishing regulations and requiring public agencies to obtain a permit for storm water discharges. MTS was enrolled as a permittee under the SWRCB's Phase II MS4 General Order. As a permittee, MTS is required to have a formal plan committing to various storm water management, monitoring, reporting, education/outreach, illegal discharge detection and elimination, construction site requirements, and pollution prevention measures (Plan). Because of the specialized expertise needed to oversee MTS's Phase II MS4 program, MTS contracts with a consultant firm to assist MTS with its compliance and documentation efforts required by the Plan. The current contract for such services expires on October 31, 2023.

Today's proposed action would award a contract to WSP to assist MTS with implementing the Plan, so as to comply with the Phase II MS4 General Order. The general services include program management tasks, project team coordination and management, preparation of draft annual report on stormwater multiple application and report tracking system (SMARTS), Stormwater Pollution Prevention Plans (SWPPP)/Water Quality Technical Report (WQTR)



review, treatment BMP inspections and maintenance, training and development of MTS staff, tracking of MS4 permit requirements, annual guidance updates, total maximum daily loads (TMDL) compliance implementation, update and implement comprehensive education and outreach program, review and update templates for construction SWPPP and erosion and sediment control plan, and as-needed BMP repair and consulting services. The services are necessary to ensure that MTS remains in compliance with the MS4 General Order.

On May 17, 2023, MTS issued a Request for Proposals (RFP) solicitation for support and asneeded repair and consulting services related to Phase II MS4 General Order.

On June 16, 2023, MTS received a proposal from each of the following firms.

#	Firm Name	Certifications
1	Socal Stormwater Runoff Solution Services Inc. (Socal)	Women Business Enterprise (WBE), Small Business (SB)
2	Whitson Contracting & Management, Inc. (Whitson)	SB
3	WSP	None

All firms were deemed responsive and responsible by MTS. A selection committee, consisting of representatives from Environmental Health and Safety, Facilities Management, and Finance departments met for initial evaluations and scored the proposals based on the criteria below:

Criteria	%
Qualifications of the Firm or Individual	20%
Staffing, Organization, and Management Plan	25%
Work Plan	30%
Cost and Price	25%
Total Possible Score	100%

During the initial evaluation, the selection committee scored and ranked the firms as follows:

Rank	Firm Name	Technical (Max 75%)	Cost (Max 25%)	Proposed Cost	Total Score
1.	WSP	68.33	19.05	\$1,116,622.09	87.38
2.	Socal	56.00	25.00	\$850,714.68	81.00
3.	Whitson	38.33	9.99	\$2,129,890.00	48.32

As a result of the initial evaluation, the panel deemed WSP and Socal to be within the competitive range, and eliminated Whitson from further consideration.

Following the initial evaluations, the selection committee requested clarifications/revised proposals from both WSP and Socal. After receipt of the revised proposals, the panel reconvened, and using the aforementioned evaluation criteria, re-evaluated the proposals from WSP and Socal.

Rank	Firm Name	Technical (Max 75%)	Cost (Max 25%)	Proposed Cost	Total Score
1.	WSP	68.33	19.05	\$1,116,622.09	88.71
2.	Socal	56.00	25.00	\$850,714.68	73.00

After the second evaluation, the selection committee determined that only WSP remained in the competitive range, and commenced negotiations with the firm. As a result of negotiations, WSP reduced their proposed pricing by \$37,351.41 from the original offer of \$1,116,622.09 to a revised offer of \$1,079,270.68.

After considering the technical and price factors and price analysis, the selection committee deemed that WSP provided the best value to MTS.

Therefore, staff recommends that the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the CEO to execute MTS Doc No. PWG367.0-23 (in substantially the same format as Attachments A), with WSP, in the amount of \$1,079,270.68 for a period of five (5) years to provide MTS support and as-needed repair and consulting services related to Phase II MS4 General Order.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachment: A. Draft Agreement, MTS Doc No. PWG367.0-23



STANDARD AGREEMENT

FOR

MTS DOC. NO. PWG367.0-23

MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

THIS AGREEMENT is entered into this or by and between San Diego Metropolitan Transit Systollowing, hereinafter referred to as "Contractor":	
Name: WSP USA Inc.	Address: 401 B St., Ste. 1650
Form of Business: Corporation (Corporation, Partnership, Sole Proprietor, etc.) Telephone: 619.338.9376 Authorized person to sign contracts Patti Boek Na	San Diego, CA 92101 City State Zip Email: Patti.Boekamp@wsp.com Senior Director / Local Business Leade me Title
The Contractor agrees to provide services as specification (Exhibit A), Contractor's Technical Properties (Exhibit B), and in accordance with the Standard Agreems (Exhibit D), and Policy 44C Travel Guidelines of The contract term is for up to (5) years effective Nove Payment terms shall be net 30 days from invoice da \$1,079,270.68 without the express written consent of	posal (Exhibit A1), Contractor's Cost/Pricing Formation Formation (Exhibit C) for Contractors (Exhibit F). The modern of the contract shall not exceed the contract of the contract shall not exceed the cost of this contract shall not exceed the cost of the cost of the contract shall not exceed the cost of the c
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	WSP USA INC.
By: Sharon Cooney, Chief Executive Officer Approved as to form:	Ву
	Title
By: Karen Landers, General Counsel	Title:



EXHIBIT A SCOPE OF WORK/TECHNICAL SPECIFICATION



SCOPE OF WORK/TECHNICAL SPECIFICATIONS

5.1. BACKGROUND

The State Water Resources Control Board (SWRCB) promulgated new requirements for stormwater discharges for small Municipal Separate Storm Sewer System (MS4) on July 1, 2013 by Order No. 2013-0001-DWQ 2013, hereinafter referred to as the "General Order" (ATT 2_GENERAL ORDER). The San Diego Metropolitan Transit System (MTS) was not originally designated as a new Non-Traditional Small MS4 Permittee that was required to enroll under the General Order. However, the San Diego Regional Water Quality Control Board (Regional Board) informed MTS that the Regional Board intended to exercise its authority, and required MTS to enroll under the General Order as a new Non-Traditional Small MS4 Permittee by the end of 2016. Therefore, MTS developed a plan to complete the tasks set forth in the provisions of the General Order in the appropriate time frame (ATT 3_MS4 OPERATIONS & MAINTENANCE ACTIVITY GUIDANCE MANUAL.). Selected Consultant shall assist MTS with implementing plan to comply with the Phase II (MS4) General Order.

5.2. PERIOD OF PERFORMANCE

The term of the agreement shall be for a five (5) year base period from the date of the Notice to Proceed.

5.3. MINIMUM REQUIREMENTS

- A) At least five (5) years of experience conducting services of similar scope.
- B) Consultant shall obtain Roadway Worker Safety Training certification before access is authorized to MTS rail property.
- C) Consultant shall provide evidence of permit-required confined space entry training for employees tasked with BMP maintenance, cleaning and/or installation.
- D) Any work within fifteen (15) feet of active rail, or as otherwise identified by MTS, shall require a MTS flagger. An MTS Flagger Request form must be submitted to flaggerquest@sdmts.com no later than 72 hours prior to the commencement of the work. The MTS flagger request shall include: the specific location, time(s) and date(s) for when an MTS flagger(s) will be necessary. The MTS flagger will be provided at the expense of the party requesting the work. The requester will be responsible to contact SDTI Assignment Office at (619) 595-4956 no later than 24 hours prior to beginning of work for all cancellations and be subject to SDTI labor reporting costs.
- E) Contractor shall have certified Qualified SWPPP Designer (QSD) or Qualified Stormwater Practitioner (QSP) certification(s) on staff to review MTS construction project(s).

5.4. DETAILED SCOPE OF WORK

5.4.1 PROGRAM MANAGEMENT - Consultant shall perform the following services:

5.4.1.1 Monthly Meetings

- Prepare draft agenda for review
- Submit final agenda
- Participate in meeting

5.4.1.2 Invoice/Progress Report

Submit monthly invoice and progress report to MTS

5.4.1.3 Project Team Coordination and Management

Prepare quarterly progress reports

5.4.2 MS4 SUPPORT SERVICES

Consultant shall provide regulatory support associated with the Small MS4 General Permit Water Quality Order 2013-0001-DWQ and amendments. Regulatory support may include but is not limited to the following:

5.4.2.1 Annual Report

- Prepare draft Annual Report on Stormwater Multiple Application and Report Tracking System (SMARTS)
- Download in PDF file format for review by MTS and outside legal counsel
- Incorporate MTS comments and prepare final Annual Report
- Submit final Annual Report to MTS approved signatory for certification on SMARTS
- Program Effectiveness Assessment and Improvement Plan

5.4.2.2 Stormwater Pollution Prevention Plans (SWPPP)/Water Quality Technical Report (WQTR) Review

- Review SWPPP and WQTRs as requested.
- Submit comment matrix to MTS
- Review MTS's response to comments
- Attend meetings with various regulatory agencies, and MTS staff, as needed for final comment resolution

5.4.2.3 Treatment Best Management Practice (BMP) Inspections and Maintenance (See ATT 4 MTS STATIONS WITH TREATMENT BMPS.)

- Inspect biannual Treatment BMPs at Trolley and Transit stations to comply with MTS MS4 permit requirements.
- Complete MTS inspection form and submit with photos to MTS within five (5) days after the inspection
- Schedule and provide oversight of treatment BMP's maintenance, replacement and/or minor repairs (as approved by MTS)
- Inspect treatment BMPs per weather related requirements

5.4.2.4 Training and Development

- Update and provide slide decks on training pertaining to MS4 Permit compliance, such as Illicit Discharge Detection and Elimination Training, as requested by MTS.
- Update and provide slide decks on training pertaining to MS4 Permit compliance, such as Good Housekeeping Training, as requested by MTS.
- Deliver training to MTS as requested

Review and update annual training materials, if needed.

5.4.2.5 Track MS4 Permit Requirements

- Track required training, inspections and permit reporting requirements on a monthly basis
- Provide updates to MTS Environmental Health Specialist to ensure MTS compliance with MS4 Permit reporting requirements

5.4.2.6 Annual Guidance Updates

- Update MTS MS4 Guidance documents based on changes to MTS facilities or modifications to the MS4 Permit
- Submit changes in draft form to MTS, and submit final guidance based on comments from MTS

5.4.2.7 Total Maximum Daily Loads (TMDL) Compliance Implementation

- Support MTS with implementation of TMDL monitoring requirements
- Support MTS with any coordination for sampling and analysis of TMDL pollutants of concern such as, but not limited to, total suspended solids and bacteria
- Update and maintain GIS Data base of MTS Stormwater infrastructure.
- Conduct field inspections and sampling to investigate illicit discharges and report to MTS.

5.4.2.8 Public Education and Outreach Program

- Update and implement comprehensive education and outreach program
- Disseminate education materials to target audiences and translate to multiple non-English languages as appropriate
- Promote reporting of illicit discharge
- Provide water efficient/ stormwater friendly landscaping information.

5.4.2.9 Construction General Permit

- Review and update templates for Construction SWPPP and Erosion and Sediment Control Plan ensure compliance with MS4 and MTS's Stormwater Management Plan.
- Review and provide comments of construction projects to ensure compliance with MTS MS4 permits.
- Perform annual facility assessment of MTS leasing properties and submit inspection result matrix back to MTS.
- Post Construction Stormwater Management Program/ Trash compliance implementation/ Factsheet

5.5 AS-NEEDED REPAIR SERVICES

Consultant shall provide minor, routine, or reoccurring construction or renovation, alteration or repair of existing BMPs catch basins, storm drains, swales, or conveyance, or implement new BMPs on an as-needed basis. Consultant shall supply all labor materials necessary to provide as needed repair services on a Time and Materials basis.

5.6.1 General Requirements

- 1. Consultant shall comply with all City, County, State, or Federal building laws, regulations, and code requirements in the performance of their work.
- 2. Consultant shall be responsible for diagnosing the problem and making the necessary repairs.
- 3. Consultant shall only perform work that is approved by MTS. Approval by the MTS Project Manager or designee is required prior to any work being performed.
 - Prior to performing any repair services, Consultant shall provide a quote for the services to be performed. The quote shall include at minimum the following information:
 - Estimated hour(s) and hourly rate
 - At cost part(s) amount
 - Part percentage mark up
 - Date the service is to be performed and completed
 - Any work requires approval from MTS Procurement prior to commencement of services.
 - I. Consultant shall perform and complete each work order in the agreed upon manner and time period.
 - II. In the event of accidental site damage by the Consultant, Consultant shall be responsible to return the site to its original condition at no cost to MTS.
 - III. Consultant shall remove all debris generated while making repairs, replacement, or installation and leave the work area clean, "broom swept" state.
 - IV. Unless otherwise stated, Consultant shall remove all equipment, materials, etc. as directed by MTS.
 - V. Consultant is responsible for clarifying with the MTS Project Manager or designee any questions regarding the work that is to be performed.
 - VI. All parts furnished in connection with repair of equipment shall be new and at least equal quality to the parts being replaced, and must be unconditionally guaranteed for a minimum period of one (1) year or manufacturer's warranty, whichever is longer.
 - VII. All equipment removed or salvaged in conjunction with replacements (other than cabling and wires) must be returned to MTS Storeroom within five (5) days, along with a packaging slip describing where the parts were taken from, who replaced them under what work order number(s), and what parts were being replaced. MTS parts clerk must receive and sign off on all packing slips in person. Upon award MTS will inform the Consultant the location and contact information for the returns.

VIII. Consultant shall be paid only for time spent on the premises performing the services required under the contract. Travel time, or related expenses, such as fuel, etc. will not be reimbursed.

A. Service Calls

- MTS expects the Consultant to give "priority" to service requests. Consultant is responsible for contacting MTS within twenty-four (24) hours of call, or at the beginning of the next business day.
- 2. Service calls shall be provided Monday through Friday, 7:00 am and 4:00 pm (excluding MTS holidays,).
- All repairs must be made at the time of the service call, unless otherwise agreed upon by MTS. Equipment cannot be removed without leaving a replacement that will keep the systems operational.

B. Hourly Rates

All estimated travel subsistence costs (i.e. mileage, fuel surcharge, etc.), project management and administration projected to be utilized by the Consultant during the term of performance of any resultant contract are to be absorbed, amortized, and incorporated into the Proposer's fully burdened unit per hour rates.

1. Call Back Services shall be billed at the labor rates as set forth in the Consultant's quote.

C. Replacement Parts

In the event that the Consultant need to purchase replacement parts (not covered in the scope of the contract) to repair equipment parts, materials and supplies shall be reimbursed by MTS based on actual cost plus the mark up expense provided herein. All pass-through expenses must be authorized by the designated MTS Project. The maximum cost-plus mark-up expense allowed shall not be more than 3%.

5.6 CONSULTANT DELIVERABLES

- a) Consultant shall provide copies of reports to the MTS Project Manager for review and comment. Once approved by the MTS Project Manager, Consultant shall upload all necessary reports to SMARTS.
- b) Consultant shall perform annual Program Effectiveness Assessment and Improvement Plan.
- c) Consultant shall provide copy of Annual Report for MTS review and comment. Consultant shall upload final copy of the annual report to the SMARTS system.
- d) Consultant shall provide detailed justification for any BMP recommendations, and cost estimates for any maintenance, replacement, upgrade or additions to existing BMPs, for approval by the MTS Project Manager or designee, prior to commencing work.
- e) Consultant shall provide regulatory storm water training materials, such as Illicit Discharge Detection and Elimination and Good Housekeeping as stated above.

- f) Consultant shall submit the Treatment BMP Inspection Form(s)1 (Electronic PDF Format) for every treatment BMP to MTS Project Manager, inclusive of photographic documentation.
- g) Consultant shall perform monthly review of GIS storm water infrastructure, and update GIS database.

5.7 MTS DELIVERABLES:

- A) Access shall be provided to facilities for applicable services such as inspections, audits and site evaluation, and sampling locations.
- B) Designation shall be authorized as a Data Entry Person on SWRCB's SMARTS database for the specific facility where service is provided.
- C) Current TMDL Compliance Plan shall be provided to the selected Consultant for rationale and sampling procedures for TMDL compliance.

5.8 SCHEDULE OF SERVICES

- A) The Annual Report shall be submitted within fifteen (15) working days of the end of reporting period.
- B) Additional reports shall be delivered as agreed to by the Parties.

5.9 ACCEPTANCE AND ACCURACY OF DATA

Consultant shall be solely responsible for providing timely and accurate QSE sampling throughout the term of the agreement. Consultant shall be responsible for all additional costs due to inaccurate and/or incorrect sampling due to Consultant negligence. At no time shall MTS pay for Consultant negligence and Consultant shall be solely responsible for re-sampling and re-testing of any and all samples which are found to be contaminated, inaccurate, outside hold times, or not capable of testing in a lab.

5.10 CHANGES/ADDITIONAL SERVICES

SRWQCB occasionally mandates for additional constituents to be analyzed from rain samples collected at industrial facilities. At the time of the contract award, the existing sampling requirements shall be identified in the SWPPP, however MTS may require on-call inspections by the Consultant as a result of mandate revisions for tasks including but not limited to permit revisions, TMDL requirements/amendments or new SWPPP requirements.

Thus, during the term of the agreement, MTS reserves the right to add services and locations based on regulatory and agency need.

5.11 STANDARD OF CARE

Proposer's services shall be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

5.12 PRICING

Pricing shall be firm and fixed for the duration of the Contract and any subsequent Change Orders/Amendments to the Contract, and shall be inclusive all costs, including but not limited to overhead, profit, travel, etc., incurred in the performance of said services. There shall be no escalation of rates or fees allowed.

Specific Rates of Compensation:

Consultant shall be paid at an agreed upon and supported specific fixed hourly blended rate for each class of employee engaged directly in the work.

5.13 PERSONNEL CHANGES

Consultant Contract Manager shall keep the MTS Contract Manager informed of any changes to the Consultant's key personnel as identified in the Consultant's proposal. The Consultant shall provide MTS's designee, a new Statement of Qualifications (SOQ) within thirty (30) days of any changes. The SOQ shall include at a minimum key personnel's resume, and relevant experience for the services in this agreement.

MTS reserves the right to reject Consultant's change of key personnel, should MTS deem the replacement personnel not qualified to perform the services in this agreement.

5.14 INVOICES

Invoices must be sent to the MTS Accounting Department, via email, at ap@sdmts.com. All invoices must have the Purchase Order and contract number clearly displayed to ensure timely payment. MTS will not pay on packing slips, receiving documents, delivery documents, or other similar documents. Invoices must be submitted for payment.

Payment terms shall be net 30 days from invoice date.

Contractors must also indicate if any of the invoiced amount(s) is for service or work provided by a subcontractor and indicate the amount that will be paid to the subcontractor. Contractors must also comply with the prompt payment requirements in the *Prompt Progress Payments* section of the Standard Conditions.

5.15 MATERIAL SAFETY DATA SHEETS (MSDS)

MTS retains the safety data sheets on an electronic database (currently CloudSDS). Upon award, Contractors shall email the MSDS for chemicals that any individuals may be exposed to, attention Ngan Nguyen, MTS Environmental Health and Safety Specialist at Ngan.Nguyen@sdmts.com to upload into the database. The Contractor shall notify the MTS Environmental Health and Safety Specialist if there are changes or updates to the MSDS during the term of the contract to ensure the MTS database is kept updated throughout the contract.

5.16 NO RIGHT TO POST SIGNS

The Contractor shall not post or otherwise affix signs, decals or other media on MTS property or equipment, except as required to maintain safety during the course of repair or maintenance work. No permanent signs, decals, or other media may be installed without MTS's express written permission.

ATTACHMENTS

ATT 2_GENERAL ORDER

ATT3_MS4 OPERATIONS & MAINTENANCE ACTIVITY GUIDANCE MANUAL

ATT 4 MTS STATIONS WITH TREATMENT BMPS



STATE WATER RESOURCES CONTROL BOARD WATER QUALITY ORDER NO. 2013-0001-DWQ NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000004

WASTE DISCHARGE REQUIREMENTS (WDRs)
FOR
STORM WATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER
SYSTEMS (MS4s) (GENERAL PERMIT)



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FINDINGS

The State Water Resources Control Board (State Water Board) finds that:

- 1. Storm water is a resource and an asset and should not be treated as a waste product. Managing rainwater and storm water at the source is a more effective and sustainable alternative to augmenting water supply, preventing impacts from flooding, mitigating storm water pollution, creating green space, and enhancing fish and wildlife habitat. California encourages alternative, innovative, multi-objective solutions to help use and protect this valuable resource, while at the same time controlling pollution due to urban runoff.
- 2. As human population increases, urban development creates new pollution sources and brings with it proportionately higher levels of car emissions, car maintenance wastes, municipal sewage, pesticides, household hazardous wastes, pet wastes, trash, etc. which can either be washed or directly dumped into the municipal separate storm sewer system (MS4). As a result, the runoff leaving the developed urban area is greater in pollutant load than the pre-development runoff from the same area. Also, when natural vegetated pervious ground cover is converted to impervious surfaces such as paved highways, streets, rooftops, walkways and parking lots, the natural absorption and infiltration abilities of the land are lost. Therefore, runoff leaving developed urban area is significantly greater in runoff volume, velocity, peak flow rate, and duration than pre-development runoff from the same area. The increased volume, velocity, rate, and duration of runoff greatly accelerate the erosion of downstream natural channels. In addition, the greater the impervious cover the greater the significance of the degradation.
- 3. Pollutants of concern found in urban runoff include sediments, non-sediment solids, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, pesticides and herbicides.
- 4. Trash and litter are a pervasive problem in California. Controlling trash is a priority, because trash adversely affects our use of California's waterways. Trash impacts aquatic life in streams, rivers, and the ocean as well as terrestrial species in adjacent riparian and shore areas. Trash, particularly plastics, persists for years. It concentrates organic toxins, entangles and ensnares wildlife, and disrupts feeding when animals mistake plastic for food and ingest it. Additionally, trash creates aesthetic impacts, impairing our ability to enjoy our waterways.
- 5. The State Water Resources Control Board (State Board) is developing a statewide policy for trash control in California's waterways. The draft Trash Policy will identify trash as a separate pollutant and establish methods to control trash pollution in waterways, statewide. Following adoption of the draft Trash Policy, the State Water Board may re-open this Order to incorporate water body trash pollution control methods and introduce Trash Reduction Program requirements.
- 6. A higher percentage of impervious area in urban areas correlates to a greater pollutant loading, resulting in turbid water, nutrient enrichment, bacterial contamination, organic matter loads, toxic compounds, temperature increases, and increases in trash or debris.
- 7. Conventional landscaping features large lawns, non-native plants, abundant irrigation, and heavy use of fertilizers, herbicides, and pesticides. It frequently requires significant mowing,

blowing, trimming, and removal of plants debris. Adopting more storm water-friendly landscape practices reduces pollutants and also provides tangible water conservation, wildlife habitat, and energy saving benefits.

- 8. The State Water Board recognizes that this Order affects varied and diverse entities, including agencies that are required to carry out water conservation regulations, wastewater discharge regulations, and land use regulations that may implement, all or in part, provisions of this Order. The State Water Board seeks to minimize duplicate efforts and maximize resources to achieve the greatest water quality benefit; thus the State Water Board recognizes specified related regulations, cited in the body of this Order, as equivalent to implementing designated provisions of this Order.
- 9. When water quality impacts are considered during the planning stages of a project, new development and many redevelopment projects can more efficiently incorporate measures to protect water quality.
- 10. In California, urban storm water is listed as the primary source of impairment for ten percent of all rivers, ten percent of all lakes and reservoirs, and 17 percent of all estuaries (2010 Integrated Report). Although these numbers may seem low, urban areas cover just six percent of the land mass of California and so their influence is disproportionately large. Urbanization causes changes in the landscape, including increased loads of chemical pollutants, increased toxicity, changes to flow magnitude, frequency, and seasonality of various discharges, physical changes to stream, lake, or wetland habitats, changes in the energy dynamics of food webs, sunlight, and temperature; and biotic interactions between native and exotic species. In addition to surface water impacts, urbanization can alter the amount and quality of storm water that infiltrates and recharges groundwater aguifers.
- 11. Education and awareness programs help change human behavior with respect to reducing the amount of pollution generated from storm water sources within the Permittee's MS4 system. In addition to education, encouraging public participation in local storm water programs can lead to program improvement as well as enabling people to identify and report a pollution-causing activity, such as spotting an illicit discharge.
- 12. Field experience in conducting outfall surveys indicates that illicit discharges may be present at 2 to 5 percent of all outfalls at any given time. Given that pollutants are being introduced into the receiving water during dry weather, illicit discharges may have an amplified effect on water quality and biological diversity. Therefore, implementation of an effective Illicit Discharge and Detection Elimination program in conjunction with focused wet weather monitoring, as necessary, is an essential component of an effective municipal storm water program.
- 13. In 1990, the U.S. Environmental Protection Agency (U.S. EPA) promulgated rules establishing Phase I of the National Pollutant Discharge Elimination System (NPDES) storm water program. The Phase I program for MS4s requires operators of "medium" and "large" MS4s, that is, those that generally serve populations of 100,000 or greater, to implement a storm water management program as a means to control polluted discharges from these MS4s.

Urban Stormwater Management in the United States, National Research Council, 2008

- 14. A MS4 is a conveyance or system of conveyances that is: 1) owned by a state, city, town, village, or other public entity that discharges to waters of the United States; 2) designed or used to collect or convey storm water (including storm drains, pipes, ditches, etc.); 3) not a combined sewer; and 4) not part of a Publicly Owned Treatment Works or sewage treatment plant.
- 15. On December 8, 1999, U.S. EPA promulgated Phase II storm water regulations under authority of the Clean Water Act section 402(p)(6). The Phase II Storm Water requires State Water Board to issue NPDES storm water permits to operators of Small MS4s.
- 16. On April 30, 2003, the State Water Board adopted Water Quality Order No. 2003-0005-DWQ, NPDES General Permit CAS000004 WDRs for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (General Permit) to comply with Clean Water Act section 402(p)(6).
- 17. Title 40 of the Code of Federal Regulations (40 C.F.R.) section122.26(b)(16) defines Small MS4s as those not defined as "large" or "medium" MS4s under section122.26(b)(4) or (b)(7) or designated under 40 Code of Federal Regulations section122.26(a)(1)(v). The term Small MS4s includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. (40 C.F.R. §122.26(b)(16)(iii).) These latter subsets of Small MS4s are referred to herein as Non-traditional Small MS4s. Non-traditional Small MS4s discharge the same types of pollutants that are typically associated with urban runoff. Separate storm sewers in very discrete areas, such as individual buildings, are not defined as Small MS4s.
- 18. Of the Small MS4s defined by federal regulations, only "Regulated Small MS4s" (also referred to as "Permittees" herein) must obtain an NPDES permit. Small MS4s are designated as Regulated Small MS4s in this Order in accordance with the criteria described in Findings 19-25.
- 19. Under 40 Code of Federal Regulations section 122.32(a)(1) all Small MS4s located within an "urbanized area" as determined by the latest Decennial Census by the Bureau of the Census (Urbanized Area) are automatically designated as Regulated Small MS4s.
- 20. Under 40 Code of Federal Regulations sections 122.32(a)(2) and 123.35(b) the State Water Board is directed to develop a process, as well as criteria, to designate Small MS4s located outside of an Urbanized Area as Regulated Small MS4s. These criteria are to evaluate whether a storm water discharge results in or has the potential to result in exceedances of water quality standards, including impairment of designated uses, or other significant water quality impacts, including habitat and biological impacts.
- 21. Under guidance provided in 40 Code of Federal Regulations secton123.35(b)(1)(ii), for determining other significant water quality impacts, U.S. EPA recommends a balanced consideration of the following designation criteria on a watershed or other local basis: discharge to sensitive waters, high growth or growth potential, high population density,

² In addition to the designation criteria specified in this Order, the State Water Board may designate a Small MS4 as a Regulated Small MS4 in response to a petition received under 40 Code of Federal Regulations section 122.26(f). Any person may petition the State Water Board to require an NPDES permit for a discharge composed entirely of storm water that contributes to a violation of a water quality standard or is a significant contributor of pollutants to the waters of the United States. (*Id.*). The State Water Board must make a final determination on any petition within 180 days after receiving the petition. (40 C.F.R. §123.35(c).)

- contiguity to an urbanized area, significant contributor of pollutants to waters of the U.S., and ineffective protection of water quality by other programs.
- 22. The State Water Board is required to apply the designation criteria at a minimum to all Small MS4s located outside of Urbanized Areas serving jurisdictions with a population density of at least 1,000 people per square mile and a population of at least 10,000. (40 C.F.R. §123.35(b)(2).) The State Water Board has discretion to apply the criteria to jurisdictions with smaller population or lower density. All such jurisdictions are then Regulated Small MS4s.
- 23. In developing the designation criteria, the State Water Board included factors indicative of the potential to result in exceedances of water quality standards and other significant water quality impacts. The following criteria are used to designate Small MS4s outside of Urbanized Areas as Regulated Small MS4s in this Order.
 - a. The Small MS4 has high population and high population density High population means a population of 10,000 or more. High population density means a density of 1,000 residents per square mile or greater. Also to be considered in this definition is a high density created by a non-residential population, such as tourists or commuters.
 - b. The Small MS4 discharges to Areas of Special Biological Significance (ASBS) as defined in the California Ocean Plan.
- 24. Designation of additional Small MS4s as Regulated Small MS4s may be made by the Regional Water Boards on a case by case basis. Case by case determinations of designation shall be based on the potential of a Small MS4's discharges to result in exceedances of water quality standards, including impairment of designated uses, or other significant water quality impacts, including habitat and biological impacts. Where such case by case designations have been recommended by the Regional Water Boards prior to adoption of this Order, the designated Small MS4s are listed on the relevant Attachments to the Order and the reasons for designation are laid out in the Fact Sheet. The Regional Water Boards may continue to make case by case determinations of designation during the permit term. Such designations must be approved by the Regional Water Board after public review and comment.
- 25. 40 Code of Federal Regulations section 123.35(b)(4) requires designation as a Regulated Small MS4 of any Small MS4 outside an Urbanized Area that contributes substantially to the pollutant loadings of a physically interconnected MS4 regulated by the NPDES storm water program. A Small MS4 is interconnected with a separately permitted MS4 if storm water that has entered the Small MS4 is allowed to flow directly into a permitted MS4. In general, if the Small MS4 discharges more than ten percent of its storm water to the permitted MS4, or its discharge makes up more than ten percent of the permitted MS4's total storm water volume, it is a significant contributor of pollutants to the permitted MS4. In specific cases, the MS4s involved or third parties may show that the ten percent threshold is inappropriate for the MS4 in question.
- 26. Regulated Small MS4s may seek a waiver from Phase II requirements if they meet criteria specified in 40 Code of Federal Regulations sections 122.32(c)-(e).³ The State

³ Waiver criteria also found at 40 C.F.R. 123.35(d).

Water Board has additionally provided for a waiver for those communities outside of urbanized areas with a population of 20,000 or less with an annual median household income (MHI) that is less than 80 percent of the statewide annual MHI. (Wat. Code, § 79505.5, subd. (a)).

- 27. Small MS4s face highly variable conditions both in terms of threats to water quality from their storm water discharges and resources available to manage those discharges. Therefore, one set of prescriptive requirements is not an appropriate regulatory approach for all Regulated Small MS4s. This Order distinguishes between New and Renewal Traditional Small MS4 Permittees. Additionally, this Order addresses differences between Traditional and Non-traditional Small MS4s by detailing Non-traditional Small MS4 specific provisions in Section F Non-Traditional Small MS4 Provisions. Provisions are tailored to address the diverse program structures of Non-traditional Small MS4s to allow for an appropriate regulatory approach.
- 28. There are variable levels of resources available to Regulated Small MS4s for public outreach and education and water quality monitoring. Recognizing this, the Order gives Permittees numerous compliance options in these two program areas. However, all Regulated Small MS4s that discharge to ASBS or impaired water bodies⁴ must conduct monitoring as specified in Attachment C and Attachment G, respectively. All Regulated Small MS4s with a population of 50,000 or more must conduct monitoring specified in Sections E.13.d.1. or E.13.d.2. of the Order or as approved by the Executive Officer of the applicable Regional Board. Additionally, for the public outreach program, the Regional Water Boards may require the Regulated Small MS4s to utilize the approach of Community-Based Social Marketing.
- 29. Renewal Traditional Small MS4 Permittees shall comply with Section E. Certain provisions within Section E contain compliance dates that are past the effective date of this Order, in these cases, the Permittee shall implement its existing program until that date.
- 30. This Order modifies the existing General Permit, Order 2003-0005-DWQ by establishing the storm water management program requirements in the Order and defining the minimum acceptable elements of the municipal storm water management program. Minimum permit requirements are known at the time of permit issuance and not left to be determined later through Regional Water Board review and approval of Storm Water Management Plans (SWMPs).
- 31. The State Water Board recognizes the necessity of a storm water program guidance document specific to each Permittee to provide planning and guidance for each program area and to identify responsible implementing parties. Permittees must develop and implement a storm water program guidance document and must submit the document during the application process.
- 32. The State Water Board recognizes that in some instances Renewal Permittees' SWMPs that were approved under the prior General Permit, Order 2003-0005-DWQ have incorporated BMPs designed to address locality-specific storm water issues and that in some cases these

A waterbody that has been determined under state policy and federal law not meet water quality standards. An impaired water is a water that has been listed on the California 303(d) list or has not yet been listed but otherwise meets the criteria for listing. A water is a portion of a surface water of the state, including ocean, estuary, lake, river, creek, or wetland. The water currently may not be meeting state water quality standards or may be determined to be threatened and have the potential to not meet standards in the future. The State of California's 303(d) list can be found at http://www.swrcb.ca.gov/quality.html.

BMPs may, because of locality-specific factors, be more protective of water quality than the minimum requirements established by this Order. Renewal Permittees will additionally include in the guidance document the following: identification and brief description of each BMP and associated measurable goal included in the Permittee's previously approved SWMP under the prior General Permit, Order 2003-0005-DWQ, that constitutes a more specific local or tailored level of implementation that may be more protective of water quality than the minimum requirements of this Order; and identification of whether the Permittee proposes to maintain, reduce, or cease implementation for each more protective, locally-tailored BMP. In no instance may a BMP be reduced or ceased if it is required by the minimum standards set by this Order.

- 33. Minimum measures have been established in this Order to simplify assessment of compliance and allow the public to more easily assess each Permittee's compliance.
- 34. Each provision establishes the required task description, minimum implementation levels (i.e., escalating enforcement, reporting requirements for tracking projects, number of monitoring sites, etc.), and reporting elements to substantiate that the Permittee meets these implementation levels. Regional Water Board staff will be able to evaluate each individual Permittee's compliance through Annual Report review and the program evaluation (audit) process.
- 35. The provisions contained in this Order were derived from two main U.S. EPA documents: MS4 Program Evaluation Guide⁵ and the MS4 Permit Improvement Guide⁶ along with interviews and information gathered from a lengthy collaborative stakeholder process.
- 36. Consistent with Clean Water Act section 402(p)(3)(B)(iii), this Order requires controls to reduce pollutants from the MS4 to the maximum extent practicable (MEP). The MEP standard requires Permittees to apply Best Management Practices (BMPs) that are effective in reducing or eliminating the discharge of pollutants to the waters of the U.S. MEP emphasizes pollutant reduction and source control BMPs to prevent pollutants from entering storm water runoff. MEP may require treatment of the storm water runoff if it contains pollutants. The MEP standard is an ever-evolving, flexible, and advancing concept, which considers technical and economic feasibility. BMP development is a dynamic process and may require changes over time as the Permittees gain experience and/or the state of the science and art progresses. To do this, the Permittees must conduct and document evaluation and assessment of each relevant element of its program, and their program as a whole, and revise activities, control measures/BMPs, and measurable goals, as necessary to meet MEP. MEP is the cumulative result of implementing, evaluating, and creating corresponding changes to a variety of technically appropriate and economically feasible BMPs, ensuring that the most appropriate BMPs are implemented in the most effective manner.
- 37. The Order's Receiving Water Limitations language is consistent with State Water Board Order WQ 99-05 (Orange County) adopted by the State Water Board on June 17, 1999. Receiving Water Limitations apply to all Permittees subject to this Order. The State Water Board held a workshop on November 20, 2012, to hear comments on the receiving water limitations provisions in MS4 permits. This Order has a reopener clause that will allow the State Water Board to reopen the Order if the Board directs changes to the Receiving Water Limitations language based on comments received.
- 38. Non-storm water discharges consist of all discharges from an MS4 that do not originate from precipitation events. This Order effectively prohibits non-storm water discharges through an

Municipal Separate Storm Sewer System (MS4) Program Evaluation Guidance, USEPA, EPA-833-R-07-003, January 1, 2007

⁶ MS4 Permit Improvement Guide, USEPA, April 1, 2010

MS4 into waters of the U.S. Certain categories of non-storm water discharges are conditionally exempt as specified at 40 Code of Federal Regulations section 122.26(d)(2)(iv)(B)(1). Non-storm water discharges that are regulated by a separate NPDES permit are not subject to the discharge prohibition. Prohibited non-storm water discharges include conditionally exempt discharges that are found to be a significant source of pollutants to waters of the U.S.

- Non-storm water discharges to ASBS are prohibited except as specified in the General 39. Exception. Certain enumerated non-storm water discharges are allowed under the General Exception if essential for emergency response purposes, structural stability, slope stability, or if occur naturally. In addition, an NPDES permitting authority may authorize non-storm water discharges to an MS4 with a direct discharge to an ASBS to the extent the NPDES permitting authority finds that the discharge does not alter natural ocean water quality in the ASBS. This Order allows utility vault discharges to an MS4 with a direct discharge to an ASBS, provided the discharge is authorized by the General NPDES Permit for Discharges from Utility Vaults and Underground Structures to Surface Water, NPDES No. CAG 990002. The State Water Board is in the process of reissuing the General NPDES Permit for Utility Vaults. As part of the renewal, the State Water Board will require a study to characterize representative utility vault discharges to an MS4 with a direct discharge to an ASBS and will impose conditions on such discharges to ensure the discharges do not alter natural ocean water quality in the ASBS. Given the limited number and intermittent nature of utility vault discharges to MS4s that discharge directly to an ASBS, the State Water Board finds that discharges from utility vaults and underground structures to an MS4 with a direct discharge to an ASBS are not expected to result in a substantial alteration of natural ocean water quality in the ASBS in the interim period while the General NPDES Permit for Discharges from Utility Vaults is renewed and the study is completed. Other short-duration, intermittent non-storm water discharges related to LUPs (e.g. groundwater dewatering, potable water system flushing, hydrotest discharges) are regulated under NPDES permits issued by the Regional Water Boards. Although such discharges are not specifically enumerated in the General Exception as essential for emergency response purposes, structural stability, or slope stability, they may be required to ensure the safety and stability of the utility systems or for operations and maintenance and for extending these essential services. For this reason, and because the short-duration and intermittent nature of these discharges renders them unlikely to result in substantial alteration of natural ocean water quality in the ASBS, this Order permits such discharges to a segment of the MS4 with a direct discharge to an ASBS provided they are authorized by an NPDES permit issued by the State Water Board or relevant Regional Water Board. However, if a Regional Water Board determines a specific discharge from a utility vault or underground structure does alter the natural ocean water quality in an ASBS, the Regional Water Board may prohibit the discharge as specified in this Order.
- 40. Total Maximum Daily Loads (TMDL) are numerical calculations of the maximum amount of a pollutant that a water body can assimilate and still meet water quality standards. A TMDL is the sum of the allowable loads of a single pollutant from all contributing point sources (waste load allocations) and non-point sources (load allocations), background contribution, plus a margin of safety. Discharges from Small MS4s are point source discharges subject to TMDLs. This Order requires Permittees to comply with all applicable TMDLs approved pursuant to 40 Code of Federal Regulations section 130.7 that assign a Waste Load Allocation to Permittee and that have been identified in Attachment G. The high variance in the level of detail and specificity of TMDLs necessitates the development of more specific permit requirements in many cases to provide clarity to the Permittees regarding responsibilities for compliance. The Regional Water Boards have submitted TMDL-specific permit requirements to the State Water Board, for applicable TMDLs, along with statements explaining how the requirements are designed to achieve the goals of the TMDLs (incorporated into the Fact Sheet). The TMDL-specific permit requirements are summarized

in Attachment G and are an enforceable component of this Order. The Regional Water Boards are additionally being directed through this Order to review the TMDL-specific permit requirements of Attachment G in consultation with the Permittees and the State Water Board staff and propose any revisions to the State Water Board within one year of the effective date of this Order. TMDLs applicable to non-traditional dischargers in the region of the Los Angeles Regional Water Board are listed in Attachment G without TMDL-specific permit requirements. The Los Angeles Water Board is being directed to develop and propose TMDL-specific permit requirements for Attachment G in consultation with the Permittees and the State Water Board staff within one year of the effective date of this Order. Any such revisions will be incorporated into the permit through a reopener.

- 41. Degraded watershed processes lead to degraded water quality. To fully protect beneficial uses, post-construction runoff retention and hydromodification control criteria for individual projects must be derived with a knowledge of dominant watershed processes. Watershed management zones will be delineated by the State Board during this permit term. The Watershed management zones will be used to identify applicable areas and appropriate criteria for runoff retention and hydromodification control to be incorporated into the next permit. Regional Water Boards that approve watershed process-based criteria for post-construction during this permit term will be permitted to require Permittees to implement these criteria.
- 42. The post-construction requirements and design standards contained in this Order are consistent with State Water Board Order WQ 2000-11 (*Bellflower*).
- 43. State Water Board, California State Parks and the State Historic Preservation Officer may coordinate efforts to manage post-construction projects involving historic sites, structures or landscapes that cannot alter their original configuration in order to maintain their historic integrity.
- 44. Permittees will submit Annual Reports electronically using the State Water Board's Storm Water Multi-Application Reporting and Tracking System (SMARTS). The purpose of the Annual Report is to evaluate (1) the implementation of Permittees' storm water program; (2) the effectiveness of BMPs and Measurable Goals, (3) the Permittee's improvement opportunities to achieve MEP, and (4) any supplemental information required by a Regional Water Board in accordance with the Regional Water Board's specific requirements.
- 45. To apply for General Permit coverage authorizing storm water discharges to surface waters pursuant to this Order, the Permittees shall electronically file a Notice of Intent (NOI) using SMARTS and mail the appropriate permit fee to the State Water Board. The NOI represents the Permittee's commitment to comply with the BMPs specified in this Order to achieve compliance with the minimum control measures specified at 40 Code of Federal Regulations sections122.34 (b)(1) through (b)(6).
- 46. Under 40 Code of Federal Regulations section 122.35, a Separate Implementing Entity (SIE) can implement a storm water management program for another entity such as a municipality, agency, or special district. The SIE implements parts or all of a storm water program for a Permittee. Permittees relying on a SIE to implement their entire program must electronically file an NOI using SMARTS and mail appropriate fee to the State Water Board.
- 47. Each Permittee is individually responsible for adoption and enforcement of ordinances and/or policies, implementation of identified control measures/BMPs needed to prevent or reduce pollutants in storm water and operation and maintenance (O&M). Enforcement actions concerning this Order will be pursued only against the individual Permittee responsible for specific violations of this Order.

- 48. In accordance with 40 Code of Federal Regulations section122.28(b)(3), a Regional Water Board may issue an individual MS4 NPDES Permit to a Permittee otherwise subject to this Order, or adopt an alternative general permit that covers storm water discharges regulated by this Order. In accordance with Code of Federal Regulations section 122.34(b)(3), a Regulated Small MS4 in the same urbanized area as a medium or large MS4 may jointly with the medium or large MS4 seek a modification of the other MS4s permit to be added as a limited co-permittee. The applicability of this Order is automatically terminated on the effective date of the individual permit or joint permit or the date of approval for coverage under the alternative general permit.
- 49. Certain BMPs implemented or required by Permittees for urban runoff management may create a habitat for vectors (e.g., mosquitoes and rodents) if not properly designed or maintained. Close collaboration and cooperation among the Permittees, local vector control agencies, Regional Water Board staff, and the California Department of Public Health is necessary to identify and implement appropriate vector control measures that minimize potential nuisances and public health impacts resulting from vector breeding.
- 50. 40 Code of Federal Regulations section 131.12 requires that state water quality standards include an anti-degradation policy consistent with the federal policy. The State Water Board established California's anti-degradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal anti-degradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. The Regional Water Board's Water Quality Control Plans (Basin Plans) implement, and incorporate by reference, both the State and federal anti-degradation policies.
- 51. This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code § 21100, et seq.) in accordance with Water Code section13389. (County of Los Angeles v. Cal. Water Boards, (2006), 143 Cal.App.4th 985.)
- 52. Following public notice in accordance with State and federal laws and regulations, the State Water Board, in a public hearing on August 8, 2012, heard and considered all comments. The State Water Board has prepared written responses to all significant comments.
- 53. The State Water Board has considered the costs of complying with this Order and whether the required BMPs meet the minimum MEP Standard required by federal law. Further discussion of cost of compliance is included in the Fact Sheet.
- 54. This Order shall serve and become effective as an NPDES permit and the Permitees shall comply with all its requirements pursuant to the timeframes identified within the permit.

IT IS HEREBY ORDERED that operators of Small MS4s subject to this Order shall comply with the following:

A. APPLICATION REQUIREMENTS FOR ALL SMALL MS4 PERMITTEES

Any Small MS4s designated under this Order that chooses to apply for an individual permit or request to join the permit of a Phase I Permittee must notify the Regional Water Board of its intent to do so by July 1, 2013. Census Designated Places (CDPs) listed on Attachment A that are located within an existing NPDES permit area are not required to file for separate coverage and pay separate fees.

- A.1. Small MS4 Permittees (Except for Department of Defense and Department of Corrections and Rehabilitation Permittees)
 - a. New Permittees shall electronically file an NOI via SMARTS and mail the appropriate fee to the State Water Board by July 1, 2013. Renewal Permittees shall electronically file an NOI via SMARTS and pay the appropriate application fee to the State Water Board. Any Renewal Permittees with paid 2013 application fee invoices shall receive a prorated refund. If the Permittee is designated as a Regulated Small MS4 by a Regional Water Board after adoption of this Order, the Permittee shall file the NOI and mail the appropriate fee within six months of the date of designation.
 - b. General Permit coverage will be in effect upon receipt of the following:
 - 1) NOI via SMARTS
 - 2) Appropriate Fee (in accordance with the most recent fee schedule⁷)
 - 3) Permit boundary map delineating permit jurisdiction: At a minimum the map shall include the following:
 - (a) Phase II MS4 permit boundary based on 2010 Census data. For cities, the permit area boundary is the city boundary. For Counties, permit boundaries must include urbanized areas and places identified in Attachment A located within their jurisdictions. The boundaries must be proposed in the permit boundary map and may be developed in conjunction with the applicable Regional Water Board
 - (b) City/County Boundaries
 - (c) Main Arterial Streets
 - (d) Highways
 - (e) Waterways
 - (f) Phase I MS4 Permit Boundary (if applicable)
 - 4) Guidance document: The document shall at least include the following:

New Permittees:

- (a) Overall program planning
- (b) Identifification of all permit requirements and responsible implementing parties

Renewal Permittees:

- (a) Overall program planning
- (b) Identification of all permit requirements and responsible implementing parties

California Code of Regulations. Title 23. Division 3. Chapter 9 Waste Discharge Reports and Requirements. Article 1 Fees.

- (c) Identification and brief description of each BMP and associated measurable goal included in the Permittee's most current SWMP that constitutes a more specific local or tailored level of implementation that may be more protective of water quality than the minimum requirements of this Order.
- (d) Identification of whether the Permittee will maintain, reduce, or cease implementation for each more protective, locally-tailored BMP.
- (e) For any more protective, locally-tailored BMP and associated measurable goal for which the Renewal Permittee will reduce or cease implementation, the Renewal Permittee shall demonstrate to the Executive Officer of the relevant Regional Water Board that the reduction or cessation is in compliance with this Order and the maximum extent practicable standard, and will not result in increased pollutant discharges. The demonstration by the Permittee will be subject to public comment before any approval by the Executive Officer of reduction or cessation of BMPs In no instance may the Renewal Permittee reduce or cease a BMP if it is required by the minimum standards set by this Order.

The guidance document may be in spreadsheet, tabular or narrative format.

A.2. Department of Defense and Department of Corrections and Rehabilitation Permittees

- a. Permittee shall electronically file an NOI via SMARTS and mail the appropriate fee to the State Water Board by July 1, 2013. If the Permittee is designated as a Regulated Small MS4 by a Regional Water Board after adoption of this Order, the Permittee shall file the NOI and mail the appropriate fee within six months of the date of designation.
- b. General Permit coverage will be in effect upon receipt of the following:
 - 1) NOI via SMARTS
 - 2) Appropriate fee (in accordance with the most recent fee schedule⁸)
 - 3) Permit boundary map as developed by the Permittee

Renewal MS4s must continue implementing their current storm water management programs until submittal of a NOI via SMARTS.

A.3. Waiver Certification

Regulated Small MS4s may seek a waiver from the General Permit requirements if they meet criteria specified in 40 C.F.R. §122.32(c)-(e) or additional criteria specified in A.3.b.(3) below.

In order for a Regional Water Board to waive requirements for a Regulated Small MS4, (1) the Regulated Small MS4 must certify that its discharges do not cause or contribute to, or have the potential to cause or contribute to, a water quality impairment, and (2) the Regulated Small MS4 must meet one of the waiver options in Section b below:

a. Waiver Certification Application Requirements - A Waiver Certification will only be in effect upon completion of the following:

⁸ California Code of Regulations. Title 23. Division 3. Chapter 9 Waste Discharge Reports and Requirements. Article 1 Fees.

- 1) Annual Waiver Certification submitted via SMARTS.
- 2) Annual Waiver Certification renewal fee of \$200 plus any applicable surcharge.
- 3) Letter via SMARTS from Regional Water Board or its Executive Officer waiving requirements.

Requirements are automatically waived if the Regional Water Board does not respond within six months.

b. Waiver Criteria

- (1) Option 1
 - (a) The jurisdiction served by the system is less than 1,000 people;
 - (b) The system is not contributing substantially (as defined in Finding 25) to the pollutant loadings of a physically interconnected regulated MS4; and
 - (c) If the small MS4 discharges any pollutants identified as a cause of impairment of any water body to which it discharges, storm water controls are not needed based on WLAs that are part of a U.S.EPA approved or established TMDL that addresses the pollutant(s) of concern.

(2) Option 2

- (a) The jurisdiction served by the system is less than 10,000 people;
- (b) The Regional Water Board has evaluated all waters of the U.S. that receive a discharge from the system:
- (c) The Regional Water Board has determined that storm water BMPs are not needed based on WLAs that are part of a U.S. EPA approved or established TMDL that addresses the pollutant(s) of concern or an equivalent analysis; and
- (d) The Regional Water Board has determined that future discharges from the Regulated Small MS4 do not have the potential to result in exceedances of water quality standards.
- (3) Option 3 (applicable to Small MS4s outside an Urbanized Area only)

Small Disadvantaged Community – The Regulated Small MS4 certifies that it is a community with a population of 20,000 or less with an annual median household income (MHI) that is less than 80 percent of the statewide annual MHI. (Wat. Code, § 79505.5, subd.(a)).

If the Waiver Certification Application Requirements or conditions of any waiver option are not met by the Regulated Small MS4, then the Regulated Small MS4 must submit a NOI via SMARTS and appropriate fee for coverage under this General Permit or apply for an individual NPDES permit.

The State Water Board or a Regional Water Board can, at any time, require a previously waived Regulated Small MS4 to comply with this General Permit or an individual NPDES permit if circumstances change so that the conditions of the waiver are no longer met. Changed circumstances can also allow a Regulated Small MS4 to request a waiver at any time.

B. DISCHARGE PROHIBITIONS

- 1. Discharges of waste from the MS4 that are prohibited by Statewide Water Quality Control Plans or applicable Regional Water Quality Control Plans (Basin Plans) are prohibited.
- Discharges of storm water from the MS4 to waters of the U.S. in a manner causing or threatening to cause a condition of pollution or nuisance as defined in Water Code § 13050 are prohibited.
- 3. Discharges through the MS4 of material other than storm water to waters of the U.S. shall be effectively prohibited, except as allowed under this Provision or as otherwise authorized by a separate NPDES permit. The following non-storm water discharges are not prohibited provided any pollutant discharges are identified and appropriate control measures to minimize the impacts of such discharges, are developed and implemented under the Permittee's storm water program. This provision does not obviate the need to obtain any other appropriate permits for such discharges.
 - a. water line flushing;
 - b. individual residential car washing;
 - c. diverted stream flows;
 - d. rising ground waters;
 - e. uncontaminated ground water infiltration (as defined at 40 C.F.R. §35.2005(20)) to separate storm sewers;
 - f. uncontaminated pumped ground water;
 - g. discharges from potable water sources;
 - h. foundation drains;
 - i. air conditioning condensation;
 - j. springs;
 - k. water from crawl space pumps;
 - footing drains;
 - m. flows from riparian habitats and wetlands;
 - n. dechlorinated swimming pool discharges; and
 - o. incidental runoff from landscaped areas(as defined and in accordance with Section B.4 of this Order).

Discharges or flows from fire-fighting activities are excluded from the effective prohibition against non-storm water and need only be addressed where they are identified as significant sources of pollutants to waters of the U.S.

If a Permittee or a Regional Water Board Executive Officer determines that any individual or class of non-storm water discharge(s) listed above may be a significant source of pollutants to waters of the U.S. or physically interconnected MS4, or poses a threat to water quality standards (beneficial uses), the Regional Water Board Executive Officer may require the appropriate Permittee to monitor and submit a report and to implement BMPs on the discharge.

4. Discharges in excess of an amount deemed to be incidental runoff shall be controlled. Regulated Small MS4s shall require parties responsible for such to implement Sections B.4.a-d below. Incidental runoff is defined as unintended amounts (volume) of runoff,

such as unintended, minimal over-spray from sprinklers that escapes the area of intended use. Water leaving an intended use area is not considered incidental if it is part of the facility design, if it is due to excessive application, if it is due to intentional overflow or application, or if it is due to negligence.

Parties responsible for controlling runoff in excess of incidental runoff shall:

- a. Detect leaks (for example, from broken sprinkler heads) and correct the leaks within 72 hours of learning of the leak;
- b. Properly design and aim sprinkler heads;
- c. Not irrigate during precipitation events; and
- d. Manage pond containing recycled water such that no discharge occurs unless the discharge is a result of a 25-year, 24-hour storm event or greater, and the appropriate Regional Water Board is notified by email no later than 24 hours after the discharge. The notification is to include identifying information, including the Permittee's name and permit identification number.

Non-storm water runoff discharge that is not incidental is prohibited, unless otherwise specified in Section B.3 above.

Incidental runoff may be regulated by waste discharge requirements or, where necessary, waste discharge requirements that serve as a NPDES permit, including MS4 permits.

 Discharge to Areas of Special Biological Significance (ASBS) is prohibited except in compliance with the ASBS Special Protection Provisions in Attachment C. Regulated Small MS4s that discharge to an ASBS are listed in Attachment D and are subject to the ASBS Special Protection Provisions.

C. EFFLUENT LIMITATIONS

- 1. Permittees shall implement controls as required by this Order to reduce the discharge of pollutants from their MS4s to waters of the U. S. to the MEP. Permittees shall additionally reduce the discharge of pollutants (1) to achieve TMDL waste load allocations (WLAs) established for discharges by the MS4s and (2) to comply with the Special Protections for discharges to ASBS.
- Storm water discharges regulated by this Order shall not contain a hazardous substance in amounts equal to or in excess of a reportable quantity listed in 40 C.F.R. Part 117 or 40 C.F.R. Part 302.

D. RECEIVING WATER LIMITATIONS

Discharges shall not cause or contribute to an exceedance of water quality standards contained in a Statewide Water Quality Control Plan, the California Toxics Rule (CTR), or in the applicable Regional Water Board Basin Plan.

The Permittee shall comply with Receiving Water Limitations through timely implementation of control measures/BMPs and other actions to reduce pollutants in the discharges and other requirements of this Order including any modifications. The storm water program shall be designed to achieve compliance with Receiving Water Limitations. If exceedance(s) of water quality objectives or water quality standards persist notwithstanding implementation of other storm water program requirements of this Order, the Permittee shall assure compliance with Receiving Water Limitations by complying with the following procedure:

- 1. Upon a determination by either the Permittee or the Regional Water Board that MS4 discharges are causing or contributing to an exceedance of an applicable water quality standard, the Permittee shall promptly notify and thereafter submit a report to the Regional Water Board that describes BMPs that are currently being implemented and additional BMPs that will be implemented to prevent or reduce any pollutants that are causing or contributing to the exceedance of water quality standards. The report shall include an implementation schedule. The Regional Board may require modifications to the report;
- 2. Submit any modifications to the report required by the Regional Water Board within 30 days of notification;
- 3. Implement the actions specified in the report in accordance with the approved schedule;
- 4. So long as the Permittee has complied with the procedure set forth above and is implementing the actions, the Permittee does not have to repeat the same procedure for continuing or recurring exceedances of the same receiving water limitations unless directed by the State Water Board or the Regional Water Board to develop additional BMPs.

E. PROVISIONS FOR ALL TRADITIONAL SMALL MS4 PERMITTEES

E.1. RENEWAL TRADITIONAL SMALL MS4 PERMITTEES

All Renewal Traditional Small MS4s Permittees shall comply with this Section. Where the requirements of a certain subsection provide a compliance date that is past the effective date of this Order, the Renewal Traditional Small MS4 shall implement its existing program until that date.

E.2. NEW TRADITIONAL SMALL MS4 PERMITTEES

New Traditional Small MS4s shall comply with this Section.

E.3. NON-TRADITIONAL SMALL MS4S PERMITTEES

- **E.3.a.** All Renewal Non-Traditional Small MS4 Permittees shall comply with Section F of this Order. Where the requirements of a certain subsection provide a compliance date that is past the effective date of this Order, the Renewal Non-Traditional Small MS4 shall implement its existing program until that date.
- **E.3.b.** New Non-Traditional Small MS4s Permittees shall comply with Section F of this Order.

E.4. SMALL MS4 ASBS PERMITTEES

Both Traditional and Non-traditional Small MS4s Permittees that discharge to ASBS as listed on Attachment D shall comply with Attachment C in addition to all other applicable provisions of this Order.

E.5. SEPARATE IMPLEMENTING ENTITY (SIE)

Permittees, both Traditional and Non-traditional Small MS4s, may rely on a SIE to satisfy one or more of the permit obligations, if the SIE can appropriately and adequately address the storm water issues of the Permittee. The SIE must agree to implement the BMPs, or components thereof, to achieve compliance with this Order. If the SIE fails to implement the BMPs, the Permittee remains responsible for compliance with this Order.

E.6. PROGRAM MANAGEMENT ELEMENT

To effectively implement a coordinated storm water program, the Permittee shall have an overarching Program Management element in its storm water management program. The Program Management element shall include the following:

E.6.a. Legal Authority

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall review and revise relevant ordinances or other regulatory mechanisms, or adopt any new ordinances or other regulatory mechanisms, to obtain adequate legal authority, to the extent allowable under state or local law, to control pollutant discharges into and from, as applicable, its MS4, and to meet the requirements of this Order.
- (ii) **Implementation Level** –At a minimum, the Permittee shall have adequate legal authority to:
 - (a) Effectively prohibit non-storm water discharges through the MS4. Exceptions to this prohibition are NPDES-permitted discharges of non-storm water and nonstorm water discharges in B.3 that are considered non-significant contributors of pollutants. Where the non-storm water discharge is to a segment of an MS4 that discharges directly to an ASBS, exceptions to the non-storm water prohibition are specified in Attachment C.

- (b) Detect and eliminate illicit discharges and illegal connections to the MS4. Illicit connections include pipes, drains, open channels, or other conveyances that have the potential to allow an illicit discharge to enter the MS4. Illicit discharges include all non-storm water discharges not otherwise authorized in this Order, including discharges from organized car washes, mobile cleaning and pressure wash operations,
- (c) Respond to the discharge of spills, and prohibit dumping or disposal of materials other than storm water into the MS4.
- (d) Require parties responsible for runoff in excess of incidental runoff to implement Discharge Prohibition B.4.a-e.
- (e) Require operators of construction sites, new or redeveloped land; and industrial and commercial facilities to minimize the discharge of pollutants to the MS4 through the installation, implementation, or maintenance of BMPs consistent with the California Storm Water Quality Association (CASQA) Best Management Practice Handbooks or equivalent.
- (f) Require information deemed necessary to assess compliance with this Order. The Permittee shall only require information in compliance with the Homeland Security Act or any other federal law that concerns security in the United States. The Permittee shall also have the authority to review designs and proposals for new development and redevelopment to determine whether adequate BMPs will be installed, implemented, and maintained during construction and after final stabilization (post-construction).
- (g) Enter private property for the purpose of inspecting, at reasonable times, any facilities, equipment, practices, or operations for active or potential storm water discharges, or non-compliance with local ordinances/standards or requirements in this Order, as consistent with any applicable state and federal laws.
- (h) Require that dischargers promptly cease and desist discharging and/or cleanup and abate a discharge, including the ability to:
 - Effectively require the discharger to abate and clean up their discharge, spill, or pollutant release within 72 hours of notification; high risk spill should be cleaned up as soon as possible.
 - 2) Require abatement within 30 days of notification, for uncontrolled sources of pollutants that could pose an environmental threat;
 - 3) Perform the clean-up and abatement work and bill the responsible party, if necessary;
 - 4) Provide the option to order the cessation of activities until such problems are adequately addressed if a situation persists where pollutant-causing sources or activities are not abated:
 - 5) Require a new timeframe and notify the appropriate Regional Water Board when all parties agree that clean-up activities cannot be completed within the original timeframe and notify the appropriate Regional Water Board in writing within five business days of the determination that the timeframe requires revision.
- (i) When warranted, have the ability to:
 - 1) Levy citations or administrative fines against responsible parties either immediately at the site, or within a few days.

- 2) Require recovery and remediation costs from responsible parties.
- (j) Impose more substantial civil or criminal sanctions (including referral to a city or district attorney) and escalate corrective response, consistent with its Enforcement Response Plan developed pursuant to Section E.6.c., for persistent non-compliance, repeat or escalating violations, or incidents of major environmental harm.

E.6.b. Certification

- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall certify by its Principal Executive Officer, Ranking Elected Official, or Duly Authorized Representative as described in 40 Code of Federal Regulations section 122.22(b) that the Permittee has and will maintain full legal authority to implement and enforce each of the requirements contained in this Order.
- (ii) **Implementation Level** The Permittee's certification statement shall include the following:
 - (a) Identification of all departments within the Permittee's jurisdiction that conduct storm water-related activities and their roles and responsibilities under this Order.
 - (b) Citation of storm water runoff related ordinances, identification of the topics each ordinance addresses;
 - (c) Identification of the local administrative and legal procedures and ordinances available to mandate compliance with storm water-related ordinances and therefore with the conditions of this Order.
 - (d) A description of how storm water related-ordinances are reviewed and implemented.
 - (e) A statement that the municipality will implement enforcement actions consistent with its Enforcement Response Plan developed pursuant to Section E.6.c.
- (iii) **Reporting** All Permittees shall submit in the second year online Annual Report, a statement signed by an authorized signatory certifying the Permittee has adequate legal authority to comply with all Order requirements.

E.6.c. Enforcement Measures and Tracking

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall develop and implement an Enforcement Response Plan. The Enforcement Response Plan shall contain enforcement procedures and actions and identify the Permittee's responses to violations and describe how the Permittee will address repeat and continuing violations by implementing progressively stricter responses as needed to achieve compliance.
- (ii) **Implementation Level -** The Enforcement Response Plan shall describe how the Permittee will use each of the following types of enforcement responses based on the type of violation:
 - (a) Verbal Warnings Verbal warnings are primarily consultative in nature. At a minimum, verbal warnings shall specify the nature of the violation and required corrective action.

- (b) Written Notices Written notices shall include nature of the violation and the required corrective action, with deadlines for taking such action.
- (c) Escalated Enforcement Measures The Permittee shall establish legal authority to employ any combination of the enforcement actions below (or their functional equivalent), and to escalate enforcement responses where necessary to correct persistent non-compliance, repeat or escalating violations, or incidents of major environmental harm:
 - 1) Citations (with Fines) The Enforcement Response Plan shall describe when the Permittee will assess monetary fines, which may include civil and administrative penalties.
 - 2) Stop Work Orders The Enforcement Response Plan shall describe when the Permittee will issue stop work orders that require construction activities to be halted, except for those activities directed at cleaning up, abating discharge, and installing appropriate BMPs.
 - 3) Withholding of Plan Approvals or Other Authorizations Where a facility is in non-compliance, the Enforcement Response Plan shall describe how the Permittee's own approval or authorization processes that affect the facility's ability to discharge to the MS4 can be used to abate the violation.
 - 4) Additional Measures The Enforcement Response Plan may also describe other escalated measures the Permittee has under its local legal authorities. For example, the Permittee may need to improve erosion control measures and collect the funds to pay for work and materials from the responsible party by either collecting against the project's bond or directly billing the responsible party.
- (d) NPDES Permit Referrals–For those construction projects or industrial facilities subject to the State's Construction General Permit (CGP) or Industrial General Permit (IGP), the Permittee shall:
 - 1) Refer non-filers (i.e., those facilities that cannot demonstrate that they obtained permit coverage) to the appropriate Regional Water Board within 30 days of making that determination, or file a complaint on the State Water Board's website:
 - http://www.dtsc.ca.gov/database/CalEPA Complaint/index.cfm. In making such referrals, at a minimum include the following documentation:
 - a) Construction project or industrial facility location.
 - b) Name of owner or operator.
 - Estimated construction project size or type of industrial activity (including the Standard Industrial or the North American Industry Classification, if known).
 - d) Records of communication with the owner or operator regarding filing requirements.
 - 2) Refer ongoing violations to the appropriate Regional Water Board provided that the Permittee has made a good faith effort of progressive enforcement to achieve compliance with its own ordinances. At a minimum, the Permittee's good faith effort shall include documentation

of two follow-up inspections and two warning letters or notices of violation. In making such referrals, the Permittee shall include, at a minimum, the following information:

- a) Construction project or industrial facility location
- b) Name of owner or operator
- Estimated construction project size or type of industrial activity (including Standard Industrial Classification or North American Industry Classification System if known)
- d) Records of communication with the owner or operator regarding the violation, including at least two follow-up inspections, two warning letters or notices of violation, and any response from the owner or operator
- e) Enforcement Tracking –Track instances of non-compliance via hard-copy files or electronically. The enforcement tracking documentation shall include, at a minimum, the following:
 - (1) Name of owner/operator
 - (2) Location of construction project or industrial facility
 - (3) Description of violation
 - (4) Required schedule for returning to compliance
 - (5) Description of enforcement response used, including escalated responses if repeat violations occur or violations are not resolved within the time specified in the enforcement action.
 - (6) Accompanying documentation of enforcement response (e.g., notices of noncompliance, notices of violations, etc.)
 - (7) Any referrals to different departments or agencies
- f) Recidivism Reduction The Permittee shall identify chronic violators of any provision of this Order or of any related local ordinance or regulation and reduce the rate of noncompliance recidivism. The Permittee shall develop incentives, disincentives, or increase inspection frequency at the operator's sites to prevent chronic violations.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.7. EDUCATION AND OUTREACH PROGRAM

Traditional Small MS4 Permittees may be required to implement Community-Based Social Marketing (CBSM) requirements as detailed in Attachment E upon determination by a Regional Board Executive Officer. The Regional Board Executive Officer shall notify Permittees within

three months of the permit adoption date of their determination to require CBSM. The notification shall include a statement of reasons why the Executive Officer finds that implementation of CBSM is appropriate. If the Permittee disagrees with the Executive Officer determination, the Permittee may bring the dispute to the State Water Board Executive Director or his designee as specified under the Dispute Resolution provision of this Order.

E.7.a. Public Education and Outreach

Within the first year of the effective date of the permit, all Permittees shall comply with the requirements in this Section by selecting one or more of the following Public Education and Outreach options:

- Contributing to a countywide storm water program, as determined appropriate by the Permittee members, so that the countywide storm water program conducts outreach and education on behalf of its members; or
- 2) Contributing to a regional outreach and education collaborative effort (a regional outreach and education collaborative effort occurs when all or a majority of the Permittees collaborate to conduct regional outreach and education. Regional outreach and education collaboration includes Permittees defining a uniform and consistent message, deciding how best to communicate the message, and how to facilitate behavioral changes, then collaboratively apply what is learned through local jurisdiction groups, pooling resources and skills.); or
- 3) Fulfilling outreach and education requirements within their jurisdictional boundaries on their own; or
- 4) A combination of the previous options, so that all requirements are fulfilled.

Reporting – By the first year Annual Report, the Permittee shall submit information indicating which Public Education and Outreach option(s) it will use to comply with this Section. For each option involving a contribution to a countywide storm water program or regional outreach and education collaborative effort, the Permittee shall complete and have available in the first year Annual Report documentation, such as a written agreement, letter or similar document, which confirms the collaboration with other MS4s.

(i) Task Description – Within the second year of the effective date of the permit, the Permittee shall develop and implement a comprehensive storm water public education and outreach program. The public education and outreach program shall be designed to reduce pollutant discharges in storm water runoff and non-storm water discharges to the MS4 through increased storm water knowledge and awareness in target communities. The Public Education and Outreach Program shall be designed to measurably increase the knowledge and awareness of targeted audience regarding the municipal storm drain system, impacts of urban runoff and non-storm water discharges on receiving waters, and potential BMP solutions for the target audiences, thereby reducing pollutant releases to the MS4 and the environment.

⁹ Getting in Step, A Guide to, Conducting Watershed Outreach Campaigns, 3rd Edition, November 2010, EPA 841-B-10-002, USEPA, Office of Water.

- (ii) **Implementation Level** –The Permittee shall, at a minimum:
 - (a) Develop and implement a public education strategy that establishes education tasks based on water quality problems, target audiences, and anticipated task effectiveness. The strategy must include identification of who is responsible for implementing specific tasks and a schedule for task implementation. The strategy must demonstrate how specific high priority storm water quality issues in the community or local pollutants of concern are addressed.
 - (b) Implement surveys at least twice during the permit term to gauge the level of awareness in target audiences and effectiveness of education tasks.
 - (c) Develop and convey a specific storm water message that focuses on the following:
 - 1) Local pollutants of concern
 - 2) Target audience
 - 3) Regional water quality issues
 - (d) Develop and disseminate appropriate educational materials to target audiences and translate into applicable languages when appropriate (e.g. the materials can utilize various media such as printed materials, billboard and mass transit advertisements, signage at select locations, stenciling at storm drain inlets, radio advertisements, television advertisements, and websites);
 - (e) Utilize public input (e.g., the opportunity for public comment, or public meetings) in the development of the program;
 - (f) Distribute the educational materials, using whichever methods and procedures determined appropriate during development of the public education strategy;
 - (g) Convey messages to explain the benefits of water-efficient and storm water-friendly landscaping¹⁰, using existing information if available;
 - (h) Develop and convey messages specific to reducing illicit discharges with information about how the public can report incidents to the appropriate authorities. The Permittee must promote, publicize, and facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from MS4s through a central contact point, including phone numbers for complaints and spill reporting, and publicize to both internal Permittee staff and the public. If 911 is selected, the Permittee must also create, maintain, and publicize a staffed, nonemergency phone number with voicemail, which is checked daily;
 - (i) Develop and convey messages specific to proper application of pesticides, herbicides, and fertilizers;
 - (j) Within the Permittee's jurisdiction, provide independent, parochial, and public schools with materials to effectively educate school –age children about storm water runoff and how they can help protect water quality habitat in their local watershed (s). The Permittee is encouraged to use environmental and place-based, experiential learning materials that are integrated into school curricula and school facility management¹¹. In the case that an environmental and place-

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¹⁰ For example, Surfrider's Ocean Friendly Garden Program (http://www.surfrider.org/programs/entry/ocean-friendly-gardens) and the Water Efficient Landscape Ordinance (WELO)

¹¹ For example, Splash (www.sacsplash.org/),Effie Yeaw Nature Center (www.sacnature.net) or Yolo Basin (www.yolobasin.org)

- based, experiential learning local program does not exist, the Permittee may use California's Education and Environment Initiative Curriculum¹² or equivalent.
- (k) Develop (or coordinate with existing, effective programs) and convey messages specific to reducing discharges from organized car washes, mobile cleaning and pressure washing operations, and landscape irrigation.
- (I) Conduct storm water-friendly education for organized car wash participants and provide information pertaining to car wash discharge reduction. The Permittee may use the Sacramento Stormwater Quality Partnership's River Friendly Carwash Program¹³, or equivalent, for guidance.
- (m) Develop and convey messages specific to mobile cleaning and pressure wash businesses.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.7.b. Staff and Site Operator Training and Education

E.7.b.1. Illicit Discharge Detection and Elimination Training

- (i) Task Description Within the third year of the effective date of the permit, the Permittee shall develop and implement a training program for all Permittee staff who, as part of their normal job responsibilities, may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection to the storm drain system.
- (ii) **Implementation Level** The training program shall include at a minimum:
 - (a) Identification of an illicit discharge or illegal connection.
 - (b) Proper procedures for reporting and responding to the illicit discharge or illegal connection.
 - (c) Follow-up training shall be provided as needed to address changes in procedures, techniques, or staffing.
 - (d) An annual assessment of their trained staff's knowledge of illicit discharge response and refresher training as needed.
 - (e) Training for new staff who, as part of their normal job responsibilities may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection shall be trained no later than six months after the start of employment.
 - (f) Contact information, including the procedure for reporting an illicit discharge, shall be included in each of the Permittee's fleet vehicles that are used by field staff.
 - (g) Focused education on identified illicit discharges and associated illicit discharge locations.

¹² http://www.californiaeei.org/

http://www.beriverfriendly.net/riverfriendlycarwashing/

(iii) Reporting – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.7.b.2. Construction Outreach and Education

(a) Permittee Staff Training

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall ensure that all staff implementing the construction site storm water runoff control program are adequately trained.
- (ii) **Implementation Level** The Permittee may conduct in-house training or contract with consultants. Training shall be provided to the following staff positions of the MS4:
 - (a) Plan Reviewers and Permitting Staff The Permittee shall ensure plan reviewers and permitting staff are qualified individuals, knowledgeable in the technical review of local erosion and sediment control plans, (including proper control measure selection, installation, implementation, and maintenance, as well as administrative requirements such as inspection reporting/tracking and the use of the Permittee's enforcement responses), and are certified pursuant to a State Water Board sponsored program as a Qualified Storm Water Pollution Prevention Plan (SWPPP) Developer (QSD), or a designated person on staff possesses the QSD credential.
 - (b) Erosion Sediment Control/Storm Water Inspectors The Permittee shall ensure inspectors are qualified individuals, knowledgeable in inspection procedures, and are certified pursuant to a State Water Board sponsored program as either (1) a Qualified SWPPP Developer (QSD); (2) a Qualified SWPPP Practitioner (QSP); or (3) a designated person on staff possesses each credential (QSD to supervise plan review, QSP to supervise inspection operations).
 - (c) Third-Party Plan Reviewers, Permitting Staff, and Inspectors If the Permittee utilizes outside parties to review plans and/or conduct inspections, the Permittee shall ensure these staff are trained.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

(b) Construction Site Operator Education

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall develop and distribute educational materials to construction site operators.
- (ii) **Implementation Level** The Permittee shall do the following:
 - (a) Each year, provide information on training opportunities for construction operators on BMP selection, installation, implementation, and maintenance as well as overall program compliance.
 - (b) Develop or utilize existing outreach tools (i.e. brochures, posters, etc.) aimed at educating construction operators on appropriate selection, installation, implementation, and maintenance of storm water BMPs, as well as overall program compliance.
 - (c) Distribute appropriate outreach materials to all construction operators who will be disturbing land within the MS4 boundary. The Permittee's contact information and website shall be included in these materials.
 - (d) Update the existing storm water website, as necessary, to include information on appropriate selection, installation, implementation, and maintenance of BMPs.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.7.b.3. Pollution Prevention and Good Housekeeping Staff Training

The Permittee shall train employees on how to incorporate pollution prevention/good housekeeping techniques into Permittee operations.

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall develop a biennial employee training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices as specified in Section E.11. Pollution Prevention/Good Housekeeping for Permittee Operations of this Order. The Permittee shall determine the need for interim training during alternate years when training is not conducted, through an evaluation of employee Pollution Prevention/Good Housekeeping knowledge. All new hires whose jobs include implementation of pollution prevention and good housekeeping practices must receive this training within the first year of their hire date.
- (ii) **Implementation Level** The training program shall include the following:
 - (a) Biennial training for all employees implementing this program element. This biennual training shall include a general storm water education component, any new technologies, operations, or responsibilities that arise during the year, and the permit requirements that apply to the staff being trained. Employees shall

- receive clear guidance on appropriate storm water BMPs to use at municipal facilities and during typical O&M activities.
- (b) A biennual assessment of trained staff's knowledge of pollution prevention and good housekeeping and shall revise the training as needed.
- (c) A requirement that any contractors hired by the Permittee to perform O&M activities shall be contractually required to comply with all of the storm water BMPs, good housekeeping practices, and standard operating procedures described above.
- (d) The Permittee shall provide oversight of contractor activities to ensure that contractors are using appropriate BMPs, good housekeeping practices and following standard operating procedures.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.8. PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall involve the public in the development and implementation of activities related to the program. The public participation and involvement program shall encourage volunteerism, public comment and input on policy, and activism in the community. The Permittee shall also be involved in their Integrated Regional Water Management Plan (IRWMP) or other watershed-level planning effort, if applicable.
- (ii) Implementation Level At a minimum, the Permittee shall:
 - (a) Develop a public involvement and participation strategy that establishes who is responsible for specific tasks and goals.
 - (b) Consider development of a citizen advisory group (either a stand-alone group or utilize an existing group or process). The advisory group may consist of a balanced representation of all affected parties, including residents, business owners, and environmental organizations in the MS4 service area and/or affected watershed. The Permittee may invite the citizen advisory group to participate in the development and implementation of all parts of the community's storm water program.
 - (c) Create opportunities for citizens to participate in the implementation of BMPs through sponsoring activities (e.g., stream/beach/lake clean-ups, storm drain stenciling, volunteer monitoring and educational activities).
 - (d) Ensure the public can easily find information about the Permittee's storm water program.
 - (e) Actively engage in the Permittee's IRWMP or other watershed-level planning effort.

(iii) Reporting – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and longterm effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.9. ILLICIT DISCHARGE DETECTION AND ELIMINATION

The Permittee shall develop an Illicit Discharge Detection and Elimination program to detect, investigate, and eliminate illicit discharges, including illegal dumping, into its system, to the extent allowable under law. ¹⁴ The Permittee may utilize the CWP's guide on Illicit Discharge Detection and Elimination as guidance.

E.9.a. Outfall Mapping

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall create and maintain an up-to-date and accurate outfall map ¹⁵. The map may be in hard copy and/or electronic form or within a geographic information system (GIS) the development of the outfall map shall include a visual outfall inventory involving a site visit to each outfall. Renewal Permittees that have an existing up-to-date outfall map that includes the minimum requirements specified in Section E.9.a.(ii)(a-e) are not required to re-create the outfall map. This does not exempt Renewal Permittees with an existing outfall map from conducting the field sampling specified in Section E.9.c.
- (ii) **Implementation Level** The outfall map shall at a minimum show:
 - (a) The location of all outfalls¹⁶ that are operated by the Permittee within the urbanized area, drainage areas, and land use(s) contributing to those outfalls that are operated by the Permittee, and that discharge within the Permittee's jurisdiction to a receiving water. Each mapped outfall shall be located using coordinates obtained from a global positioning system (GPS) and given an individual alphanumeric identifier, which shall be noted on the map. Photographs or an electronic database shall be utilized to provide baseline information and track operation and maintenance needs over time.
 - (b) The location (and name, where known to the Permittee) of all water bodies receiving direct discharges from those outfall pipes.
 - (c) Priority areas, including, but not limited to the following:

¹⁴ The Permittee shall use the Center for Watershed Protection's guide on Illicit Discharge Detection and Elimination (IDDE): A Guidance Manual for Program Development and Technical Assistance (available at www.cwp.org) or equivalent when developing an IDDE program. Guidance can also be found at: http://cfpub.epa.gov/npdes/stormwater/idde.cfm.
¹⁵ The Permittee may utilize existing forms such as the CWP Outfall Reconnaissance Inventory/Sample Collection Field Sheet while

¹⁵ The Permittee may utilize existing forms such as the CWP Outfall Reconnaissance Inventory/Sample Collection Field Sheet while conducting the mapping inventory and Field Sampling as specified below, in Section F.9.c. (http://cfpub.epa.gov/npdes/stormwater/idde.cfm)

E.9.c.(http://cfpub.epa.gov/npdes/stormwater/idde.cfm).

16 Submerged outfalls or other outfalls that may pose a threat to public safety and/or that are inaccessible are not required to be inventoried.

- 1) Areas with older infrastructure that are more likely to have illegal connections and a history of sewer overflows or cross-connections
- 2) Industrial, commercial, or mixed use areas;
- 3) Areas with a history of past illicit discharges;
- Areas with a history of illegal dumping;
- 5) Areas with onsite sewage disposal systems;
- 6) Areas upstream of sensitive water bodies;
- 7) Areas that drain to outfalls greater than 36 inches that directly discharge to the ocean; and
- 8) Other areas that are likely to have illicit discharges

The priority area list shall be updated annually.

- (d) Field sampling stations
- (e) The permit boundary

Submerged outfalls or other outfalls that may pose a threat to public safety and/or that are inaccessible are not required to be inventoried.

(iii) **Reporting** – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.9.b. Illicit Discharge Source/Facility Inventory

- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall maintain an inventory of all industrial/commercial facilities/sources within the Permittee's jurisdiction (regardless of ownership) that could discharge pollutants in storm water to the MS4. The Permittee shall utilize the inventory to identify facilities for inspections of potential illicit discharges.
- (ii) **Implementation Level** The inventory shall include the following:
 - (a) Minimum information for each industrial facility/source:
 - · Facility name;
 - Address;
 - Nature of business or activity;
 - Physical location (decimal latitude-longitude) of storm drain receiving discharge;
 - Name of receiving water and if the facility/source is tributary to a Clean Water Act Section 303(d) listed water body segment or water body segment subject to a TMDL;
 - Incorporation of facility information into GIS is optional.

- (b) At a minimum, the following industrial and commercial facilities/sources shall be included in the inventory.
 - Vehicle salvage yards
 - Metal and other recycled materials collection facilities
 - Waste transfer facilities
 - Vehicle mechanical repair, maintenance or cleaning
 - Building trade central facilities or yards
 - Corporation yards
 - Landscape nurseries and greenhouses
 - Building material retailers and storage
 - Plastic manufacturers
 - Other facilities designated by the Permittees or Regional Water Boards to have reasonable potential to contribute to pollution of storm water runoff
- (c) The Permittee shall determine if the facilities that are required to be covered under the Statewide Industrial General Permit have done so. Upon discovering any facilities requiring permit coverage but are not yet permitted, the Permittee shall notify the appropriate Regional Water Board, and include copies of the notification in the online Annual Report.
- (d) The Permittee shall update the inventory annually. The update shall be accomplished through collection of new information obtained during inspections and contacts with commercial and industrial facility operators and owners, or through other readily available intra-agency informational databases (e.g., business licenses, pretreatment permits, sanitary sewer hook-up permits, and SMARTS database.
- (e) The Permittee shall develop and implement procedures to proactively identify illicit discharges originating from priority areas identified in Section E.9.a.(ii).(c). The Permittee shall implement the procedures to assess priority areas for the presence of illicit discharges at least once over the length of the permit term. The procedures shall include field observations, field screening, inspections, and any other appropriate and effective survey methods. Alternatively, Permittees may establish a self--certification program where Permittees require reports from authorized parties demonstrating the prevention and elimination of illicit discharges at their facilities in priority areas at least once over the length of the permit term.
- (iii) **Reporting –** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.9.c. Field Sampling to Detect Illicit Discharges

(i) **Task Description** – Within the second year of the effective date of the permit (e.g. while conducting the outfall inventory under Section E.9.a.), the Permittee shall sample

any outfalls that are flowing or ponding more than 72 hours after the last rain event. The Permittee shall also conduct dry weather sampling (more than 72 hours since the last rain event) of outfalls annually identified as priority areas.

(ii) **Implementation Level** – The Permittee shall:

(a) Conduct monitoring¹⁷ for the following indicator parameters identified in Table 1 to help determine the source of the discharge. Alternatively, the Permittee may select parameters based on local knowledge of pollutants of concern in lieu of sampling for the parameters listed in Table 1. Modifications and associated justifications shall be identified within SMARTS prior to conducting field sampling as specified in Section E.9.c.(i).

Table 1. Indicator Parameters

Indicator Parameters Used to Detect Illicit Discharges							
Parameter		Discharge Typ	oes It Cai				
	Sewage	Washwater	Tap Water	Industrial or Commercial Liquid Wastes	Laboratory/Analytical Challenges		
Ammonia	•	•	0	•	Can change into other nitrogen forms as the flow travels to the outfall		
Color	•	•	0	0			
Conductivity	•	•	0	•	Ineffective in saline waters		
Detergents – Surfactants	•	•	0	0	Reagent is a hazardous waste		
Fluoride*	0	0	•	•	Reagent is a hazardous waste Exception for communities that do not fluoridate their tap water		
Hardness	•	•	•	•			
рН	0	0	0	•			
Potassium	•	0	0	•	May need to use two separate analytical techniques, depending on the concentration		
Turbidity	•	•	0	•			

Can almost always (>80% of samples) distinguish this discharge from clean flow types (e.g., tap water or natural water). For
tap water, can distinguish from natural water.

Data sources: Pitt (

*Fluoride is a poor indicator when used as a single parameter, but when combined with additional parameters (such as detergents, ammonia and potassium), it can almost always distinguish between sewage and wash water.

Can sometimes (>50% of samples) distinguish this discharge from clean flow types depending on regional characteristics, or can be helpful in combination with another parameter

O Poor indicator. Cannot reliably detect illicit discharges, or cannot detect tap water

N/A: Data are not available to assess the utility of this parameter for this purpose.

¹⁷ A description of indicator parameter sampling equipment is described in Chapter 12: Indicator Monitoring in the CWP IDDE: Guidance Manual found at: http://www.epa.gov/npdes/pubs/idde_manualwithappendices.pdf. Sampling may be conducted using field test kits.

(b) Verify that indicator parameters, as specified in Table 2. Action Level Concentrations for Indicator Parameters are not exceeded. Alternatively, the Permittee may tailor Table 2 to align with parameters based on local knowledge of pollutants of concern. Modifications and associated justifications shall be identified within SMARTS prior to conducting field sampling as specified in Section E.9.c.(i).

Table 2. Action Level Concentrations for Indicator Parameters

Indicator Parameter	Action Level Concentration
Ammonia	>= 50 mg/L
Color	>= 500 units
Conductivity	>= 2,000 µS/cm
Hardness	<= 10 mg/L as CaCO3 or >= 2,000 mg/L as CaCO3
pН	<= 5 or >=9
Potassium	>= 20 mg/L
Turbidity	>= 1,000 NTU

- (c) Conduct follow up investigations per Section E.9.d. if the action level concentrations are exceeded.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.9.d. Illicit Discharge Detection and Elimination Source Investigations and Corrective Actions

- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall develop written procedures for conducting investigations into the source of all non-storm water discharges suspected to be illicit discharges, including approaches to requiring such discharges to be eliminated, and procedures to implement corrective actions (e.g., BMPs). These procedures shall be included as part of the Illicit Discharge Detection and Elimination program. The Permittee may leverage existing inspection procedures and personnel to conduct illicit discharge detection and elimination source investigations and corrective actions.
- (ii) Implementation Level At a minimum, the Permittee shall conduct an investigation(s) to identify and locate the source of any suspected illicit discharge within 72 hours of becoming aware of the suspected illicit discharge. For investigations that require more than 72 hours, the Permittee shall identify the actions being taken to identify and locate the source of the suspected illicit discharge.

- (a) Non-storm water discharges suspected of being sanitary sewage and/or significantly contaminated shall be investigated within 24 hours.
- (b) The Permittee shall prioritize investigations of suspected sanitary sewage and/or significantly contaminated discharges over investigations of non-storm water discharges suspected of being cooling water, wash water, or natural flows.
- (c) Report immediately the occurrence of any flows believed to be an immediate threat to human health or the environment to local Health Department.
- (d) Determine and document through its investigations the source of all non-storm water discharges. If the source of the non-storm water discharge is found to be a discharge authorized under this General Permit, or authorized under another NPDES permit, no further action is required.
- (e) Corrective Action to Eliminate Illicit Discharge Once the source of the illicit discharge has been determined, the Permittee shall immediately notify the responsible party of the problem, and require the responsible party to conduct all necessary corrective actions to eliminate the nonstorm water discharge within 72 hours of notification. Upon being notified that the discharge has been eliminated, conduct a follow-up investigation and field screening to verify that the discharge has been eliminated using BMPs or some other corrective action. The Permittee shall document its follow-up investigation. The Permittee may seek recovery and remediation costs from responsible parties or require compensation for the cost of field screening and investigations. Resulting enforcement actions shall follow the program's Enforcement Response Plan as specified in E.6.c.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.9.e. Spill Response Plan

- (i) **Task Description** Within the first year of the effective date of the permit, the Permittee shall develop and implement a spill response plan.
- (ii) **Implementation Level** At a minimum, the spill response plan will incorporate the information from Section E.9.c. and outline the following:
 - (a) Agency roles and responsibilities (e.g. County Department of Environmental Health, local police department, local fire department, etc.)
 - (b) The procedures for responding to complaints
 - (c) How investigations are to be conducted
 - (d) How clean up is initiated or conducted
 - (e) How reporting is completed and what information is required
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this

program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.10. CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM

The Permittee shall develop, implement, and enforce a program to prevent construction site discharges of pollutants and impacts on beneficial uses of receiving waters. The program shall include the development of an enforceable construction site storm water runoff control ordinance for all projects that disturb less than one acre of soil. The construction site storm water runoff control ordinance shall include, at a minimum, requirements for erosion and sediment controls, soil stabilization, dewatering, source controls, pollution prevention measures and prohibited discharges.

Projects that disturb one acre or more of soil or disturb less than one acre but are part of a larger common plan or development or sale are subject to the CGP in addition to the construction site storm water runoff control ordinance.

E.10.a. Construction Site Inventory

- (i) **Task Description -** Within the first year of the effective date of the permit, the Permittee shall maintain an inventory of all projects subject to the local construction site storm water runoff control ordinance within its jurisdiction.
- (ii) Implementation Level –The Permittee shall maintain an inventory of all construction projects and continuously update as new projects are permitted and projects are completed. The inventory shall address all projects subject to the local construction site storm water runoff control ordinance. For projects subject to the CGP the Permittee may obtain the inventory from the SMARTS database and shall supplement as needed by the Permittee.

The inventory shall contain, at a minimum:

- (a) Relevant contact information for each project (e.g., name, address, phone, email, etc. for the owner and contractor);
- (b) The basic site information including location, status, size of the project and area of disturbance;
- (c) The location of the project with respect to all waterbodies, waterbodies listed as impaired by sediment-related pollutants, and waterbodies listed as impaired for sediment or turbidity under the CWA Section 303(d) and approved by U.S. EPA;
- (d) Project threat to water quality;
- (e) Current construction phase;
- (f) The required inspection frequency per the local construction site storm water runoff control ordinance;
- (g) The project start and anticipated completion dates; and
- (h) The date the Permittee approved the erosion and sediment control plan in accordance with this Section.

(iii) **Reporting** – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.10.b. Construction Plan Review and Approval Procedures

- (i) Task Description Within the first year of the effective date of the permit, the Permittee shall develop procedures to review and approve relevant construction plan documents.
- (ii) **Implementation Level** The review procedures shall meet the following minimum requirements:
 - (a) Prior to issuing a grading or building permit, the Permittee shall require each operator of a construction activity within its jurisdiction to prepare and submit an erosion and sediment control plan for the Permittee's review and written approval. The Permittee shall not approve any erosion and sediment control plan unless it contains appropriate site-specific construction site BMPs that meet the minimum requirements of the Permittee's construction site storm water runoff control ordinance. If the erosion and sediment control plan is revised, the Permittee shall review and approve those revisions.
 - (b) Require that the erosion and sediment control plan include the rationale used for selecting BMPs including supporting soil loss calculations, if necessary.
 - (c) Require that the erosion and sediment control plan list applicable permits directly associated with the grading activity, including, but not limited to the State Water Board's CGP, State Water Board 401 Water Quality Certification, U.S. Army Corps 404 permit, and California Department of Fish and Game 1600 Agreement. Include as a condition of the grading permit that the operator submit evidence to the MS4 that all permits directly associated with the grading activity have been obtained prior to commencing the soil disturbing activities authorized by the grading permit.
 - (d) Conduct and document review of each erosion and sediment control plan using a checklist or similar process.
 - (e) The SWPPP developed pursuant to the CGP may substitute for the erosion and sediment control plan for projects where a SWPPP is developed. The Permittee is responsible for reviewing applicable portions of the SWPPP for compliance with the Permittee's construction site storm water runoff control ordinance and this Order.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.10.c. Construction Site Inspection and Enforcement

- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall use legal authority to implement procedures for inspecting public and private construction projects and conduct enforcement if necessary. The Permittee may leverage existing inspection procedures and personnel to conduct construction site inspections and enforcement.
- (ii) Implementation Level The inspection procedures shall be implemented to verify compliance with the Permittee's construction site storm water control ordinance. At a minimum, inspections must be conducted at priority construction sites (defined below) prior to land disturbance (during the rainy season), during active construction and following active construction. Construction site inspections shall include assessment of compliance with the Permittee's construction site storm water runoff control ordinance, and other applicable ordinances. A Permittee may propose, for Regional Water Board Executive Officer approval, an alternative approach for construction site oversight, provided the Permittee demonstrates the approach will be equally effective at reducing the discharge of pollutants from construction sites to the maximum extent practicable.

Prior to allowing an operator to commence land disturbance during the rainy season, the Permittee must perform an inspection, to ensure all necessary sediment controls are in place. During active construction, the Permittee shall conduct inspections, based on prioritization of construction sites. Active construction inspections shall include at a minimum: inspection of maintenance of BMPs, effectiveness of BMPs installed and verification that pollutants of concern are not discharged into receiving water bodies.

Prioritization criteria shall be based on project threat to water quality. Project threat to water quality includes soil erosion potential, site slope, projects size and type, sensitivity of receiving water bodies, proximity to receiving water bodies, non-storm water discharges, projects more than one acre that are not subject to the CGP (sites that have obtained an Erosivity Waiver) and past record of non-compliance by the operator of the construction site. Inspection frequencies shall be conducted based on the prioritization criteria described above.

At the conclusion of the project, the Permittee must inspect to ensure that all disturbed areas have been stabilized and that all temporary erosion and sediment control measures that are no longer needed have been removed as required by the local construction site storm water control ordinance.

(iii) **Reporting –** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR PERMITTEE OPERATIONS PROGRAM

The Permittee shall develop and implement a program to prevent or reduce the amount of pollutant runoff from Permittee operations. The Permittee shall implement appropriate BMPs for preventing or reducing the amount of storm water pollution generated by Permittee operations.

E.11.a. Inventory of Permittee-Owned and Operated Facilities

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall develop and maintain an inventory of Permittee-owned or operated facilities within their jurisdiction that are a threat to water quality, if applicable.
- (ii) **Implementation Level** The inventory shall include all Permittee-owned or operated facilities within their jurisdiction that are potential significant sources of pollution in storm water, including the following if applicable:
 - Airports
 - Animal control facilities
 - Chemical storage facilities
 - Composting facilities
 - Equipment storage and maintenance facilities (including landscape-related operations)
 - Fuel farms
 - Hazardous waste disposal facilities
 - Hazardous waste handling and transfer facilities
 - Incinerators
 - Landfills
 - Materials storage yards
 - Pesticide storage facilities
 - Public buildings, including schools, libraries, police stations, fire stations, Permittee (municipal) buildings, restrooms, and similar buildings (i.e., buildings with a similar potential to be sources of storm water pollution as the examples provided)
 - Public parking lots
 - Public golf courses
 - Public swimming pools
 - Public parks
 - Public works yards
 - Public marinas
 - Recycling facilities
 - Salt or de-icing storage facilities
 - Solid waste handling and transfer facilities
 - Transportation hubs (e.g. bus transfer stations)
 - Vehicle storage and maintenance areas
 - Vehicle fueling facilities
 - Other (as directed by appropriate Regional Water Board)

(iii) **Reporting** – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.b. Map of Permittee-Owned or Operated Facilities

- (i) **Task Description –** Within the second year of the effective date of the permit, submit a map of the area within the permit boundary and identify where the inventoried Permittee-owned or operated facilities are located.
- (ii) Implementation Level The map identifying the location of the inventoried Permittee-owned or operated facilities shall identify the storm water drainage system (e.g., storm water outfalls or other mechanisms in which storm water leaves the site) corresponding to each of the facilities as well as the receiving waters to which these facilities discharge. The map shall also show the facility and the manager of each facility, including contact information.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.c. Facility Assessment

- (i) Task Description Within the third year of the effective date of the permit, for all the inventoried Permittee-owned or operated facilities, the Permittee shall conduct a comprehensive inspection and assessment of pollutant discharge potential and identification of pollutant hotspots using the Center for Watershed Protection's (CWP) guide on Urban Subwatershed and Site Reconnaissance, or equivalent.¹⁸
- (ii) **Implementation Levels** Conduct an annual review and assessment of all municipally owned or operated facilities to determine their potential to impact surface waters. The assessment shall include the following:
 - (a) Identification of pollutant hotspots:

Based on the annual assessment, the Permittee shall identify those facilities that have a high potential to generate storm water and non-storm water pollutants as pollutant hotspots and assign them a high priority. Among the factors to be considered are the type and volume of pollutants stored at the site, the presence of improperly stored materials,

¹⁸ The Permittee shall use the Center for Watershed Protection's Restoration Manual Series guide on Urban Subwatershed and Site Reconnaissance: a User's Manual (available as a free download at www.cwp.org) or equivalent when identifying priority areas. Hotspots are specific operations in a subwatershed that may generate high storm water pollution.

activities that should not be performed outside (e.g., changing automotive fluids, vehicle washing), proximity to water bodies, poor housekeeping practices, and the discharge of pollutant(s) of concern to receiving water(s). Pollutant hotspots shall include, at a minimum, the Permittee's maintenance yards, hazardous waste facilities, fuel storage and/or dispensing locations, airports marinas, and any other facilities at which chemicals or other materials have a high potential to be discharged in storm water.

(b) Documentation of the comprehensive assessment procedures and results:

The Permittee shall document the procedures it uses for conducting the comprehensive assessment along with a copy of any site evaluation checklists used to conduct the comprehensive assessment.

(iii) Reporting – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.d. Storm Water Pollution Prevention Plans

- (i) **Task Description** Within the fourth year of the effective date of the permit, the Permittee shall develop and implement SWPPPs for pollutant hotspots. If a Permittee has an existing document such as Hazardous Materials Business Plan, Spill Prevention Plan, or other equivalent document the Permittee is not required to develop a SWPPP.
- (ii) **Implementation Level** The Permittee shall implement the following:
 - (a) The Permittee shall develop and implement a site-specific SWPPP that identifies existing storm water BMPs and a set of storm water BMPs to be installed, implemented, and maintained to minimize the discharge of pollutants to protect water quality. The Permittee may utilize the CWP guide on Urban Subwatershed and Site Reconnaissance, or equivalent, as guidance.
 - (b) The SWPPP(s) shall be kept on-site at each of the Permittee-owned or operated facilities' offices for which it was completed. The SWPPP shall be updated as necessary.
 - (c) At a minimum the SWPPP will address the following:
 - 1) Facility specific information (location, owner, address, etc.)
 - 2) Purpose of the document
 - 3) Key staff/contacts at the facility
 - 4) Site map with drainage identified

- 5) Identification of significant materials that are handled and stored at the facility that may be exposed to storm water
- 6) Description of potential pollutant sources
- 7) Facility BMPs
- 8) Spill control and cleanup response to spills
- 9) Inspection schedule
- 10) Inspection procedures and checklist for inspections conducted to ensure proper selection, implementation, and maintenance of all BMPs
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.e. Inspections, Visual Monitoring and Remedial Action

- (i) **Task Description** Within the fifth year of the effective date of the Permit, the Permittee shall conduct regular inspections of Permittee-owned and operated facilities.
- (ii) Implementation Level Inspections shall be conducted as follows:
 - (a) Quarterly visual hotspot inspections Perform quarterly visual inspections, in accordance with the inspection procedures and inspection checklist developed for each Permittee-owned or operated hotspot, to ensure materials and equipment are clean and orderly; to minimize the potential for pollutant discharge; and to ensure effective selection, implementation, and maintenance of BMPs. The Permittee shall look for evidence of spills and immediately clean them up to prevent contact with precipitation or runoff. The quarterly inspections shall be tracked in a log for every facility, and records kept with the SWPPP (records may be kept electronically). The inspection report shall also include any identified deficiencies and the corrective actions taken to correct the deficiencies.
 - (b) Annual Hotspot comprehensive inspections At least once per year, the Permittee shall conduct a comprehensive inspection of each hotspot facility, including all storm water BMPs, in accordance with the facility-specific inspection procedures and inspection checklist. The Permittee shall pay specific attention, without limiting its attention, to: waste storage areas, dumpsters, vehicle and equipment maintenance/fueling areas, material handling areas, and similar potential pollutant-generating areas. The annual inspection results shall be documented and records kept with the SWPPP. The inspection report shall also include any identified deficiencies and the corrective actions taken to correct deficiencies.
 - (c) Quarterly Hotspot visual observation of storm water and non-storm water discharges At least once per quarter visually observe discharge locations from hotspot facilities. Where discharges are observed identify any observed

problems (e.g., color, foam, sheen, turbidity) associated with pollutant sources or BMPs shall be remedied as soon as practicable or before the next storm event, whichever is sooner. Visual observations shall be documented, and records kept with the SWPPP. This inspection shall be done in accordance with the developed standard operating procedures. The inspection report shall also include any identified deficiencies and the corrective actions taken to correct the deficiencies.

- (d) Non-Hotspot Inspection At a minimum, inspect each inventoried municipal facility that is not a hotspot, once per permit term.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.f. Storm Drain System Assessment and Prioritization

(i) Task Description – Within the second year of the effective date of the permit, the Permittee shall develop and implement procedures to assess and prioritize MS4 storm drain system maintenance, including but not limited to, catch basins, pipe and pump infrastructure, above-ground conveyances, including receiving water bodies within the Permittee's urbanized area and detention basins.

If flood conveyance maintenance is undertaken by another entity, the Permittee shall coordinate with the flood conveyance management entity by year three to assess and prioritize maintenance of the MS4 storm drain system.

(ii) Implementation Level – The Permittee shall:

Assess/prioritize storm drain system facilities for cleanout – Assign a priority to MS4 storm drain facilities within the Permittee's urbanized areas based on accumulation of sediment, trash and/or debris. In particular, assign high priority to catch basin meeting any of the following criteria:

- 1) Catch basins known to accumulate a significant amount of sediment, trash, and/or debris;
- Catch basins collecting large volumes of runoff;
- 3) Catch basin collecting runoff from area that do not receive regular sweet sweeping;
- Catch basins collecting runoff from drainage areas with exposed or disturbed soil; or
- 5) Catch basins that receive citizen complaints/reports.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment

and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.g. Maintenance of Storm Drain System

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall begin maintenance of all high priority storm drain systems on an ongoing schedule.
- (ii) **Implementation Level** The Permittee shall begin maintenance of storm drain systems according to the procedures and priorities developed according to this Section. At a minimum the Permittee shall:
 - (a) Inspect storm drain systems Based on the priorities assigned above in Section E.11.f.(ii)(a), develop and implement a strategy to inspect storm drain systems within the Permittee's jurisdiction. At a minimum, inspect all high priority catch basins and systems annually.
 - (b) Clean storm drains Develop and implement a schedule to clean high priority catch basins and other systems. Cleaning frequencies shall be based on priority areas, with higher priority areas receiving more frequent maintenance.
 - (c) Labeling catch basins Ensure that each catch basin in high foot traffic areas includes a legible storm water awareness message (e.g., a label, stencil, marker, or pre-cast message such as "drains to the creek" or "only rain in the drain"). Catch basins with illegible or missing labels shall be recorded and relabeled within one month of inspection.
 - (d) Maintain surface drainage structures High priority facilities, such as those with recurrent illegal dumping, shall be reviewed and maintained annually as needed. Non-priority facilities shall be reviewed as needed. Removal of trash and debris from high priority areas shall occur annually prior to the rainy season.
 - (e) Dispose of waste materials Develop and implement a procedure to dewater and dispose of materials extracted from catch basins. This procedure shall ensure that water removed during the catch basin cleaning process and waste material will not reenter the MS4.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.h. Permittee Operations and Maintenance Activities (O&M)

- (i) **Task Description –** Within the third year of the effective date of the permit, the Permittee shall assess their O&M activities for potential to discharge pollutants in storm water and inspect all O&M BMPs on a quarterly basis.
- (ii) Implementation Level The Permittee shall:

- (a) Develop and implement a program to assess O&M activities and subsequently develop applicable BMPs. The following Permittee O&M activities shall be included in the assessment for their potential to discharge pollutants in storm water:
 - 1) Road and parking lot maintenance, including sidewalk repair, curb and gutter repair, pothole repair, pavement marking, sealing, and re-paving
 - 2) Bridge maintenance, including re-chipping, grinding, saw cutting, and painting
 - 3) Cold weather operations, including plowing, sanding, and application of deicing compounds and maintenance of snow disposal areas
 - 4) Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation
 - 5) Storm water relevant Permittee-sponsored or sanctioned events such as large outdoor festivals, parades, or street fairs (eg. Earth Day, Coastal Cleanup Day, Creek Week)
 - 6) Green waste deposited in the street
 - 7) Graffiti removal
 - 8) Hydrant flushing
- (b) Identify all materials that could be discharged from each of these O&M activities, and which materials contain pollutants. Typical pollutants associated with these activities include metals, chlorides, hydrocarbons (e.g. benzene, toluene, ethylbenzene, and xylene), sediment, green waste, herbicide, pesticide, dried paint, and trash.
- (c) Develop and implement a set of BMPs that, when applied during Permittee O&M activities, will reduce pollutants in storm water and non-storm water discharges. The Permittee shall use the CASQA Municipal Handbook or equivalent.
- (d) Evaluate BMPs All BMPs implemented during O&M activities shall be evaluated quarterly.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.i. Incorporation of Water Quality and Habitat Enhancement Features in New Flood Management Facilities

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall develop and implement a process for incorporating water quality and habitat enhancement features into new and rehabilitated flood management facilities.
- (ii) **Implementation Level** The Permittee shall develop and implement a process to incorporate water quality and habitat enhancement features in the design of all new

- and rehabilitated flood management projects that are associated with the MS4 or that discharge to the MS4.
- (iii) **Reporting –** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.11.j. Landscape Design and Maintenance

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall implement a landscape design and maintenance program to reduce the amount of water, pesticides, herbicides and fertilizers used during Permittee operations and activities¹⁹.
- (ii) Implementation Tasks At a minimum, the Permittee shall:
 - (a) Evaluate pesticides, herbicides and fertilizers used and application activities performed and identify pollution prevention and source control opportunities.
 - (b) Implement practices that reduce the discharge of pesticides, herbicides and fertilizers. At a minimum the Permittee shall:
 - 1) Implement educational activities for municipal applicators and distributors.
 - 2) Implement landscape management measures that rely on non-chemical solutions, including:
 - a) Create drought-resistant soils by amending soils with compost;
 - b) Create soil microbial community through the use of compost, compost tea, or inoculation;
 - c) Use native and/or climate appropriate plants to reduce the amount of water, pesticides, herbicides and fertilizers used;
 - d) Practice grasscycling on decorative turf landscapes to reduce water use and the need for fertilizers;
 - e) Keeping grass clippings and leaves away from waterways and out of the street using mulching, composting, or landfilling;
 - f) Preventing application of pesticides, herbicides and fertilizers during irrigation or within 48 hours of predicted rainfall with greater than 50% probability as predicted by National Oceanic and Atmospheric Administration (NOAA)²⁰;
 - g) Limiting or replacing herbicide and pesticide use (e.g., conducting manual weed and insect removal);
 - Prohibiting application of pesticides, herbicides and fertilizers as required by the regulations DPR 11-004 Prevention of Surface Water Contamination by Pesticides enacted by the Department of Pesticide Regulation;

¹⁹ Water Efficient Landscape Ordinance can be found at: http://www.water.ca.gov/wateruseefficiency/docs/MWELO09-10-09.pdf www.srh.noaa.gov/forecast

- i) Reducing mowing of grass to allow for greater pollutant removal, but not jeopardizing public safety.
- 3) Collect and properly dispose of unused pesticides, herbicides, and fertilizers.
- 4) Minimize irrigation run-off by using an evapotranspiration-based irrigation schedule and rain sensors.
- (c) Record the types and amounts of pesticides, herbicides and fertilizers used in the permit area.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12. POST CONSTRUCTION STORM WATER MANAGEMENT PROGRAM

E.12.a. Post-Construction Measures

Permittees shall regulate development to comply with the following Sections:

- E.12.b Site Design Measures
- E.12.c. Regulated Projects
- E.12.d. Source Control Measures
- E.12.e. Low Impact Development (LID) Design Standards
- E.12.f. Hydromodification Measures
- E.12.g. Enforceable Mechanisms
- E.12.h. Operation and Maintenance of Storm Water Control Measures
- E.12.i. Post-Construction Best Management Practice Condition Assessment
- E.12.j. Planning and Development Review Process
- E.12.k. Post-Construction Storm Water Management Requirements Based on Assessment and Maintenance of Watershed Processes
- E.12.I. Alternative Post-Construction Storm Water Management Program

E.12.b. Site Design Measures

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall require implementation of site design measures for all projects that create and/or replace (including projects with no net increase in impervious footprint) between 2,500 square feet and 5,000 square feet of impervious surface, including detached single family homes that create and/or replace 2,500 square feet or more of impervious surface and are not part of a larger plan of development. Site design measures as specified in this section are not applicable to linear underground/overhead projects (LUPs).
- (ii) **Implementation Level** Projects shall implement one or more of the following site design measures to reduce project site runoff:

- (a) Stream Setbacks and Buffers a vegetated area including trees, shrubs, and herbaceous vegetation, that exists or is established to protect a stream system, lake reservoir, or coastal estuarine area;
- (b) Soil Quality Improvement and Maintenance improvement and maintenance soil through soil amendments and creation of microbial community;
- (c) Tree Planting and Preservation planting and preservation of healthy, established trees that include both evergreens and deciduous, as applicable;
- (d) Rooftop and Impervious Area Disconnection rerouting of rooftop drainage pipes to drain rainwater to rain barrels, cisterns, or permeable areas instead of the storm sewer:
- (e) Porous Pavement pavement that allows runoff to pass through it, thereby reducing the runoff from a site and surrounding areas and filtering pollutants;
- (f) Green Roofs a vegetative layer grown on a roof (rooftop garden);
- (g) Vegetated Swales a vegetated, open-channel management practice designed specifically to treat and attenuate storm water runoff;
- (h) Rain Barrels and Cisterns system that collects and stores storm water runoff from a roof or other impervious surface.

Project proponents shall use the State Water Board SMARTS Post-Construction Calculator²¹, or equivalent to quantify the runoff reduction resulting from implementation of site design measures.

(iii) **Reporting** - The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12.c. Regulated Projects

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall implement standards to effectively reduce runoff and pollutants associated with runoff from Regulated Projects as defined below.
- (ii) Implementation Level The Permittee shall regulate all projects that create and/or replace 5,000 square feet or more of impervious surface (Regulated Projects). The Permittee shall require these Regulated Projects to implement measures for site design, source control, runoff reduction, storm water treatment and baseline hydromodification management as defined in this Order.

Regulated Projects do not include:

- Detached single family home projects that are not part of a larger plan of development;
- Interior remodels;

²¹ The State Water Board SMARTS Post-Construction Calculator can be found at: https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp

- Routine maintenance or repair such as: exterior wall surface replacement, pavement resurfacing within the existing footprint.
- LUPs Unless the LUP has a discrete location that has 5,000 square feet or more of newly constructed contiguous impervious surface. When the LUP has a discrete location that has 5,000 sq-ft or more of new contiguous impervious surface, only that specific discrete location is subject to Section E.12.c.

Regulated Projects include development projects. Development includes new and redevelopment projects on public or private land that fall under the planning and permitting authority of a Permittee. Redevelopment is any land-disturbing activity that results in the creation, addition, or replacement of exterior impervious surface area on a site on which some past development has occurred. Redevelopment does not include trenching, excavation and resurfacing associated with LUPs; pavement grinding and resurfacing of existing roadways; construction of new sidewalks, pedestrian ramps, or bike lanes on existing roadways; or routine replacement of damaged pavement such as pothole repair or replacement of short, non-contiguous sections of roadway. The following (a-c) describe specific Regulated Project requirements for redevelopment, road projects and LUPs:

- (a) Where a redevelopment project results in an increase of more than 50 percent of the impervious surface of a previously existing development, runoff from the entire project, consisting of all existing, new, and/or replaced impervious surfaces, must be included to the extent feasible.
- (b) Where a redevelopment project results in an increase of less than 50 percent of the impervious surface of a previously existing development, only runoff from the new and/or replaced impervious surface of the project must be included.
- (c) Road Projects and LUPs Any of the following types of road projects and LUPs that create 5,000 square feet or more of newly constructed contiguous impervious surface and that are public road projects and/or fall under the building and planning authority of a Permittee shall comply with Section E.12.e. Low Impact Development Standards except that treatment of runoff of the 85th percentile that cannot be infiltrated onsite shall follow U.S. EPA guidance regarding green infrastructure to the extent feasible. Types of projects include:
 - 1) Construction of new streets or roads, including sidewalks and bicycle lanes built as part of the new streets or roads.
 - 2) Widening of existing streets or roads with additional traffic lanes.
 - a) Where the addition of traffic lanes results in an alteration of more than 50 percent of the impervious surface of an existing street or road, runoff from the entire project, consisting of all existing, new, and/or replaced impervious surfaces, must be included in the treatment system design.
 - b) Where the addition of traffic lanes results in an alteration of less than 50 percent (but 5,000 square feet or more) of the impervious surface

of an existing street or road, only the runoff from new and/or replaced impervious surface of the project must be included in the treatment system design.

- 3) Construction of linear underground/overhead projects (LUPs)
- 4) Specific exclusions are:
 - a) Sidewalks built as part of new streets or roads and built to direct storm water runoff to adjacent vegetated areas.
 - b) Bicycle lanes that are built as part of new streets or roads that direct storm water runoff to adjacent vegetated areas.
 - c) Impervious trails built to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas, preferably away from creeks or towards the outboard side of levees.
 - d) Sidewalks, bicycle lanes, or trails constructed with permeable surfaces.
 - e) Trenching, excavation and resurfacing associated with LUPs; pavement grinding and resurfacing of existing roadways and parking lots; construction of new sidewalks, pedestrian ramps, or bike lanes on existing roadways; or routine replacement of damaged pavement such as pothole repair or replacement of short, non-contiguous sections of roadway.

Effective Date for Applicability of Low Impact Development Runoff Standards to Regulated Projects: By the second year of the effective date of the permit, the Permittee shall require these Post-Construction Standards be applied on applicable new and redevelopment Regulated Projects, both private development requiring municipal permits and public projects, to the extent allowable by applicable law. These include discretionary permit projects that have not been deemed complete for processing and discretionary permit projects without vesting tentative maps that have not requested and received an extension of previously granted approvals. Discretionary projects that have been deemed complete prior to the second year of the effective date of this Order are not subject to the Post-Construction Standards herein. For the Permittee's Regulated Projects, the effective date shall be the date their governing body or designee approves initiation of the project design.

Permittee's Development Projects - The Permittee shall develop and implement an equivalent approach, to the approach used for private development projects, to apply the most current version of the low impact development runoff standards to applicable public development projects, to the extent allowable by applicable law.

E.12.d. Source Control Measures

- (i) **Task Description** Regulated Projects with pollutant-generating activities and sources shall be required to implement standard permanent and/or operation source control measures as applicable.
- (ii) **Implementation Level** Measures for the following pollutant generating activities and sources shall be designed consistent with recommendations from the CASQA

Stormwater BMP Handbook for New Development and Redevelopment or equivalent manual, and include:

- (a) Accidental spills or leaks
- (b) Interior floor drains
- (c) Parking/storage areas and maintenance
- (d) Indoor and structural pest control
- (e) Landscape/outdoor pesticide use
- (f) Pools, spas, ponds, decorative fountains, and other water features
- (g) Restaurants, grocery stores, and other food service operations
- (h) Refuse areas
- (i) Industrial processes
- (j) Outdoor storage of equipment or materials
- (k) Vehicle and equipment cleaning
- (I) Vehicle and equipment repair and maintenance
- (m) Fuel dispensing areas
- (n) Loading docks
- (o) Fire sprinkler test water
- (p) Drain or wash water from boiler drain lines, condensate drain lines, rooftop equipment, drainage sumps, and other sources
- (q) Unauthorized non-storm water discharges
- (r) Building and grounds maintenance

E.12.e. Low Impact Development (LID) Design Standards

- (i) **Task Description –** The Permittee shall require all Regulated Projects to implement low impact development (LID) standards designed to reduce runoff, treat storm water, and provide baseline hydromodification management to the extent feasible, to meet the Numeric Sizing Criteria for Storm Water Retention and Treatment under Section E.12.e(ii)(c).
- (ii) **Implementation Level –** The Permittee shall adopt and implement requirements and standards to ensure design and construction of development projects achieve the following LID Design Standards.

(a) Site Assessment

At the earliest planning stages, the Permittee shall require Regulated Projects to assess and evaluate how site conditions, such as soils, vegetation, and flow paths, will influence the placement of buildings and paved surfaces. The evaluation will be used to meet the goals of capturing and treating runoff and assuring these goals are incorporated into the project design. The Permittee may adopt or reference an existing LID site assessment methodology²²Permittees shall require Regulated Projects to consider optimizing the site layout through the following methods:

1) Define the development envelope and protected areas, identifying areas that are most suitable for development and areas to be left undisturbed.

²² Low Impact Development Manual for Southern California (Low Impact Development Center – See CASQA's LID website at: http://www.casqa.org/LID/tabid/240/Default.aspx.

- 2) Concentrate development on portions of the site with less permeable soils and preserve areas that can promote infiltration.
- 3) Limit overall impervious coverage of the site with paving and roofs.
- 4) Set back development from creeks, wetlands, and riparian habitats.
- 5) Preserve significant trees.
- 6) Conform the site layout along natural landforms.
- 7) Avoid excessive grading and disturbance of vegetation and soils.
- 8) Replicate the site's natural drainage patterns.
- 9) Detain and retain runoff throughout the site.

(b) **Drainage Management Areas**

The Permittee shall require each Regulated Project to provide a map or diagram dividing the developed portions of the project site into discrete Drainage Management Areas (DMAs), and to manage runoff from each DMA using Site Design Measures, Source Controls and/or Storm Water Treatment and Baseline Hydromodification Measures.

(c) Numeric Sizing Criteria for Storm Water Retention and Treatment

The Permittees shall require facilities designed to evapotranspire, infiltrate, harvest/use, and biotreat storm water to meet at least one of the following hydraulic sizing design criteria:

1) Volumetric Criteria:

- a) The maximized capture storm water volume for the tributary area, on the basis of historical rainfall records, determined using the formula and volume capture coefficients in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998) pages 175-178 (that is, approximately the 85th percentile 24-hour storm runoff event); or
- b) The volume of annual runoff required to achieve 80 percent or more capture, determined in accordance with the methodology in Section 5 of the CASQA's Stormwater Best Management Practice Handbook, New Development and Redevelopment (2003), using local rainfall data.

2) Flow-based Criteria:

- a) The flow of runoff produced from a rain event equal to at least 0.2 inches per hour intensity; or
- b) The flow of runoff produced from a rain event equal to at least 2 times the 85th percentile hourly rainfall intensity as determined from local rainfall records.

(d) Site Design Measures

The Permittee shall implement Site Design Measures (as defined in Section E.12.b. Site Design Measures and Section E.12.e(ii)(a) Site Assessment), site layout and design measures, based on the objective of achieving infiltration, evapotranspiration and/or harvesting/reuse of the 85th percentile 24-hour storm runoff event. Site design measures shall be used to reduce the amount of runoff, to the extent technically feasible, for which retention and runoff is required. Any remaining runoff from impervious DMAs may then be directed to one or more bioretention facilities as specified in Section E.12.e.(ii)(f), below.

(e) Source Controls

The Permittee shall implement Source Controls as defined in Section E.12.d. Source Control Measures.

(f) Storm Water Treatment Measures and Baseline Hydromodification Management Measures

After implementation of Site Design Measures, remaining runoff from impervious DMAs must be directed to one or more facilities designed to infiltrate, evapotranspire, and/or bioretain the amount of runoff specified in Section E.12.e(ii)(c) Numeric Sizing Criteria for Storm Water Retention and Treatment. The facilities must be demonstrated to be at least as effective as a bioretention system with the following design parameters:

- Maximum surface loading rate of 5 inches per hour, based on the flow rates calculated. A sizing factor of 4% of tributary impervious area may be used.
- 2) Minimum surface reservoir volume equal to surface area times a depth of 6 inches
- 3) Minimum planting medium depth of 18 inches. The planting medium must sustain a minimum infiltration rate of 5 inches per hour throughout the life of the project and must maximize runoff retention and pollutant removal. A mixture of sand (60%-70%) meeting the specifications of American Society for Testing and Materials (ASTM) C33 and compost (30%-40%) may be used.
- 4) Subsurface drainage/storage (gravel) layer with an area equal to the surface area and having a minimum depth of 12 inches.
- 5) Underdrain with discharge elevation at top of gravel layer.
- 6) No compaction of soils beneath the facility, or ripping/loosening of soils if compacted.
- 7) No liners or other barriers interfering with infiltration.
- 8) Appropriate plant palette for the specified soil mix and maximum available water use.
- (g) Alternative Designs Facilities, or a combination of facilities, of a different design than in Section E.12.e.(ii)(f) may be permitted if all of the following

measures of equivalent effectiveness are demonstrated:

- 1) Equal or greater amount of runoff infiltrated or evapotranspired;
- 2) Equal or lower pollutant concentrations in runoff that is discharged after biotreatment;
- 3) Equal or greater protection against shock loadings and spills;
- 4) Equal or greater accessibility and ease of inspection and maintenance.
- (h) Allowed Variations for Special Site Conditions The bioretention system design parameters in Section E.12.e.(ii)(f) may be adjusted for the following special site conditions:
 - 1) Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project may incorporate an impervious cutoff wall between the bioretention facility and the structure or other geotechnical hazard.
 - 2) Facilities with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures may incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a "flow-through planter").
 - 3) Facilities located in areas of high groundwater, highly infiltrative soils or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible, may omit the underdrain.
 - 4) Facilities serving high-risk areas such as fueling stations, truck stops, auto repairs, and heavy industrial sites may be required to provide additional treatment to address pollutants of concern unless these high-risk areas are isolated from storm water runoff or bioretention areas with little chance of spill migration.
- (i) Exceptions to Requirements for Bioretention Facilities Contingent on a demonstration that use of bioretention or a facility of equivalent effectiveness is infeasible, other types of biotreatment or media filters (such as tree-boxtype biofilters or in-vault media filters) may be used for the following categories of Regulated Projects:
 - Projects creating or replacing an acre or less of impervious area, and located in a designated pedestrian-oriented commercial district (i.e., smart growth projects), and having at least 85% of the entire project site covered by permanent structures;
 - 2) Facilities receiving runoff solely from existing (pre-project) impervious areas; and
 - 3) Historic sites, structures or landscapes that cannot alter their original configuration in order to maintain their historic integrity.

By the second year of the effective date of the permit, each Permittee shall adopt or reference appropriate performance criteria for such biotreatment and media filters.

(iii) Reporting – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12.f. Hydromodification Management

- (i) Task Description Within the third year of the effective date of the permit, the Permittee shall develop and implement Hydromodification Management procedures. Hydromodification management projects are Regulated Projects that create and/or replace one acre or more of impervious surface. A project that does not increase impervious surface area over the pre-project condition is not a hydromodification management project.
- (ii) **Implementation Level** The Permittee shall implement the following Hydromodification Standard:
 - (a) Post-project runoff shall not exceed estimated pre-project flow rate for the 2-year, 24-hour storm in the following geomorphic provinces (Figure 1):
 - Coast Ranges
 - Klamath Mountains
 - Cascade Range
 - Modoc Plateau
 - Basin and Range
 - Sierra Nevada
 - Great Valley
 - (b) Post-project runoff shall not exceed estimated pre-project flow rate for the 10-year, 24-hour storm in the following geomorphic provinces (Figure 1):
 - Transverse Ranges
 - Peninsular Ranges
 - Mojave Desert
 - Colorado Desert

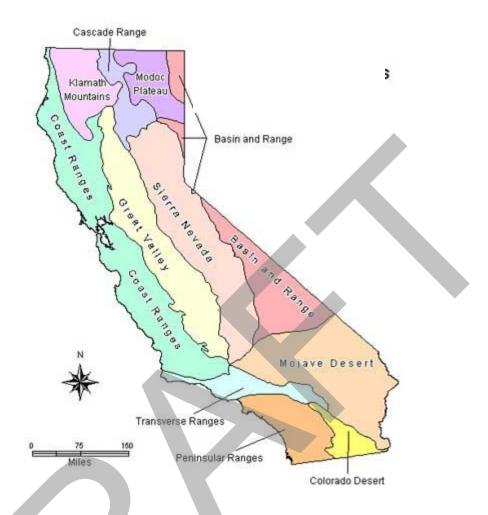


Figure 1. California Geomorphic Provinces

Alternatively, the Permittee may use a geomorphically based hydromodification standard or set of standards and analysis procedures designed to ensure that Regulated Projects do not cause a decrease in lateral (bank) and vertical (channel bed) stability in receiving stream channels. The alternative hydromodification standard or set of standards and analysis procedures must be reviewed and approved by the Regional Board Executive Officer.

(iii) Reporting –The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12.g. Enforceable Mechanisms

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall develop and/or modify enforceable mechanisms that will effectively implement the requirements in Section E.12.b through f (if necessary).
- (ii) **Implementation Level** The Permittee shall develop and/or modify enforceable mechanisms that will effectively implement the requirements in Section E.12.b through E.12.f and may include municipal codes, regulations, standards, and specifications. The Permittee shall:
 - (a) Conduct an analysis of all applicable codes, regulations, standards, and/or specifications to identify modifications and/or additions necessary to fill gaps and remove impediments to effective implementation of project-scale development requirements.
 - (b) Approve new and/or modified enforceable mechanisms that effectively resolve regulatory conflicts and implement the requirements in Sections E.12.b through E.12.f (if necessary)
 - (c) Apply new and/or modified enforceable mechanisms to all applicable new and redevelopment projects. Develop and make available specific guidance for LID BMP design
 - (d) Complete a Tracking Report indicating the Permittee's accomplishments in education and outreach supporting implementation of LID requirements for new and redevelopment projects.

E.12.h. Operation and Maintenance of Post-Construction Storm Water Management Measures

- (i) **Task Description** –Within the second year of the effective date of the permit, the Permittee shall implement an O&M Verification Program for storm water treatment and baseline hydromodification management structural control measures defined in Section E.12.e(ii)(f). Storm Water Treatment Measures and Baseline Hydromodification Management Measures on all Regulated Projects.
- (ii) **Implementation Level** At a minimum, the O&M Verification Program shall include the following elements:
 - (a) All Regulated Projects shall at a minimum, require at least one of the following from all project proponents and their successors in control of the Project or successors in fee title:
 - The project proponent's signed statement accepting responsibility for the O&M of structural control measure(s) until such responsibility is legally transferred to another entity;
 - 2) Written conditions in the sales or lease agreements or deed for the project that requires the buyer or lessee to assume responsibility for the O&M of the installed treatment system(s) and hydromodification control(s) (if any) until such responsibility is legally transferred to another entity;

- 3) Written text in project deeds, or conditions, covenants and restrictions for multi-unit residential projects that require the homeowners association or, if there is no association, each individual owner to assume responsibility for the O&M of the installed treatment system(s) and hydromodification control(s) (if any) until such responsibility is legally transferred to another entity; or
- 4) Any other legally enforceable agreement or mechanism, such as recordation in the property deed, that assigns the O&M responsibility for the installed treatment system(s) and hydromodification control(s) (if any) to the project owner(s) or the Permittee.
- (b) Coordination with the appropriate mosquito²³ and vector control agency with jurisdiction to establish a protocol for notification of installed treatment systems and hydromodification management controls. On an annual basis, before the wet season, prepare a list of newly installed (installed within the reporting period) storm water treatment systems and hydromodification management controls to the local mosquito and vector control agency and the appropriate Regional Water Board. The Permittee may submit the list of Regulated Projects as described in Section E.12.h.(ii)(e). This list shall include the facility locations and a description of the storm water treatment measures and hydromodification management controls installed.
- (c) Conditions of approval or other legally enforceable agreements or mechanisms for all Regulated Projects that require the granting of site access to all representatives of the Permittee for the sole purpose of performing O&M inspections of the installed treatment system(s) and hydromodification control(s) (if any).
- (d) A written implementation plan that describes O&M (including inspection) of all Regional Projects and regional controls that are Permittee-owned and/or operated.
- (e) A database or equivalent tabular format of all Regulated Projects (public and private) that have installed treatment systems. This database or equivalent tabular format shall include the following information for each Regulated Project:
 - 1) Name and address of the Regulated Project;
 - 2) Specific description of the location (or a map showing the location) of the installed treatment system(s) and hydromodification control(s) (if any);
 - 3) Date(s) that the treatment system(s) and hydromodification controls (if any) is/are installed;
 - 4) Description of the type and size of the treatment system(s) and hydromodification control(s) (if any) installed;
 - 5) Responsible operator(s) of each treatment system and hydromodification control (if any);
 - 6) Dates and findings of inspections (routine and follow-up) of the treatment system(s) and hydromodification control(s) (if any) by the Permittee; and
 - 7) Any problems and corrective or enforcement actions taken.

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²³ California Department of Public Health. (2012). Best Management Practices for Mosquito Control in California. Retrieved on July 20, 2012 from http://www.westnile.ca.gov/resources.php

- 8) Maintenance Approvals: The Permittee shall ensure that systems and hydromodification controls installed at Regulated Projects are properly operated and maintained for the life of the projects. In cases where the responsible party for a treatment system or hydromodification control has worked diligently and in good faith with the appropriate state and federal agencies and the Permittee to obtain approvals necessary to complete maintenance activities for the treatment system or hydromodification management control, but these approvals are not granted, the Permittee shall be deemed to be in compliance with this Provision.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12.i. Post-Construction Best Management Practice Condition Assessment

- (i) **Task Description** Within the third year of the effective date of the permit, the Permittee shall inventory and assess the maintenance condition of structural post-construction BMPs (including BMPs used for flood control) within the Permittee's jurisdiction.
- (ii) Implementation Level The Permittee shall develop and implement a plan to inventory, map, and determine the relative maintenance condition of structural post-construction BMPs. Maintenance condition shall be determined through a self-certification program where Permittees require annual reports from authorized parties demonstrating proper maintenance and operations. The plan shall include:
 - (a) An inventory and map of existing structural post-construction BMPs, in GIS if available.
 - (b) Assessments of the self-certification program annual reports. Assessment shall include a ranking of structural BMPs and verification that BMPs are operating to remove pollutants as designed. Regional BMPs should receive higher priority than lot-scale BMPs, and BMPs designed to remove pollutants for which receiving water is impaired should receive priority attention over other BMPs.
 - (c) Appropriate escalating enforcement based on the Permittee Enforcement Response Plan to ensure proper maintenance of BMPs and submittal of self-certification annual reports.
 - (d) Self-Certification Annual Reports. At a minimum, the self-certification annual reports shall include:
 - Field observations to determine the effectiveness of the structural post construction BMPs in removing pollutants of concern from storm water runoff and/or reducing hydromodification impacts as designed.

- 2) Long-term plan for conducting regular maintenance of BMPs, including the frequency of such maintenance.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and longterm effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section E.16.a.for compliance directions.

E.12.j. Planning and Development Review Process

- (i) Task Description The Permittee shall review their planning and permitting process to assess any gaps or impediments impacting effective implementation of these post-construction requirements specified in Section E.12, and where these are found to exist, seek solutions to promote implementation of these requirements within the context of public safety and community goals for land use. The Permittee shall prioritize review of the landscape code (code detailing landscaping requirements and considerations which should be implemented to protect environmental quality) to correct gaps and impediments impacting effective implementation of post-construction requirements.
- (ii) **Implementation Level** During years 1 3, the Permittee shall conduct the review using an existing guide or template already developed for MS4s (such as the Municipal Regulatory Update Assistance Program (MRUAP)²⁴ conducted by AHBL, Inc. for the Low Impact Development Initiative (LIDI) on the Central Coast). By the fourth year of the effective date of the permit, any changes to the planning and permitting process will be completed to effectively administer these provisions. Priority shall be placed on review of the landscape code, with the following implementation level.
 - (a) Within the first year of the effective date of this permit, the Permittee shall conduct an analysis of the landscape code to correct gaps and impediments impacting effective implementation of post-construction requirements.
 - (b) Within the second year of the effective date of the permit, the Permittee shall complete any changes to the landscape code to effectively administer post-construction requirements.
- (iii) **Reporting** By the second year Annual Report and annually thereafter, complete and have available a summary of the review process, and any proposed or completed changes to the Permittee's program.

²⁴ http://www.casqa.org/LIDDemo/LIDTraining/tabid/246/Default.aspx

E.12.k. Post-Construction Storm Water Management Requirements Based on Assessment and Maintenance of Watershed Processes

Small MS4s subject to Section E of this Order, in place of complying with the requirements set forth in Section E.12, except for Sections E.12.j. Planning and Development Review Process and E.12.e(ii)(e) Source Control Requirements, shall comply with post-construction storm water management requirements based on a watershed-process approach developed by Regional Water Board that include the following:

- Completion of a comprehensive assessment of dominant watershed processes affected by urban storm water
- LID site design and runoff reduction measures, numeric runoff treatment and retention controls, and hydromodification controls that will maintain watershed processes and protect water quality and beneficial uses.
- A process by which Regional Board staff will actively engage Permittees to adaptively manage requirements as determined by the assessment of watershed processes.
- An annual reporting program that involves Regional Board staff and State Board staff to inform statewide watershed process based criteria.

The regional watershed-process based approach must be approved by the Regional Water Board following a public process.

E.12.I. Alternative Post-Construction Storm Water Management Program

A Permittee may propose alternative post-construction measures in lieu of some or all of Section E.12. requirements for multiple benefit projects. Multiple-benefit projects include projects that may address any of the following, in addition to water quality: water supply, flood control, habitat enhancement, open space preservation, recreation, climate change. Multiple-benefit projects may be applied at various scales including project site, municipal or sub-watershed level. Multiple-benefit projects may include, but are not limited to, projects developed under Watershed Improvement Plans (Water Code §16100 et seq.), IRWMP implementation and green infrastructure projects. Multiple benefit projects must be equally or more protective of water quality than Section E.12. requirements.

The Regional Water Board or the Executive Officer, may approve alternative post-construction measures for multiple-benefit projects, as described above, after an opportunity for public comment, if the Regional Water Board or Executive Officer finds that the alternative measures are consistent with the MEP standard.

E.13. WATER QUALITY MONITORING

Traditional Small MS4 Permittees that are required to conduct monitoring of discharges to ASBS, TMDL, or 303(d) impaired water bodies, as described in Sections E.13.(a)-(c), are not required to perform additional monitoring as specified in Sections E.13.d.1. and E.13.d.2.

Permittees are encouraged to participate in a regional monitoring program in order to costeffectively combine resources and water quality information. Regional monitoring is the collaboration of local and regional monitoring programs that are designed to create a more comprehensive picture of water quality conditions within a watershed. The following management questions may be used to assist in guiding the development of a regional monitoring program, as applicable²⁵:

- 1) Are water quality standards being met in receiving waters?
- 2) What is the extent and magnitude of the current or potential receiving water problems²⁶?
- 3) What is the relative urban runoff contribution to the receiving water problem(s)?
- 4) What are the sources to urban runoff that contribute to the receiving water problem(s)?
- 5) Are conditions in receiving waters getting better or worse?

Regional monitoring programs shall be reviewed and approved by the Executive Officer of the applicable Regional Water Board²⁷.

Where a regional monitoring group has initiated plans, before the effective date of this Order, to conduct monitoring that achieves Section E.13. compliance, the Permittee may request the Executive Officer of the applicable Regional Board tailor compliance dates to synchronize with such efforts. Additionally, existing regional water monitoring efforts shall be reviewed and approved by a Regional Water Board Executive Officer.

Where a Permittee receives grant funding to conduct monitoring that achieves Section E.13. compliance, the Permittee may request the Regional Water Board Executive Officer tailor compliance dates to synchronize with such efforts.

E.13.a. ASBS Monitoring

All Permittees that discharge to an ASBS and are covered by an Ocean Plan exception shall comply with the monitoring requirements described in the terms, prohibitions and special conditions in Attachment C.

E.13.b. TMDL Monitoring

All Permittees that are assigned a wasteload allocation or identified as a responsible party in a TMDL approved by the U.S. EPA where urban runoff is listed as the source, shall comply with the monitoring requirements included in Attachment G and consult with the Regional Water Board within one year of the effective date of the permit to determine the monitoring study design and a monitoring implementation schedule. Where a TMDL is limited to a single

²⁵ The five core management questions are based on the Stormwater Monitoring Coalition's Model Monitoring Technical Committee Technical Report # 419: Model Monitoring Program for Municipal Separate Storm Sewer Systems in Southern California.

Water quality problems include exceedances of water quality standards, including impairment of designated uses, or other significant water quality impacts, including habitat and biological impacts.

The regional monitoring programs may deviate from the specific requirements in Section E.13.a. to the extent approved by the Executive Officer, except that the regional monitoring program shall be SWAMP comparable and that all data shall be placed in the California Environmental Data Exchange Network (CEDEN).

constituent within a single reach of the watershed, the Regional Water Board Executive Officer may require additional monitoring, per Water Code § 13383. Permittees shall implement TMDL monitoring as specified by the Regional Water Board Executive Officer.

E.13.c. 303(d) Monitoring

All Permittees that discharge to waterbodies listed as impaired on the 303(d)²⁸ list where urban runoff is listed as the source, shall consult with the Regional Water Board within one year of the effective date of the permit to assess whether monitoring is necessary and if so, determine the monitoring study design and a monitoring implementation schedule. Permittees shall implement monitoring of 303(d) impaired water bodies as specified by the Regional Water Board Executive Officer.

E.13.d. Receiving Water Monitoring and Special Studies

Traditional Small MS4 Permittees with a population greater than 50,000 listed in Attachment A that are not already conducting ASBS, TMDL or 303(d) monitoring efforts shall participate in one of the following monitoring programs, subject to Regional Water Board Executive Officer approval:

- E.13.d.1. Receiving Water Monitoring
- E.13.d.2. Special Studies

E.13.d.1. Receiving Water Monitoring

- (i) **Task Description –** Within the second year of the effective date of the permit, the Permittee shall develop and implement a receiving water monitoring program to (1) Monitor receiving water quality at upstream location in an area undergoing development and evaluate changes in receiving water quality over time, and (2) Monitor receiving water quality at a downstream location in an urban area and evaluate changes in receiving water quality over time. Permittees may, to the extent allowed by law, establish a monitoring fund into which all new development contributes on a proportional basis (% development fee, size/number of lots, etc.). Monitoring funding may be overseen by municipalities or coalition of municipalities.
- (ii) Implementation Level By the first year of the permit, the Permittee shall select one (1) urban/rural interface monitoring site to monitor receiving water quality at an upstream location in an area undergoing development and evaluate changes in receiving water quality over time, and; one (1) urban area monitoring site to monitor receiving water quality at a downstream location in an urban area and evaluate changes in receiving water quality over time. Site selection shall include the following:
 - (a) <u>Urban/Rural Interface</u>. Identify one characteristic waterway at the top, or upstream, of a HUC 12 level watershed planned for development in the near future that traverses an urban/rural interface, using the 2010 Census Data and urban area maps, and establish a permanent monitoring location at the

²⁸ <u>http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml</u>

identified urban/rural interface²⁹. Monitoring at the urban/rural interface shall address the question: Does receiving water quality change as LID BMPs are integrated into new development?

(b) <u>Urban Downstream</u>. Identify one characteristic waterway at the bottom, or downstream, of the same HUC 12 watershed as the urban/rural interface monitoring location and within an urbanized area and establish a permanent monitoring location at the identified urbanized area waterway. Monitoring at the urban area site shall address the question: Does receiving water quality improve as a result of efforts to control the sources of pollution and educate the public?

By the second year of the permit term and after establishment of site selection, the Permittee shall monitor the urban/rural interface site to address the hypothesis that receiving water quality will remain the same as new development proceeds, and the urban area site to address the hypothesis that receiving water quality will improve over time as storm water and other water quality programmatic efforts are implemented. Monitoring shall be implemented in accordance with Table 3.
Receiving Water Monitoring Parameters and Protocols.

Table 3: Receiving Water Monitoring Parameters and Protocol

Urban/Rural Interface:

<u>Objective</u>: Monitor receiving water quality at upstream location in an area undergoing development. Evaluate changes in receiving water quality over time.

Question: Does receiving water quality change as LID BMPs are integrated into new development?

Hypothesis: Receiving water quality will remain the same as new development proceeds.

Urban Downstream:

<u>Objective:</u> Monitor receiving water quality at a downstream location in an urban area. Evaluate changes in receiving water quality over time.

Question: Does receiving water quality improve as a result of efforts to control the sources of pollution and educate the public?

<u>Hypothesis:</u> Receiving water quality will improve over time as storm water and other water quality programmatic efforts are implemented.

PARAMETER	ENDPOINT	BENEFICIAL USED PROTECTED	JUSTIFICATION	PROTOCOL
Water Quality	Pyrethroids* (sediment)	Aquatic Life	Pyrethroids** among the most ubiquitous urban contaminant in storm water. Highly toxic to aquatic life.	Method with detection limit of 1 pptr (5 pptr for permethrin only) such as the GC-MS-MS method of Water Pollution Control Lab. Yearly in spring at urban/rural interface only. Refer to pending SWAMP guidelines.
	Dissolved oxygen (DO)	Aquatic life, recreation	DO reports on presence of excessive nutrients (N, P) and effects of organic matter loading into a waterbody. High DO during day, low DO at night suggests algae overgrowth.	Option 1: One week of evening grab samples (a minimum of 2 hours after dusk or 2 hours before sunrise) in spring (as soon as safe to get into waterway), summer, & fall. OR Option 2: Continuous sampling. 1

²⁹ The urban/rural interface is identified as the geographical location at which urban land use and rural land use interact

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				week in spring summer, fall. In		
				rivers or lakes, 2 samplers to obtain depth-integrated values.		
	Temperature	Aquatic life	Aquatic life can survive within a	Option 1: Daytime measurement		
	Temperature	, iqualic iiic	temperature window,	between noon – 5 pm, at the same		
			exceedances lethal. If loggers are	time of day, for 2 weeks in the		
			deployed, DO probes often also	spring, summer, and fall.		
			measure temperature.	Option 2: Continuous sample. Same		
			·	as for dissolved oxygen.		
	Bacteria	Recreation	Increase cell count linked to poor	Once yearly in later summer or fall.		
			management practices, high	Collect 1 sample weekly x 4 weeks.		
			bacteria levels limit recreational	Calculate geometric mean. Measure		
			use of waterways.	e. coli.		
	Nutrients	Aquatic life	Excess nutrients can cause	Benthic algal biomass and % cover		
		Recreation Other	eutrophication of waterways	(benthic chlorophyll a) from sediment in wadeable and non-		
		Other	leading to low dissolved oxygen which harms aquatic life. Algal	wadeable streams or planktonic		
			overgrowth can also impair flows,	algal biomass (water column		
			adversely affect aesthetics,	chlorophyll) from non-wadeable		
			limiting recreation.	rivers and lakes. 3 times per year at		
				beginning, middle, and end of		
				growing season. Use SWAMP protocol.		
Physical Habitat	PHAB	Aquatic life	Expect to see few changes in	Once yearly in spring. Use SWAMP		
	assessment	`	habitat with effective LID	protocol.		
			implementation			
	Channel cross	Aquatic life	Reports on stability of creek/river	Once yearly in spring.		
	sections	A	channel			
	Flow	Aquatic life	Expect minimal changes in flow	Option 1: Pressure transducer. Use		
			rate if LID practices minimizes	channel cross sections put in same		
			changes in hydrograph usually seen with urbanization	time as DO probe. Measure spring, summer, and fall		
			Seen with urbanization	Option 2: Install stage gage, develop		
				rating curve. Evaluate spring,		
				summer, and fall for 2 weeks.		
	Photo	Overall	Pictures and flood prone area will	Once yearly in spring.		
	documentation	conditions	aid in the interpretation of the	_		
			data			
	Bioassessment	Aquatic life	BMIs integrate the sum of all	In spring as soon as safe to enter		
Aquatic Life			conditions. Use early	water, use SWAMP protocol		
			measurements as the baseline.			
			In some cases, expect improved			
			BMIs, depending on previous use			
* Purethroid monitoring is required at the urban/rural interface site only						

^{*} Pyrethroid monitoring is required at the urban/rural interface site only.

^{**}Currently, pyrethroids are the pesticide of greatest concern and abundance in urban/suburban waterways. However, new regulations enacted by the Dept. of Pesticide Regulation restrict how pyrethroids may be applied. Initial models by UC Davis researchers suggest that this could result in a runoff reduction of 80-90%, depending on the amount of impervious cover in the watershed. In the future, other pesticides may become more of a threat to aquatic life in urban waterways. One pesticide that is being used with greater frequency is fipronil, a phenylpyrazole insecticide, that is more water soluble than pyrethroids. In order to use the resources of the permittees most efficiently, the State Water Resource Control Board reserves the right to modify the terms and conditions of the permit based on new information on pesticide use and toxicity. This could include substituting another pesticide for monitoring or eliminating this endpoint.

(iii) **Reporting –** By the second year Annual Report, the Permittee shall complete and have available a report (50 page maximum) that includes a summary of baseline data collections and discussion of monitoring program results;

By the fifth year Annual Report, the Permittee shall complete and have available a report (50 page maximum) that includes a comparison of data collection to baseline data, and discussion of monitoring program results.

At a minimum, the second and fifth year Annual Reports shall include the following information:

- (a) The purpose of the monitoring, brief contextual background and a brief description of the study design and rationale.
- (b) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable. Sampling design, including sampling protocol, time of year, sampling frequency and length of sampling.
- (c) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable.
- (d) Results of data collection, including concentration detected, measurement units, and detection limits if applicable.
- (e) Quantifiable assessment, analysis and interpretation of data for each monitoring parameter.
- (f) Comparison to reference sites (if applicable), guidelines or targets
- (g) Discussion of whether data collected addresses the objective(s) or question(s) of study design
- (h) Quantifiable discussion of program/study pollutant reduction effectiveness.

Where applicable, the Permittee shall prepare, maintain, and implement a Quality Assurance Project Plan (QAPP) in accordance with the Surface Water Ambient Monitoring Program. All monitoring samples shall be collected and analyzed according to the Program QAPP developed for the purpose of compliance with this Order. SWAMP Quality Assurance Program Plan (2008) is available at:

http://www.waterboards.ca.gov/water_issues/programs/swamp/docs/qapp/qaprp082 209.pdf

A formatted Microsoft Word document that includes guidelines and boilerplate language for developing the permit QAPP is available at:

http://www.waterboards.ca.gov/water_issues/programs/swamp/tools.shtml#ga

Water quality data shall be uploaded to SMARTS and must conform to California Environmental Data Exchange Network (CEDEN) Minimum Data Templates format. CEDEN Minimum Data Templates are also available at: http://ceden.org/

E.13.d.2. Special Studies

- (i) Task Description Within the first year of the effective date of the permit, the Permittee, as an alternative to Section E.13.d.1. Receiving Water Monitoring, may develop and implement a special study monitoring program to assess and evaluate the effectiveness of water quality projects or storm water program elements designed to reduce specific water quality pollutants that are causing or contributing to beneficial use impairment. The special studies must demonstrate the nexus between storm water program implementation, water quality protection and pollutant reduction effectiveness and may include, but are not limited to:
 - (a) Assessment of effectiveness of habitat enhancement efforts and assessment of effectiveness of stream restoration projects (i.e., stream channel restoration as related to implementation of hydromodification standards);
 - (b) Assessment of effectiveness of low impact development pilot projects, and assessment of storm water program components through pollutant load reduction quantification and/or discharge water quality monitoring (i.e., reduction of impervious surface related to implementation of Post-Construction Storm Water Management Program).
- (ii) Implementation Level By the first year of the permit, the Permittee shall develop and implement a special study plan and shall submit to an applicable Regional Board for review and approval. Within the second year of the effective date of the permit, the Permittee shall begin implementation of the approved special study plan. The study plan shall include, at a minimum:
 - (a) Purpose/objective of the monitoring (sampling rationale), including reasoning to implement a special study in lieu of the Receiving Water Monitoring described in Section E.13.d.1.
 - (b) Brief project background information and overall study design (i.e., surrounding land uses, reference monitoring data, if applicable, and site conditions)
 - (c) Parameters that are being measured, how parameters are measured and rationale for parameter selection.
 - (d) Frequency that parameters are being measured (sampling frequency)
 - (e) Sampling site location
 - (f) Description of how the data will be managed, analyzed (including statistical analysis) and reported
 - (g) Expected results based on study plan design and hypothesis
- (iii) **Reporting** By the second year Annual Report, the Permittee shall complete and have available a report (50 page maximum) that includes a summary of baseline data collections and discussion of monitoring program results.

By the fifth year Annual Report, the Permittee shall complete and have available a report (50 page maximum) that includes a comparison of data collection to baseline data, and discussion of monitoring program results.

At a minimum, the second and fifth year Annual Reports shall include the following information:

- (a) The purpose of the monitoring, contextual background and a description of the study design and rationale.
- (b) Sampling site(s) locations, including latitude and longitude coordinates, water body name and water body segment if applicable. Sampling design, including sampling protocol, time of year, sampling frequency and length of sampling.
- (c) Methods used for sample collection: list methods used for sample collection, sample or data collection identification, collection date, and media if applicable.
- (d) Results of data collection, including concentration detected, measurement units, and detection limits if applicable.
- (e) Quantifiable assessment analysis and interpretation of data for each monitoring parameter or other data type.
- (f) Comparison to reference sites (if applicable), guidelines or targets
- (g) Discussion of whether data collected addresses the objective(s) or question(s) in the study plan
- (h) Quantifiable discussion of program/study pollutant reduction effectiveness.

Where applicable, the Permittee shall prepare, maintain, and implement a QAPP in accordance with SWAMP. All monitoring samples shall be collected and analyzed according to the Program QAPP developed for the purpose of compliance with this Order. SWAMP Quality Assurance Program Plan (2008) is available at:

http://www.waterboards.ca.gov/water issues/programs/swamp/docs/qapp/qaprp0822 09.pdf

A formatted Microsoft Word document that includes guidelines and boilerplate language for developing the permit QAPP is available at:

http://www.waterboards.ca.gov/water issues/programs/swamp/tools.shtml#qa

Water quality data shall be uploaded to the Storm Water Multi-Application Reporting and Tracking System (SMARTS) and must conform to "CEDEN Minimum Data Templates" format. CEDEN Minimum Data Templates are also available at: http://ceden.org/

E.14. PROGRAM EFFECTIVENESS ASSESSMENT AND IMPROVEMENT

E.14.a. Program Effectiveness Assessment and improvement Plan

- (i) Task Description The Permittee shall develop and implement a Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. The Program Effectiveness Assessment and Improvement Plan will assist the Permittee to document compliance with permit conditions and to adaptively manage its storm water program and make necessary modifications to the program to improve program effectiveness at reducing pollutants of concern, achieving the MEP standard, and protecting water quality. The Program Effectiveness Assessment and Improvement Plan shall identify the strategy used to gauge the effectiveness of prioritized BMPs and program implementation as a whole. Prioritized BMPs include BMPs implemented based on pollutants of concern. Where pollutants of concern are unidentified, prioritized BMPs are based on common urban pollutants (i.e., sediment, bacteria, trash, nutrients). The annual effectiveness assessments will help identify potential modifications to the program to ensure long-term effectiveness.
- (ii) Implementation Level The Program Effectiveness Assessment and Improvement Plan may be modeled upon the most recent version (if applicable) Municipal Storm Water Program Effectiveness Assessment Guidance (CASQA, May 2007) or equivalent.
 - (a) The Program Effectiveness Assessment and Improvement Plan shall include the following elements, at a minimum as applicable:
 - Identification of overall program goals including pollutants of concern and prioritized BMPs
 - 2) Documentation of the level of implementation of storm water program elements
 - 3) Identification and targeting of target audience(s)
 - 4) Assessment of BMP performance at achieving outcome levels
 - 5) Assessment of pollutant source reductions achieved by individual BMPs
 - 6) Quantification of pollutant loads and pollutant load reductions achieved by the program as a whole
 - 7) MS4 discharge quality, where available, including analysis of the data
 - 8) Receiving water quality data, including analysis of the data
 - 9) Identification of long-term effectiveness assessment, to be implemented beyond the permit term
 - (b) The Program Effectiveness Assessment and Improvement Plan shall assess BMP and program effectiveness in terms of the following Outcome Levels:
 - 1) Storm water program activities
 - 2) Awareness
 - 3) Behavior
 - 4) Pollutant load reductions
 - 5) MS4 discharge quality (where assessment is supported by MS4 discharge quality data)

- 6) Receiving water conditions
- (c) The Program Effectiveness Assessment and Improvement Plan shall identify assessment methods for privately owned BMPs.
- (d) The Program Effectiveness Assessment and Improvement Plan shall identify assessment methods the Permittee will use to quantitatively assess BMP performance at reducing pollutant loads wherever feasible, using the following or equivalent methods:
 - 1) Direct quantitative measurement of pollutant load removal for BMPs that lend themselves to such measurement (e.g., measuring sediment collected through street-sweeping activities);
 - 2) Science-based estimates of pollutant load removal for BMPs where direct measurement of pollutant removal is overly challenging (e.g., removal of heavy metals through a bioswale);
 - Direct quantitative measurement of behaviors that serve as proxies of pollutant removal or reduction (e.g., the percentage of construction sites demonstrated by inspection to be in compliance with permit conditions); or
 - 4) Visual comparison (e.g., using photographs to compare the amount of trash in a creek between one year and the next).
- (e) The Program Effectiveness Assessment and Improvement Plan shall ask and answer the following Management Questions for prioritized BMPs for which answers to management questions can be based on quantitative data appropriate to the question being answered.
 - 1) Were prioritized BMPs or group of BMPs implemented in accordance with the permit requirements? The Permittee shall develop quantitative data using the following or equivalent methods:
 - a) Confirmation Documenting whether an activity or task has been completed, expressed as positive or negative outcome (i.e., yes or no)
 - b) Tabulation Simple accounting expressed in absolute (e.g., number of people participating), or relative terms (e.g. percent increase in recycled household hazardous waste)
 - 2) To what extent did prioritized BMPs or group of BMPs change the target audience's behavior? The Permittee shall develop quantitative data using the following or equivalent methods:
 - a) Surveys or interviews to discern knowledge, attitudes, awareness, behavior of specific population, etc.
 - b) Interviews of site personnel to discern awareness and behavior
 - c) Inspections or site visits to directly observe or assess a practice.
 - 3) To what extent did prioritized BMPs or group of BMPs reduce pollutant loads from their sources to the storm drain system?
- (f) The Program Effectiveness Assessment and Improvement Plan shall include water quality monitoring data, where available, to answer the following long-term management questions, effectiveness of BMPs and the overall storm water program will be assessed in future permit terms.

- 1) To what extent did implementation of the BMP, group of BMPs, or storm water program enhance or change the urban runoff and discharge quality?
- 2) To what extent did implementation of the BMP, group of BMPs, or storm water program enhance or change receiving water quality?
- 3) Did exceedance(s) of water quality objectives or water quality standards persist notwithstanding implementation of the storm water program?

The Program Effectiveness Assessment and Improvement Plan shall include documentation of the effectiveness of BMPs implemented to reduce the discharge of pollutants to the MS4 to the MEP and protect water quality.

(iii) Reporting – By the second year Annual Report complete and submit the Program Effectiveness Assessment and Improvement Plan. The Plan shall include the strategy the Permittee will use to assess the effectiveness of the program, the specific measures the Permittee will use to assess the effectiveness of BMPs and/or groups of BMPs, and how the Permittee will use the information obtained through effectiveness assessment to modify individual BMPs and the program as a whole to increase short and long-term effectiveness. In subsequent Annual Reports, describe implementation of the Program Effectiveness Assessment and Improvement Plan, summarize data obtained through effectiveness assessment measures and the short and long-term progress of the storm water program, and provide an analysis of the data to improve program effectiveness, to achieve the MEP standard, protect water quality, and to document the Permittee's compliance with permit conditions. Permittees that have a Program Effectiveness Assessment and Improvement Plans, or equivalent, approved by the applicable Regional Board, or that have a schedule approved by the applicable Regional Board to develop and implement such a Plan, shall adhere to the Plan and/or schedule approved by the Regional Board unless otherwise directed by the Regional Board. By the fifth year annual report, complete and submit an analysis of the effectiveness of modifications made at improving BMP and/or program effectiveness.

E.14.b. Storm Water Program Modifications

- (i) Task Description –The Permittee shall modify BMPs and/or the program as a whole to improve compliance with permit conditions and improve program effectiveness at reducing pollutant loads, achieving the MEP standard, and protecting water quality. The Permittee shall use information gained through effectiveness assessment and MS4 discharge and receiving water monitoring to identify priority areas for program improvement. In addition, the Permittee shall identify and make modifications to BMPs, including new BMPs or modification to existing BMPs, to improve effectiveness in each priority area. The Permittee shall consult with the applicable Regional Water Board in setting expectations for the scope, timing, and frequency of BMP modifications.
- (ii) **Implementation Level** Within the fifth year of the effective date of the permit, the Permittee shall identify and summarize BMP and/or program modifications identified in priority program areas. Modifications shall include:
 - (a) Improving upon BMPs that are underperforming

- (b) Continuing and expanding upon BMPs that proved to be effective, including identifying new BMPs or modifications to existing BMPs designed to increase pollutant load reductions;
- (c) Discontinuing BMPs that may no longer be productive and replacing with more effective BMPs: and
- (d) Shifting priorities to make more effective use of resources
- (iii) **Reporting** By the fifth year Annual Report, complete and submit the list of BMP and/or program modifications, as specified in E.14.c(ii), the Permittee will make for priority program areas, including identification of priority program areas and the schedule the Permittee will follow to complete identified modifications during the next permit term. The modifications shall be aimed at the goal of reducing pollutant loads, achieving the MEP standard and protecting water quality.

E.15. TOTAL MAXIMUM DAILY LOADS COMPLIANCE REQUIREMENTS

- **E.15.a.** The Permittee shall comply with all applicable TMDLs approved pursuant to 40 Code of Federal Regulations section 130.7 that assign a Waste Load Allocation to the Permittee and that have been identified in Attachment G.
- E.15.b. WLA, Load Allocations (LA), effluent limitations, implementation requirements, and monitoring requirements are specified in the adopted and approved Regional Water Board Basin Plans and authorizing resolutions which are incorporated herein by reference as enforceable parts of this Order. Applicable Basin Plan amendments and resolutions are identified in Attachment G. Attachment G additionally contains a list of TMDL-specific permit requirements developed by the Regional Water Boards for compliance with the implementation requirements of the relevant TMDLs. These requirements are an enforceable component of this Order. In some cases, dates are given that fall outside the term of this Order. Compliance dates that have already passed are enforceable on the effective date of this Order. Compliance dates that exceed the term of this Order are included for reference, and become enforceable in the event that this Order is administratively extended.
- **E.15.c.** The Regional Water Boards are directed to review, within one year of the effective date of this Order, the TMDL-specific permit requirements contained in Attachment G and to develop or propose revisions, as appropriate, to TMDLspecific permit requirements to the State Water Board after consultation with the Permittees and State Water Board staff. Any proposed revisions by the Regional Water Boards shall be supported by an explanation of how the proposed TMDL-specific permit requirements are consistent with the assumptions and requirements of applicable WLAs and with the goals of the TMDL. Where a TMDL is limited to a single constituent within a single reach of the watershed, the Regional Water Board Executive Officer may require additional monitoring, per Water Code § 13383. The State Water Board will incorporate any necessary revisions through a reopener. The State Water Board may additionally revise this Order through a reopener to incorporate any modifications or revisions to the TMDLs in Attachment G, or to incorporate any new TMDLs adopted during the term of this Order that assign a WLA to a Regulated Small MS4 or that identify a Regulated Small MS4 as a responsible

- party. In revising Attachment G, the State Water Board will allow adequate notice and public review.
- **E.15.d.** The Permittee shall complete and report the status of their implementation of the specific TMDL implementation requirements that have been incorporated into the permit with each Annual Report via SMARTS. Reporting on TMDL implementation shall include the following information:
 - (i) A description of BMPs implemented, including types, number, and locations
 - (ii) An assessment of the effectiveness of implemented BMPs in progressing towards attainment of wasteload allocations within the TMDLs' specified timeframes
 - (iii) All monitoring data, including a statistical analysis of the data to assess progress towards attainment of wasteload allocations within the TMDLs' specified timeframes
 - (iv) Based on results of the effectiveness assessment and monitoring, a description of the additional BMPs that will be implemented to attain wasteload allocations within the TMDLs specified timeframes
- E.15.e. The Permittee shall comply with implementation requirements specified in Category 4b demonstrations associated with Clean Water Act Sections 303d, 306b, and 314 Integrated Reporting and Listing Decisions. Implementation requirements described in Category 4b demonstrations are effective upon Regional Water Board approval of that region's Integrated Reporting and Listing Decisions and associated Category 4b demonstrations. The most recent Integrated Reporting and Listing Decisions and associated Category 4b demonstrations are available at http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml.

E.16. ANNUAL REPORTING PROGRAM

- **E.16.a.** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities for each program element and certify compliance with all requirements of this permit. If a Permittee is unable to certify compliance with a requirement, the Permittee must submit in SMARTS the reason for failure to comply, a description and schedule of tasks necessary to achieve compliance, and an estimated date for achieving full compliance.
- **E.16.b.** Permittees shall complete and retain all Annual Report information on the previous fiscal year beginning July 1 and ending June 30. The Annual Reporting requirements are set forth in Provisions E. The Permittee shall retain documentation as necessary to support their Annual Report. The Permittee shall make this supporting information available during normal business hours, unless agreed to by the applicable Regional Water Board's Executive Officer.
- **E.16.c**. The Permittee shall submit when requested by the Executive Officer of the applicable Regional Water Board a detailed written online annual report or in-

person presentation of the annual report that addresses the activities described in Provision E. The detailed Annual Report must clearly refer to the permit requirements and describe in quantifiable terms, the status of activities undertaken to comply with each requirement.

E.16.d. Permittees involved in regional programs may coordinate with the members to identify reporting responsibility. The one report submitted on behalf of Permittees involved in a regional program must include a summary of the past year activities for each program element and certification of compliance with all requirements of this Order for each of the Permittees in the regional program.

F. NON - TRADITIONAL SMALL MS4 PERMITTEE PROVISIONS

F.1. Non-Traditional Small MS4 Categories

The Non-Traditional Small MS4s identified in Attachment B or by a Regional Water Board Executive Officer shall comply with the specific provisions in this Section. For military installations, this permit applies to areas, where the activities and population density resemble that of a traditional small MS4, as defined in the permit boundary map in Section A.2.b.(3). For Department of Corrections and Rehabilitation Permittees, this permit applies to facilities that are in active operation (i.e., does not apply to closed facilities lacking management oversight).

F.2. Security Concerns

Department of Defense, Department of Corrections and Rehabilitation Permittees, ports and transportation agencies are exempt from Annual Reporting of any provision in this section that could pose a security risk and/or compromise facility security.

F.3. Maximize Efficiency

Permittees may incorporate the required storm water provisions into already existing programs and leverage existing staff to implement BMPs during its day to day business and operations.

F.4. Equivalent or Existing Document

A Permittee may utilize an equivalent or existing document such as a Standard Operations and Procedures manual, Operation and Maintenance Plan, or Spill Response Plan if that document includes the necessary information required to comply with the provisions of this section.

F.5. PROVISIONS

F.5.a. PROGRAM MANAGEMENT ELEMENT

F.5.a.1. Legal Authority

- (i) **Task Description** Permittee shall have adequate legal authority to meet the requirements of this Order
- (ii) **Implementation Level** Within the second year of the effective date of the permit, the Permittee shall review, revise or adopt new relevant policies, contractual provisions, base orders, resolutions or other regulatory mechanisms, to the extent allowable under state or local law, to ensure it has at a minimum the legal authority to:
 - (a) Effectively prohibit non-storm water discharges through the MS4. Exceptions to this prohibition are NPDES-permitted discharges of non-storm water and non-storm water discharges from B.3 that are considered non-significant contributors of pollutants. Where the non-storm water discharge is to a segment of an MS4 that discharges directly to an ASBS, exceptions to the non-storm water prohibition are specified in Attachment C.
 - (b) Detect and eliminate illicit discharges and illegal connections to the MS4. Illicit connections include pipes, drains, open channels, or other conveyances that have the potential to allow an illicit discharge to enter the MS4. Illicit discharges include all non-storm water discharges not otherwise authorized in this Order, including, but not limited to discharges from mobile cleaning and pressure washing operations.
 - (c) Respond to spills, and prohibit dumping or disposal of materials other than storm water into the MS4.
 - (d) Require vendors, contractors and operators of commercial facilities to minimize the discharge of pollutants to the MS4 through the installation, implementation, and maintenance of BMPs consistent with the CASQA Best Management Practice Handbooks or equivalent.
 - (e) Ensure construction site or industrial facility operators provide a Waste Discharge Identification Number for coverage under the CGP and IGP and comply with the appropriate permit.
 - (f) Review designs and proposals for new development and redevelopment to determine whether adequate BMPs will be installed, implemented, and maintained during construction and after final stabilization (post-construction).
 - (g) Promptly cease and desist discharges and/or cleanup and abate a discharge, including the ability to:
 - 1) Effectively require the discharger to abate and clean up their discharge, spill, or pollutant release within 72 hours of notification;
 - 2) Require abatement, within 30 days of notification, for uncontrolled sources of pollutants that could pose an environmental threat;

- 3) Perform the cleanup and abatement work and bill the responsible party, if necessary;
- 4) Provide the option to order the cessation of activities until such problems are adequately addressed if a situation persists where pollutant-causing sources or activities are not abated;
- 5) Require a new timeframe and notify the appropriate Regional Water Board when all parties agree that clean-up activities cannot be completed within the original timeframe and notify the appropriate Regional Water Board in writing within five business days of the determination that the timeframe requires revision.
- (iii) **Reporting** All Permittees shall submit by the second year online Annual Report, a statement signed by both the Permittee's legal counsel and an authorized signatory certifying the Permittee has adequate legal authority to comply with all Order requirements.

F.5.b. EDUCATION AND OUTREACH PROGRAM

F.5.b.1. Compliance Participation Options

All Permittees shall comply with the requirements in this Section by participating in one or more of the following:

- (a) Contributing to a countywide storm water program, as determined appropriate by the Permittee members, so that the countywide storm water program conducts education and outreach on behalf of its members; or
- (b) Contributing to a regional education and outreach collaborative effort (a regional education and outreach collaborative effort occurs when all or a majority of the Permittees collaborate to conduct regional education and outreach. Regional education and outreach collaboration includes Permittees defining a uniform and consistent message, deciding how best to communicate the message, and how to facilitate behavioral changes. Then collaboratively apply what is learned through local jurisdiction groups, pooling resources and skills.); or
- (c) Fulfilling education and outreach requirements within their jurisdictional boundaries on their own. Some level of coordination of education and outreach efforts with an adjacent Phase I MS4 Permittee is recommended/anticipated for watershed/region-wide consistency.; or
- (d) A combination of the previous options, so that all requirements are fulfilled.

Reporting – By the first year online Annual Report, the Permittee shall submit information indicating which compliance participation option it will use to comply with the public education and outreach requirements in this Section. For each public education and outreach requirement in this Section that the Permittee will comply with through contribution to a countywide storm water program or regional education and outreach collaborative effort, the Permittee shall include in the first year online Annual Report documentation, such as a written agreement, letter or similar document, which confirms the collaboration with other MS4s.

F.5.b.2. Public Education and Outreach

The public for a Non-traditional MS4 Permittee is considered the following, if applicable:

- Faculty
- Inmates
- Military personnel
- Residents
- Students
- Staff
- Visitors
- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall develop and implement a comprehensive storm water public education and outreach program. The public education and outreach program shall be designed to inform the public about storm water pollution and steps that can be taken to reduce storm water pollution. The Public Education and Outreach Program shall measurably increase the public's knowledge regarding the storm drain system, impacts of urban runoff and illicit discharges on receiving waters, and potential BMP solutions for the target audiences.
- (ii) Implementation Level -The Permittee shall, at a minimum:
 - (a) Develop and implement a public education strategy that establishes education tasks based on water quality problems, target audiences, and anticipated task effectiveness. The strategy must include identification of who is responsible for implementing specific tasks and a schedule for task implementation. The strategy must demonstrate how specific high priority storm water quality issues in their jurisdiction or local pollutants of concern are addressed.
 - (b) Implement BMPs that gauge level of awareness in target audiences and effectiveness of education tasks.
 - (c) Develop and convey a specific storm water message that focuses on the following:
 - 1) Local pollutants of concern
 - 2) Target audience
 - 3) Regional water quality issues
 - (d) Develop and disseminate appropriate educational materials to target audiences and translate into applicable languages when appropriate (e.g. the materials can utilize various media such as printed materials, billboard and mass transit advertisements, signage at select locations, stenciling at storm drain inlets, radio advertisements, television advertisements, and websites);
 - (e) Distribute educational materials, using whichever methods and procedures determined appropriate during development of the public education strategy;
 - (f) Develop and convey messages to explain the benefits of water-efficient landscaping (if appropriate);
 - (g) Utilize information from storm water-friendly landscaping³⁰ programs (if appropriate);

³⁰ For example, Surfrider's Ocean Friendly Garden Program (http://www.surfrider.org/programs/entry/ocean-friendly-gardens)

- (h) Develop and convey messages specific to reducing illicit discharges with information about how the public can report incidents to the appropriate authorities;
- (i) Develop and convey of messages specific to proper application of pesticides, herbicides, and fertilizers;
- (j) Within the Permittee's jurisdiction, provide independent, parochial and public schools with materials to effectively educate school-age children, if applicable, about storm water and how they can help to protect water quality habitat in their local watersheds. The Permittee is encouraged to use environmental and place-based, experiential learning materials that are integrated into school curricula and school facility management³¹. In the case that a local program does not exist, the Permittee may use California's Education and Environment Initiative Curriculum³² or equivalent;
- (k) Develop (or coordinate with existing effective programs) and convey messages specific to reducing discharges from pressure washing operations and landscape irrigation;
- (I) If applicable, utilize storm water-friendly education for organized car wash participants and provide information pertaining to car wash discharge reduction. The Permittee may use the Sacramento Stormwater Quality Partnership's River Friendly Carwash Program³³, or equivalent, for guidance;
- (m) The Permittee shall conduct focused education in identified illicit discharge flow areas based on identified illicit discharge(s).
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance directions.

F.5.b.3. Staff and Site Operator Training and Education: Illicit Discharge Detection and Elimination Training

- (i) Task Description Permittees shall develop and implement a training program for all Permittee staff, who, as part of their normal job responsibilities, may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection to the storm drain system.
- (ii) **Implementation Level** Within the third year of the effective date of the permit, the Permittee shall develop the training program. The training program shall include at a minimum:
 - (a) Identification of an illicit discharge or illegal connection;
 - (b) Proper procedures for reporting and responding to the illicit discharge or illegal connection;
 - (c) Follow-up training provided as needed to address changes in procedures, techniques, or staffing;

³¹ For example, Splash (www.sacsplash.org/),Effie Yeaw Nature Center (www.sacnature.net) or Yolo Basin (www.yolobasin.org)

³² http://www.californiaeei.org/

http://www.beriverfriendly.net/riverfriendlycarwashing/

- (d) Annual assessment of their trained staff's knowledge of illicit discharge response and shall provide refresher training as needed;
- (e) Training of new staff who, as part of their normal job responsibilities may be notified of, come into contact with, or otherwise observe an illicit discharge or illegal connection;
- (f) Contact information, including the procedure for reporting an illicit discharge, shall be included in each of the Permittee's fleet vehicles that are used by field staff.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance directions.

F.5.b.4. Staff Pollution Prevention and Good Housekeeping

The Permittee shall train employees on how to incorporate pollution prevention/good housekeeping techniques into Permittee operations.

- (i) Task Description The Permittee shall provide a biennial training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices in the Pollution Prevention/Good Housekeeping for Permittee Operations sections of this permit. The Permittee shall determine the need for interim training during alternate years when training is not conducted, through an evaluation of employee Pollution Prevention/Good Housekeeping knowledge.
- (ii) **Implementation Level** The biennial training program shall include the following:
 - (a) General storm water education component, any new technologies, operations, or responsibilities that arise during the year and the permit requirements which apply to the staff being trained. Clear guidance on appropriate storm water BMPs to use at Permittee owned facilities and during typical Operation and Maintenance activities.
 - (b) An assessment of trained staff's knowledge of pollution prevention and good housekeeping and shall revise the training as needed.
 - (c) A requirement that any contractors hired by the Permittee to perform Operation and Maintenance activities shall be contractually required to comply with all of the storm water BMPs, good housekeeping practices, and standard operating procedures described above.
 - (d) The Permittee shall provide oversight of contractor activities to ensure that contractors are using appropriate BMPs, good housekeeping practices and following standard operating procedures.
- (iii) **Reporting –** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of

this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance directions.

F.5.c. PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

- (i) Task Description Within the third year of the effective date of the permit, the Permittee shall involve its public in the development and implementation of activities related to the program. The public participation and involvement program shall encourage volunteerism, public comment and input on policy, and activism in the community.
- (ii) **Implementation Level** The Permittee shall, at a minimum:
 - (a) Ensure that high priority storm drain inlets include a labeled, stenciled or other effective method (e.g., clearly visible sign strategically placed in area of high pedestrian activity) of communicating a storm water awareness message such as "drains to creek" or "only rain in the drain".
 - (b) Integrate storm water awareness messages and information on a publicly accessible website
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.i.2.for compliance

F.5.d. ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Permittee shall develop an Illicit Discharge Detection and Elimination program to detect, investigate, and eliminate illicit discharges, including illegal dumping, into its system or coordinate with an adjacent Phase I MS4 Permittees existing program. The existing program, at a minimum, must include the provisions in this section.

F.5.d.1 Outfall Mapping

(i) **Task Description** – Within the second year of the effective date of the permit, the Permittee shall maintain an up-to-date and accurate outfall map. The map may be in hard copy and/or electronic form or within a geographic information system (GIS). The development of the outfall map shall include a visual outfall inventory involving a site visit to each outfall. It is recommended the Permittee coordinate with an adjacent Phase I MS4 Permittee to collect outfall data for which they may discharge to. Renewal Permittees that have an existing and up-to-date outfall map that includes the minimum requirements specified in Section F.5.d.1.(ii)(a-b) are not required to recreate the outfall map. This does not exempt renewal Permittees with an existing outfall map from conducting the field sampling specified in Section F.5.d.2.

- (ii) **Implementation Level** The outfall map shall at a minimum show:
 - (a) The location of all outfalls and drainage areas within the urbanized area, contributing to those outfalls that are operated by the Permittee, and that directly discharge within the Permittee's jurisdiction to a receiving water. Each mapped outfall shall be given an individual alphanumeric identifier, which shall be noted on the map. Photographs shall be taken or an electronic database shall be utilized to provide baseline information and track operation and maintenance needs over time.
 - (b) The location (and name, where known to the Permittee) of all water bodies receiving direct discharges from those outfall pipes.

Submerged outfalls or other outfalls that may pose a threat to public safety are not required to be inventoried.

(iii) **Reporting** – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.d.2. Field Sampling to Detect Illicit Discharges

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall conduct field sampling to detect potential illicit discharges while conducting the outfall inventory specified in Section F.5.d. Outfall Inventory. If while conducting the outfall inventory specified in Section F.5.d., an outfall is flowing or ponding and it has been more than 72 hours since the last rain event, then the Permittee shall sample the discharge.
- (ii) **Implementation Level** If an outfall is flowing or ponding and it has been more than 72 hours since the last rain event, the Permittee shall:
 - (a) Conduct monitoring for the following indicator parameters identified in <u>Table 1</u>. Field Sampling Indicator Parameters (following page) to help determine the source and identification of the discharge. Alternatively, the Permittee may select parameters based on local knowledge of pollutants of concern in lieu of sampling for the parameters listed in Table 1. Modifications and associated justifications shall be identified within SMARTS prior to conducting field sampling as specified in Section F.5.d.2.

Table 1. Field Sampling Indicator Parameters

Indicator Parameters Used to Detect Illicit Discharges						
Dovemeter	Discharge Types It Can Detect					
Parameter	Sewage	Washwater	Tap Water	Industrial or Commercial Liquid Wastes	Laboratory/Analytical Challenges	
Ammonia	•	•	0	•	Can change into other nitrogen forms as the flow travels to the outfall	
Color	•	•	0	•		
Conductivity	•	•	0	•	Ineffective in saline waters	
Detergents – Surfactants	•	•	0	•	Reagent is a hazardous waste	
Fluoride*	0	0	•	•	Reagent is a hazardous waste Exception for communities that do not fluoridate their tap water	
Hardness	•	•	•	•		
рН	0	•	0	•		
Potassium	•	0	0	•	May need to use two separate analytical techniques, depending on the concentration	
Turbidity	•	•	0	0		

Can almost always (>80% of samples) distinguish this discharge from clean flow types (e.g., tap water or natural water). For tap water, can distinguish from natural water.

Data sources: Pitt (this study)

(c) Verify that indicator parameters with the following action level concentrations specified in <u>Table 2</u>. Action <u>Level Concentrations for Indicator Parameters</u> are not exceeded. Alternatively, the Permittee may tailor Table 2 to align with parameters based on local knowledge of pollutants of concern. Modifications and associated justifications shall be identified within SMARTS prior to conducting field sampling as specified in Section F.5.d.2.:

Table 2. Action Level Concentrations for Indicator Parameters

Indicator	Action Level Concentration		
Parameter			
Ammonia	>= 50 mg/L		
Color	>= 500 units		
Conductivity	>= 2,000 µS/cm		
Hardness	<= 10 mg/L as CaCO3 or >= 2,000 mg/L as CaCO3		
pН	<= 5 or >=9		
Potassium	>= 20 mg/L		
Turbidity	>= 1,000 NTU		

Can sometimes (>50% of samples) distinguish this discharge from clean flow types depending on regional characteristics, or can be helpful in combination with another parameter

O Poor indicator. Cannot reliably detect illicit discharges, or cannot detect tap water

N/A: Data are not available to assess the utility of this parameter for this purpose.

^{*}Fluoride is a poor indicator when used as a single parameter, but when combined with additional parameters (such as detergents, ammonia and potassium), it can almost always distinguish between sewage and wash water.

- (d) Conduct follow up investigations per Section F.5.d.3. if the action level concentrations are exceeded.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.i.2.for compliance

F.5.d.3. Illicit Discharge Detection and Elimination Source Investigations and Corrective Actions

- (i) Task Description Within the second year of the effective date of the permit, the Permittee shall develop written procedures for conducting investigations into the source of all non-storm water discharges suspected to be illicit discharges, including approaches to requiring such discharges to be eliminated, and procedures to implement corrective actions (e.g., BMPs). These procedures shall be included as part of the Illicit Discharge Detection and Elimination program.
- (ii) Implementation Level At a minimum, the Permittee shall conduct an investigation(s) to identify and locate the source of any suspected illicit discharge within 72 hours of becoming aware of the suspected illicit discharge. For investigations that require more than 72 hours, the Permittee shall identify the actions being taken to identify and locate the source of the suspected illicit discharge. The Permittee shall prioritize investigations of suspected sanitary sewage and/or significant contributors over investigations of non-storm water discharges suspected of being cooling water, wash water, or natural flows.
 - (a) Report immediately the occurrence of any dry weather flows believed to be an immediate threat to human health or the environment to local Health Department.
 - (b) Determine and document through its investigations the source of all non-storm water discharges. If the source of the non-storm water discharge is found to be a discharge authorized under this permit, or authorized under another NPDES permit, no further action is required.
 - (c) Corrective Action to Eliminate Illicit Discharge Once the source of the illicit discharge has been determined, the Permittee shall immediately notify the responsible party of the problem.
 - (d) Report immediately to the owners/operators of the downstream MS4 a non-storm water discharge suspected of being sanitary sewage and/or significantly contaminated.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of

this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance

F.5.e. CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

The Permittee shall develop, implement, and enforce a program to prevent Construction site discharges of pollutants and impacts on beneficial uses of receiving waters. The program shall include the development of contract language ensuring the Permittee's in-house construction operators or outside contractors comply with the CGP.

- (i) **Task Description –** Within the first year of the effective date of the permit, each Permittee shall develop and implement contract language ensuring all outside contractors comply with the CGP and implement appropriate BMPs. Contract language shall apply to all projects that result in a total land disturbance of either one acre or more or that result in a total land disturbance of less than one acre if part of a larger common plan or development or sale.
- (ii) Implementation Level The Permittee shall include CGP compliance requirements in construction contract language for all projects one acre or more or that result in a total land disturbance of less than one acre if part of a larger common plan or development or sale.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR PERMITTEE OPERATIONS PROGRAM

The Permittee shall develop and implement a program to prevent or reduce the amount of pollutant runoff from Permittee operations. The Permittee shall train employees on how to incorporate pollution prevention/good housekeeping techniques into Permittee operations. Permittee shall implement appropriate BMPs for preventing or reducing the amount of storm water pollution generated by Permittee operations.

F.5.f.1. Inventory of Permittee-Owned or Operated Facilities

- (i) **Task Description** Prepare an inventory of Permittee-owned or operated facilities within their jurisdiction that are a threat to water quality, and are not covered by another storm water General Permit.
- (ii) **Implementation Level** Within the second year of the effective date of the permit, the Permittee shall develop and maintain an inventory that shall include facilities that may impact storm water.

(iii) **Reporting** – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.2. Map of Permittee-Owned or Operated Facilities

- (i) **Task Description –** Within the second year of the effective date of the permit, prepare and submit a map of the urban area covered by the MS4 permit and identify where the Permittee-owned or operated facilities are located.
- (ii) Implementation Level The Permittee shall complete and have available a map that identifies the storm water drainage system corresponding to each of the facilities as well as the receiving waters to which these facilities discharge. The map shall also show the facility and the manager of each facility, including contact information. Historic storm water collection facilities, conveyances and drainages located at historic places that are being operated for public interpretation and education shall be noted on this map so that the Regional Water Board can differentiate between modern and historic during site reviews or audits.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.i.2.for compliance.

F.5.f.3. Facility Assessment

- (i) **Task Description** –Within the third year of the effective date of the permit, conduct an inspection and assessment of pollutant discharge potential and pollutant hotspots.
- (ii) **Implementation Levels** The Permittee shall conduct an annual review and assessment of all Permittee-owned or operated facilities to determine their potential to impact surface waters. The assessment shall include the following:
 - (a) Identification of pollutant hotspots based on the assessment, the Permittee shall identify as pollutant hotspots those facilities that have a high potential to generate storm water and non-storm water pollutants. Among the factors to be considered are the type and volume of pollutants stored at the site, the presence of improperly stored materials, activities that should not be performed outside (e.g., changing automotive fluids, vehicle washing), proximity to water bodies, poor housekeeping practices, and the discharge of pollutant(s) of concern to receiving water(s). Pollutant hotspots shall include, at a minimum, the Permittee's maintenance yards, hazardous waste facilities, fuel storage

- locations, and any other facilities at which chemicals or other materials have a high potential to be discharged in storm water.
- (b) Documentation of the assessment procedures and results. The Permittee shall document the procedures it uses for conducting the assessment along with a copy of any site evaluation checklists used to conduct the assessment.
- (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.4. Storm Water Pollution Prevention Plans

- (i) Task Description the Permittee shall develop and implement SWPPPs for pollutant hotspots at high priority sites. If a Permittee has an existing or equivalent document such as Hazardous Materials Business Plan or Spill Prevention Plan, the Permittee is not required to develop a SWPPP if that document includes the necessary information required within a SWPPP.
- (ii) **Implementation Level** Within the fourth year of the effective date of this permit, the Permittee shall implement the following:
 - (a) The Permittee shall develop and implement a site-specific SWPPP that identifies a set of storm water BMPs to be installed, implemented, and maintained to minimize the discharge of pollutants in storm water.
 - (b) The SWPPP(s) shall be kept on-site at each of the Permittee-owned or operated facilities' offices for which it was completed. The SWPPP shall be updated as necessary.
 - (c) At a minimum the SWPPP will address the following:
 - 1) Facility specific information (location, owner, address, etc.)
 - 2) Purpose of the document
 - 3) Key staff/contacts at the facility
 - 4) Site map with drainage identified
 - 5) Identification of significant materials that are handled and stored at the facility that may be exposed to storm water
 - 6) Description of potential pollutant sources
 - 7) BMPs employed at facility
 - 8) Spill control and cleanup response to spills
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment

and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.5. Inspections, Visual Monitoring and Remedial Action

- (i) **Task Description** –Within the fifth year of the effective date of the permit, the Permittee shall conduct regular inspections of Permittee-owned and operated facilities not covered by another storm water General Permit. The Permittee may incorporate storm water inspections into existing, routine facility inspections.
- (ii) Implementation Level The Permittee shall conduct inspections as follows:
 - (a) Quarterly hotspot visual inspections Perform quarterly visual inspections in accordance with the developed standing operating procedures of all hotspot Permittee-owned or operated facilities to ensure materials and equipment are clean and orderly, to minimize the potential for pollutant discharge, and to ensure implementation of BMPs. The Permittee shall look for evidence of spills and immediately clean them up to prevent contact with precipitation or runoff. The quarterly inspections shall be tracked in a log for every facility, and records kept with the SWPPP. The inspection report shall also include any identified deficiencies and the corrective actions taken to correct the deficiencies.
 - (b) Quarterly Hotspot comprehensive inspections At least once per quarter, a comprehensive inspection of hotspot facilities, including all storm water BMPs, shall be performed, with specific attention paid to the following, but not limited to waste storage areas, dumpsters, vehicle and equipment maintenance/fueling areas, material handling areas, and similar potential pollutant-generating areas. The quarterly inspection results shall be documented and records kept with the SWPPP. This inspection shall be performed in accordance with the developed standard operating procedures. The inspection report shall also include any identified deficiencies and the corrective actions taken to correct deficiencies.
 - (c) Quarterly Hotspot visual observation of storm water and non-storm water discharges – At least once per quarter, visually observe discharge location from hotspot facilities. Where discharges are observed identify any observed problems (e.g., color, foam, sheen, turbidity) associated with pollutant sources or BMPs shall be remedied within seven days or before the next storm event, whichever is sooner. Visual observations shall be documented, and records kept with the SWPPP. This inspection shall be done in accordance with the developed standard operating procedures. The inspection report shall also include any identified deficiencies and the corrective actions taken to correct the deficiencies.
 - (d) Non-Hotspot Inspection At a minimum, inspect each inventoried facility that is not a hotspot, once per permit term. The inspection shall investigate and assess each of the items identified above.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the

program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.i.2.for compliance.

F.5.f.6. Storm Drain System Assessment and Prioritization

- (i) **Task Description** –Within the second year of the effective date of the permit, the Permittee shall develop and implement procedures to assess and prioritize the MS4 storm drain system, including but not limited to catch basins, pipe and pump infrastructure, above-ground conveyances, including receiving waterbodies within the Permittee's urbanized area and detention basins.
- (ii) Implementation Level The Permittee shall:

Assess/prioritize storm drain system facilities for cleanout— Assign a priority to all storm drain system facilities within the Permittee's urbanized areas based on accumulation of sediment, trash and/or debris. In particular, assign high priority to catch basins meeting the following criteria:

- 1) Catch basins known to accumulate a significant amount of sediment, trash, and/or debris;
- 2) Catch basins collecting large volumes of runoff;
- 3) Catch basin collecting runoff from area that do not receive regular sweet sweeping;
- 4) Catch basins collecting runoff from drainage areas with exposed or disturbed soil; and
- 5) Catch basins that receive citizen complaints/reports.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.7. Maintenance of Storm Drain System

- (i) **Task Description** –The Permittee shall begin maintenance of all high priority storm drain systems at least annually prior to the rainy season.
- (ii) **Implementation Level** Within the third year of the effective date of the permit, the Permittee shall begin a maintenance program of high priority storm drain systems that, at a minimum includes:
 - (a) Storm drain systems inspection Based on the priorities assigned above, in Section F.5.f.6, develop a strategy to inspect storm drain systems within the Permittee's jurisdiction. At a minimum, inspect all catch basins of high priority systems annually, prior to the rainy season.

- (b) Storm drain cleaning Develop and implement a schedule to clean high priority catch basins and other systems. Cleaning frequencies shall be based on priority areas, with higher priority areas receiving more frequent maintenance.
- (c) Maintenance of surface drainage structures –Visually monitor all Permitteeowned open channels, detention basins, and other drainage structures for debris at least once per year and identify and prioritize problem areas. At a minimum, removal of trash and debris from open channels and other drainage structures shall occur annually.
- (d) Disposal of waste materials Develop a procedure to dewater and dispose of materials extracted from catch basins. This procedure shall ensure that water removed during the catch basin cleaning process and waste material will not reenter the MS4.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.8. Permittee Operations and Maintenance Activities (O&M)

- (i) **Task Description** –The Permittee shall assess their O&M activities for potential to discharge pollutants in storm water and inspect all BMPs on a quarterly basis.
- (ii) **Implementation Level** Within the third year of the effective date of the permit, the Permittee shall:
 - (a) Develop and implement O&M activity assessment. The O&M activities assessment shall include, but not be limited to, the potential to discharge pollutants in storm water.
 - (b) Identify all materials that could be discharged from each of these O&M activities.
 - (c) Develop and implement a set of BMPs that, when applied during Permittee O&M activities, will reduce the discharge of pollutants in storm water. The Permittee shall use the CASQA Municipal Handbook or equivalent.
 - (d) Evaluate annually all BMPs implemented during O&M activities.
 - (iii) Reporting The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm

water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.f.9. Pesticide, Herbicide, and Fertilizer Application and New Landscape Design and Maintenance Management

- (i) Task Description –The Permittee shall implement a program which focuses on pollution prevention, source control BMPs, and landscape design and maintenance to reduce the amount of pesticides, herbicides and fertilizers used during their Permittee operations and activities. The Permittee shall implement the landscape design and maintenance on new or decorative landscapes.
- (ii) **Implementation Tasks** Within the second year of the effective date of the permit, the Permittee shall implement the following:
 - (a) Evaluate pesticides, herbicides and fertilizers used and application activities performed to identify pollution prevention and source control opportunities.
 - (b) Implement practices that reduce the discharge of pesticides, herbicides and fertilizers. At a minimum the Permittee shall do the following, but not limited to:
 - 1) Educate applicators and distributors of storm water issues.
 - 2) Implement integrated pest management measures that rely on nonchemical solutions, including:
 - a) Use of native and climate appropriate plants (reduces water usage and fertilization) for decorative landscape applications
 - b) Keeping clippings and leaves away from waterways and out of the street using mulching, composting, or landfilling
 - c) Preventing application of pesticides and fertilizers when two or more consecutive days with greater than 50% chance of rainfall are predicted by NOAA³⁴
 - d) Limiting or replacing herbicide and pesticide use (e.g., conducting manual weed and insect removal)
 - e) Limiting or eliminating the use of fertilizers, including prohibiting application within five feet of pavement, 25 feet of a storm drain inlet, or 50 feet of a water body
 - Reducing mowing of grass to allow for greater pollutant removal, but not jeopardizing public safety
 - Collect and properly dispose of unused pesticides, herbicides, and fertilizers.
 - 4) Minimize irrigation run-off.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm

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³⁴ www.srh.noaa.gov/forecast

water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.g. POST CONSTRUCTION STORM WATER MANAGEMENT PROGRAM

Permittees shall regulate development to comply with the following Sections:

- F.5.g.1. Site Design Measures
- F.5.g.2. Low Impact Development Design Standards
- F.5.g.3. Alternative Post-Construction Storm Water Management Program
- F.5.g.4. Operation and Maintenance of Post Construction Storm Water Management Measures

Non-traditional Permittees with Regional Water Board approved post-construction storm water management requirements based on a watershed process approach, as described in Section E.12.j. Post-Construction Storm Water Management Requirements Based on Assessment and Maintenance of Watershed Processes, shall implement those post-construction requirements in lieu of Section F.5.g. Post Construction Storm Water Management Program.

F.5.g.1. Site Design Measures

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall require implementation of site design measures for all projects that create and/or replace (including projects with no net increase in impervious footprint) between 2,500 square feet and 5,000 square feet of impervious surface, including detached single family homes that are not part of a larger plan of development.
- (ii) **Implementation Level** Projects shall implement one or more of the following site design measures to reduce project site runoff:
 - (a) Stream Setbacks and Buffers a vegetated area including trees, shrubs, and herbaceous vegetation, that exists or is established to protect a stream system, lake reservoir, or coastal estuarine area;
 - (b) Soil Quality Improvement and Maintenance improvement and maintenance soil through soil amendments and creation of microbial community;
 - (c) Tree planting and preservation planting and preservation of healthy, established trees that include both evergreens and deciduous, as applicable;
 - (d) Rooftop and Impervious Area Disconnection rerouting of rooftop drainage pipes to drain rainwater to rain barrels, cisterns, or permeable areas instead of the storm sewer;
 - (e) Porous Pavement pavement that allows runoff to pass through it, thereby reducing the runoff from a site and surrounding areas and filtering pollutants;
 - (f) Green Roofs a vegetative layer grown on a roof (rooftop garden);
 - (g) Vegetated Swales a vegetated, open-channel management practice designed specifically to treat and attenuate storm water runoff;
 - (h) Rain Barrels and Cisterns system that collects and stores storm water runoff from a roof or other impervious surface.

Project proponents shall use the State Water Board SMARTS Post-Construction Calculator³⁵, or equivalent to quantify the runoff reduction resulting from implementation of site design measures.

(iii) **Reporting** - The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.g.2. Low Impact Development (LID) Design Standards

- (i) **Task Description** Within the second year of the effective date of the permit, the Permittee shall implement standards to effectively reduce runoff and pollutants associated with runoff from development projects.
 - (ii) Implementation Level The Permittee shall regulate all development projects that create and/or replace 5,000 square feet or more of impervious surface (Regulated Projects). The Permittee shall require these Regulated Projects to implement measures for site design, source control, runoff reduction, storm water treatment and baseline hydromodification management as defined in this Order.

Regulated Projects do not include:

- (a) Interior remodels;
- (b) Routine maintenance or repair such as: exterior wall surface replacement, roof replacement or pavement resurfacing within the existing footprint.

Regulated Projects include development projects. Development includes new and redevelopment projects on public or private land that fall under the planning and permitting authority of a Permittee. Redevelopment is any land-disturbing activity that results in the creation, addition, or replacement of exterior impervious surface area on a site on which some past development has occurred. The following (a-c) describe specific Regulated Project requirements for redevelopment and road projects:

- (a) Where a redevelopment project results in an increase of more than 50 percent of the impervious surface of a previously existing development, runoff from the entire project, consisting of all existing, new, and/or replaced impervious surfaces, must be included to the extent feasible.
- (b) Where a redevelopment project results in an increase of less than 50 percent of the impervious surface of a previously existing development, only runoff from the new and/or replaced impervious surface of the project must be included.

³⁵ The State Water Board SMARTS Post-Construction Calculator can be found at: https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp

- (c) Road Projects Any of the following types of road projects that create 5,000 square feet or more of newly constructed contiguous impervious surface and that are public road projects and/or fall under the building and planning authority of a Permittee shall comply with Low Impact Development Standards except that treatment of runoff of the 85th percentile 24-hour storm runoff event) that cannot be infiltrated onsite shall follow U.S. EPA guidance regarding green infrastructure to the extent feasible. Types of projects include:
 - (1) Construction of new streets or roads, including sidewalks and bicycle lanes built as part of the new streets or roads which create 5,000 square feet or more of impervious surface.
 - (2) Widening of existing streets or roads with additional traffic lanes.
 - a) Where the addition of traffic lanes results in an alteration of more than 50 percent of the impervious surface (5,000 square feet or more) of an existing street or road, runoff from the entire project, consisting of all existing, new, and/or replaced impervious surfaces, must be included in the treatment system design.
 - b) Where the addition of traffic lanes results in an alteration of less than 50 percent (but 5,000 square feet or more) of the impervious surface of an existing street or road, only the runoff equivalent from new and/or replaced impervious surface of the project must be included in the treatment system design.
 - (3) Specific exclusions are:
 - a) Sidewalks built as part of new streets or roads and built to direct storm water runoff to adjacent vegetated areas.
 - b) Bicycle lanes that are built as part of new streets or roads that direct storm water runoff to adjacent vegetated areas.
 - c) Impervious trails built to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas, preferably away from creeks or towards the outboard side of levees.
 - (d) Sidewalks, bicycle lanes, or trails constructed with permeable surfaces.

Effective Date for Applicability of Low Impact Development Runoff Standards to Regulated Projects: By the second year of the effective date of the permit, the Permittee shall require these Post-Construction Standards be applied on applicable new and redevelopment Regulated Projects. These include Regulated Projects that have not been deemed complete for processing, Regulated Projects without vesting tentative maps that have not requested and received an extension of previously granted approvals, and Regulated Projects that have received Project Planning Guide funding. Discretionary projects that have been deemed complete prior to the second year of the effective date of this permit are not subject to the Post-Construction Standards herein. For the Permittee's Regulated Projects, the effective date shall be the date their governing body or designee approves initiation of the project design.

Permittee's Development Projects - The Permittee shall develop and implement an equivalent approach, to the approach used for private development projects, to apply the most current version of the low impact development runoff standards to applicable public development projects.

Where Project Planning Guide funding is applicable, Permittees shall ensure that adequate funding is available to implement post-construction treatment measures for Regulated Projects approved after the effective date of this permit.

Where State of California project approvals are applicable, Permittees shall implement post-construction treatment measures for Regulated Projects approved after the effective date of this permit.

F.5.g.2.a. Source Control Measures

- (i) **Task Description** Regulated Projects with pollutant-generating activities and sources shall be required to implement standard permanent and/or operational source control measures as applicable.
- (ii) Implementation Level Measures for the following pollutant-generating activities and sources shall be designed consistent with recommendations from the CASQA Stormwater BMP Handbook for New Development and Redevelopment or equivalent manual, and include:
 - (a) Accidental spills or leaks
 - (b) Interior floor drains
 - (c) Parking/Storage area maintenance
 - (d) Indoor and structural pest control
 - (e) Landscape/outdoor pesticide use
 - (f) Pools, spas, ponds, decorative fountains, and other water features
 - (g) Restaurants, grocery stores, and other food service operations
 - (h) Storage and handling of solid waste
 - (i) Outdoor storage of equipment or materials
 - (j) Vehicle and equipment cleaning
 - (k) Vehicle and equipment repair and maintenance
 - (I) Fuel dispensing areas
 - (m) Loading docks
 - (n) Fire sprinkler test water
 - (o) Drain or wash water from boiler drain lines, condensate drain lines, rooftop equipment, drainage sumps, and other sources
 - (p) Unauthorized non-storm water discharges
 - (q) Building and grounds maintenance

F.5.g.2.b. Numeric Sizing Criteria for Storm Water Retention and Treatment

The Permittees shall require facilities designed to evapotranspire, infiltrate, harvest/use, and biotreat storm water to meet at least one of the following hydraulic sizing design criteria:

(1) Volumetric Criteria:

- a) The maximized capture storm water volume for the tributary area, on the basis of historical rainfall records, determined using the formula and volume capture coefficients in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998) pages 175-178 (that is, approximately the 85th percentile 24-hour storm runoff event); or
- b) The volume of annual runoff required to achieve 80 percent or more capture, determined in accordance with the methodology in Section 5 of CASQA's Stormwater Best Management Practice Handbook, New Development and Redevelopment (2003), using local rainfall data.

(2) Flow-based Criteria

- a) The flow of runoff produced from a rain event equal to at least 0.2 inches per hour intensity; or
- b) The flow of runoff produced from a rain event equal to at least 2 times the 85th percentile hourly rainfall intensity as determined from local rainfall records.
- **F.5.g.2.c.** Site Design Measures as defined in Section F.5.g.1. shall be based on the objective of achieving infiltration, evapotranspiration and/or harvesting/reuse of the 85th percentile rainfall event, to the extent feasible, to meet Section F.5.g.2.b. Numeric Sizing Criteria for Storm Water Retention and Treatment. Site design measures shall be used to reduce the amount of runoff, to the extent technically feasible, for which retention and runoff is required. Any remaining runoff from impervious DMAs may then be directed to one or bioretention facility as specified in Section F.5.g.2.d. Storm Water Treatment Measures and Baseline Hydromodification Management Measures, described below.
- **F.5.g.2.d. Storm Water Treatment Measures and Baseline Hydromodification Management Measures** After implementation of Site Design Measures in F.5.g.2.c., runoff from remaining impervious DMAs must be directed to one or more facilities designed to infiltrate, evapotranspire, and/or biotreat the amount of runoff specified in Section F.5.g.2.b. Numeric Sizing Criteria for Storm Water Retention and Treatment. The facilities must be demonstrated to be at least as effective as a bioretention system with the following design parameters.
 - (1) Maximum surface loading rate of 5 inches per hour, based on the flow rates calculated. A sizing factor of 4% of tributary impervious area may be used.
 - (2) Minimum surface reservoir volume equal to surface area times a depth of 6 inches.
 - (3) Minimum planting medium depth of 18 inches. The planting medium must sustain a minimum infiltration rate of 5 inches per hour throughout the life of the project and must maximize runoff retention and pollutant removal. A mixture of sand (60%-70%) meeting the specifications of American Society for Testing and Materials (ASTM) C33 and compost (30%-40%) may be used.

- (4) Subsurface drainage/storage (gravel) layer with an area equal to the surface area and having a minimum depth of 12 inches.
- (5) Underdrain with discharge elevation at top of gravel layer.
- (6) No compaction of soils beneath the facility, or ripping/loosening of soils if compacted.
- (7) No liners or other barriers interfering with infiltration.
- (8) Appropriate plant palette for the specified soil mix and maximum available water use.
- a) Alternative Designs for Bioretention Facilities Facilities, or a combination of facilities, of a different design than in Section F.5.g.2.d. may be permitted if the following measures of equivalent effectiveness are demonstrated:
 - (1) Equal or greater amount of runoff infiltrated or evapotranspired
 - (2) Equal or lower pollutant concentrations in runoff that is discharged after bioretention
 - (3) Equal or greater protection against shock loadings and spills
 - (4) Equal or greater accessibility and ease of inspection and maintenance
- b) Allowed Adjustments for Bioretention Facilities for Special Site Conditions The bioretention design parameters as specified in Section F.5.g.2.d. may be adjusted for the following special site conditions:
 - (1) Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project may incorporate an impervious cutoff wall between the bioretention facility and the structure or other geotechnical hazard.
 - (2) Facilities in areas with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures may incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a "flow-through planter").
 - (3) Facilities located in areas of highly infiltrative soils or high groundwater, or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible, may omit the underdrain.
- c) Exceptions to Requirements for Bioretention Facilities Contingent on a demonstration that use of bioretention or a facility of equivalent effectiveness is infeasible, other types of biotreatment or media filters (such as tree-box-type biofilters or in-vault media filters) may be used for the following:
 - Projects creating or replacing an acre or less of impervious area, and located in a designated pedestrian-oriented commercial district (i.e., smart growth projects), and having at least 85% of the entire project site covered by permanent structures;
 - (2) Facilities receiving runoff solely from existing (pre-project) impervious areas:
 - (3) Historic sites, structures, or landscapes that cannot alter their original configuration in order to maintain their historic integrity.

(iii) Reporting – The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.j.2.for compliance.

F.5.g.3. Alternative Post-Construction Storm Water Management Program

A Permittee may propose alternative post-construction measures in lieu of some or all of Section F.5.g. requirements for multiple benefit projects. Multiple-benefit projects include projects that may address any of the following, in addition to water quality: water supply, flood control, habitat enhancement, open space preservation, recreation, climate change. Multiple-benefit projects may be applied at various scales including project site, municipal or sub-watershed level. Multiple-benefit projects may include, but are not limited to, projects developed under Watershed Improvement Plans (Water Code §16100 et seq.), IRWMP implementation and green infrastructure projects. Multiple benefit projects must be equally or more protective of water quality than Section E.12. requirements.

The Regional Water Board or the Executive Officer may approve alternative post-construction measures for multiple-benefit projects, as described above, after an opportunity for public comment, if the Regional Water Board or Executive Officer finds that the alternative measures are consistent with the MEP standard.

F.5.g.4. Operation and Maintenance (O&M) of Post-Construction Storm Water Management Measures

- (i) **Task Description** –Within the third year of the effective date of the permit, the Permittee shall implement an O&M Verification Program for new development projects regulated under this Order.
- (ii) **Implementation Level** At a minimum, the O&M Verification Program shall include the following elements:
 - (a) Projects shall at a minimum, require at least one of the following from all project proponents and their successors in control of the Project or successors in fee title:
 - (1)Written conditions in the sales or lease agreements or deed for the project that requires the buyer or lessee to assume responsibility for the O&M of the installed treatment system(s) and hydromodification control(s) (if any) until such responsibility is legally transferred to another entity;
 - (2) Any other legally enforceable agreement or mechanism, such as recordation in the property deed, that assigns the O&M responsibility for the installed treatment system(s) and hydromodification control(s) (if any) to the project owner(s) or the Permittee.

- (b) Coordination with the appropriate mosquito³⁶ and vector control agency with jurisdiction to establish a protocol for notification of installed treatment systems and hydromodification management controls. On an annual basis, before the wet season, prepare a list of newly installed (installed within the reporting period) storm water treatment systems and hydromodification management controls to the local mosquito and vector control agency and the appropriate Regional Water Board. This list shall include the facility locations and a description of the storm water treatment measures and hydromodification management controls installed.
- (c) A database or equivalent tabular format of all projects that have installed treatment systems. This database or equivalent tabular format shall include the following information for each project:
 - (1) Name and address of the project;
 - (2) Specific description of the location (or a map showing the location) of the installed treatment system(s) and hydromodification control(s) (if any):
 - (3) Date(s) that the treatment system(s) and hydromodification controls (if any) is/are installed;
 - (4) Description of the type and size of the treatment system(s) and hydromodification control(s) (if any) installed;
 - (5) Responsible operator(s) of each treatment system and hydromodification control (if any);
 - (6) Dates and findings of inspections (routine and follow-up) of the treatment system(s) and hydromodification control(s) (if any) by the Permittee; and
 - (7) Any problems and corrective or enforcement actions taken.
- (d) Maintenance Approvals: The Permittee shall ensure that systems and hydromodification controls installed at projects are properly operated and maintained for the life of the projects. In cases where the responsible party for a treatment system or hydromodification control has worked diligently and in good faith with the appropriate State and federal agencies and the Permittee to obtain approvals necessary to complete maintenance activities for the treatment system or hydromodification management control, but these approvals are not granted, the Permittee shall be deemed to be in compliance with this Provision.
- (iii) **Reporting** The Permittee shall use State Water Board SMARTS to submit a summary of the past year activities and certify compliance with all requirements of this program element. The summary shall also address the relationship between the program element activities and the Permittee's Program Effectiveness Assessment and Improvement Plan that tracks annual and long-term effectiveness of the storm water program. If a Permittee is unable to certify compliance with a requirement in this program element see Section F.5.i.2.for compliance.

³⁶ "Best Management Practices for Mosquito Control on California State Properties" are available from the California West Nile virus website at http://www.westnile.ca.gov/resources.php. Please see Table 1, page 22, for a list of California mosquito control agencies or visit http://mvcac.org.

F.5.h. PROGRAM EFFECTIVENESS ASSESSMENT AND IMPROVEMENT

F.5.h.1. Program Effectiveness Assessment and Improvement Plan

- (i) Task Description The Permittee shall develop and implement a Program Effectiveness Assessment and Improvement Plan that tracks short and long-term progress of the storm water program. The Program Effectiveness Assessment and Improvement Plan will assist the Permittee to adaptively manage its storm water program and make necessary modifications to the program to improve program effectiveness, reduce pollutants of concern, achieve the MEP standard, and protect water quality, and to document the Permittee's compliance with permit conditions. The Program Effectiveness Assessment and Improvement Plan shall identify the strategy used to gauge the effectiveness of prioritized BMPs and program implementation as a whole. Prioritized BMPs include BMPs implemented based on pollutants of concern. Where pollutants of concern are unidentified, prioritized BMPs are based on common pollutants of concern (i.e., sediment, bacteria, trash, nutrients). The effectiveness assessments will build upon each other from one year to the next and shall identify modifications to the program the Permittee must undertake to improve effectiveness.
- (ii) Implementation Level The Program Effectiveness Assessment and Improvement Plan may be modeled upon the most recent version (if applicable) Municipal Storm Water Program Effectiveness Assessment Guidance (CASQA, May 2007) or equivalent.
 - (a) The Program Effectiveness Assessment and Improvement Plan shall include the following minimum elements:
 - (1) Implementation of storm water program elements
 - (2) Identification and targeting of Target Audience(s)
- (iii) **Reporting -** By the second year Annual Report complete and submit the Program Effectiveness Assessment and Improvement Plan. At a minimum, the Plan shall include implementation of storm water program elements and identification of the Targeted Audience(s).

F.5.h.2 Storm Water Program Modifications

- (i) Task Description Within the fifth year of the effective date of the permit, based on the information gained from the effectiveness assessment, the Permittee shall identify modifications to control measures/significant activities, including new BMPs or modification to existing BMPs. The Permittee shall consult with the Regional Water Board in setting expectations for the scope, timing, and frequency of BMP modifications for the next permit cycle.
- (ii) **Implementation Level** –The Permittee shall identify program modifications to include:
 - (a) Improving upon BMPs that did not accomplish goals;
 - (b) Continuing and expanding upon BMPs that proved to be effective, including identifying new BMPs or modifications to existing BMPs designed to increase pollutant load reductions;

- (c) Discontinuing BMPs that may no longer be productive and replacing with more effective BMPs; and
- (d) Shifting priorities to make more effective use of resources
- (iii) Reporting By the fifth year Annual Report complete and have available a list of maintenance activities of highest priority BMPs. By the fifth year Annual Report, complete and have available a summary of proposed modifications to the storm water program to improve program effectiveness, to achieve the MEP standard, and to protect water quality.

F.5.i. TOTAL MAXIMUM DAILY LOADS COMPLIANCE REQUIREMENTS

- **F.5.i.1.** The Permittee shall comply with all applicable TMDLs approved pursuant to 40 Code of Federal Regulations § 130.7 that assign a Waste Load Allocation to the Permittee and that have been identified in Attachment G.
- **F.5.i.2.** Waste Load Allocations (WLA), Load Allocations (LA), effluent limitations, implementation requirements, and monitoring requirements are specified in the adopted and approved Regional Water Board Basin Plans and authorizing resolutions which are incorporated herein by reference as enforceable parts of this Order. Applicable Basin Plan amendments and resolutions are identified in Attachment G. With the exception of the TMDLs for the Los Angeles Regional Water Board, Attachment G additionally contains a list of TMDL-specific permit requirements developed by the Regional Boards for compliance with the implementation requirements of the relevant TMDLs. These requirements are an enforceable component of this Order. In some cases, dates are given that fall outside the term of this Order. Compliance dates that have already passed are enforceable on the effective date of this Order. Compliance dates that exceed the term of this Order are included for reference, and become enforceable in the event that this Order is administratively extended.
- F.5.i.3. The Regional Water Boards are directed to review, within one year of the effective date of this Order, the TMDL-specific permit requirements contained in Attachment G and to propose to the State Water Board any appropriate revisions after consultation with the Permittees and State Water Board staff. The Los Angeles Regional Water Board will develop TMDL-specific permit requirements within one year of the effective date of this Order in consultation with the Permittees and State Water Board staff. Any proposed revisions by the Regional Water Boards shall be supported by a statement of reasons explaining how the proposed TMDL-specific permit requirements are consistent with the assumptions and requirements of applicable WLAs and with the goals of the TMDL. The State Water Board will incorporate into this Order any necessary revisions, including the statements of reasons through a reopener. The State Water Board may additionally revise this Order through a reopener to incorporate any modifications or revisions to the TMDLs in Attachment G, or to incorporate any new TMDLs adopted during the term of this General Permit that assign a WLA to the Permittee or that identify the Permittee as a responsible party. Where a TMDL is limited to a single constituent within a single reach of the watershed, the Regional Water Board Executive Officer may require additional monitoring, per Water Code § 13383. In revising Attachment G, the State Water Board will allow adequate notice and public review.

- **F.5.i.4.** The Permittee shall complete and have available a report that includes the status of their implementation of the specific TMDL implementation requirements that have been incorporated into the Order with each Annual Report. The TMDL implementation report shall include the following information:
 - (a) A description of BMPs implemented, including types, number, and locations
 - (b) An assessment of the effectiveness of implemented BMPs in progressing towards attainment of wasteload allocations within the TMDLs' specified timeframes
 - (c) All monitoring data, including a statistical analysis of the data to assess progress towards attainment of wasteload allocations within the TMDLs' specified timeframes
 - (d) Based on results of the effectiveness assessment and monitoring, a description of the additional BMPs that will be implemented to attain wasteload allocations within the TMDLs/ specified timeframes
- **F.5.i.5.** The Permittee shall comply with implementation requirements specified in Category 4b demonstrations associated with Clean Water Act Sections 303d, 306b, and 314 Integrated Reporting and Listing Decisions. Implementation requirements described in Category 4b demonstrations are effective upon Regional Water Board approval of that region's Integrated Reporting and Listing Decisions and associated Category 4b demonstrations.

F.5.j. ONLINE ANNUAL REPORTING

- **F.5.j.1.** Department of Defense and Department of Corrections, ports, transportation agencies and Rehabilitation Permittees are exempt from Annual Reporting of any provision that could pose a security risk and compromise facility security. Any requested information to determine compliance with this Order [40 C.F.R. 122.41(h)] by the Water Boards or U.S. EPA shall be furnished during normal business hours.
- **F.5.j.2.** The Permittee shall use State Water Board's SMARTS to submit a summary of the past year activities for each program element and certify compliance with all requirements of this permit. If a Permittee is unable to certify compliance with a requirement, it must submit in SMARTS the reason for failure to comply, a description and schedule of tasks necessary to achieve compliance, and an estimated date for achieving full compliance.
- **F.5.j.3.** Permittees shall complete and retain all Annual Report information on the previous fiscal year beginning July 1 and ending June 30. The Annual Reporting requirements are set forth in Provisions E. The Permittee shall retain documentation as necessary to support their Annual Report. The Permittee shall make this supporting information available during normal business hours, unless agreed to by the Regional Water Board's Executive Officer.
- **F.5.j.4.** The Permittee shall submit when requested by the Executive Officer of the applicable Regional Water Board a detailed written online annual report or inperson presentation of the annual report that addresses the activities described in Provision F. The detailed Annual Report must clearly refer to the permit

requirements and describe in quantifiable terms, the status of activities undertaken to comply with each requirement.

F.5.j.5. Permittees involved in regional programs may coordinate with the members to identify reporting responsibility. The one report submitted on behalf of Permittees involved in a regional program must include a summary of the past year activities implemented for each program element and certification of compliance for each of the Permittees in the regional program.

G. REGIONAL WATER BOARD AUTHORITIES

Regional Water Boards are responsible for overseeing compliance with this Order. Oversight may include, but is not limited to, reviewing reports, requiring modification to storm water program components and various submissions, imposing region-specific monitoring requirements, conducting inspections and program evaluations (audits), taking enforcement actions against violators of this Order. Permittees shall modify and implement their storm water management programs and monitoring as required by the Regional Water Board Executive Officer. The Regional Water Board may designate additional Small MS4s as Regulated Small MS4s under this Order consistent with the criteria articulated in Finding 24 of this Order. Such designations must be approved by the Regional Water Board following public review and comment. The Executive Director of the State Water Board may amend Attachments A and B to add Regional Water Board designations. The Regional Water Boards may also issue individual permits to Regulated Small MS4s, and alternative general permits to categories of Regulated Small MS4s. Upon issuance of such permits by a Regional Water Board, this Order shall no longer regulate the affected Small MS4(s).

H. DISPUTE RESOLUTION

In the event of a disagreement between a Permittee or other interested party and a Regional Water Board over the interpretation or implementation of any provision of this Order, a Permittee or interested party shall first attempt to resolve the issue with the Executive Officer of the Regional Water Board. If a satisfactory resolution is not obtained at the Regional Water Board level, a Permittee or interested party may submit the issue in writing to the Executive Director of the State Water Board or his designee for resolution, with a copy to the Executive Officer of the Regional Water Board. The issue must be submitted to the Executive Director within thirty days of any final determination by the Executive Officer of the Regional Water Board; after thirty days the Permittee or interested party will be deemed to have accepted the Regional Water Board Executive Officer's determination. The Executive Officer of the Regional Water Board will be provided an opportunity to respond. The Executive Director or his/her designee shall make a determination on the request within 60 days. Determinations of the Regional Water Board Executive Officers in interpreting and implementing this permit are considered actions of the State Water Board except where the Regional Water Board itself acts or the Executive Officer acts under Water Code Sections 13300, 13304, or 13383.

I. PERMIT RE-OPENER

This Order may be modified, revoked and reissued, or terminated for cause due to promulgation of amended regulations, receipt of U.S. EPA guidance concerning regulated activities, judicial decision, or in accordance with 40 Code of Federal Regulations 122.62, 122.63, 122.64, and 124.5. The State Board may additionally reopen and modify this Order at any time prior to its expiration under any of the following circumstances:

- 1. Present or future investigations demonstrate that the discharge(s) regulated by this Order may have the potential to cause or contribute to adverse impacts on water quality and/or beneficial uses.
- 2. New or revised Water Quality Objectives come into effect, or any TMDL is adopted or revised that is applicable to the Permittees
- 3. TMDL-specific permit requirements for adopted TMDLs are developed or revised by a Regional Water Board for incorporation into this Order.
- 4. The State Water Board determines, after opportunity for public comment and a public workshop, that revisions are warranted to those provisions of the Order addressing compliance with water quality standards in the receiving water or those provisions of the Order laying out an iterative process for implementation of management practices to achieve compliance with water quality standards in the receiving water.
- 5. The State Board completes the delineation of statewide watershed management zones based on watershed processes and the development of watershed based criteria for hydromodification measures.
- 6. The State Water Board completes the statewide policy for trash control in California's waterways.

J. PERMIT EXPIRATION

This Order expires on June 30, 2018. If this Order is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 40 Code of Federal Regulations section 122.6 and remain in full force and effect. If you wish to continue an activity regulated by this Order after the expiration date of this Order, you must apply for and obtain authorization as required by the new permit once it is issued.

CERTIFICATION

The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of State Water Board held on February 5, 2013.

AYE: Chairman Charles R. Hoppin

Vice Chair Frances Spivy-Weber Board Member Tam M. Doduc Board Member Steven Moore Board Member Felicia Marcus

NAY: None ABSENT: None ABSTAIN: None

> Jeanine Townsend Clerk to the Board



OPERATIONS & MAINTENANCE ACTIVITY GUIDANCE MANUAL

MS4 PERMITTING PROGRAM COMPLIANCE AND IMPLEMENTATION

METROPOLITAN TRANSIT SYSTEM



FINAL

PROJECT NO.: 12113A DATE: MARCH 2020

WSP

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Senior Engineering Manager



ACKNOWLEDGEMENT FORM

I	(full name of MTS employee or contractor)
hereby confirm that I have read the Operations and Main procedures and actions expected of me when conducting employee/contractor of Metropolitan Transit System.	
I further acknowledge that, where necessary, I have receistorm water pollution prevention program provided by M. Housekeeping training program. The training consisted of field source control best management practices when continformation on appropriate storm water BMPs to use durby MTS employees and contractors.	of implementing source control, maintenance facility and aducting O&M activities. The training included
I confirm that as a MTS employee/contractor, I shall compractices (BMPs), good housekeeping practices, and stan activities at MTS facilities and/or within their right of war	dard operating procedures while performing O&M
Employee/Contractor (signature)	
Date	
Employee ID No./Contract No.	



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1 INTRODUCTION

This Operations and Maintenance Activities Guidance Manual (Manual) is developed to provide information and guidance to the employees of the Metropolitan Transit Service (MTS) and their vendors. The information provided in this Manual is for guidance purposes only. Although the information is intended to be current, due to the variety of services, programs and projects, the guidance may not reflect current, actual conditions and could possibly be subject to change. The purpose of the guidance described herein is to assist MTS personnel and their vendors in complying with the National Pollutant Discharge and Elimination System (NPDES) permit issued by the State Water Resources Control Board and the San Diego Regional Water Quality Control Board. It is MTS' goal to reduce stormwater pollution to the maximum extent practicable through the implementation of the Best Management Practices (BMPs) referenced in this Manual.

1.1 PURPOSE AND SCOPE

MTS has developed this Manual as a handbook for the protection of water resources. This Manual provides detailed operational procedures on applying a BMP to an operational or maintenance (O&M) activity at a maintenance facility, MTS-owned property, offsite at a transit station or bus shelter, or within the right-of-way. For each O&M activity, the implementation of multiple BMPs may be required. Because it may not be efficient to review all the potentially applicable BMPs for each O&M activity, the Maintenance Fact Sheets have been organized according to the three categories listed below:

- Source Control Measures
- Field Program Source Control Measures
- Storm Drain Maintenance Measures

Each Maintenance Fact Sheet summarizes the purpose of the O&M activity, the pollutants of concern that may be encountered during the activity, detailed operational procedures related to inspection and maintenance along with training guidance. The intent of this Manual is to assist the user in understanding the water quality concerns that need to be considered when implementing O&M activities. The purpose of applying Maintenance BMPs is to implement water quality controls that will minimize pollutant discharges during O&M activities. For example, pollutants of concern associated with graffiti removal at a transit station are summarized in Table 1-1.

Source Material(s) Pollutant(s) of Concern Painting over graffiti Paint Heavy metals, organic compounds Total petroleum hydrocarbons, diesel Fuel for mechanical equipment Fuel range organics Leaking maintenance vehicles Vehicle Fluids Oil and grease Water associated with cleaning Chlorine, phosphate, VOCs, SVOCs Non-stormwater products Acids, bleaches, detergents, Chlorine, phosphate, VOCs, SVOCs, Graffiti removal products solvents, paint strippers acetic acid, nitric acid Organic compounds, sulfuric Paint Thinner/Mineral Spirits Mixing paint

compounds

Table 1-1. Graffiti Removal and Pollutants of Concern

Potential impacts to water quality can be minimized by adhering to the operational procedures provided in the Maintenance Fact Sheet. O&M activities along with Maintenance BMPs would be applied by both MTS employees and vendors. All the Maintenance BMPs implemented would be consistent with the guidelines presented in the Maintenance Fact Sheets provided in the appendices. Table 1-2 displays typical MTS O&M activities along with some of the Maintenance BMPs that would be implemented.

Table 1-2. Maintenance BMPs

Maintenance Activity	BMP No.	Maintenance BMP
Catch Basin Maintenance	SDM-2	Storm Drain and Catch Basin Maintenance
Maintenance	SDM-1 SDM-3	Drainage System Maintenance Storm Drain Inlet Protection
Landscaping	FSC-2	Grounds Maintenance and Landscaping
	SC-3	Non-Stormwater Discharges
	SC-9	Safer Alternative Products
Graffiti Removal	FSC-1	Graffiti and Paint Removal
	SC-9	Safer Alternative Products
	SDM-3	Storm Drain Inlet Protection

MTS employees or their contactors also inspect and maintain stormwater treatment measures referenced in the Post Construction Stormwater Management Manual (WSP, 2020). The objective of stormwater treatment measure maintanance is to ensure that a BMP functions as designed over its useful life. If stormwater treatment measures are maintained, their performance generally does not decline with age, assuming their original physical dimensions and influent quality remain constant. The potential, however, does exist for poorly maintained treatment measures to bypass influent, or in extreme cases, contribute pollutant load to the effluent. For example, a detention basin that has an excessive amount of accumulated sediment may bypass a portion of the influent due to lack of storage volume, and in an extreme case, contribute sediment to the effluent due to the creation of a high-energy environment in the sedimentation area from lack of storage volume. Overall, lack of, or deferred maintenance of treatment measures will negatively affect the effluent water quality from the stormwater treatment measure. To ensure continued effectiveness of stormwater treatment measures, this Manual provides guidance on the inspection and maintenance requirements associated with MTS-approved stormwater treatment measures. This information is provided in Section 2.4.

2 BEST MANAGEMENT PRACTICES

2.1 SOURCE CONTROL

Source Control BMPs are measures that can be implemented to avoid water quality impacts by managing pollutants at their source. Source control measures apply to both stormwater and non-stormwater discharges. Non-stormwater discharges are discharges of any substance (e.g., excess irrigation, leaks and drainage from trash dumpsters, cooling water and process wastewater) that is not comprised entirely of stormwater runoff. Any stormwater runoff that is mixed or comingled with non-stormwater flow is considered non-stormwater.

MTS has identified potential sources that require source control measures that must be implemented to the extent technically feasible to mitigate pollutant mobilization in stormwater and non-stormwater runoff from MTS facilities. These sources and measures are summarized in Table 2-1. Implementation of these BMPs would reduce or eliminate pollutants in stormwater runoff at their source through runoff reduction and by keeping pollutants and stormwater segregated. Some of the source control measures that are particularly important for MTS maintenance facilities and stations include the measures listed in Table 2-1. Source Control BMP fact sheets are provided in Appendix A.

BMP No. **BMP Name** SC-1 Housekeeping Practices SC-2 **Near-Water Activities** SC-3 Non-Stormwater Discharges SC-4 Outdoor Loading and Unloading SC-5 **Outdoor Storage** SC-6 Outdoor Vehicle and Equipment Cleaning SC-7 Outdoor Vehicle and Equipment Maintenance SC-8 Parking and Storage Area Maintenance SC-9 Safer Alternative Products SC-10 Spill Prevention and Response SC-11 Vehicle and Equipment Fueling SC-12 Waste Handling and Disposal

Table 2-1. Source Control BMPs

2.2 FIELD PROGRAM SOURCE CONTROL

Field Program Source Control BMPs are measures that focus on water quality strategies that will be applied at offsite facilities such as bus rapid transit stations, bus shelters and trolley stations. Field Program BMPs are practices that can be implemented to avoid water quality impacts by managing pollutants at their source. The Field Program Source control measures that apply to both stormwater and non-stormwater discharges are listed in Table 2-2. Detailed fact sheets for each Field Program Source Control BMP are provided in Appendix B.

Table 2-2. Field Source Control BMPs

BMP No.	BMP Name
FSC-1	Graffiti and Paint Removal
FSC-2	Grounds Maintenance and Landscaping ¹
FSC-3	Painting
FSC-4	Pressure Washing
FSC-5	Sanitary Septic Waste Management
FSC-6	Surface Repair
FSC-7	Vegetation Control/Mowing

2.3 STORM DRAIN MAINTENANCE

In addition to Source Control and Field Program Source Control BMPs, three BMPs were developed to address the storm drain system. These BMPs have been termed Storm Drain Maintenance BMPs in this Manual and include catch basin maintenance, dewatering procedures along with storm drain inlet protection which is likely required during all O&M activities such as painting, landscaping and pressure washing. Storm Drain Maintenance BMPs are listed in Table 2-3 and the fact sheets are provided in Appendix C.

Table 2-3. Storm Drain Maintenance BMPs

BMP No.	BMP Name
SDM-1	Drainage System Maintenance
SDM-2	Storm Drain and Catch Basin Maintenance
SDM-3	Storm Drain Inlet Protection

2.4 STORMWATER TREATMENT MEASURES

Stormwater treatment measures are BMPs that improve water quality. Table 2-4 displays the stormwater treatment measures that MTS has approved. BMP Design fact sheets for these treatment measures are provided in the Post Construction Storm Water Management Manual (WSP, 2020). These stormwater treatment measures are implemented to minimize the long-term potential impacts associated with new development and redevelopment. The quality of stormwater entering the waters of the state relies heavily on the proper operation and maintenance of stormwater treatment measures. Stormwater treatment measures must be periodically inspected to ensure that they function as designed. The inspection will determine the appropriate maintenance that is required for the facility. In some cases, the maintenance responsibility may be assigned to vendors or contractors through special agreements.

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¹ Landscaping activities and associated MTS guidelines for the use of chemicals and safer alternative products for pest management and vegetation control are provided in the Landscape Design and Maintenance Plan (WSP 2019).

Table 2-4. Stormwater Treatment Measures

BMP No.	BMP Name
INF-2	Bioretention
Proprietary*	Drain Inlet Insert
FT-4	Extended Detention Basin
Proprietary*	Gravity Separators
INF-1	Infiltration Basin/ Infiltration Trench/Dry Well
FT-2 /FT-3	Media/Sand Filter
SD-5	Sidewalk Planter/Flow-Through Planter
Proprietary*	Stormwater Filter
SD-1	Tree-Well Filter/Tree Wells
PR-1	Vegetated Buffer/Filter Strip
BF-1	Vegetated Swale

^{*}Check with manufacturer for inspection and maintenance specifications for proprietary devices

2.4.1 INSPECTING STORMWATER TREATMENT MEASURES

All stormwater treatment measures are required to be inspected by a qualified individual at a minimum of once per year. In addition, all BMPs should be inspected after a significant precipitation event to ensure the facility is draining appropriately and to identify any damage that occurred as a result of the increased runoff. The stormwater treatment measures inspection form provides a record of the BMP inspection. Inspection forms for each BMP are provided in Appendix D.

2.4.2 MAINTAINING STORMWATER TREATMENT MEASURES

Stormwater treatment measures must be properly maintained to ensure that they operate correctly and provide the water quality treatment for which they were designed. Routine maintenance performed on a frequently scheduled basis, can help avoid more costly rehabilitative maintenance that results when facilities are not adequately maintained. Required maintenance for stormwater treatment measures are separated into two broad categories of work: 1) Normal Expected Maintenance and 2) Non-Standard Maintenance of BMP Failure. Appendix D provides BMP Maintenance Fact Sheets for non-proprietary stormwater treatment measures. These Fact Sheets were developed for the San Diego County² Project Clean Water Program and are applicable to the MTS-approved stormwater treatment measures. Each fact sheet provides details regarding the two categories of work that should be anticipated for each BMP. The inspection forms in Appendix D also allow documentation of the maintenance performed at each BMP. Maintenance forms shall be completed by either the MTS employee or vendor completing the required maintenance items.

²http://www.projectcleanwater.org/

BIBLIOGRAPHY

- WSP. 2019. Landscape Design and Maintenance Plan. April 2019.
- WSP. 2020. Post Construction Stormwater Management Manual. January 2020.



APPENDIX

SOURCE CONTROL MEASURES





HOUSEKEEPING PRACTICES

Purpose

Promote efficient and safe housekeeping practices (storage, use, and cleanup) when handling potentially harmful materials such as fertilizers, pesticides, cleaning solutions, paint products, and automotive products.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Waste handling and storage	Trash	Bacteria, plastics, sediment, heavy metals, organic compounds, solids
Landscaping	Fertilizers - organic	Nitrate
	Fertilizers - inorganic	Nitrate, Phosphate
	Natural Earth (Sand, Gravel and Topsoil)	Turbidity, Sediment
	Lime	Alkalinity, pH
	Aluminum Sulfate	Total Dissolved Solids
	Sulfur-Elemental	Sulfate
	Soil Amendments	BOD, COD, Sulfate, Total Organic Carbon, Calcium, Sulfate
Chemical, hazardous, and	Pesticides and Herbicides	Organic compounds
automotive liquids handling and storage	Fertilizers	Nitrates, phosphates
dila storage	Qil	Oils and greases
	Fuel	Hydrocarbons
	Cleaning supplies, degreasers	Organic compounds, antimicrobials, endocrine disruptors
	Paints and Coatings	Organic compounds

Application

Implementing precautions learned from the related BMP fact sheets to the everyday handling of materials and operations and maintenance activities will prevent and reduce contamination of stormwater.



HOUSEKEEPING PRACTICES

Operational Procedures

General Operations & Maintenance

- Purchase only the amount of material necessary for the foreseeable future to minimize inventories therefore reducing risk of leaks and spills. In most cases this will result in cost savings in both purchasing and disposal. See SC-9 Safer Alternative Products fact sheet for additional information.
- Stay current with new products that are as effective with less environmental risk for less or the equivalent cost. Total cost must be used here including purchase price, transportation costs, storage costs, use related costs, cleanup costs and disposal costs.
- Keep work sites clean and orderly. Remove debris in a timely fashion and sweep areas consistently.
- Dispose of wash water, sweepings, and sediments, properly.
- Recycle or dispose of fluids properly.
- Establish a daily checklist of office, yard, hazardous material storage areas, and maintenance areas to confirm cleanliness and adherence to proper storage and security. Specific employees should be assigned specific inspection responsibilities and given the authority to remedy any problems found.
- Post waste disposal charts in appropriate locations detailing for each waste its hazardous nature (poison, corrosive, flammable), prohibitions on its disposal (dumpster, drain, sewer) and the recommended disposal method (recycle, sewer, burn, storage, landfill).
- Summarize the chosen BMPs applicable to your operation and post them in appropriate and conspicuous places.
- Follow the Facility Warehouse procedures regarding hazardous material use. This includes:
 - Signed checklists from every user of any hazardous material detailing amount taken, used, returned, and disposed;
 - Before audits of your site to establish baseline conditions and regular subsequent audits to note any changes and whether conditions are improving or deteriorating;
 - Documentation of records detailing water, air, soil, and solid waste quantities, qualities, and their disposition; and
 - Maintenance of the mass balance of incoming, outgoing, and on hand materials to determine unknown losses that need to be tracked down and accounted for.
- Use and reward employee suggestions related to BMPs, hazards, pollution reduction, work place safety, cost reduction, alternative materials and procedures, recycling and disposal.
- Have and review regularly, a contingency plan for spills, leaks, weather extremes, natural or manmade disasters, etc. Ensure all employees are aware of the plan and their specific role.
- Train all employees, including management, office, yard, and field in BMPs and stormwater pollution prevention and make them accountable.



NEAR-WATER ACTIVITIES

Purpose

Near-water activities occur on roads, platforms, and terminals near rivers, lagoons, estuaries, and creeks. Given the proximity to natural waterways, near-water activities have a high risk of discharging pollutants directly to the environment.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Concrete channel maintenance	Heavy equipment fuel and fluids; Mobilization of sediment	Oil and grease Diesel range organics or total
		petroleum hydrocarbons
Power washing	Non-stormwater	Chlorine
Sand blasting	Dust	Particulate matter
Waste handling and storage	Trash	Bacteria, plastics, sediment, heavy metals, organic
		compounds, solids
Chemical, hazardous, and	Pesticides	Organic compounds
automotive liquids handling and storage	Fertilizers	Nitrates, phosphates
	Oil	Oils and greases
	Fuel	Hydrocarbons
	Cleaning supplies, degreasers	Organic compounds, antimicrobials, endocrine
	Paints, coatings, thinners	disruptors
		Organic compounds, heavy metals, sulfuric compounds
Sweeping and handling of debris, litter and sediment	Trash, debris and sediment	Plastics, suspended solids, organic matter, heavy metals

Application

Minimizing near-water maintenance, keeping wastes contained within the working area, cleaning up spills and wastes immediately, and training employees about the specific risk prevents and reduces the discharge of pollutants from near-water activities. The procedures outlined in this fact sheet are extra safety measures in addition to the other BMP fact sheets that pertain to the specific Operations and Maintenance (O&M) activity.



NEAR-WATER ACTIVITIES

Operational Procedures

General O&M

- Refer to the 'Storm Drain Inlet Protection' fact sheet for further BMPs to protect the stormwater drainage system.
- Perform all near-water activities in dry weather, with no rain in the forecast.
- Switch to non-toxic Safer Alternative Products for O&M when possible.
- Choose recyclable and biodegradable cleaning agents.
- Handle chemicals and materials in an area temporarily designed to contain spills and leaks if one were to occur, and select a work area that is the furthest away as possible from the watercourse.
- Ensure all employees performing O&M activities near-water are fully trained in the extra precautions to take to prevent pollution.
- Dry sweep prior to and following O&M activities.
- Provide regular training to employees and contractors regarding stormwater BMPs for near-water activities.
- Refer to SC-10 Spill Prevention and Response fact sheet for guidance regarding any leaks or spills, and the immediate clean-up of leaks and spills.

Cleaning, Power Washing, and Painting

- In addition to guidance provided in the 'Paint Removal', 'Graffiti Removal', 'Painting', and 'Pressure Washing' fact sheets, shelter any blasting, power washing, and spray painting activities by hanging wind blocking tarps to prevent sand blasting dust and overspray from escaping.
- Use secondary containment on paint cans and cleaning materials.
- Paint mixing should occur in a contained area that can hold the full volume of mixed paint if a spill were to occur.
- Vacuuming loose paint chips and paint dust as they are produced helps prevent paint and other chemical substances from entering waters.
- Properly dispose of surface chips, used blasting sand, residual paints, and other materials. Use temporary storage that is not exposed to rain or run-on.
- Select nontoxic Safer Alternative Products for cleaning that do not harm the environment.



Purpose

Any flow entering the storm drain conveyance system that does not entirely consist of stormwater is considered a non-stormwater discharge. The two sources of non-stormwater discharges are fixed facilities owned and/or operated by MTS or contracted operator, and public discharges discovered during normal field program operations. Some non-stormwater discharges are permitted, however, other non-stormwater discharges contaminated with pollutants that pose environmental concerns. These discharges originate from: illegal dumping, internal floor drains, industrial activities, sinks, and toilets illegally connected to nearby drains as referenced in the MTS Illicit Discharge Detection and Elimination (IDDE) Plan (WSP, 2019).

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Waste handling and storage	Trash	Bacteria, plastics, sediment, heavy metals, organic compounds, solids
Chemical, hazardous, and	Pesticides	Organic compounds
automotive liquids handling and storage	Fertilizers	Nitrates, phosphates
3	Oil	Oils and greases
	Fuel	Hydrocarbons
	Cleaning supplies, degreasers	Organic compounds, antimicrobials, endocrine
	Paints, coatings, thinners	disruptors
		Organic compounds, heavy metals, sulfuric compounds
Illicit Connection/Illegal Discharge	Source specific: wastewater, chemical spill, industrial process water, etc.	Bacteria, VOCs, SVOCs, chlorine, etc.
Chemical applications	Fertilizers	Nitrates, phosphates
	Pesticides and Herbicides	Organic compounds
Unstable earth from dying or damaged vegetation	Soil from erosion and runoff	Sediment, particulate matter, turbidity
Irrigation of landscaped areas	Soil from runoff	Sediment, particulate matter,
	Fertilizers	turbidity
	Pesticides and Herbicides	Nitrates, phosphates
		Organic compounds
Fueling equipment	Petroleum products	Organic compounds
		Oils and grease



Washing equipment	Soil	Sediment, suspended solids
	Fertilizers	Nitrates, phosphates
	Pesticides	Organic compounds
	Vegetation Clippings	Nitrates, phosphates, invasive
	Cleaning products	species
		Chlorine, acids, phosphate, VOCs, SVOCs
Painting activities	Paint, thinners, mineral spirits	Heavy metals, organic compounds, sulfuric compounds

Application

Prevention of non-stormwater discharges by MTS is achieved through implementation of the operational procedures described in the BMP fact sheets and the procedures outlined within this document. In addition, MTS employees in the field will be trained to identify non-stormwater discharges or areas that a future discharge may occur and report to the appropriate authority.

Operational Procedures

MTS Facility

- Post "No Dumping" signs with a phone number for reporting dumping and disposal. Signs should also indicate fines and penalties for illegal dumping.
- Stencil storm drains with messages such as "Dump No Waste Drains to Stream".
- Discourage dumping with beautification, lighting, and barriers in problem areas.
- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs.
- Clean up spill on paved surfaces with dry methods whenever possible, or minimal water usage.
 Use rags for small spills, a damp mop for general cleanup, and absorbent material for larger spills.
 If the spilled material is hazardous or unknown, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- See the Spill Prevention and Response fact sheet (SC-10) for further guidance regarding large spills, hazardous spills, and proper reporting and disposal.
- When illicit connections are suspected, follow the Illicit Discharge Detection Process diagram at the end of this document regarding sampling, testing, and reporting.
 - Level I sampling and testing (pH, temperature, ammonia and flow; analyze "as built" piping schematics, notes, and photos) to be completed by MTS employees.
 - Level II sampling and testing (smoke testing, lab analysis, video inspection, dye testing) to be completed by the relevant third party as directed by a manager or the Environmental Health Specialist.



Field Operations

- Develop clear protocols and lines of communication for effectively prohibiting and reporting nonstormwater discharges, especially those not classified as hazardous, which are often not reported and/or responded to as effectively as necessary.
- Regularly inspect and clean up hot spots and other storm drainage areas where illegal dumping and disposal occurs
- During routine field program O&M activities, staff should look for evidence of illegal discharges or illicit connection:
 - Is there evidence of spills (i.e. paint, discoloration, foam, oil/rainbow sheen, etc.)?
 - Are there any odors associated with the drainage system?
 - Record locations of apparent illegal discharges/illicit connections and notify appropriate investigating agency.

Reporting

- A database is useful for defining and tracking the magnitude and location of the problem.
- Report prohibited non-stormwater discharges observed during daily activities so they can be investigated, contained, and cleaned up or eliminated.
- Document that non-stormwater discharges have been eliminated through observations of onsite drainage points.
- Maintain documentation of illicit connection and illegal dumping incidents, including repetitive but normally exempt discharges that are not properly managed.

Education and Enforcement

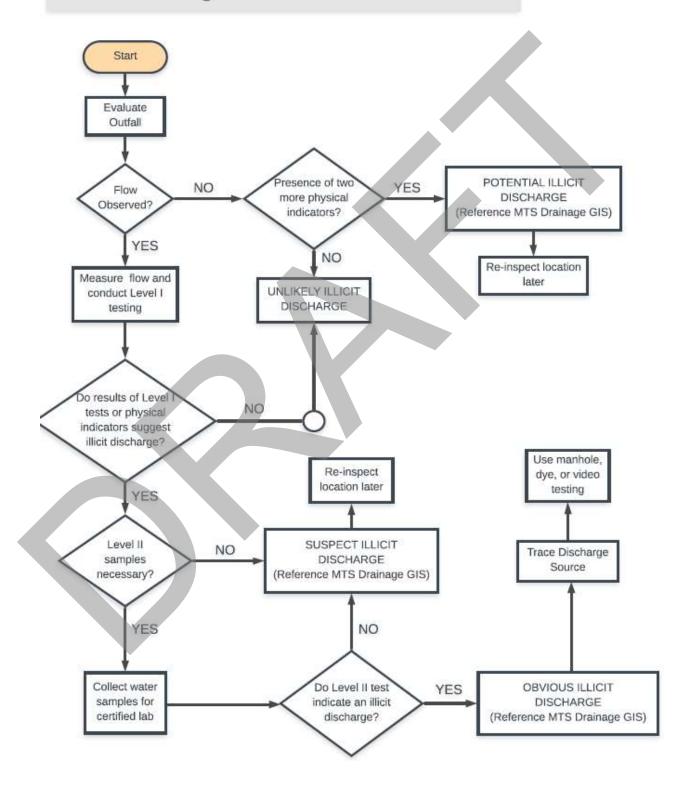
- When an illicit discharge is identified:
 - Educate the responsible party on the impacts of their actions regarding polluting the environment and potentially causing blockages or damages to the system.
 - Explain what is considered stormwater, and is an allowable discharge to the stormwater drainage system.
 - Provide information regarding Best Management Practices as appropriate.
 - Initiate follow-up and/or enforcement procedures
- If an illegal discharge is traced to a commercial or industrial activity, coordinate information on the discharge to the Environmental Health & Safety Specialist.

Training

- Train staff to identify, document, and report illegal dumping and non-stormwater discharge incidents.
- Employees should have a thorough understanding of this document, the Illicit Discharge Detection Process diagram (see diagram on page 4), and other MTS fact sheets.
- The Spill Prevention and Response Plan should be familiar to all employees.
- Train employees in Level 1 sampling and testing procedures.
- Ensure all staff know who to contact when a non-stormwater discharge is identified.
- Educate the identified responsible party on the impacts of their actions.



Illicit Discharge Detection Process





OUTDOOR LOADING & UNLOADING

Purpose

When loading, and unloading of materials takes place outside on docks, materials may be spilled, leaked or lost in the soil or on other surfaces with the potential of transporting with stormwater runoff or cleaning water to storm drains. Rainfall may also wash pollutants from machinery used to unload or move materials.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Spills and leaks from chemical	Pesticides	Organic compounds
and hazardous material loading, unloading, and	Fertilizers	Nitrates, phosphates
pumping	Oil	Oils and greases
	Fuel	Hydrocarbons
	Cleaning supplies, degreasers	Organic compounds, biocides, endocrine disruptors
	Paints, coatings, thinners	Organic compounds, heavy metals, sulfuric compounds
Sweeping and handling of litter/sediment	Trash and sediment	Plastics, suspended solids, organic matter, heavy metals

Application

The following procedures are used where loading and unloading of materials occurs. Implementing these procedures will minimize the risk of loading/unloading activities polluting stormwater runoff and discharging into the stormwater drainage system and watercourses.

Operational Procedures

- Protect drain inlets and watercourses from potential spills (see Storm Drain Inlet Protection fact sheet) and when flooded water is pumped, convey to a landscaped area.
- Park, unload, and load delivery vehicles only in designated and covered areas.
- Prevent stormwater run-on to loading docks with proper grading, berming, and by directing runoff from roof downspouts away from the designated loading/unloading areas.
- Pave loading and unloading areas with concrete instead of asphalt.
- Grade and/or berm the loading and unloading areas to a drain connected to a dead-end sump.
- Do not conduct loading and unloading during wet weather, whenever possible.
- Tarps and similar control measures should be used to prevent spills or material drift from being deposited into storm water drainage system or watercourses.
- Use drip pans underneath hose and pipe connections during fluid transfer operations including making and breaking connections. Store drip pans in a covered location away from precipitation, and clean periodically while disposing of waste properly.





OUTDOOR LOADING & UNLOADING

- Regularly check machinery used to load and unload materials for leaks; including valves, pumps, flanges, and connections.
- Regularly dry-sweep and/or vacuum areas to minimize pollutant discharge.
- Refer to SC-10 Spill Prevention and Response fact sheet for control and cleanup of spills, and always have a trained employee present during unloading and loading operations.
- Solid waste should be collected by vacuum or sweeping and secured in an appropriate container and reused, recycled or disposed of properly.
- Water used for cleaning and decontamination shall not be allowed to enter the storm water drainage system or watercourses.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless. Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.



SC-5 OUTDOOR STORAGE

Purpose

Raw materials, by-products, finished products, containers, and material storage areas exposed to rain, run-on, and runoff can pollute stormwater. Improper storage can result in accidental spills and leaks, that can accumulate in soils or on surfaces to then be carried away by rainfall runoff into the stormwater drainage system.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Waste storage	Trash	Bacteria, plastics, sediment, heavy metals, organic compounds, solids
Chemical, hazardous, and automotive liquids storage	Pesticides	Organic compounds
	Fertilizers	Nitrates, phosphates
	Oil	Oils and greases
	Fuel	Hydrocarbons
	Cleaning supplies, degreasers	Organic compounds, antimicrobials, endocrine disruptors
	Paints, coatings, thinners	Organic compounds, heavy metals, sulfuric compounds
Sweeping and handling of litter/sediment	Trash and sediment	Plastics, suspended solids, organic matter, heavy metals

Application

Implementation of pollution prevention and source control methods such as, minimizing inventory of raw and/or hazardous materials; storing materials in a designated area that is enclosed, covered, and has secondary containment; training employees and subcontractors in standard operating procedures (SOP) and spill cleanup techniques; and conducting regular inspections to ensure efficacy of pollution prevention measures and to make improvements, will minimize the risk of polluting stormwater runoff and discharging into the stormwater drainage system and watercourses.

Operational Procedures

Storage Areas

- Follow the SOP for loading and unloading, and refer to the SC-4 Outdoor Loading and Unloading fact sheet for related BMP information.
- Keep a current and accurate inventory of stored materials. Re-evaluate inventory needs and consider purchasing Safer Alternative Products. Properly recycle and dispose expired products.
- Store materials in their original containers that describe their contents and specific spill response actions, or if a transfer container is used then properly label in compliance with the globally



SC-5 OUTDOOR STORAGE

harmonized system GHS). Maintain associated Safety Data Sheets (SDS) in the MTS online SDS database.

- When inside storage is not feasible, ensure storage areas are protected from rainfall, run-on, runoff, and wind dispersal:
 - Cover the designated storage areas with a roof to protect from rain. At the very minimum use a temporary waterproof covering made of polyethylene, polypropylene or a similar material.
 - Minimize run-on by enclosing the area and using berms.
 - Use covered dumpsters for waste product containers.
- Keep liquids in a designated area on a paved impervious surface within a secondary containment system using dikes, liners, vaults, or double walled tanks.
- Employ safeguards against accidental releases:
 - Provide overflow protection devices to warn operator or automatic shutdown transfer pumps.
 - Provide protection guards around tanks and piping to prevent vehicle or forklift damage
 - Provide clear tagging or labeling, with valve restrictions to reduce human error.
 - Provide secure storage to prevent vandalism and theft.
 - Ensure container lids are tight fitting and secure.
- Ensure storage containers are in good condition, lacking corrosion, leaks, cracks, scratches, and other physical damage that may weaken the container system.
- Keep storage containers off the ground using pallets, racks, or a similar method.
- Place drip pans or absorbent materials beneath all mounted container taps and at all potential
 drip and spill locations during filling and unloading of containers. Clean drip pans periodically and
 all collected liquids and soiled absorbent materials must be reused, recycled, or properly disposed.
- Storage of hazardous materials (reactive, ignitable, or flammable) must comply with the environmental, fire, and hazardous waste codes.
 - Surround stored hazardous materials and waste with a curb or dike to provide the volume to contain 10% of the volume of all the containers, or 110% of the volume of the largest container, whichever is greater. The area inside the curb should slope to a drain leading to a dead-end sump.
 - Store corrosive materials in appropriate containers resistant of corrosion.

Inspection

- Provide routinely scheduled, and 'as necessary' inspections with thorough record keeping and reporting, checking for:
 - Evidence of leaks, spills, or drips due to faulty containers, operator error, or failure of piping systems and valves.
 - External corrosion, cracks, or other structural failures of material containers, tank foundations, connections, coatings, and tank walls.
 - Leaks or spills during pumping of liquids or gases from delivery trucks to a storage facility or vice versa.
 - Loose fittings, poor welding, and improper or poorly fitted gaskets on new tank or container installations.
 - Improperly labelled new or secondary containers.
- Following inspections, take immediate corrective actions including replacement of faulty or at-risk equipment and containers, further training of employees, and process adjustments to prevent leaks and spills and record all inspection findings and responses in a log.

SC-5

Training

- Train employees to have a full understanding of the current Spill Prevention and Response plan
 and fact sheet so employees have the tools and knowledge to immediately begin cleaning up a
 spill and taking corrective actions if one should occur.
- Educate employees about the risks of improper storage described within this fact sheet related to stormwater pollution prevention.
- Use a training log or similar method to document initial and ongoing training, including further training following inspections.

Further Details on Dikes and Curbs

Dikes

One of the best protective measures against contamination of stormwater is diking. Containment dikes are berms or retaining walls that are designed to hold spills. Diking is an effective pollution prevention measure for above ground storage tanks and tank truck loading and unloading areas. The dike surrounds the area of concern and holds the spill, keeping spill materials separated from the stormwater side of the dike area.

- For single-wall tanks, containment dikes should be large enough to hold the contents of the storage tank for the facility plus rainwater.
- For trucks, diked area volume should equal the volume of the largest tank truck compartment that makes deliveries.
- Diked material should be strong enough to safely hold spilled materials.
- Dike materials can consist of earth, concrete, synthetic materials, metal, or other impervious materials.
- Strong acids or bases may react with metal containers, concrete, and some plastics.
- Where strong acids or bases are stored, alternative dike materials should be considered. More active organic chemicals may need certain special liners for dikes.
- Dikes may also be designed with impermeable materials to increase containment capabilities.
- Inspect dikes during or after significant storms or spills to check for washouts or overflows.
- Regularly inspect dikes to ensure they can contain spills based on potential spill volume (e.g. tank replacement, new material)
- Inability of a structure to retain stormwater, dike erosion, soggy areas, or changes in vegetation indicate problems with dike structures. Damaged areas should be patched and stabilized immediately.
- Accumulated stormwater in the containment area should be analyzed for pollutants before it is
 released to surface waters. If pollutants are found or if stormwater quality is not determined, then
 methods other than discharging to the MS4 or surface waters should be employed (e.g., discharge
 to sanitary sewer).
- Earthen dikes may require special maintenance of vegetation such as mulching and irrigation.

Curbing

Curbing is a barrier that surrounds an area of concern. Curbing is like containment diking in the way that it prevents spills and leaks from being released into the environment. Curbing is usually small scaled and does not contain large spills like diking. Curbing is common at many facilities in small areas where handling and transfer liquid materials occur. Curbing can redirect stormwater away from the storage area. It is useful in areas where liquid materials are transferred from one container to



SC-5 OUTDOOR STORAGE

another. Asphalt is a common material used for curbing; however, curbing materials include earth, concrete, synthetic materials, metal, or other impenetrable materials.

- Spilled materials should be removed immediately from curbed areas to allow space for future spills.
- Curbs should have manually-controlled pump systems rather than common drainage systems for collection of spilled materials.
- The curbed area should be inspected regularly to clear clogging debris.
- Maintenance should also be conducted frequently to prevent overflow of any spilled materials as curbed areas are designed only for smaller spills.
- Curbing has the following advantages:
 - Excellent run-on control,
 - Inexpensive,
 - Ease of installment,
 - Provides option to recycle materials spilled in curb areas, and
 - Common industry practice.



SC-6 OUTDOOR VEHICLE AND FOUIPMENT CLEANING

Purpose

Vehicle and equipment cleaning outdoors can contribute toxic hydrocarbons and other organic compounds, oils and greases, nutrients, phosphates, heavy metals, and suspended solids to stormwater runoff.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Wash water from outdoor vehicle and equipment cleaning	Chlorinated water Detergents	Chlorine Phosphates
	Solids (dirt and metal fragments)	Sediment and Metals
	Pesticides Fertilizers Vehicle Fluids Fuel Cleaning liquids, degreasers	Organic compounds Nitrates, phosphates Oils and greases Hydrocarbons Organic compounds, antimicrobials, endocrine disruptors

Application

Utilizing the procedures outlined below can prevent and reduce the potential for pollutant discharge through source control prevention, storm drain inlet protection (see fact sheet SDM-3), and BMP implementation. Thorough and continuous employee training is paramount in effective implementation of stormwater pollution prevention methods related to vehicle and equipment cleaning.

Operational Procedures

Vehicle and Equipment Cleaning

- Use properly maintained off-site washing and steam cleaning businesses whenever possible as these businesses are specifically designed to manage contaminated water.
- Implement good housekeeping practices to minimize wash water's exposure to contaminants.
- Sweep wash areas frequently to remove solid debris.
- Provide waste containers in the wash area per the SC-12 Waste Handling and Disposal fact sheet.
- Map on-site storm drain locations and follow procedures outlined in the 'Storm Drain Inlet Protection' fact sheet to protect the drainage system.
- Biodegradable and approved safer alternative products without phosphates should be used where practical and effective.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.



SC-6 OUTDOOR VEHICLE AND EQUIPMENT CLEANING

- While safer alternative products may be less harmful to the environment, they are not harmless. Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.
- Designate and clearly mark a wash area with signs stating that only washing is allowed in that area and that discharges to the storm drain are prohibited.
- Design wash areas to completely collect and dispose of wash water when chemical additives, solvents, or degreasers are used. Installation of sumps, drain lines, berms, and grading can segregate, direct, and collect wash water and prevent stormwater run-on to wash areas.
- Cover the outdoor wash area, and post signs indicating washing procedures specific to that area and that no other activities are permitted in the wash area. Placing tarps over the pavement when not in use will help deter other activities occurring in the area and will prevent contact with rain water.
- Use automatic shutoff nozzles when hoses are left unattended.
- Perform power washing and steam cleaning in specifically designated areas as this runoff has higher pollutant concentrations. No power washing or steam cleaning in areas designated as wellhead protection areas for public potable water supply.

Disposal

- Consider filtering and recycling wash water whenever possible.
- Discharge all equipment wash water to a holding tank or a primary clarifier treatment system.
- Discharge vehicle wash water to a holding tank, a primary clarifier treatment system, or to an enclosed recycling system.
- Discharge wash water to the sanitary sewer only where allowable/permitted by the local sewer authority; pretreatment may be necessary. If in doubt, ask your Supervisor.
- Refer to the 'Spill Prevention and Response' fact sheet in the event of large spills or leaks from holding tanks, treatment systems, and wash area containment areas.
 - Keep the spill and response plan for each facility current and easily accessible.
 - Stock adequate spill cleanup materials and check supplies with routine inspections.
 - All employees shall have the tools and knowledge to immediately begin cleaning up a spill if one should occur.

Training

- Train employees to have a thorough understanding of this fact sheet and conduct continuous refresher training sessions.
- Train staff on only performing washing activities in the wash area, and for proper housekeeping and maintenance of the wash area.
- Conduct inspections to ensure effective implementation of vehicle and equipment cleaning procedures and address instances immediately when a procedure is not followed, or potential contamination pathways are identified.



OUTDOOR VEHICLE AND EQUIPMENT MAINTENANCE

Purpose

Vehicle and equipment maintenance includes bus, LRV, and operational equipment maintenance and repair. Pollutants from routine maintenance and repairs (e.g. parts cleaning, part replacements, oil changes) can impact water quality if stormwater runoff comingles with leaked fluids or equipment stored outside.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Vehicle and Equipment	Chlorinated water	Chlorine
Cleaning	Detergents	Phosphates
	Solids (dirt and metal fragments)	Sediment and Metals
	Vehicle Fluids	Oils and greases
	Cleaning liquids, degreasers	SVOCs, VOCs, Acids
Vehicle and Equipment Repair	Vehicle and Equipment Fluids	Ethylene glycol, propylene glycol, sulfuric acid, lead, oil and grease, total petroleum hydrocarbons, diesel range organics

Application

Utilization of the following procedures where maintenance of vehicles and MTS assets occurs will prevent or greatly reduce the discharge of pollutants to the stormwater drainage system.

Operational Procedures

- Keep accurate maintenance logs, inventory, and associated Safety
- Data Sheets (SDS) so current use and storage of materials is known.
- Switch to non-toxic, solvent free, and potentially recyclable materials for maintenance and cleaning whenever possible.
- Recycle used oils, vehicle fluids, and equipment parts whenever possible.
- Avoid hosing down work areas, alternatively dry sweep the MTS facility routinely to keep litter and sediment out of drainage systems. If work areas are washed, collect and direct wash water to a designated area (i.e., holding tank, recycled water system, or treatment system).
- Use a vehicle maintenance area designed to prevent stormwater pollution and minimize contact of stormwater with outside operations through berming, and appropriate drainage routing (see Storm Drain Inlet Protection fact sheet).
- Keep equipment clean by not allowing excessive build-up of oil and grease whenever possible to reduce waste and discharge.
- Refer to FSC-3 Pressure Washing BMP fact sheet for appropriate cleaning protocols while using pressure washers and steam cleaners.
- Use signage on storm drain inlets indicating they are not to receive liquid or solid wastes.



OUTDOOR VEHICLE AND EQUIPMENT MAINTENANCE

- Use signage at sinks to remind employees that pouring wastes down the drain is prohibited.
- Clean all MTS facility storm drain inlets regularly using dry methods of sweeping, litter removal, and vacuums; and cover during dry weather, where applicable.
- Permanently cover outdoor maintenance and repair areas, or move activities inside to limit exposure to rainfall.
- If equipment or vehicles are stored outside, (e.g. temporarily/permanently out of use, wrecked/damaged vehicles or machinery) ensure oil and other fluids are drained first.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are more easily recycled if kept separate.
- Drain pans are generally too small to contain antifreeze, plan accordingly by purchasing larger drip pans or fabricate appropriately sized and shaped pans.
- Promptly transfer fluids to the proper waste or recycling drums and store in an appropriately
 designed area that can contain spills. Drip pans are used temporarily, and should never act as
 storage containers.
- Dispose oil filters properly by draining into a waste oil recycling drum and then recycle filters with your oil supplier or recycler.
- Store cracked and/or dead batteries in a non-leaking covered secondary container and dispose of properly at recycling or hazardous waste facilities.
- Place permanent curbs around the immediate boundaries of the process equipment.
- Do not remove original product label from chemical containers as it contains important spill cleanup and disposal information.
 - If a product is concentrated and must be diluted before use, transfer the diluted product to a secondary container. Ensure that the secondary container label complies with the labelling requirements of the globally harmonized system (GHS).
- Use the entire product before disposing of the container.
- Do not locate stockpiles near drain inlets or watercourses.
- Refer to the Parking and Storage Area Maintenance fact sheet for more storage area considerations.
- Refer to the Spill Prevention and Response fact sheet in the event of spills or leaks.
 - Keep the spill and response plan for each facility current, with updates from incidents, regulation changes, and inspections.
 - Stock adequate spill cleanup materials readily accessible to the specific MTS facility and routinely check storage areas for sufficient supplies.
- All wastes should be put into containers and stored appropriately until it can be recycled or disposed of properly.
- All materials of environmental concern shall be properly stored in appropriate secure containment.
- Recycling materials is always preferable to disposal, and purchasing products (e.g. engine oil, transmission fluid, antifreeze, hydraulic fluid) made of recycled materials is preferred.
- Separating wastes allows for easier recycling and may reduce disposal costs by separating hazardous and non-hazardous wastes. Do not mix oil and solvents and separate chlorinated solvents from other solvents.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless. Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.



PARKING AND STORAGE AREA MAINTENANCE

Purpose

The risk of pollutants like trash, suspended solids, hydrocarbons, oil, grease, and heavy metals entering the storm drain system from parking and storage areas through stormwater runoff or non-stormwater discharges is high and must be mitigated.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Parking and storage area surfaces	Runoff	Suspended Solids/Sediment, polycyclic aromatic hydrocarbons, trash
	Brake pad dust	Metals
	Chlorinated water for pressure washing	Chlorine
	Vehicle Fluids	Oil and Grease
Landscape areas	Fertilizers	Nutrients
	Pesticides	Organics
	Irrigation runoff	Sediment and turbidity
Storage Area	Spills and leaks	Source specific

Application

The following procedures reduce the risk of pollutant discharge into the stormwater system from parking and storage areas. Using proper housekeeping practices, following appropriate cleaning BMPs, training employees, and incorporating alternative designs and maintenance strategies for impervious parking lots will prevent water quality impacts.

Operational Procedures

- Protect storm drain inlets and watercourses from potential spills (see 'Storm Drain Inlet Protection' and 'Spill Response and Prevention' fact sheets).
- Ensure employees understand common spill response and protection practices.
- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices and utilize sand filters or oleophilic collectors for low concentrations of oily waste.
- Prevent stormwater run-on to parking lots and storage areas with proper grading, berming, and by directing runoff from roof downspouts away from the paved surfaces and storage areas.
- Design lot to include semi-permeable hardscape and innovative bio filters.
- Post "No Littering" signs and enforce anti-litter laws and provide adequate litter receptacles in walking and parking areas.
- Empty and clean out litter receptacles frequently to prevent spillage, and anticipate high traffic times during events for more frequent clean outs.



PARKING AND STORAGE AREA MAINTENANCE

- Regularly dry-sweep, shovel, and vacuum areas to minimize litter and pollutant discharge into the stormwater conveyance system.
- Establish frequency of parking lot sweeping based on usage and field observations of waste accumulation and inspect sweepers for leaks on a regular basis.
- If there is evidence of illegal dumping, bag and load the material onto an MTS vehicle and return to a MTS facility for disposal.
- Sweep all parking and storage areas before the onset of the wet season.
- When water is used during surface cleaning, follow the procedures below:
 - Completely block the storm drain or contain runoff.
 - Wash water should be collected and reused, pumped to the sanitary sewer, or discharged to a
 pervious (vegetated) surface, do not allow water to enter storm drains during cleaning.
 - Dispose of parking lot sweeping debris and dirt at a landfill.
- When cleaning heavy oil deposits, use absorbent materials on oil spots prior to sweeping and dispose of used absorbents properly.
- Tarps and similar control measures should be used to prevent spills or material drift from storage areas.
- Solid waste should be collected by vacuum or sweeping and secured in an appropriate container and reused, recycled or disposed of properly.
- Water used for cleaning and decontamination shall not be allowed to enter storm water drainage system or watercourses.
- Refer to the 'Surface Repair' fact sheet for procedural requirements during surface repair.
- The MTS Environmental Health & Safety Specialist must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless.
 Use the materials according to the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.



SAFER ALTERNATIVE PRODUCTS

Purpose

Promote the use of less harmful products. Alternatives exist for most product classes including chemical fertilizers, pesticides, cleaning solutions, janitorial chemicals, automotive and paint products, and consumables (e.g. batteries, fluorescent lamps).

Pollutants of Concern

This BMP encourages the replacement of chemicals and consumables with safer alternative products, therefore, this BMP has no pollutants of concern. Follow the procedures in the Landscape Design and Maintenance Plan (WSP, 2019), available on the MTS Intranet, or from the Environmental Health and Safety Specialist regarding disposal of pesticide containers and unusable pesticides or other chemicals that are replaced with a safer alternative product. It is important to note that although alternative products are safer, they are not completely safe and BMPs should be followed per usual.

Application

The usage of Safer Alternative Products reduces the harm to the environment that O&M materials and products have if they come into contact and contaminate stormwater. Although Safer Alternative Products are not 100% safe, they are less harmful, in many cases cheaper, and readily available.

Operational Procedures

Approach

Develop a comprehensive program based on the:

- "Precautionary Principle," which is an alternative to the "Risk Assessment" model that says it's
 acceptable to use a potentially harmful product until physical evidence of its harmful effects are
 established and deemed too costly from an environmental or public health perspective. For
 instance, a risk assessment approach might say it's acceptable to use a pesticide until there is
 direct proof of an environmental impact. The Precautionary Principle approach is used to evaluate
 whether a given product is safe, whether it is necessary, and whether alternative products would
 perform just as well.
- Environmentally Preferable Purchasing Program, which minimizes the purchase of products containing hazardous ingredients used in the facility's custodial services, fleet maintenance, and facility maintenance in favor of using alternate products that pose less risk to employees and to the environment.
- Integrated Pest Management (IPM) or Less-Toxic Pesticide Program, which uses a pest management approach that minimizes the use of toxic chemicals and gets rid of pests by methods that pose a lower risk to employees, the public, and the environment.
- Energy Efficiency Program, which includes a no-cost and low-cost energy conservation and efficiency actions, that can reduce both energy consumption and electricity bills, along with longterm energy efficiency investments.
- Consider the following mechanisms for developing and implementing a comprehensive program:
 - Policies
 - Procedures





SAFER ALTERNATIVE PRODUCTS

- Landscape Design and Maintenance Plan
- Standard operating procedures (SOPs)
- Purchasing guidelines and procedures
- Bid packages (services and supplies)
- Materials
 - Preferred or approved product and supplier lists
 - Product and supplier evaluation criteria
 - Training sessions and manuals
 - Fact sheets for employees
- Purchasing departments should be encouraged to procure less hazardous materials and products that contain little or no harmful substances or TMDL pollutants.
- This BMP has no regulatory requirements. Existing regulations already encourage facilities to reduce the use of hazardous materials through incentives such as reduced:
 - Specialized equipment storage and handling requirements,
 - Stormwater runoff sampling requirements,
 - Training and licensing requirements, and
 - Record keeping and reporting requirements.





Purpose

Given that MTS has an existing Spill Prevention, Control, and Countermeasure (SPCC) Plan which is updated regularly; MTS provides SPCC training annually; and each MTS department has a Spill Response standard operating procedure (SOP), this BMP Maintenance Fact Sheet has been developed in support of the existing MTS SPCC Plan, training and existing departmental spill prevention SOPs. Improperly controlled spills and leaks can adversely impact the storm drain conveyance system, and ultimately the receiving waters. Proper spill prevention and response training of municipal employees can minimize the impact of spills to the environment and prevent common spills before they happen.

Pollutants of Concern

This BMP provides guidance regarding small and large non-hazardous spills as well as hazardous spills. Any spill more than 42 gallons is managed by the MTS hazmat vendor. MTS is only responsible for containing a spill to prevent it from entering a storm drain. Pollutants of concern are contaminant specific based on the nature of the spilled material. In addition to responding to the spill using the guidelines provided with this BMP, MTS employees shall protect all drain inlets and watercourses from spills during the response activity.

Application

The following procedures will help minimize the possibility of spills occurring and establish effective spill response measures when they do happen. In combination with thorough training of MTS staff the risk of spill pollutants entering the stormwater system and receiving waters is greatly reduced.

Operational Procedures

- Major steps in the Spill Prevention and Response plan are as follows:
 - Thorough training of employees of prevention, response, and reporting techniques.
 - Follow spill and leak prevention measures to minimize the risk of spills.
 - When a spill occurs, follow the spill response procedures outlined in the SPCC Plan.
 - Proper reporting and record keeping of employee training, spill prevention successes and failures, and spill response activities will provide data to improve the process in the future.

Prevention

- Implement the procedural guidelines as indicated in the MTS SPCC Plan and/or appropriate department Spill Prevention SOP.
- In combination with the measures referenced in the SPCC Plan, the following records will help minimize spills and provide supplementary information if one occurs.
 - Facility description including the address, activities, and materials involved.
 - Identification of key spill response personnel beginning with the MTS Environmental Health and Safety Specialist
 - MTS Environmental Health and Safety Specialist and onsite "Designated Person(s)
 Accountable for Discharge Prevention"
 - (1) Depending on the facility this may be the Facilities Supervisor, Foreman, Maintenance Manager, etc.



- Hazmat Contractor/Vendor
- Local Fire Department
- Local Police Department
- Nearest Hospital
- Hazardous Materials Division/Certified Unified Program Agency 858-505-6880
- Identification of the potential spill areas or operations prone to spills and leaks.
- Identification of which areas should be or are bermed to contain spills and leaks.
- Facility map identifying the key locations of areas, activities, materials, structural BMPs all with risks of spills and leaks.

Material Handling Procedures

Spill response procedures for each at risk area, activity, material, etc.:

- Assess the site and potential impacts including proper identification and labeling of all containers
- Material containment
- Proper personnel notification and evacuation procedures
- Site clean up
- Waste material disposal
- Record keeping
- Product substitution with approved safer alternative products where practical and effective. Safer
 alternative products are less harmful to the environment, but not harmless. Always use the
 materials per the manufacturer's instructions and continue to follow BMPs to keep the materials
 out of the stormwater drainage system and watercourses.
- Recycle, reclaim, or reuse of materials whenever possible to reduce the amount of materials transferred into the facility or into the field.
- If possible, move material handling indoors, under cover, and away from storm drains or watercourses.
- Properly label all containers so the contents are easily identifiable.
- Berm storage areas to contain material if a spill or leak occurs.
- Cover outside storage areas with a permanent structure, or if not feasible then cover with a tarp to protect from rainfall and pollutant discharge.
- Check containers, berms, and at-risk areas often for leaks and spills. Replace containers that are leaking, corroded, or otherwise deteriorating with containers in good condition. Collect and spilled and leaked materials by dry methods if possible and properly dispose of them.
- Store, contain and transfer liquid materials in such a manner that if the container is ruptured or the contents spilled, they will not discharge, flow, or mix with rainfall and end up in the stormwater drainage system.
- Place drip pans or absorbent materials beneath all mounted taps and at all potential drip and spill
 locations during the filling and unloading of containers. Collected liquids or soiled absorbent
 materials should be reused and recycled or properly disposed.
- For field programs and maintenance activities, only transport the minimum amount of material needed for the daily activities and transfer materials between containers at a designated area within MTS yard areas that are designed to contain spills and leaks.
- If paved, sweep and clean storage areas monthly, and do not use water unless all the water will be collected and disposed of properly.

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SPILL PREVENTION AND RESPONSE

- Install a spill control device (such as a tee section) in any catch basins that collect runoff from storage areas containing oil, gas, or other materials that separate and float on water. This allows for easier cleanup if a spill occurs.
- Protect catch basins and storm drains (see 'Storm Drain Inlet Protection' fact sheet) while conducting field activities to contain materials if a spill occurs during operation and maintenance.
- Ensure each potential risk area and maintenance activity area always has spill cleanup materials readily available, supplies are routinely checked, and all employees are familiar with their location.

Training

- Provide initial and continued spill prevention, spill response, and cleanup training on an annual basis.
- Review past incidents from filed records to provide relatable examples to employees
- Well-trained employees can reduce human errors that lead to leaks and spills, and can give insight on how to prevent future problems.
- Each employee should immediately have the resources, tools and education to prevent, contain, and clean up leaks and spills.
- Employees should be familiar with this fact sheet, all relevant MTS Source Control Fact Sheets pertaining to maintenance activities they are responsible for, and the MTS Illicit Discharge Detection and Elimination Plan, SOPs and SPCC Plan.
- Focus training on recognizing and reporting potential or current spills and leaks, steps taken to mitigate risk, and where employees can find more help if necessary when a spill or leak occurs.
- Employees responsible for aboveground storage tanks and liquid transfers from large bulk containers should be thoroughly and routinely trained with the Spill Prevention and Control procedures and the plan should be readily available for reference on site and/or within their MTS vehicle.
- Employees should understand where spill cleanup materials are available for each at risk activity and at every facility where leaks and spills may occur.

Definition

Minor Spill poses no significant harm or threat to human health and safety or to the environment:

- Less than 42 gallons
- Is easily stopped
- Localized near sources
- Has not entered storm drain and has not left the property
- Little risk to human health or safety
- Little risk of fire or explosion

Major Spill cannot be safely controlled or cleaned up by facility personnel:

- Exceeds 42 gallons in amount of spillage
- Requires special equipment or training to clean up
- Large enough to spread beyond immediate discharge area
- Material enters storm drain or leaves the property
- Danger of fire or explosion
- Material is highly toxic, corrosive, flammable, or reactive and poses a significant hazard to human health or safety



Spill Cleanup Procedures

- If a spill occurs, stop the spill (if needed).
- Notify the key spill response personnel immediately.
 - If safe to do so, take steps below to contain the material and block any nearby storm drains. If the material is unknown or hazardous wait for instruction from properly trained personnel (i.e., Immediate Supervisor or onsite "Designated Person(s) Accountable for Discharge Prevention" to contain the materials.
 - Minor Spills and leaks
 - Use a rag, damp cloth or absorbent materials for general cleanup of liquids
 - Use brooms or shovels for the general cleanup of dry materials
 - If water is used, it must be collected and properly disposed of; wash water cannot enter the storm drain.
 - Dispose of any waste materials properly
 - Clean or dispose of any equipment used to clean up the spill properly
 - Major Spills
 - Foreman should direct Mechanics and Servicers to stop the spill (if safe to do so)
 - All Mechanics and Servicers should immediately evacuate the area of the spill
 - and report to the Foreman at the designated muster point.
 - The Foreman shall direct Mechanics and Servicers to pass the word to evacuate
 - any areas, at MTS or at nearby properties, that would be potentially endangered
 - by, or exposed to the spill.
 - 1. For liquid spill, give particular attention to the downhill movement; and
 - 2. For gas, pay attention to direction of wind movement.
 - The Foreman shall contact the Facilities Manager and Communication
 - Supervisor, who in turn shall contact the Maintenance/Transportation Directors
 - and C.O.O.
 - Foreman shall contact emergency spill response vendor for assistance, then
 - notify MTS' Environmental Health & Safety Specialist.
 - Every effort must be made to prevent spilled liquids from entering the storm drain
 - or leaving the property block storm drains in the event of a liquid spill.
 - The Foreman and emergency response personnel shall direct Mechanics and
 - Servicers to perform specific functions to assist in stopping and cleaning up the
 - spill
 - The Foreman shall follow and comply with requirements set forth in the yellow
 - Emergency Procedures Binder located in the Shop Foreman's office.
 - For any sized hazardous or major spill, a private cleanup company or Hazmat team may need to be contacted to assess and control the situation, at the decision of the onsite "Designated Person(s) Accountable for Discharge Prevention".
 - Absorbents, gels, and foams are potential chemical adsorbents used to clean up hazardous spills, and proper disposal per regulations is required
 - If the spill material is hazardous, then any cleanup materials are also deemed hazardous and proper disposal or transfer to a certified laundry is required.

Reporting

• Report any spills and leaks immediately to the identified key spill response personnel as each event can be used as a learning opportunity to prevent future spills. Report spills in accordance



with applicable reporting laws. Significant releases that put human health or the environment at risk must be reported immediately to:

- 9-1-1, then notify
- California Office of Emergency Services (OES) State Warning Center at 800-852-7550, and the
- Unified Program Agency
- Federal regulations require immediate notification of any oil spill into a water body or onto an adjoining shoreline to the following agencies:
 - Coast Guard, San Diego Sector 619-278-7033
 - San Diego Regional Water Quality Control Board and
 - Department of Fish and Wildlife, Office of Spill Prevention and Response (OSPR).

For reportable quantities of an oil spill, Federal regulations require immediate notification to the

• National Response Center (NRC) at 800-424-8802 (available 24/7)

Following containment and cleanup of the spill, a detailed report about the incident should be generated and kept on file; briefing staff about the incident can help with training and preventing future spills.

Reports should include:

- Date and time of the incident
- Weather conditions (temperature, rain, cloud cover)
- Duration of the event
- Cause of the spill, leak, and/or discharge (if unknown give all known information surrounding the before, during, and after of the incident)
- All response procedures implemented and persons notified from the moment the spill was noticed in a timeline format
- Environmental Problems associated with the incident
- Additional field notes, timed and dated photos or videos, drawings, and maps are highly encouraged
- Establish separate record keeping systems to document all housekeeping, routine preventative maintenance inspections and training logs.

Inspection documentation should contain:

- The date and time the inspection was performed
- Name of the inspector and employees present
- Items, activities, or areas inspected
- At risk storage, process, or activity thoroughly explained
- Corrective action taken (relocate materials, alter a process, further training)
- Date of corrective action
- Additional field notes, timed and dated photos or videos, drawings, and maps are highly encouraged

Special Considerations

- Facilities with a storage capacity of 10,000 gallons or more of petroleum are required by Federal regulation (40 CFR Part 112) to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan.
- The state regulates hazardous material storage (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the release or potential release of hazardous materials.
- If permitted, consider requiring a connection of smaller secondary containment areas (less than 200 sq. ft.) to the sanitary sewer while hard connections to the storm drain are prohibited.





• Prevention of leaks and spills is inexpensive and achieved simply with continued training, education, and continued updates to procedures to best fit each specific at-risk activity or area. Containment, treatment, and disposal of soil, water, and material wastes from spills and leaks is exponentially more expensive than prevention.





VEHICLE AND EQUIPMENT FUELING

Purpose

Vehicle and equipment fueling includes fueling of MTS fleet vehicles, busses, street sweepers, generators, and any other fuel transfer activity. When stormwater mixes with fuel transfer leaks and spills, hydrocarbons, oil and grease, and heavy metals can be discharged into the stormwater drainage system and watercourses. The possibility of discharging pollutants into stormwater is mitigated when the following procedures are incorporated into fueling operations.

Pollutants of Concern

Source	Material(s)		Pollutant(s) of Concern
Leaks and Spills		Total Petroleum Hydrocarbons	
	Fuel		Diesel Range Organics
	1 0.01		Metals
			Oil and Grease

Application

A reduction of pollutant discharge is achievable through effective implementation of the BMPs laid out within this document. Thorough and regular training of employees on the operational procedures for fuel transfer activities and general pollution prevention strategies will encourage effective implementation.

Operational Procedures

General Upkeep

- "Spot clean" small spills, leaks, and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.
- Use officially maintained offsite fueling stations whenever possible as these businesses are better equipped to handle fuel leaks and spills properly.
- Educate employees about pollution prevention measures and goals.
- Focus pollution prevention education on minimizing or eliminating leaks and spills and proper containment during liquid transfer activities.
- Post signs that ban changing engine oil or other fluids at fueling stations.
- Immediately report leaking vehicles and ensure that they are taken out of service.
- Install and routinely maintain inlet catch basins equipped with a small sedimentation basin or grit chamber to remove large particles from stormwater in highly impervious areas.
- Releasing non-contaminated stormwater in secondary containment/storage will increase capacity prior to rain events.
- Ensure overflow protection devices on tank systems warn the operator to automatically shut down transfer pumps when the tank reaches full capacity.
- Inspect protective guards around tanks and piping to prevent vehicle or forklift damage.
- Clearly tag and label all valves to reduce human error.
- Ensure all fuel hoses will automatically shut off if severed or detached.



VEHICLE AND EQUIPMENT FUELING

 Address repairs and maintenance as soon as possible to prevent putting fueling station out of service.

Onsite Fuel Dispensing Areas

- Maintain clean fuel-dispensing areas using dry cleanup methods routinely, such as sweeping for removal of litter, debris, sediment, and absorbents, and use rags and absorbents for leaks and spills. Do not wash down areas with water.
- Fit underground storage tanks with spill containment and overfill prevention systems meeting the requirements of Section 2635(b) of Title 23 of the California Code of Regulations.
- Fit fuel dispensing nozzles with hold-open latches that act as automatic shutoffs except where
 prohibited by local fire departments. Install vapor recovery nozzles to help control drips and
 minimize air pollution from volatile organic compounds (VOCs).
- Post signs at fueling locations warning vehicle operators "No Topping Off Fuel Tanks,"
- Design fueling areas to prevent stormwater run-on and runoff to/from fueling areas respectively using berms, curbs, and sloping and pave areas with concrete (Portland cement concrete is preferred) or an equivalent smooth impervious surface rather than asphalt.
- Cover fueling area while routing roof runoff directly to storm drains and avoiding fuel dispensing areas.
- Use a perimeter drain around the covered fueling area or slope pavement inward with drainage to a dead-end sump. Proper maintenance and disposal of water in dead-end sump is required. Use of extruded curbs along the upstream side of fueling areas to prevent stormwater run-on is another option.
- Where asphalt is already in use, apply a suitable sealant that decreases the porosity of the surface therefore creating a more easily cleaned surface when leaks or spills occur.
- Keep equipment clean by not allowing excessive build-up of oil and grease without the use of liquid cleaners whenever possible to reduce waste and discharge.
- Use signage on storm drain inlets indicating they are not to receive liquid or solid wastes.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Seal off storm drains in the vicinity during fuel transfer.
- Use only watertight waste receptacles, keep the lids closed, and implement one of the following: a cover, a low containment berm, or use and maintain drip pans under the waste receptacles. Always dispose of collected water properly and if drip pans are in use, keep several stored nearby in a covered location.
- All wastes should be put into containers and stored appropriately until it can be recycled or disposed of properly.
- Use signage at sinks to remind persons that pouring wastes down the drain is prohibited.
- Clean all MTS facility storm drain inlets regularly using dry methods of sweeping, litter removal, and vacuums.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are more easily recycled if kept separate.
- Promptly transfer fluids to the proper waste or recycling drums and store in an appropriately
 designed area that can contain spills. Drip pans are used temporarily, and should never act as
 storage containers.
- Appropriately label all secondary containers.
- Follow all federal and state requirements regarding underground storage tanks, or install above ground tanks also per regulations.
- Refer to the 'Spill Prevention and Response' fact sheet in the event of large spills or leaks.





VEHICLE AND EQUIPMENT FUELING

- Keep the spill and response plan for each facility current, with updates from incidents, regulation changes, and inspections.
- Stock adequate spill cleanup materials and ensure that they are readily accessible to the specific MTS facility. Routinely inspect storage areas for sufficient supplies.
- Store portable absorbent brooms in unbermed fueling areas.
- Install and maintain an oil and water separator (clarifier) and connect to the sanitary sewer, not the stormwater drainage system.
- Approved safer alternative products should be used where practical and effective.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.
- While safer alternative products may be less harmful to the environment, they are not harmless. Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.

<u>Design Considerations of New Installations</u>

- Fuel dispensing areas must be paved with Portland cement concrete or an equivalent smooth impervious surface, with a 2-4% slope to prevent ponding. To prevent stormwater run-on to the extent practicable, the fueling area must be separated from the rest of the site by a grade break. The fuel dispensing area extends 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus 1 foot, whichever is less. The paving around the fuel dispensing area may exceed the minimum dimensions of the "fuel dispensing area" stated above.
- A permanent cover is required over the fuel dispensing area, with minimum dimensions equal to
 or greater than the area within the grade break or the fuel dispensing area, as defined above. The
 cover must not drain stormwater onto the fuel dispensing area. Convey stormwater runoff from
 the permanent cover away from the fueling area to avoid contamination from leaks and spills
 outside of the fueling area.
- If necessary install and maintain an oil control device (e.g. clarifier) in the appropriate catch basins to treat runoff from the fueling area.
- To the extent practicable, grade and pave the outdoor waste receptacle area to prevent stormwater run-on to the fueling area.
- To the extent practicable, grade and pave the air/water supply area to prevent run-on of stormwater to the fueling area.



Purpose

Toxic compounds, oils and greases, heavy metals, nutrients, suspended solids, and other pollutants may enter the stormwater drainage system through improper storage, handling, and disposal of solid wastes.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Waste handling and storage	Trash	Bacteria, plastics, sediment, heavy metals, organic compounds, solids
Chemical and hazardous	Pesticides and Herbicides	Organic compounds
materials/waste	Fertilizers	Nitrates, phosphates
	Cleaning supplies	Organic compounds, antimicrobials, endocrine disruptors
	Treated Wood Products	Arsenic, Total Chromium, Copper and Zinc
Landscaping and other products	Aluminum Sulfate	Aluminum, TDS, Sulfate
	Sulfur - Elemental	Sulfate
	Fertilizers - Inorganic	Nitrate, phosphate, TKN,
	Fertilizers - Organic	potassium
	Natural Earth (Sand, Gravel and Topsoil)	Nitrate, TOC, COD, organic nitrogen (TKN)
	,	Sediment
	Herbicide	Chemical specific; check SDS
	Pesticide	Chemical specific; check SDS
	Lime	pH altering substance

Application

Prevention and reduction of pollutant discharge from waste handling starts with tracking current waste generation, storage and disposal methods. Establishing a thorough understanding of current habits reveals methods of reducing waste generation and disposal through source reduction, re-use, and recycling. Preventing run-on to and runoff from waste storage areas in combination with reducing waste production and modifying current waste disposal methods will prevent and reduce pollutant discharge to stormwater.



Operational Procedures

- Reduce waste generation by continuing to implement the following source controls:
 - Production planning and sequencing
 - Process and equipment modification
 - Raw material substitution or elimination
 - Material reuse and recycle
 - Loss prevention and housekeeping
 - Waste segregation and separation
 - Close loop recycling
- Utilize the MTS material tracking system (i.e. SAP) to increase awareness about material usage and disposal, and encourage material reuse and recycle whenever possible through awareness and training.
- Identify problem areas through inspections and respond with further training, employee awareness, and process modification.
- Switch to non-toxic, solvent free, reusable and recyclable materials and use the entire product before disposing the container.

Waste Receptacle Area Maintenance

- Use leak proof containers with lids for storage. Cover waste piles except when in use (tarps are acceptable) and prevent stormwater run-on and runoff with a berm.
- Use drip pans or absorbent materials whenever grease containers are emptied by vacuum trucks or other means. Grease cannot be left on the ground. Properly dispose of grease, oil, and absorbents as garbage.
- Inspect storage containers weekly for leaks and to ensure lids prevent stormwater from entering
 the containers. Remove from service and replace any containers that are leaking, corroded, or
 otherwise deteriorating.
- Transfer waste from damaged containers into safe containers immediately.
- Do not hose down work areas, alternatively dry sweep the MTS facility routinely to keep litter and sediment out of drainage systems. If work areas are washed, collect and direct wash water to a primary clarifier or a oil/water separator and not to the street or storm drain.
- Take special care when loading or unloading wastes to minimize losses and pollution. Loading systems can minimize spills and fugitive emission losses from dust, mist, etc. Vacuum transfer systems can minimize waste loss.
- Clean up spills immediately and refer to the Spill Prevention, Control and Countermeasure (SPCC)
 Plan, department SOP or the SC-10 Spill Prevention and Response fact sheet for thorough procedural actions to follow when leaks and spills occur.
- Stencil prohibitive dumping and no littering messages on the facility's property near storm drains (e.g. "Dump No Waste, Drains to River").

Litter Control

- Post "No Littering" signs, enforce anti-litter laws, and encourage awareness of pollution from litter and wastes to employees.
- Provide enough litter receptacles in multiple locations for each facility based on waste tracking inspections and logging.



• Empty litter receptacles frequently and ensure covers are operational to prevent spillage.

Waste Collection

- Keep waste collection areas clean using dry methods whenever possible.
- Secure and close lids of waste containers tightly when not in use or during transfer.
- Place waste containers under cover whenever possible.
- Do not fill waste containers with washout water or any other liquid.
- Ensure only appropriate solid wastes are added to the waste container. Hazardous wastes, fluorescent lamps, pesticides, etc. are not permitted in solid waste containers.
- Do not mix wastes as this can cause chemical reactions, makes reuse or recycle impossible, and complicates disposal.
- Ensure vehicles transporting wastes are supplied with spill prevention equipment that secures waste during transport, and spill response materials in the event a spill occurs.
 - Vehicles equipped with baffles and sealed gates can prevent liquid waste spills. Vehicles
 equipped with spill guards prevents solid waste spills.

Chemical and Hazardous Wastes

- Designate separate hazardous waste collection areas at each facility.
- Store hazardous materials and wastes per local, state, and federal codes including fire hazard compliance.
- Place hazardous waste containers in secondary containment.
- Ensure hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Reusing or recycling hazardous wastes is not permitted and proper disposal is required by a licensed hazardous waste handler.

Run-on and Runoff Prevention

- Prevent stormwater run-on from entering the waste management area by enclosing the area or building a berm, and covering the area to prevent contact with rain.
- Acceptable covers are permanent structures or temporary covers like reinforced tarpaulin, polyethylene, polyurethane, or chlorosulfonated polyethylene (CSPE) sheets.
- Cover waste piles, waste receptacle areas, and dumpsters.
- Inspect covers and waste receptacles for holes, cracks and damage and take out of use, repair, and replace to prevent stormwater contact with waste.
- Move waste management activities indoors when all safety concerns such as fire hazard and ventilation are addressed.

Inspection Considerations

- Establish a routine inspection schedule of all waste management activities and equipment including:
 - Pumps, hoses, and machinery used for waste collection and transfer
 - Dumpsters, waste receptacles, and cleaning equipment
 - Spill prevention and response supplies
 - Valves, lines, seals, and pumps





- Temporary and permanent waste pile and waste area covers
- Schedules of waste collection from receptacles to prevent overflow
- Note areas with litter problems
- Take out of use, repair whenever possible, and replace before using damaged equipment.
- Correct waste receptacle schedules when overflow occurs.
- Place additional "No Littering" signage where litter problems occur and rethink waste receptacle placements and quantities.

Training

- Train new and existing staff continuously about pollution prevention and waste handling/disposal.
- Provide employees and contractors with proper spill containment and cleanup procedure training as outlined in the 'Spill Prevention and Response' fact sheet. Each employee should have the tools and knowledge to immediately initiate a response to a spill if one should occur.
- Train employees and contractors in proper hazardous waste management.
- Train employees to complete thorough inspections to identify issues before they become a leak, spill, or safety concern.
- Educate employees about which materials are reusable, recyclable, or single-use, and other waste reduction techniques as outlined in this fact sheet.
- Ensure all employees have a working knowledge of this document.



APPENDIX

FIELD PROGRAM SOURCE CONTROL MEASURES



GRAFFITI AND PAINT REMOVAL

Purpose

Graffiti and paint are removed from portable toilets, bus shelters and interior walls of transit stations. Graffiti and paint removal includes using support equipment and graffiti and paint removal products or sanding to clean concrete walls, portable toilets, buses and LRVs. This activity may be performed indoors at an MTS Maintenance facility or onsite at a transit station or bus shelter.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Paint removal	Paint Strippers	VOCs, SVOCs
Graffiti removal products	Acids, bleaches, detergents, solvents, paint strippers	Chlorine, phosphate, VOCs, SVOCs, acetic acid, nitric acid
Painting over graffiti	Paint	Heavy metals, organic compounds
Fuel for mechanical equipment	Fuel	Total petroleum hydrocarbons, diesel range organics
Leaking maintenance vehicles	Vehicle Fluids	Oil and grease
Water associated with cleaning products	Non-stormwater	Chlorine, phosphate, VOCs, SVOCs
Sanding equipment	Fugitive Dust	Particulates (PM ₁₀ PM _{2.5})
Graffiti removal products	Acids, bleaches, detergents, solvents, paint strippers	Chlorine, phosphate, VOCs, SVOCs, acetic acid, nitric acid
Mixing paint	Paint thinner/Mineral Spirits	Organic compounds, sulfuric compounds

Application

The following procedures are used where graffiti or paint removal is required at bus shelters and interior walls of transit stations. These procedures are required when grit and non-stormwater may pollute stormwater runoff or discharge to storm water drainage systems and watercourses

Limitations

The BMPs presented for this activity provide operating methods or measures only for storm water pollution prevention. The applicable local, state and federal hazardous materials, employee safety and fire prevention requirements are not presented.

- This activity shall not be performed during rain events or prior to predicted rain events.
- Secure paint while transporting to avoid spills.





GRAFFITI AND PAINT REMOVAL

- Protect drain inlets and watercourses from potential spills (see Storm Drain Inlet Protection fact sheet).
- Tarps and similar control measures should be used to prevent spills or material drift from being deposited into storm water drainage system or watercourses.
- Only MTS pre-approved graffiti removal products should be used.
- Mix paint indoors or in a containment area away from drain inlets.
- Water used for cleaning and decontamination shall not be allowed to enter storm water drainage system or watercourses.
- Waste from cleaning paint equipment or brushes should be collected and put into a bucket or drum with a secure lid for transport back to the maintenance facility to be reused, recycled or disposed of properly.
- Paint waste, especially if it is oil based or contains paint thinner, would need approval from the publicly owned treatment works to dispose of in sewer.
- Solid waste should be collected by vacuum or sweeping and secured in an appropriate container for transport back to the Maintenance facility to be reused, recycled or disposed of properly.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless.
 Use the materials according to the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.
- The following operational procedures shall be used for graffiti and paint removal from portable toilets, buses and LRVs
 - Remove paint from buses and LRVs inside the paint booth building at the Maintenance facility
 - Remove paint from portable toilets onsite, wherever the portable toilet is located
 - Protect internal drain inlets; inspect drains every 2 to 3 weeks
 - Clean surface of buses, LRV and portable toilet with a damp cloth
 - Use suction sanders for paint and graffiti removal
 - Any remaining solid waste should be collected by sweeping and secured in an appropriate container with a lid



GROUNDS MAINTENANCE AND LANDSCAPING

Purpose

Grounds maintenance at MTS facilities includes care of landscaped areas and sweeping pavements. As referenced in the MTS Landscape Design and Maintenance Plan (WSP, 2019), trees and shrubs of planted landscape vegetation along the MTS right-of-way are pruned to preserve their health, protect utilities, maintain sight distances, preserve aesthetics and prevent property damage. Remove dead or diseased branches, trees and shrubs to protect public safety.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Sweeping and handling of vegetation, litter and sediment	Trash, vegetation debris and sediment	Plastics, suspended solids, organic matter, invasive species
Chemical vegetation control	Fertilizers - organic and inorganic	Nitrates, phosphates
	Pesticides and Herbicides Lime Aluminum Sulfate	Organic compounds Alkalinity, pH Total Dissolved Solids
	Sulfur-Elemental	Sulfate
	Soil Amendments	BOD, COD, Sulfate, Total Organic Carbon, Calcium, Sulfate
Unstable earth from dying or	Soil from erosion and runoff	Sediment, particulate matter
damaged vegetation	Natural Earth (Sand, Gravel and Topsoil)	Turbidity, Sediment
Irrigation of landscaped areas	Non-stormwater runoff	Suspended solids, particulate
	Fertilizers - organic and inorganic	matter, turbidity Nitrates, phosphates
	Pesticides	Organic compounds
Washing equipment	Soil	Sediment, suspended solids
	Non-stormwater	Chlorine
	Fertilizers	Nitrates, phosphates
	Pesticides	Organic compounds
	Vegetation Clippings	



GROUNDS MAINTENANCE AND LANDSCAPING

		Nitrates, phosphates, invasive species
Fueling of mowing, blowing, and other motorized groundskeeping equipment	Petroleum products	Organic compounds, oils and grease, diesel range organics

Application

The following procedures are used where grounds maintenance may pollute storm water runoff or discharge to storm water drainage system and watercourses.

- The MTS facility should be routinely swept to keep litter and sediment out of drainage systems.
- Apply fertilizers and pesticides sparingly and in accordance with the label instructions and the Landscape Design and Maintenance Plan (WSP, 2019). Refer to the Safety Data Sheet (SDS).
- Do not remove original product label from chemical containers as it contains important spill cleanup and disposal information.
- Use the entire product before disposing of the container.
- If a product is concentrated and must be diluted, before use, transfer the diluted product to a secondary container. Ensure that the secondary label complies with the labelling requirements of the globally harmonized system (GHS).
- Avoid excessive irrigation of landscaped areas to minimize potential runoff.
- Control erosion and sediment runoff by referencing the BMPs in the MTS Storm Water Management Plan (WSP, 2019) or the Post Construction Stormwater Management Manual (WSP, 2020)
- Preserve existing vegetation and replace damaged vegetation as needed.
- Do not locate stockpiles near drain inlets or watercourses.
- Brush cuttings that are not chipped should be transported to the maintenance facility for proper disposal.
- All wastes should be put into containers and stored appropriately until it can be recycled or disposed of properly.
- All materials of environmental concern shall be properly stored in appropriate secure containment, in accordance with applicable state and federal regulations.
- If possible, fuel equipment at the maintenance facility before heading out to the job site. If
 equipment must be fueled at the job site, then do not fuel equipment near drain inlets or
 watercourses.
- Use the guidance provided in the SDM-3 Storm Drain Inlet Protection fact sheet to identify drain inlets and protect them from potential spills and vegetative debris.
- Keep vegetation debris, clippings and mulch out of the storm water drainage system and watercourses. Brush cuttings chipped into wood mulch should not be used at locations prone to washout.
- If rinsing equipment is necessary, wait until the end of the day. Return the equipment to the maintenance facility and rinse the equipment at yard. Sediment from equipment rinsing shall not





GROUNDS MAINTENANCE AND LANDSCAPING

be discharged to the storm water drainage system or watercourses. Rinse equipment in designated rinsing areas to prevent discharge to the storm water drainage system





Purpose

Painting operations apply to the painting of buses or LRVs but may also include painting of surfaces to cover graffiti at facilities away from MTS Maintenance facilities. Routine maintenance of painting equipment is also included in this activity.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Painting	Paint, Thinners, Resins, Sealants, Solvents, Lacquers, Varnish, Enamels and Turpentine	COD, VOC, SVOC
Paint removal	Paint Strippers	VOCs, SVOCs
Fuel for mechanical equipment	Fuel	Total petroleum hydrocarbons, diesel range organics
Water associated with cleaning	Non-stormwater	Chlorine, phosphate, VOCs, SVOCs
Sanding equipment	Fugitive Dust	Particulates (PM ₁₀ PM _{2.5})

Application

The following procedures are used where paint may pollute storm water runoff or discharge to storm water drainage system and watercourses.

Operational Procedures - Offsite Facilities

- This activity shall not be performed during rain events or prior to predicted rain events, unless required by emergency conditions.
- Make sure paint containers are secure during transport to prevent spillage to the roadway.
- Mix paint indoors away from drain inlets or in a containment area.
- Protect drain inlets and watercourses from potential spills including painting products.
- Monitor weather and wind when using spray equipment.
- Use tarps or canvas under work area to capture excess paint or paint chips. Tarps and other control
 measures should be used to prevent spills or material drift to watercourse (e.g., when working
 adjacent to water courses).
- Transfer material captured into a waste container for proper disposal at a Maintenance facility.
- Do not remove original product label from paint or other hazardous materials containers as it contains important spill cleanup and disposal information. Use the entire product before disposing of the container.
- Appropriately label all secondary containers.
- Collect all paint equipment wash water and return it to a Maintenance facility for proper disposal.



Operational Procedures - Paint Booth(s) at MTS Maintenance Facilities

- Protect internal drain inlets from potential spills including painting products.
- Close all doors of paint booth prior to implementing any painting operation
- Clean affected surface of vehicle with a damp cloth
- Perform painting in a contained area within booth and ensure downdraft is conveyed to the filtration chamber
 - Dispose of filter at a frequency recommended by the manufacturer
 - Discard VOC waste in designated drum with secondary containment
- Use shop vac at rails to remove any water
 - Dispose of water in designated drum in the containment area
 - Ensure contractor removes drum for disposal on a weekly basis
- Sweep up solid waste daily and place in trash can with lid



Purpose

BRT Stations, trolley platforms, MTS O&M facilities and bus shelters are cleaned by power washing regularly. Tasks include the operation of washing equipment, vacuums, storm drain inlet protection devices and sweeper vehicles.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Pressure washing	Runoff	Suspended Solids/Sediment, Debris, Trash
	Cleaning products	Acids, Chlorine, Phosphate
	Chlorinated water	Chlorine

Application

The following procedures are used at MTS BRT Stations, trolley platforms and bus shelters. Cleaning activities may pollute stormwater runoff or discharge to storm water drainage systems and watercourses.

- If possible, check the pressure washing unit prior to heading out to the job site. This includes:
 - Removing dirt or debris from the screen on the intake hose
 - Checking all hoses and connections for water leaks
 - Replenishing oil levels in the motor and pump mechanism
 - Fueling the motor with unleaded gasoline
 - Fueling the burner tank on the hot pressure washer with diesel
- If outdoor cleaning is required, this activity shall not be performed during rain events or prior to predicted rain events.
- Identify all drain inlets, watercourses and manholes and protect from potential spills including sediment, debris and wash water (See 'Storm Drain Inlet Protection' fact sheet).
- Do not use sand bags in lieu of other storm drain inlet protection devices as they create sediment loads in the drainage system when ruptured.
- Prior to power washing, dry clean the area (sweep, collect, and dispose of debris and trash).
 - Use a street sweeper to remove sediment and debris from transit driveways and paved concrete areas.
- For power washing MTS bus shelters and benches, identify the low point in the gutter and install a temporary trap using a sand snake.
 - Use a wet vac to collect the accumulated wash water from the temporary trap
 - Filter and recycle wash water, or
 - Transfer wash water to a tank on the truck for reuse or proper disposal
 - Ensure all surfaces are dry prior to leaving the job site
- Water used for cleaning shall not be allowed to enter storm water drainage system or watercourses.



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- At BRT Stations, recycle wash water back through the washing system or convey water to a landscaped area.
- If detergent is required for heavily soiled areas at MTS bus shelters
 - Use safer alternative products approved by MTS Environmental Health & Safety Specialist
 - Collect accumulated wash water and transfer to a tank on the truck for proper disposal
 - At times, wash water is transferred to a clarifier at the Maintenance Facility for offsite discharge.
- The MTS Environmental Health & Safety Specialist Supervisor must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless.
- Use the materials according to the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.





SANITARY/SEPTIC WASTE MANAGEMENT

Purpose

Portable toilet units are used at locations where permanent bathrooms are unavailable. Sanitary/septic waste management procedures and practices are designed to minimize or eliminate the discharge of sanitary/septic waste to storm drain systems or watercourses.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Spills	Wastewater	E. coli, fecal coliform, bacteria
	Biocides	and pathogens
		Chlorine most common; check
		SDS
	Detergents	Surfactant

Application

Sanitary/septic waste management practices shall be implemented at all MTS facilities that use portable toilet units. Proper sanitary and septic waste management requires providing well-maintained facilities and arranging for regular service and disposal.

Implementation

MTS contracts with a vendor for portable toilet service and maintenance. The vendor is responsible for ensuring that the sanitary wastes are properly disposed per local and state requirements for sewage disposal or as a hazardous waste. Temporary toilet units are serviced three times per week; permanent toilet units are serviced daily.

- Locate portable toilets away from drainage facilities, watercourses and from traffic circulation.
- If site conditions allow, locate portable toilets at least 50 feet away from drainage conveyances, gutters and traffic areas. When subjected to risk of high winds, portable toilets shall be secured to prevent overturning.
- Portable toilets shall be equipped with double containment and an undertray to prevent the discharge of pollutants to the stormwater drainage system or receiving water.
- To prevent leakage, inspect portable toilet units during maintenance.
 - If graffiti is observed, the unit shall be cleaned immediately.
- Vacuum all waste and liquid onsite by pumping liquid waste into the tank of the vacuum truck.
 - Vacuum truck is designed with a holding capacity of 900 gallons for waste and 400 gallons of water
- Inspect hose and connections to prevent leaks during vacuum operations
- Sanitary/septic waste should be discharged to a sanitary sewer or disposed of as a hazardous waste by a licensed hauler.





SANITARY/SEPTIC WASTE MANAGEMENT

- Sanitary/septic waste storage and the disposal procedures should be managed to prevent nonstorm water discharge.
 - If there is a spill, use bleach, pump accumulated liquid waste into the tank of the vacuum truck and follow the procedures in SC-10, Spill Prevention and Response fact sheet.





Purpose

Minimizing the risk of pollutants such as silica, hydrocarbons, oil, grease, and heavy metals from entering the storm drain system by implementing surface repair operations.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Surface Repair	Hot Asphalt	Polycyclic Aromatic Hydrocarbons, Silica, and Total Petroleum Hydrocarbons
	Asphalt Emulsion	
	Liquid Asphalt (tack coat) Seal Coat	
	Cold Mix	
	Crumb Rubber	
	Asphalt Concrete (Any type)	

Application

The following procedures are used to reduce the risk of stormwater pollution during surface repair operations that MTS employees and subcontractors conduct at MTS maintenance facilities, bus and trolley terminals and parking lots.

- Protect nearby storm drain inlets, manholes and watercourses with waterproof material or mesh before applying seal coat, slurry seal, etc., where applicable. Leave covers in place until the entire job is complete and until all water from emulsified oil sealants has drained or evaporated. Using dry methods if possible, clean any debris from these covered manholes and drains for proper disposal.
- Schedule concrete, asphalt, and seal coat repairs during dry weather and not prior to predicted rain events to prevent contamination by contacting stormwater runoff.
- Pre-heat, transfer, and load hot bituminous material away from storm drain inlets.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.
- When working on a bridge or platform, use suspended netting, tarps, additional vacuums and/or berms to contain materials.
- Store materials away from streets, gutter areas, storm drain inlets, watercourses, and irrigation (sprinklers). During wet weather, inspect stored materials to ensure stormwater is not transporting pollutants into the storm system.
- Tarps and similar control measures should be used to prevent spills or material drift from storage areas in wet and dry weather.
- If dust control is required, completely block the storm drain and use only as much water to achieve dust control and to avoid runoff.



Att.A, AI 12, 09/14/23 FSC-6 SURFACE REPAIR

- Dry-sweep and never hose down streets during cleanup. Use a hand broom, street sweeper or vacuum truck. Never dump vacuumed liquid into storm drains. Reuse, recycle or properly dispose waste materials.
- When cleaning heavy oil deposits, use absorbent materials on oil spots prior to sweeping or washing and dispose of used absorbents properly.
- Water used for cleaning and decontamination shall not be allowed to enter storm water drainage system or watercourses.
- The MTS Environmental Health and Safety Specialist must approve safer alternative products.
- Approved safer alternative products should be used where practical and effective.
- While safer alternative products may be less harmful to the environment, they are not harmless. Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses.
- Ensure employees understand common spill prevention and response practices (see 'Spill Prevention and Response' fact sheet).





FSC-7 VEGETATION CONTROL/MOWING

Purpose

Mowing includes removal of grasses and weeds at facilities, and within the MTS right-of-way using machinery and mobile equipment. Mowing is used to protect preferred vegetation, to maintain unobstructed views and to improve MTS facility appearance.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Vegetation	Clippings, Fertilizers	Invasive Species, Sediment, Debris, Nitrates
Vehicles and Equipment	Leaks, Brake Dust	Oil and Grease, Metals
Equipment fueling	Fuel	Total Petroleum Hydrocarbons, Diesel Range Organics
Equipment Rinsing	Non-stormwater	Sediment, Debris, Chlorine

Application

The following procedures are used to prevent releases of clippings, sediment and equipment fluids to the storm water drainage system and watercourses.

- If possible, fuel equipment at the maintenance facility before heading out to the job site. If
 equipment must be fueled at the job site, then do not fuel equipment near drain inlets or
 watercourses.
- Identify drain inlets and protect them from potential spills and vegetative debris.
- Keep vegetation and clippings out of the storm water drainage system and watercourses. Collect vegetation and clippings and transfer them to the maintenance facility for disposal as a solid waste.
- If rinsing equipment is necessary, wait until the end of the day. Return the equipment to the maintenance facility and rinse the equipment at yard. Sediment from equipment rinsing shall not be discharged to the storm water drainage system or watercourses. Rinse equipment in designated rinsing areas, such as wash bays, to prevent discharge to the storm water drainage system.

APPENDIX

STORM DRAIN
MAINTENANCE
MEASURES



Att.A, AI 12, 09/14/23 SDM-1 DRAINAGE SYSTEM MAINTENANCE

Purpose

The stormwater conveyance system collects and transports urban runoff that contains contaminants, therefore debris, litter, and pollutants collect within the drainage system.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Catch Basin Debris	Urban runoff	Suspended Solids/Sediment, Trash and Debris, Pathogens
	Brake pad dust	Metals
	Pesticides	Organics
	Chlorinated water for flushing	Chlorine
	Fertilizers	Nutrients
	Vehicle Fluids	Oil and Grease

Application

Routine maintenance of catch basins, stormwater inlets, and other stormwater conveyance structures will remove pollutants and debris from the system resulting in prevention of clogging the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system flows properly to avoid flooding. In combination with the source control methods of storm water pollution prevention outlined in the other BMP fact sheets, cleaning and maintenance is a critical part of a successful stormwater pollution prevention plan.

- Utilizing methods outlined in the 'Storm Drain Inlet Protection' fact sheet will prevent and greatly reduce the frequency and volume of waste in the drainage system.
- MTS staff shall regularly inspect facilities to ensure the following activities are performed in a timely manner:
 - Inspect catch basins, sumps, inlet structures and pipes, and clarifiers for deterioration threatening structural or performance integrity.
 - Clean sumps before they are 40% full. Clean catch basins frequently and when debris is noticed during inspection to lengthen time between sump cleanings due to 40% capacity.
 - Ensure stenciled warnings (see Waste Handling and Disposal fact sheet) remain visible and legible (e.g. "Dump No Waste, Drains to River").
- Clean catch basins, storm drain inlets structures, and clarifiers before the wet season to remove sediments and debris accumulated during summer.
- Conduct inspections more often during the wet season, and clean and repair as soon as an issue or problem arises.
- Keep accurate logs of inspections; detailing cleanings, repairs, and high sediment or trash accumulation areas and the amount of waste collected at each specific location.



DRAINAGE SYSTEM MAINTENANCE

- Handle and store wastes as outlined in the 'Waste Handling and Disposal' fact sheet to prevent discharge back to the storm drain through run-on, runoff, or mishandling.
- Cleaning of small devices may be done manually, but many will need mechanical cleaners like eductors, vacuums, or bucket loaders.

Conveyance System

- In pipes with deposit problems, develop a flushing schedule that keeps the pipe clear of excessive buildup.
- Collect flushed effluent with a vacuum truck and ensure proper disposal.
- Clean conveyance systems and any pumps prior to the wet season to remove silt and trash, and ensure proper disposal.
- Conduct routine inspections of pumps and the conveyance system and clean and repair as necessary in addition to the scheduled cleanings.

Chemical and Hazardous Waste

- If what is suspected to be hazardous waste is found, immediately dispose of any contaminated water and debris properly per local, state and federal codes including fire hazard compliance.
- Refer to the 'Spill Prevention and Response' fact sheet for thorough steps in managing leaks, spills, and waste within the stormwater system.

Training

- Train MTS maintenance staff and MTS vendors for a thorough understanding of this fact sheet, and associated fact sheets pertaining to drainage system maintenance activities.
- Only properly trained individuals can handle hazardous materials and wastes.
- Train all employees (drivers, maintenance workers, painters, etc.) to recognize and report illegal dumping and illicit discharges to supervisor and Environmental Health and Safety Specialist.
- Train staff as to what is permitted to go down the drain, and what needs filtration, sedimentation, conveyance to the sanitary sewer, or is considered waste to be disposed of.



SDM-2 STORM DRAIN & CATCH BASIN MAINTENANCE

Purpose

Catch basins trap trash, sediment, decaying debris and other solids from stormwater runoff. Catch basin cleaning reduces foul odors, prevents clogs in the storm drain system, and reduces the loading of suspended solids, nutrients and bacteria to receiving waters.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Catch Basin Debris	Urban runoff	Suspended Solids/Sediment, Trash and Debris, Bacteria and Pathogens
	Brake pad dust	Metals
	Pesticides	Organics
	Fertilizers	Nutrients
	Chlorinated water for flushing	Chlorine
	Vehicle Fluids	Oil and Grease

Application

Routine maintenance of catch basins and storm drains will remove pollutants and debris from the system resulting in prevention of clogging the downstream conveyance system, restore catch basins' sediment trapping capacity, and ensure the system flows properly to avoid flooding. In combination with the source control methods of storm water pollution prevention outlined in the other BMP fact sheets, cleaning and maintenance is a critical part of a successful stormwater pollution prevention plan (SWPPP).

Operational Procedures

Inspection

- Conduct catch basin inspections more often during the wet season, and clean and repair as soon as an issue or problem arises.
- Inspect storm drains twice per year (biannually).
- During the inspection, if the drainage facility has trapped sediment and/or debris and the level is at approximately 20 percent or more, maintenance is required.
- During the inspection MTS staff shall regularly check for evidence of illicit discharges and deterioration threatening structural or performance integrity.
- Report any suspected illegal connections, illicit discharges or illegal dumping to the Environmental Health and Safety Specialist at: 619-446-4920
- Ensure stenciled warnings (see Waste Handling and Disposal fact sheet) remain visible and legible (e.g. "Dump No Waste, Drains to River").
- Keep accurate logs of inspections; detailing cleanings, repairs, and high sediment or trash accumulation areas and the amount of waste collected at each specific location.



STORM DRAIN & CATCH BASIN MAINTENANCE

Maintenance

- Clean catch basins frequently and when observations indicate that basin is more than 40 percent full.
- Clean storm drains when observations indicate that the drainage facility is more than 20 percent full.
- Clean filter units in the Continuous Deflector System (CDS) and the filters associated with the catch basin inserts.
- Clean catch basins before the wet season to remove sediments and debris accumulated during summer
- Using a shovel or clamshell bucket, remove solid waste (e.g., sediment, leaves, twigs, sand, trash) from the catch basin and dispose of as a solid waste. No solid waste material may re-enter the MS4.
- Using a mini-vactor truck dewater standing liquid in catch basin and storm drainage facility. Transfer liquid waste to an appropriate disposal facility. Liquid waste may not re-enter the MS4.
- If flushing is required, use water from a fire hydrant and ensure water from jetting and flushing inlets and lines is not discharged into the storm drain system.

Solid and Liquid Waste Handling

- Use a mini-vacuum truck to vacuum flush water downstream while jetting and flushing inlets and lines upstream.
- Decant wastewater from the vactor truck into the sanitary sewer, if permitted. Water may need to be filtered prior to discharge to sanitary sewer.
- If discharge to sanitary sewer is not allowed, pump or vacuum to a tank for proper disposal. Do not dewater near a storm drain.
- Solids and/or debris shall be sent to a waste disposal facility.
- If necessary, stockpile debris removed from catch basin and storm drain in an area that has an impervious surface or liner or in a temporary/satellite storage area or container. Follow stockpile management guidelines for debris stockpiles (see Figure 1).
- Always inspect and maintain the debris storage area. Check area for run-on, run-off and debris scattering.
- Remove debris from the temporary storage area and transfer to the permanent disposal site regularly.
- Sample collected sediments for waste profiling or if illicit discharges in the watershed have occurred.

Chemical and Hazardous Waste

- MTS requires waste profiling of any soil or sediment.
 - Contact the Environmental Health and Safety Specialist if a chemical spill is suspected.
 - If the solid or liquid waste is suspected to be a hazardous waste, immediately dispose of any contaminated water and debris properly per local, state and federal codes including fire hazard compliance.
- Refer to SC-10 Spill Prevention and Response fact sheet for thorough steps in managing leaks, spills, and waste within the stormwater system.



SDM-2 STORM DRAIN & CATCH BASIN MAINTENANCE

Training

- Train MTS maintenance staff and MTS vendors for a thorough understanding of this fact sheet, and associated fact sheets pertaining to drainage system maintenance activities.
- Only properly trained individuals can handle hazardous materials and wastes.
- Train all employees (drivers, operations staff, maintenance workers, facility crews, painters, etc.) to recognize and report illegal dumping.
- Train staff as to what is permitted to go down the drain, and what needs filtration, sedimentation, conveyance to the sanitary sewer, or is considered waste to be disposed of.

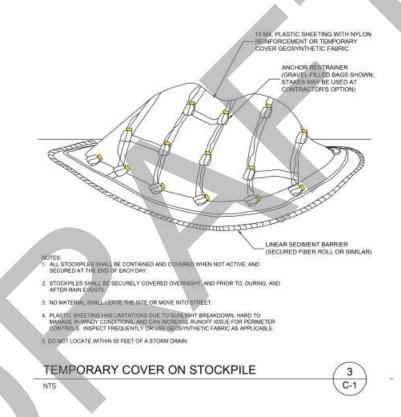


Figure 1. Stockpile Management for Temporary Storage of Solids and Debris



Att.A, AI 12, 09/14/23 SDM-3 STORM DRAIN INLET PROTECTION

Purpose

Every storm drain inlet receiving runoff from active work areas should be protected. Inlet protection is used for maintenance activities, such as hot and cold pressure washing, to capture solid materials and prevent pollutants from entering the storm drain system.

Pollutants of Concern

Source	Material(s)	Pollutant(s) of Concern
Catch Basin Debris	Runoff from active work area	Suspended Solids/Sediment; oil and grease; trash and debris; metals; nitrate; phosphate; organics
Pressure Washing	Non-stormwater	Chlorine
	Cleaning products	Acids, chlorine, phosphate

Limitations

- Drainage area should not exceed 1 acre.
- Straw bales or sandbags should not be used.
- Requires an adequate area for water to pond without flooding structures and property or creating a hazard.
- Frequent maintenance may be required during extended periods of O&M to remove captured materials and pollutant build up and to ensure the efficacy of the inlet protection.

Design and Layout

Identify existing storm drain inlets that have the potential to receive runoff from the O&M activity.

- Anticipate where ponding and diversion may occur when selecting the most effective and safe use
 of storm drain inlet protection.
 - Determine the acceptable location and extent of ponding near the drain inlet. The acceptable
 location and extent of ponding will influence the type and design of the storm drain inlet
 protection without flooding structures and property or creating a hazard.
 - Determine the extent of potential runoff diversion caused by the type of inlet protection.
 Ponded runoff may flow around the device towards the next downstream inlet and in some cases, this is acceptable; in other cases, downstream property damage may occur. The possibility of runoff diversions will influence if storm drain inlet protection is suitable; and, if suitable, the type and design of the device.
- Appropriate placement of the inlet protection device(s) usually controls the location and extent of ponding, and the extent of diversion. In some cases, moving the inlet protection a short distance upstream of the inlet can reduce flow velocity and increase the efficiency of sediment control, limit ponding to desired areas, and prevent or control diversions.
 - Placement of protection upstream of the inlet creates the possibility of using secondary protection downstream to handle anticipated runoff diverted by the primary device or when space is too limited for the primary device to handle anticipated flow.
- Four types of inlet protection are presented below.

Att.A, AI 12, 09/14/23

SDM-3



STORM DRAIN INLET PROTECTION

- Type 1: Gravel bag barrier: Used to create a small sediment trap upstream of inlets. Appropriate for sheet flow or when concentrated flow may exceed 0.5 cfs, and where overtopping is required to prevent flooding.
- Type 2: Temporary Geotextile Storm Drain Inserts: Different products provide different features. Refer to the manufacturer's specifications for targeted pollutants, additional features and installation guidelines.
- Type 3: Biofilter Bag Barrier: Used to create a small retention area upstream of inlets and can be located on pavement or soil. Biofilter bags slowly filter runoff allowing sediment to settle out. Appropriate for flows under 0.5 cfs.
- Type 4: Fiber Roll: Allow filtered run-off to pass through the roll while retaining sediment and potentially other pollutants.
- Regardless of the type of storm drain inlet protection chosen, removal of all devices shall occur
 immediately following completion of O&M, and all materials shall be stored for reuse and recycled
 whenever possible while waste is disposed of properly. Remove sediment accumulation using dry
 methods.

Installation

- Type 1 Gravel bag Gravel bags should be used due to their high permeability and capability to handle flows greater than 0.5 cfs. Construct the gravel bag berm per typical installation details below.
 - Construct on gently sloping street.
 - Leave room upstream of barrier for water to pond and solid materials to settle.
 - Place two layers of gravel bags overlapping the bags and packing them tightly together.
 - Leave a gap of one bag on the top row to serve as a spillway.
 - Turn the ends of the gravel bag barriers up slope to minimize runoff diversion around the berm.
 - Bag Material: Bags should be woven polypropylene, polyethylene or polyamide fabric or burlap, minimum unit weight of 4 ounces/yd², Mullen burst strength exceeding 300 lb/in² in conformance with ASTM D3786, and UV stability exceeding 70% in conformance with ASTM D4355.
 - Bag Size: Each gravel-filled bag should have a length of 18 in., width of 12 in., thickness of 3 in., and weight of approximately 33 lbs.
 - Fill Material: Fill material should be 0.5 to 1.0 in. crushed rock, clean and free from clay, organic matter, and other deleterious material, or other suitable open graded, non-cohesive, porous gravel.
- Type 2 Temporary Geotextile Insert (proprietary) Many types of temporary inserts are available. Most inserts fit underneath the grate of a drop inlet or inside of a curb inlet and are fastened to the outside of the grate or curb. These inserts are removable, and many can be cleaned and reused. Installation of these inserts differs between manufacturers. Please refer to manufacturer's specifications for installation. Following the O&M activity, the insert shall be cleaned and stored per manufacturer's instructions and stored at the maintenance facility. These can be used in tandem with the other BMPs, or as a stand-alone device when minimal ponding is expected due to light sediment collection.
- Type 3 Biofilter bags Biofilter bags may be used as a substitute for gravel bags in low-flow situations. Biofilter bags should conform to specifications detailed below.
 - Construct in a gently sloping area.
 - Biofilter bags should be placed around inlets to intercept runoff flows.

SDM-3 STORM DRAIN INLET PROTECTION

- All bag joints should overlap by 6 in., not abutted.
- Bags are filled with 100% recycled wood product waste.
- Leave room upstream for water to pond and for solid materials to settle out.
- Stake bags to the ground if possible. Stakes may be omitted if bags are placed on a paved surface.
- Bags will rapidly fill with sediment and reduce permeability.
- Not effective where water velocities or volumes are high, as the Biofilter bag is potentially buoyant during high flow rates.
- When staked into ground:
 - Lay into a 1 to 2 in. deep trench with a width equal to the bag.
 - Drive one stake at each end of the bag.
 - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- Biofilter media may be used on-site, if allowed.
- Type 4 Fiber Rolls Fiber rolls are biodegradable material wrapped by netting. Some fiber rolls are weighted with gravel cores for use on paved areas.
 - Not intended for use when high flows are expected above 0.5 cfs.
 - Effective when anchored with gravel bags or when gravel core fiber rolls are used for paved applications.
 - Fiber rolls are prefabricated, and may contain polyacrylamide (PAM), a flocculating agent, to
 provide additional sediment removal. PAM fiber rolls are used in areas with fine, clayey, or silty
 soils to provide additional sediment removal capabilities.
 - All bag joints should overlap by 6 in., not abutted.

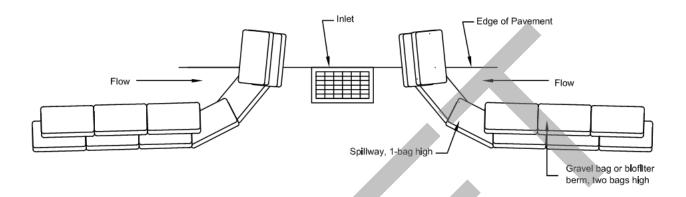
Operational Procedure

- Sediment that accumulates in the BMP should be periodically inspected and removed to maintain BMP effectiveness, and no later than when accumulation reaches one-third the designated sediment storage depth.
- Remove storm drain inlet protection after the O&M activity is completed.
- Clean area around the inlet and clean the inside of the storm drain inlet, as it should be free of sediment and debris after the O&M activity is completed.
- If wash water was conveyed to a dead-end sump, the sump should be serviced regularly.
- Wash water containing cleaning solutions such as detergents, degreasers or hydrocarbons shall be prevented from entering the storm water drainage system or watercourses.
- While safer alternative products may be less harmful to the environment, they are not harmless.
 Use the materials per the manufacturer's instructions and keep the materials out of the storm water drainage system and watercourses using the storm drain inlet design and installation specifications.

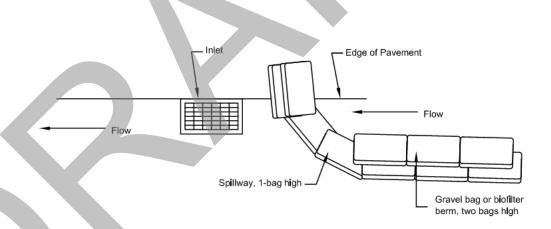


SDM-3 STORM DRAIN INLET PROTECTION

BMP Protection Type 1 and 3



TYPICAL PROTECTION FOR INLET ON SUMP



TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:

- Intended for short-term use.
- Use to inhibit non-storm water flow.
- 3. Allow for proper maintenance and cleanup.
- 4. Bags must be removed after adjacent operation is completed.
- 5. Not applicable in areas with high slits and clays without filter fabric.
- Protection can be effective even though it is not immediately adjacent to the inlet.

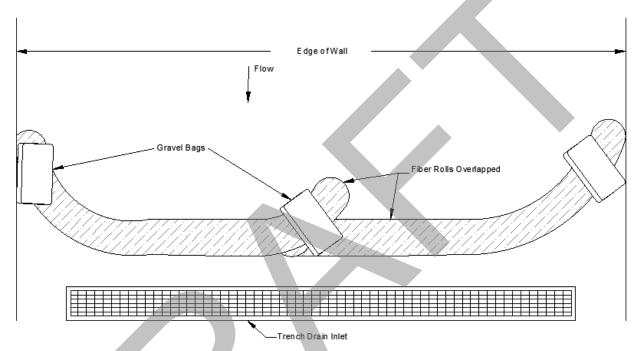


SDM-3 STORM DRAIN INLET PROTECTION

BMP Protection Type 2

Refer to the manufacturer's specifications for targeted pollutants, additional features and installation guidelines.

BMP Protection Type 4



TYPICAL FIBER ROLL INSTALLATION ON GRADE

NOTES

- 1. Intended for short-term use.
- Use to inhibit non-storm water flow and prevent stormwater pollution.
- Allow for proper maintenance and cleanup.
- 4. Rolls must be removed after adjacent operation is completed.
- Rolls must be removed after adjacent operation is completed.
 Gravel bags are placed to anchor the fiber roll and at overlap locations.

APPENDIX

STORMWATER TREATMENT MEASURES





INF-1 Infiltration Basin

BMP MAINTENANCE FACT SHEET FOR STRUCTURAL BMP INF-1 INFILTRATION BASIN

An **infiltration basin** typically consists of an earthen basin with a flat bottom constructed in uncompacted native soils. An infiltration basin retains storm water and allows it to evaporate and/or percolate into the underlying soils. Infiltration basins can also be constructed as linear trenches or as underground infiltration galleries. Typical infiltration basin components include:

- Inflow distribution mechanisms (e.g., perimeter flow spreader or filter strips)
- Energy dissipation mechanism for concentrated inflows (e.g., splash blocks or riprap)
- Forebay to provide pretreatment, or other pretreatment device (e.g., drainage inlet inserts, hydrodynamic separator installed within storm drain system)
- Surface ponding for captured flows
- Vegetation or other surface cover such as mulch or rocks selected based on basin use, climate, and ponding depth
- Uncompacted native soils at the bottom of the facility
- Overflow structure

Normal Expected Maintenance

Infiltration basins require routine maintenance to: remove accumulated materials such as sediment, trash or debris from the forebay and the basin; maintain vegetation health if the BMP includes vegetation; and maintain integrity of side slopes, inlets, energy dissipators, and outlets. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

If any of the following scenarios are observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance, increased inspection and maintenance, BMP replacement, or a different BMP type will be required.

- The BMP is not drained between storm events. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface or subsurface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the underlying native soils, or clogging of covers applied at the basin surface such as topsoil, mulch, or rock layer. The specific cause of the drainage issue must be determined and corrected. For surface-level basins (i.e., not underground infiltration galleries), surface cover materials can be removed and replaced, and/or native soils can be scarified or tilled to help reestablish infiltration. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, or if the infiltration surface area is not accessible (e.g., an underground infiltration gallery) the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.
- Sediment, trash, or debris accumulation has filled the forebay or other pretreatment device within one month, or if no forebay or other pretreatment device is present, has filled greater than 25% of the surface ponding volume within one maintenance cycle. This means the load from the tributary drainage area is too high, reducing BMP function or clogging the BMP. This would require adding a forebay or other pretreatment measures within the tributary area draining to the BMP to intercept the materials if no pretreatment component is present, or increased maintenance frequency for an existing forebay or other pretreatment device. Pretreatment components, especially for sediment, will extend the life of the infiltration basin.

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Infiltration Basin

• Erosion due to concentrated storm water runoff flow that is not readily corrected by adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

Other Special Considerations

If the infiltration basin is vegetated: Vegetated structural BMPs that are constructed in the vicinity of, or connected to, an existing jurisdictional water or wetland could inadvertently result in creation of expanded waters or wetlands. As such, vegetated structural BMPs have the potential to come under the jurisdiction of the United States Army Corps of Engineers, SDRWQCB, California Department of Fish and Wildlife, or the United States Fish and Wildlife Service. This could result in the need for specific resource agency permits and costly mitigation to perform maintenance of the structural BMP. Along with proper placement of a structural BMP, <u>routine</u> maintenance is key to preventing this scenario.



INF-1 Infiltration Basin

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR INF-1 INFILTRATION BASIN

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris in forebay and/or basin	Remove and properly dispose of accumulated materials, (without damage to vegetation when applicable).	• Inspect monthly. If the forebay is 25% full* or more in one month, increase inspection frequency to monthly plus after every 0.1-inch or larger storm event.
		Remove any accumulated materials found within the infiltration area at each inspection. When the BMB includes a forehow materials must be
		 When the BMP includes a forebay, materials must be removed from the forebay when the forebay is 25% full*, or if accumulation within the forebay blocks flow to the infiltration area.
Obstructed inlet or outlet structure	Clear blockage.	• Inspect monthly and after every 0.5-inch or larger storm event.
		Remove any accumulated materials found at each inspection.
Poor vegetation establishment (when the BMP includes vegetated surface by design)	Re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Dead or diseased vegetation (when the BMP includes vegetated surface by design)	Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Overgrown vegetation (when the BMP includes vegetated surface by design)	Mow or trim as appropriate.	Inspect monthly. Maintenance when needed.

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR INF-1 INFILTRATION BASIN (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Erosion due to concentrated irrigation flow	Repair/re-seed/re-plant eroded areas and adjust the irrigation system.	Inspect monthly. Maintenance when needed.	
Erosion due to concentrated storm water runoff flow	Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect after every 0.5-inch or larger storm event. If erosion due to storm water flow has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction. 	
Standing water in infiltration basin without subsurface infiltration gallery for longer than 24-96 hours following a storm event	Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or removing/replacing clogged or compacted surface treatments and/or scarifying or tilling native soils. Always remove deposited sediments before scarification, and use a hand-guided rotary tiller. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Standing water in subsurface infiltration gallery for longer than 24-96 hours following a storm event	This condition requires investigation of why infiltration is not occurring. If feasible, corrective action shall be taken to restore infiltration (e.g., flush fine sediment or remove and replace clogged soils). BMP may require retrofit if infiltration cannot be restored. The [City Engineer] shall be contacted prior to any repairs or reconstruction.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	

Infiltration Basin

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR INF-1 INFILTRATION BASIN (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove any standing water by dispersing to nearby landscaping; second, make corrective measures as applicable to restore BMP drainage to prevent standing water. For subsurface infiltration galleries, ensure access covers are tight fitting, with gaps or holes no greater than 1/16 inch, and/or install barriers such as inserts or screens that prevent mosquito access to the subsurface storage. If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria because the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed 	
Damage to structural components such as weirs, inlet or outlet structures	Repair or replace as applicable.	Inspect annually. Maintenance when needed.	

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet INF-1.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220

INF-1
Infiltration Basin

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INF-1 Infiltration Basin

Date:	Inspector:			BIMP ID No.:	
Permit No.:	APN(s):				
Property / Development Name:		Respor	sible Party Name and	Phone Number:	
Property Address of BMP:		Respor	sible Party Address:		
				<u></u>	
	CTION AND MAINTENANCE CHECKLIST				
Threshold/Indicator	Maintenance Recommendatio	n	Date	Description of Maint	enance Conducted
Accumulation of sediment, litter, or debris	\square Remove and properly dispose of				
Materials must be removed from the forebay	accumulated materials, (without				
when the forebay is 25% full*. In any case,	damage to the vegetation when				
materials must be removed if accumulation	applicable)				
blocks flow to the infiltration area.	\square If accumulation within the forebay	/ is	Y .		
Materials must be removed from the infiltration	greater than 25% in one month,				
area any time accumulation is observed in the	increase the inspection and				
infiltration area.	maintenance frequency**				
Maintenance Needed?	☐ Other / Comments:				
□ YES					
☐ NO					
□ N/A					
□ N/A					

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

^{**}If no forebay is present, if sediment, litter, or debris accumulation exceeds 25% of the surface ponding volume within one month, add a forebay or other pre-treatment measures within the tributary area draining to the BMP to intercept the materials.

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-1 INFILTRATION BASIN PAGE 2 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Poor vegetation establishment	☐ Re-seed, re-plant, or re-establish		
(when the BMP includes vegetated surface by design)	vegetation per original plans ☐ Other / Comments:		
Maintenance Needed?			
☐ YES			
□ NO			
□ N/A			
Dead or diseased vegetation	☐ Remove dead or diseased vegetation,		
(when the BMP includes vegetated surface by design)	re-seed, re-plant, or re-establish vegetation per original plans		
	☐ Other / Comments:		
Maintenance Needed?	= Strict / Comments.		
☐ YES			
□NO			
□ N/A			
Overgrown vegetation	☐ Mow or trim as appropriate		
(when the BMP includes vegetated surface by design)	☐ Other / Comments:		
Maintenance Needed?			
□YES	_		
□NO			
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPE	CTION AND MAINTENANCE CHECKLIST FOR INF	-1 INFILTRATION BASI	IN PAGE 3 of 5
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Erosion due to concentrated irrigation flow Maintenance Needed? YES NO N/A	 □ Repair/re-seed/re-plant eroded areas and adjust the irrigation system □ Other / Comments: 		
Erosion due to concentrated storm water runoff flow Maintenance Needed? YES NO N/A	□ Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan □ If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction □ Other / Comments:		

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-1 INFILTRATION BASIN PAGE 4 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Obstructed inlet or outlet structure	☐ Clear blockage		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□ NO			
□ N/A			
Damage to structural components such as weirs,	☐ Repair or replace as applicable		
inlet or outlet structures	☐ Other / Comments:		
Maintenance Needed?			
□YES			
□NO			
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPEC	CTION AND MAINTENANCE CHECKLIST FOR INF	-1 INFILTRATION BASI	IN PAGE 5 of 5
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Standing water in infiltration basin without subsurface infiltration gallery for longer than 24-96 hours following a storm event* Maintenance Needed? YES NO N/A	 □ Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or removing/replacing clogged or compacted surface treatments and/or scarifying or tilling native soils. □ Other / Comments: 		
Standing water in subsurface infiltration gallery for longer than 24-96 hours following a storm event* Maintenance Needed? YES NO N/A	☐ If feasible, take corrective action to restore infiltration (e.g., flush fine sediment or remove and replace clogged soils). BMP may require retrofit if infiltration cannot be restored. The [City Engineer] shall be contacted prior to any repairs or reconstruction. ☐ Other / Comments:		
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology Maintenance Needed? YES	□ Apply corrective measures to remove standing water in BMP when standing water occurs for longer than 24-96 hours following a storm event.** □ Other / Comments:		

Infiltration Basin

*Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface or subsurface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the underlying native soils, or clogging of covers applied at the basin surface such as topsoil, mulch, or rock layer. The specific cause of the drainage issue must be determined and corrected. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, or if the infiltration surface is not accessible (e.g., an underground infiltration gallery) the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

**If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria because the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

INF-2 Bioretention

BMP MAINTENANCE FACT SHEET FOR STRUCTURAL BMP INF-2 BIORETENTION

Bioretention (bioretention without underdrain) facilities are vegetated surface water systems that filter water through vegetation and soil, or engineered media prior to infiltrating into native soils. Bioretention facilities are designed to infiltrate the full design capture volume (DCV) into native soils. They have no underdrain, and no impermeable liner. Typical bioretention components include:

- Inflow distribution mechanisms (e.g., perimeter flow spreader or filter strips)
- Energy dissipation mechanism for concentrated inflows (e.g., splash blocks or riprap)
- Shallow surface ponding for captured flows
- Side slope and basin bottom vegetation selected based on climate and ponding depth
- Non-floating mulch layer
- Media layer (planting mix or engineered media) capable of supporting vegetation growth
- Filter course layer consisting of aggregate to prevent the migration of fines into uncompacted native soils or the optional aggregate storage layer
- Optional aggregate storage layer for additional infiltration storage
- Uncompacted native soils at the bottom of the facility
- Overflow structure

Normal Expected Maintenance

Bioretention requires routine maintenance to: remove accumulated materials such as sediment, trash or debris; maintain vegetation health; maintain infiltration capacity of the media layer; replenish mulch; and maintain integrity of side slopes, inlets, energy dissipators, and outlets. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

If any of the following scenarios are observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance, increased inspection and maintenance, BMP replacement, or a different BMP type will be required.

- The BMP is not drained between storm events. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underlying native soils, or outlet structure. The specific cause of the drainage issue must be determined and corrected. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.
- Sediment, trash, or debris accumulation greater than 25% of the surface ponding volume within one
 month. This means the load from the tributary drainage area is too high, reducing BMP function or
 clogging the BMP. This would require pretreatment measures within the tributary area draining to the
 BMP to intercept the materials. Pretreatment components, especially for sediment, will extend the life of
 components that are more expensive to replace such as media, filter course, and aggregate layers.

Bioretention

• Erosion due to concentrated storm water runoff flow that is not readily corrected by adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

Other Special Considerations

Bioretention is a vegetated structural BMP. Vegetated structural BMPs that are constructed in the vicinity of, or connected to, an existing jurisdictional water or wetland could inadvertently result in creation of expanded waters or wetlands. As such, vegetated structural BMPs have the potential to come under the jurisdiction of the United States Army Corps of Engineers, SDRWQCB, California Department of Fish and Wildlife, or the United States Fish and Wildlife Service. This could result in the need for specific resource agency permits and costly mitigation to perform maintenance of the structural BMP. Along with proper placement of a structural BMP, <u>routine</u> maintenance is key to preventing this scenario.



INF-2 Bioretention

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR INF-2 BIORETENTION

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris	Remove and properly dispose of accumulated materials,	• Inspect monthly. If the BMP is 25% full* or more in
	without damage to the vegetation or compaction of the	one month, increase inspection frequency to monthly
	media layer.	plus after every 0.1-inch or larger storm event.
		 Remove any accumulated materials found at each inspection.
Obstructed inlet or outlet structure	Clear blockage.	• Inspect monthly and after every 0.5-inch or larger
		storm event.
		Remove any accumulated materials found at each inspection.
Damage to structural components such as weirs, inlet or	Repair or replace as applicable.	Inspect annually.
outlet structures		Maintenance when needed.
Poor vegetation establishment	Re-seed, re-plant, or re-establish vegetation per original	Inspect monthly.
	plans.	Maintenance when needed.
Dead or diseased vegetation	Remove dead or diseased vegetation, re-seed, re-plant,	Inspect monthly.
	or re-establish vegetation per original plans.	Maintenance when needed.
Overgrown vegetation	Mow or trim as appropriate.	Inspect monthly.
		Maintenance when needed.
2/3 of mulch has decomposed, or mulch has been	Remove decomposed fraction and top off with fresh	Inspect monthly.
removed	mulch to a total depth of 3 inches.	Replenish mulch annually, or more frequently when needed based on inspection.

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR INF-2 BIORETENTION (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Erosion due to concentrated irrigation flow	Repair/re-seed/re-plant eroded areas and adjust the irrigation system.	Inspect monthly. Maintenance when needed.	
Erosion due to concentrated storm water runoff flow	Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect after every 0.5-inch or larger storm event. If erosion due to storm water flow has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction. 	
Standing water in BMP for longer than 24 hours following a storm event Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health	Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or repairing/replacing clogged or compacted soils. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove any standing water by dispersing to nearby landscaping; second, make corrective measures as applicable to restore BMP drainage to prevent standing water. If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria because the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	

INF-2 Bioretention

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet INF-2.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220



INF-2 Bioretention

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Bioretention

Date:	Inspector:			BMP ID No.:
Permit No.:	APN(s):			
Property / Development Name:		Respon	nsible Party Name and	Phone Number:
Property Address of BMP:			nsible Party Address:	
	PECTION AND MAINTENANCE CHE			
Threshold/Indicator	Maintenance Recommend		Date	Description of Maintenance Conducted
Accumulation of sediment, litter, or debris Maintenance Needed? YES NO N/A	□ Remove and properly dispose accumulated materials, with damage to the vegetation □ If sediment, litter, or debris accumulation exceeds 25% c surface ponding volume with month (25% full*), add a for other pre-treatment measur the tributary area draining to intercept the materials. □ Other / Comments:	out If the hin one ebay or es within the BMP		
Poor vegetation establishment Maintenance Needed?	☐ Re-seed, re-plant, or re-establ vegetation per original plans☐ Other / Comments:			

□ N/A

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-2 BIORETENTION PAGE 2 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Dead or diseased vegetation Maintenance Needed?	☐ Remove dead or diseased vegetation, re-seed, re-plant, or re-establish		
	vegetation per original plans		
☐ YES☐ NO☐ N/A	☐ Other / Comments:		
Overgrown vegetation	☐ Mow or trim as appropriate		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□ NO □ N/A			
2/3 of mulch has decomposed, or mulch has	☐ Remove decomposed fraction and top		
been removed	off with fresh mulch to a total depth of 3 inches		
Maintenance Needed?			
□YES	☐ Other / Comments:		
□ NO	·		
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-2 BIORETENTION PAGE 3 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Erosion due to concentrated irrigation flow	☐ Repair/re-seed/re-plant eroded areas		
Maintenance Needed?	and adjust the irrigation system		
□YES	☐ Other / Comments:		
□ NO			
□ N/A			
Erosion due to concentrated storm water runoff	☐ Repair/re-seed/re-plant eroded areas,		
flow	and make appropriate corrective		
Maintenance Needed?	measures such as adding erosion control blankets, adding stone at flow		
☐ YES	entry points, or minor re-grading to		
□ NO	restore proper drainage according to		
□ N/A	the original plan		
	☐ If the issue is not corrected by restoring		
	the BMP to the original plan and		
	grade, the [City Engineer] shall be		
	contacted prior to any additional		
	repairs or reconstruction		
	☐ Other / Comments:		

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-2 BIORETENTION PAGE 4 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Obstructed inlet or outlet structure	☐ Clear blockage		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□NO			
□ N/A			
Damage to structural components such as weirs,	☐ Repair or replace as applicable		
inlet or outlet structures	☐ Other / Comments:		
Maintenance Needed?			
□YES			
□NO			
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR INF-2 BIORETENTION PAGE 5 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Standing water in BMP for longer than 24 hours following a storm event* Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health Maintenance Needed? YES NO N/A	 □ Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or repairing/replacing clogged or compacted soils. □ Other / Comments: 		
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology Maintenance Needed? YES	□ Apply corrective measures to remove standing water in BMP when standing water occurs for longer than 24-96 hours following a storm event.** □ Other / Comments:		

^{*}Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected. If it is determined that the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

^{**}If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria because the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

Biofiltration with Partial Retention

BMP MAINTENANCE FACT SHEET FOR

STRUCTURAL BMP PR-1 BIOFILTRATION WITH PARTIAL RETENTION

Biofiltration with partial retention facilities are vegetated surface water systems that filter water through vegetation and soil or engineered media prior to infiltrating into native soils, discharge via underdrain, or overflow to the downstream conveyance system. These BMPs have an elevated underdrain discharge point that creates storage capacity in the aggregate storage layer. Typical biofiltration with partial retention components include:

- Inflow distribution mechanisms (e.g., perimeter flow spreader or filter strips)
- Energy dissipation mechanism for concentrated inflows (e.g., splash blocks or riprap)
- Shallow surface ponding for captured flows
- Side slope and basin bottom vegetation selected based on climate and ponding depth
- Non-floating mulch layer
- Media layer (planting mix or engineered media) capable of supporting vegetation growth
- Filter course layer consisting of aggregate to prevent the migration of fines into uncompacted native soils or the aggregate storage layer
- Aggregate storage layer with underdrain(s)
- Uncompacted native soils at the bottom of the facility
- Overflow structure

Normal Expected Maintenance

Biofiltration with partial retention requires routine maintenance to: remove accumulated materials such as sediment, trash or debris; maintain vegetation health; maintain infiltration capacity of the media layer; replenish mulch; and maintain integrity of side slopes, inlets, energy dissipators, and outlets. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

If any of the following scenarios are observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance, increased inspection and maintenance, BMP replacement, or a different BMP type will be required.

- The BMP is not drained between storm events. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected.
- Sediment, trash, or debris accumulation greater than 25% of the surface ponding volume within one
 month. This means the load from the tributary drainage area is too high, reducing BMP function or
 clogging the BMP. This would require pretreatment measures within the tributary area draining to the
 BMP to intercept the materials. Pretreatment components, especially for sediment, will extend the life of
 components that are more expensive to replace such as media, filter course, and aggregate layers.

Biofiltration with Partial Retention

• Erosion due to concentrated storm water runoff flow that is not readily corrected by adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

Other Special Considerations

Biofiltration with partial retention is a vegetated structural BMP. Vegetated structural BMPs that are constructed in the vicinity of, or connected to, an existing jurisdictional water or wetland could inadvertently result in creation of expanded waters or wetlands. As such, vegetated structural BMPs have the potential to come under the jurisdiction of the United States Army Corps of Engineers, SDRWQCB, California Department of Fish and Wildlife, or the United States Fish and Wildlife Service. This could result in the need for specific resource agency permits and costly mitigation to perform maintenance of the structural BMP. Along with proper placement of a structural BMP, routine maintenance is key to preventing this scenario.



Biofiltration with Partial Retention

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR PR-1 BIOFILTRATION WITH PARTIAL RETENTION

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris	Remove and properly dispose of accumulated materials, without damage to the vegetation or compaction of the media layer.	 Inspect monthly. If the BMP is 25% full* or more in one month, increase inspection frequency to monthly plus after every 0.1-inch or larger storm event. Remove any accumulated materials found at each inspection.
Obstructed inlet or outlet structure	Clear blockage.	 Inspect monthly and after every 0.5-inch or larger storm event. Remove any accumulated materials found at each inspection.
Damage to structural components such as weirs, inlet or outlet structures	Repair or replace as applicable.	Inspect annually. Maintenance when needed.
Poor vegetation establishment	Re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Dead or diseased vegetation	Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Overgrown vegetation	Mow or trim as appropriate.	Inspect monthly. Maintenance when needed.
2/3 of mulch has decomposed, or mulch has been removed	Remove decomposed fraction and top off with fresh mulch to a total depth of 3 inches.	Inspect monthly. Replenish mulch annually, or more frequently when needed based on inspection.

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Biofiltration with Partial Retention

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR PR-1 BIOFILTRATION WITH PARTIAL RETENTION (Continued from previous page)		
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Erosion due to concentrated irrigation flow	Repair/re-seed/re-plant eroded areas and adjust the irrigation system.	Inspect monthly.Maintenance when needed.
Erosion due to concentrated storm water runoff flow	Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect after every 0.5-inch or larger storm event. If erosion due to storm water flow has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.
Standing water in BMP for longer than 24 hours following a storm event Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health	Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, clearing underdrains, or repairing/replacing clogged or compacted soils.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove any standing water by dispersing to nearby landscaping; second, make corrective measures as applicable to restore BMP drainage to prevent standing water. If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Underdrain clogged	Clear blockage.	 Inspect if standing water is observed for longer than 24-96 hours following a storm event. Maintenance when needed.

Biofiltration with Partial Retention

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

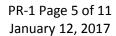
https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet PR-1.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220



Biofiltration with Partial Retention

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Date:	Inspector:			BMP ID No.:
Permit No.:	APN(s):			
Property / Development Name:		Responsible Party Name and Phone Number:		
Property Address of BMP:		Responsib	le Party Address:	
	NTENANCE CHECKLIST FOR PR-1			
Threshold/Indicator	Maintenance Recommendation	on	Date	Description of Maintenance Conducted
Maintenance Needed? YES NO N/A	Remove and properly dispose of accumulated materials, without to the vegetation If sediment, litter, or debris accum exceeds 25% of the surface ponc volume within one month (25% add a forebay or other pre-treatmeasures within the tributary ar draining to the BMP to intercept materials. Other / Comments:	nulation ding full*), ment ea		
Maintenance Needed?	Re-seed, re-plant, or re-establish vegetation per original plans Other / Comments:			

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND	MAINTENANCE CHECKLIST FOR PR-1 BIOFILTRA	TION WITH PARTIAL	L RETENTION PAGE 2 of 5
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Dead or diseased vegetation Maintenance Needed? ☐ YES ☐ NO ☐ N/A	 □ Remove dead or diseased vegetation, reseed, re-plant, or re-establish vegetation per original plans □ Other / Comments: 		
Overgrown vegetation	☐ Mow or trim as appropriate		
Maintenance Needed?	☐ Other / Comments:	Y Y	
☐ YES ☐ NO ☐ N/A			
2/3 of mulch has decomposed, or mulch has been removed Maintenance Needed? YES NO N/A	 □ Remove decomposed fraction and top off with fresh mulch to a total depth of 3 inches □ Other / Comments: 		

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR PR-1 BIOFILTRATION WITH PARTIAL RETENTION PAGE 3 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Erosion due to concentrated irrigation flow	☐ Repair/re-seed/re-plant eroded areas and		
Maintenance Needed?	adjust the irrigation system		
□YES	☐ Other / Comments:		
□NO			
□ N/A			
Erosion due to concentrated storm water	☐ Repair/re-seed/re-plant eroded areas, and		
runoff flow	make appropriate corrective measures		
Maintenance Needed?	such as adding erosion control blankets, adding stone at flow entry points, or		
☐ YES	minor re-grading to restore proper		
□NO	drainage according to the original plan		
□ N/A	☐ If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction		
	☐ Other / Comments:		

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AN	INSPECTION AND MAINTENANCE CHECKLIST FOR PR-1 BIOFILTRATION WITH PARTIAL RETENTION PAGE 4 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Obstructed inlet or outlet structure	☐ Clear blockage			
Maintenance Needed?	☐ Other / Comments:			
□YES				
□ NO				
□ N/A				
Underdrain clogged (inspect underdrain if	☐ Clear blockage			
standing water is observed for longer than 24-				
96 hours following a storm event)	☐ Other / Comments:			
Maintenance Needed?				
□ YES				
□ NO				
□ N/A				
•				
Damage to structural components such as	☐ Repair or replace as applicable			
weirs, inlet or outlet structures	☐ Other / Comments:			
Maintenance Needed?	and the state of t			
□YES				
□NO				
□ N/A				

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AN	INSPECTION AND MAINTENANCE CHECKLIST FOR PR-1 BIOFILTRATION WITH PARTIAL RETENTION PAGE 5 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Standing water in BMP for longer than 24 hours following a storm event* Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health Maintenance Needed? YES NO N/A	 □ Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, clearing underdrains, or repairing/replacing clogged or compacted soils □ Other / Comments: 			
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology Maintenance Needed?	 □ Apply corrective measures to remove standing water in BMP when standing water occurs for longer than 24-96 hours following a storm event.** □ Other / Comments: 			

^{*}Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected.

^{**}If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

BMP MAINTENANCE FACT SHEET FOR STRUCTURAL BMP BF-1 BIOFILTRATION

Biofiltration facilities are vegetated surface water systems that filter water through vegetation, and soil or engineered media prior to discharge via underdrain or overflow to the downstream conveyance system. Biofiltration facilities have limited or no infiltration. They are typically designed to provide enough hydraulic head to move flows through the underdrain connection to the storm drain system. Typical biofiltration components include:

- Inflow distribution mechanisms (e.g., perimeter flow spreader or filter strips)
- Energy dissipation mechanism for concentrated inflows (e.g., splash blocks or riprap)
- Shallow surface ponding for captured flows
- Side slope and basin bottom vegetation selected based on climate and ponding depth
- Non-floating mulch layer
- Media layer (planting mix or engineered media) capable of supporting vegetation growth
- Filter course layer consisting of aggregate to prevent the migration of fines into uncompacted native soils or the aggregate storage layer
- Aggregate storage layer with underdrain(s)
- Impermeable liner or uncompacted native soils at the bottom of the facility
- Overflow structure

Normal Expected Maintenance

Biofiltration requires routine maintenance to: remove accumulated materials such as sediment, trash or debris; maintain vegetation health; maintain infiltration capacity of the media layer; replenish mulch; and maintain integrity of side slopes, inlets, energy dissipators, and outlets. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

If any of the following scenarios are observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance, increased inspection and maintenance, BMP replacement, or a different BMP type will be required.

- The BMP is not drained between storm events. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected.
- Sediment, trash, or debris accumulation greater than 25% of the surface ponding volume within one
 month. This means the load from the tributary drainage area is too high, reducing BMP function or
 clogging the BMP. This would require pretreatment measures within the tributary area draining to the
 BMP to intercept the materials. Pretreatment components, especially for sediment, will extend the life of
 components that are more expensive to replace such as media, filter course, and aggregate layers.
- Erosion due to concentrated storm water runoff flow that is not readily corrected by adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

Other Special Considerations

Biofiltration is a vegetated structural BMP. Vegetated structural BMPs that are constructed in the vicinity of, or connected to, an existing jurisdictional water or wetland could inadvertently result in creation of expanded waters or wetlands. As such, vegetated structural BMPs have the potential to come under the jurisdiction of the United States Army Corps of Engineers, SDRWQCB, California Department of Fish and Wildlife, or the United States Fish and Wildlife Service. This could result in the need for specific resource agency permits and costly mitigation to perform maintenance of the structural BMP. Along with proper placement of a structural BMP, <u>routine</u> <u>maintenance</u> is key to preventing this scenario.



SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR BF-1 BIOFILTRATION

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris	Remove and properly dispose of accumulated materials, without damage to the vegetation or compaction of the media layer.	 Inspect monthly. If the BMP is 25% full* or more in one month, increase inspection frequency to monthly plus after every 0.1-inch or larger storm event. Remove any accumulated materials found at each inspection.
Obstructed inlet or outlet structure	Clear blockage.	 Inspect monthly and after every 0.5-inch or larger storm event. Remove any accumulated materials found at each inspection.
Damage to structural components such as weirs, inlet or outlet structures	Repair or replace as applicable	Inspect annually. Maintenance when needed.
Poor vegetation establishment	Re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Dead or diseased vegetation	Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Overgrown vegetation	Mow or trim as appropriate.	Inspect monthly. Maintenance when needed.
2/3 of mulch has decomposed, or mulch has been removed	Remove decomposed fraction and top off with fresh mulch to a total depth of 3 inches.	Inspect monthly. Replenish mulch annually, or more frequently when needed based on inspection.

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR BF-1 BIOFILTRATION (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Erosion due to concentrated irrigation flow	Repair/re-seed/re-plant eroded areas and adjust the irrigation system.	Inspect monthly.Maintenance when needed.	
Erosion due to concentrated storm water runoff flow	Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect after every 0.5-inch or larger storm event. If erosion due to storm water flow has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction. 	
Standing water in BMP for longer than 24 hours following a storm event Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health	Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, clearing underdrains, or repairing/replacing clogged or compacted soils.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove any standing water by dispersing to nearby landscaping; second, make corrective measures as applicable to restore BMP drainage to prevent standing water. If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Underdrain clogged	Clear blockage.	 Inspect if standing water is observed for longer than 24-96 hours following a storm event. Maintenance when needed. 	

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet BF-1.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220



BF-1 Biofiltration

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Date:	Inspector:		BMP ID No.:			
Permit No.:	APN(s):					
Property / Development Name:		Responsible Party Name and Phone Number:				
Property Address of BMP:		Responsib	le Party Address:			
INS	PECTION AND MAINTENANCE CHECKI	IST FOR BF-	1 BIOFILTRATION F	PAGE 1 of 5		
Threshold/Indicator	Maintenance Recommendati		Date	Description of Maintenance Conducted		
Accumulation of sediment, litter, or debris Maintenance Needed? YES NO N/A	□ Remove and properly dispose of accumulated materials, without damage to the vegetation □ If sediment, litter, or debris accumulation exceeds 25% of the surface ponding volume within one month (25% full*), add a forebay or other pre-treatment measures within the tributary area draining to the BMP to intercept the materials. □ Other / Comments:					
Poor vegetation establishment Maintenance Needed?	☐ Re-seed, re-plant, or re-establish vegetation per original plans ☐ Other / Comments:					

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BF-1 BIOFILTRATION PAGE 2 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Dead or diseased vegetation Maintenance Needed? ☐ YES ☐ NO ☐ N/A	 □ Remove dead or diseased vegetation, reseed, re-plant, or re-establish vegetation per original plans □ Other / Comments: 		
Overgrown vegetation	☐ Mow or trim as appropriate		
Maintenance Needed?	☐ Other / Comments:		
☐ YES ☐ NO ☐ N/A			
2/3 of mulch has decomposed, or mulch has been removed Maintenance Needed? YES NO N/A	 □ Remove decomposed fraction and top off with fresh mulch to a total depth of 3 inches □ Other / Comments: 		

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BF-1 BIOFILTRATION PAGE 3 of 5				
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Erosion due to concentrated irrigation flow	☐ Repair/re-seed/re-plant eroded areas and			
Maintenance Needed?	adjust the irrigation system			
□ YES	☐ Other / Comments:			
□ NO				
□ N/A				
4				
		Y A		
Erosion due to concentrated storm water runoff	☐ Repair/re-seed/re-plant eroded areas,			
flow	and make appropriate corrective			
Maintenance Needed?	measures such as adding erosion			
□ vcc	control blankets, adding stone at flow entry points, or minor re-grading to			
☐ YES ☐ NO	restore proper drainage according to			
□ N/A	the original plan			
L N/A				
	☐ If the issue is not corrected by restoring			
	the BMP to the original plan and grade, the [City Engineer] shall be contacted			
	prior to any additional repairs or			
	reconstruction			
	☐ Other / Comments:			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BF-1 BIOFILTRATION PAGE 4 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Obstructed inlet or outlet structure	☐ Clear blockage		
Maintenance Needed?	☐ Other / Comments:		
□ YES			
□NO			
□ N/A			
Underdrain clogged (inspect underdrain if	☐ Clear blockage		
standing water is observed for longer than 24-96 hours following a storm event)	☐ Other / Comments:		
Maintenance Needed?			
□ YES			
□NO			
□ N/A			
Damage to structural components such as weirs,	☐ Repair or replace as applicable		
inlet or outlet structures	☐ Other / Comments:		
Maintenance Needed?			
☐ YES			
□NO	· ·		
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BF-1 BIOFILTRATION PAGE 5 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Standing water in BMP for longer than 24-96 hours following a storm event* Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health Maintenance Needed? YES NO N/A	 □ Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, clearing underdrains, or repairing/replacing clogged or compacted soils □ Other / Comments: 		
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology Maintenance Needed? YES NO N/A	□ Apply corrective measures to remove standing water in BMP when standing water occurs for longer than 24-96 hours following a storm event.** □ Other / Comments:		

^{*}Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected.

^{**}If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

FT-2 Media Filter

BMP MAINTENANCE FACT SHEET FOR FLOW-THRU STRUCTURAL BMP FT-2 MEDIA FILTER

Media filters are manufactured devices that consist of a series of modular filters packed with engineered media that can be contained in a catch basin, manhole, or vault that provide treatment through filtration and sedimentation. The manhole or vault may be divided into multiple chambers where the first chamber acts as a presettling basin for removal of coarse sediment while the next chamber acts as the filter bay and houses the filter cartridges. A variety of configurations and media types are available from various manufacturers. Typical media filter components include:

- Vault for flow storage and media housing
- Inlet and outlet
- Media filters

Normal Expected Maintenance

Media filters require routine maintenance to: remove accumulated materials such as sediment, trash, and debris; replace filter cartridges; and maintain integrity of any internal components such as weirs and piping. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

The normal expected maintenance described above ensures the BMP functionality. Lapses in the normal expected maintenance can lead to clogging of the BMP and potentially blocking the storm drain system. If clogging is observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. In addition, clogged BMPs can lead to flooding, standing water and mosquito breeding habitat. Maintenance is critical to ensure the flood protection capacity of the storm drain system is not compromised. If proper routine maintenance is not performed, corrective maintenance and increased inspection and maintenance will be required. For persistent clogging or presence of mosquitos, contact the [City Engineer] to determine a permanent solution. For example, adding pretreatment measures within the tributary area draining to the BMP to intercept sediment, trash, and debris. Pretreatment components, especially for sediment, will extend the life of the filter media. For mosquitos, a Vector Management Plan, prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

Other Special Considerations

Media filters are proprietary systems that include proprietary media that must be replaced as part of normal expected maintenance. They are typically installed underground and may require entry into the underground vault to perform the maintenance. The BMP owner is responsible to hire a maintenance operator qualified to service the units. The maintenance operator must obtain the appropriate filter media and/or any parts that need to be replaced. If maintenance conditions require maintenance personnel to enter the underground structure, the maintenance personnel must be trained and certified in confined space entry. To find a qualified maintenance operator, the BMP owner shall contact the manufacturer of the proprietary BMP.

The design of media filters includes consideration of the specific pollutants expected from the area tributary to the media filter and the specific pollutants of concern for the downstream waterways. Therefore, it is expected that the filter media selected during design of the project will not be substituted. If a need arises to substitute a different filter configuration or filter media, the [City Engineer] shall be contacted prior to any changes.

FT-2 Media Filter

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-2 MEDIA FILTER

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris.	Remove and properly dispose of accumulated materials.	Inspect monthly.
The threshold for removal of materials depends on the specific type of proprietary filter and configuration and shall be based on the manufacturer's recommendation. In any case, materials must be removed if accumulation blocks flow through the BMP.		Remove materials annually (minimum), or more frequently when BMP reaches manufacturer's threshold for removal of materials in less than one year, or if accumulation blocks outlet.
Spent or clogged filter media. The threshold for changing media depends on the specific type of proprietary media and shall be based on the manufacturer's recommendation. In any case, media must be replaced if flow cannot pass through the media or passes through at less than the design capacity.	Remove and properly dispose filter media, and replace with fresh media.	 Inspect condition of media annually or more frequently if recommended by manufacturer. Inspect BMP drainage monthly and after every 0.5-inch or larger storm event. If standing water has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed based on manufacturer's threshold/indicator for the specific media, or if standing water in the BMP indicates flow cannot pass through the media.
Any other recommendations pursuant to the proprietary	Any other actions pursuant to the proprietary filter	• As recommended by the proprietary filter
filter manufacturer's maintenance guide.	manufacturer's maintenance guide.	manufacturer's maintenance guide
Obstructed inlet or outlet structure	Clear blockage.	 Inspect monthly and after every 0.5-inch or larger storm event. Remove any accumulated materials found at each inspection.

Media Filter

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-2 MEDIA FILTER (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove and properly dispose any standing water; second, remove any accumulated materials that obstruct flow through the BMP to restore BMP drainage to prevent standing water. Ensure access covers are tight fitting, with gaps or holes no greater than 1/16 inch, and/or install barriers such as inserts or screens that prevent mosquito access to the subsurface storage. If the BMP includes a permanent sump, contact the [City Engineer] to determine a permanent solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Damage to structural components of the filtration system such as weirs, underdrains, inlet or outlet structures	Repair or replace as applicable.	Inspect annually. Maintenance when needed.	

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet FT-2.

http://www.projectcleanwater.org/index.php?option=com content&view=article&id=250&Itemid=220

FT-2 Media Filter

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Media Filter

Date:	Inspector:		BMP ID No.:
Permit No.:	APN(s):		
Property / Development Name:		Responsible Party Name a	nd Phone Number:
Property Address of BMP:		Responsible Party Address:	
INSPECTION AND MAINTENANCE CHECKLIST FOR FT-2 MEDIA FILTER PAGE 1 of 2			

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-2 MEDIA FILTER PAGE 1 of 2			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Accumulation of sediment, litter, or debris	☐ Remove and properly dispose of		
Maintenance Needed?	accumulated materials		
□ YES	☐ Other / Comments:		
□ NO			
□ N/A			
Spent or clogged filter media	☐ Remove and properly dispose filter media,		
Maintenance Needed?	and replace with fresh media		
□YES	Other / Comments:		
□NO			
□ N/A			
Obstructed inlet or outlet structure	☐ Clear blockage		
Maintenance Needed?	☐ Other / Comments:		
□YES			
□NO			
□ N/A			

Media Filter

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPE	CTION AND MAINTENANCE CHECKLIST FOR F	T-2 MEDIA FILTEI	R PAGE 2 of 2
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Presence of mosquitos/larvae	☐ Remove and properly dispose standing		
	water		
For images of egg rafts, larva, pupa, and adult	Down and a communicate of machanical ather		
mosquitos, see	☐ Remove accumulated materials that obstruct flow through the BMP*		
http://www.mosquito.org/biology	obstruct now through the biving		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□ NO			
□ N/A			
Damage to structural components of the	☐ Repair or replace as applicable		
filtration system such as weirs, underdrains,			
inlet or outlet structures	☐ Other / Comments:		
Maintenance Needed?			
☐ YES			
□NO			
□ N/A			
Any other recommendations pursuant to the	☐ Any other recommendations pursuant to		
proprietary filter manufacturer's maintenance	the proprietary filter manufacturer's		
guide	maintenance guide		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□ NO			
□ N/A			
= .4/			

^{*}If the BMP includes a permanent sump, contact the [City Engineer] to determine a permanent solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

BMP MAINTENANCE FACT SHEET FOR FLOW-THRU STRUCTURAL BMP FT-3 SAND FILTER

Sand filters operate by filtering storm water through a constructed sand bed with an underdrain system. Runoff enters the filter and spreads over the surface. As flows increase, water backs up on the surface of the filter where it is held until it can percolate through the sand. The treatment pathway is downward (vertical) through the media to an underdrain system that is connected to the downstream storm drain system. Sand filter beds can be enclosed within concrete structures or within earthen containment. There is usually a forebay at the inlet to trap sediment, trash and debris so that only the runoff is passed through the sand bed without the solid materials. Typical sand filter components include:

- Forebay for pretreatment / energy dissipation
- Surface ponding for captured flows
- Sand filter bed
- Aggregate storage layer with underdrain(s)
- Overflow structure

Normal Expected Maintenance

Sand filters require routine maintenance to: remove accumulated materials such as sediment, trash, and debris from the forebay; and clear the underdrain(s). To ensure runoff is passed through the sand bed, sand at the top of the sand bed (approximately 2 inches, or more if necessary) must be removed and replaced to restore flow when the drain time exceeds 24-96 hours. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

The normal expected maintenance described above ensures the BMP functionality. Lapses in the normal expected maintenance can lead to clogging of the BMP and runoff bypassing the filter. If clogging is observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. In addition, clogged BMPs can lead to flooding, standing water and mosquito breeding habitat. Corrective maintenance and increased inspection and maintenance will be required. For persistent clogging or presence of mosquitos, contact the [City Engineer] to determine a permanent solution. For example, adding pretreatment measures within the tributary area draining to the BMP to intercept sediment, trash, and debris. Pretreatment components, especially for sediment, will extend the life of the sand bed. For mosquitos, a Vector Management Plan, prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-3 SAND FILTER

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris in forebay and/or filter bed	Remove and properly dispose of accumulated materials.	 Inspect monthly. If the forebay is 25% full* or more in one month, increase inspection frequency to monthly plus after every 0.1-inch or larger storm event. Remove any accumulated materials found within the filter bed at each inspection. When the BMP includes a forebay, materials must be removed from the forebay when the forebay is 25% full*, or if accumulation within the forebay blocks flow to the filter bed.
Standing water in BMP for longer than 24-96 hours following a storm event	Make appropriate corrective measures to restore drainage such as removing obstructions of debris from the forebay, clearing underdrains or repairing/replacing clogged sand bed.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Clogged sand bed This is indicated when the drain time of the surface of the sand bed exceeds 24-96 hours.	Remove and properly dispose sand from the top of the sand bed (approximately 2 inches of sand, or as much as needed to restore flow). Restore sand depth to the design depth.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Obstructed inlet or outlet structure	Clear blockage.	 Inspect monthly and after every 0.5-inch or larger storm event. Remove any accumulated materials found at each inspection.

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-3 SAND FILTER			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	If mosquitos/larvae are observed: first, immediately remove and properly dispose any standing water by dispersing to nearby landscaping; second, make corrective measures as applicable to restore BMP drainage to prevent standing water. If mosquitos persist following corrective measures to remove standing water, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed 	
Damage to structural components of the BMP such as weirs, underdrains, inlet or outlet structures	Repair or replace as applicable.	Inspect annually. Maintenance when needed.	

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet FT-3.

 $\underline{\text{http://www.projectcleanwater.org/index.php?option=com}} \\ \text{content\&view=article\&id=250\<emid=220} \\ \\ \underline{\text{http://www.projectcleanwater.org/index.php?option=com}} \\ \text{content\&view=article\&id=250\<emid=220} \\ \underline{\text{http://www.projectcleanwater.org/index.php?option=com}} \\ \text{content\&view=article\&id=250\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<emid=220\<$

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FT-3 Page 4 of 7 January 12, 2017

Date:	Inspector:			BMP ID No.:
Permit No.:	APN(s):			
Property / Development Name:		Respons	ble Party Name and	Phone Number:
Property Address of BMP:	Responsible Party Addre		onsible Party Address:	
INSPECTION AND MAINTENANCE CHECKLIST FOR FT-3 SAND FILTER PAGE 1 of 3			AGE 1 of 3	
Threshold/Indicator	Maintenance Recommendation		Date	Description of Maintenance Conducted
Accumulation of sediment, litter, or debris	Remove and properly dispose of			

Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Accumulation of sediment, litter, or debris	☐ Remove and properly dispose of		
Materials must be removed from the forebay	accumulated materials		
when the forebay is 25% full*. In any case,	☐ If accumulation within the forebay is		
materials must be removed if accumulation	greater than 25% in one month,		
blocks flow through the filter bed.	increase the inspection and		
Materials must be removed from the filter bed	maintenance frequency**		
any time accumulation is observed in the filter	☐ Other / Comments:		
bed.			
Maintenance Needed?			
☐ YES			
□ NO			
□ N/A			

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

^{**}If no forebay is present, if sediment, litter, or debris accumulation exceeds 25% of the surface ponding volume within one month, add a forebay or other pre-treatment measures within the tributary area draining to the BMP to intercept the materials.

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-3 SAND FILTER PAGE 2 of 3			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Standing water in BMP for longer than 24-96	☐ Make appropriate corrective measures to		
hours following a storm event*	restore drainage such as removing		
Maintenance Needed?	obstructions of debris from the forebay, clearing underdrains, or		
☐ YES	repairing/replacing clogged sand bed		
□ NO	☐ Other / Comments:		
□ N/A	United / Comments.		
Clogged sand bed	☐ Remove and properly dispose sand from		
This is indicated when the drain time of the	the top of the sand bed (approximately 2		
surface of the sand bed exceeds 24-96 hours.	inches of sand, or as much as needed to		
	restore flow)		
Maintenance Needed?	☐ Restore sand depth to the design depth		
☐ YES			
□ NO	☐ Other / Comments:		
□ N/A			
Obstructed inlet or outlet structure	☐ Clear blockage		
Maintenance Needed?	☐ Other / Comments:		
□YES			
□NO			
□ N/A			

^{*}Surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the sand bed, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected. For persistent clogging, the [City Engineer] shall be contacted to determine a solution.

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-3 SAND FILTER PAGE 3 of 3			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Presence of mosquitos/larvae	☐ Remove and properly dispose standing water**		
For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	☐ Remove accumulated materials that obstruct flow through the BMP**		
Maintenance Needed?	☐ Other / Comments:		
☐ YES			
□ NO			
□ N/A			
Damage to structural components of the	☐ Repair or replace as applicable		
filtration system such as weirs, underdrains, inlet or outlet structures	☐ Other / Comments:		
Maintenance Needed?			
☐ YES			
□NO			
□ N/A			

^{**}If mosquitos persist following corrective measures to remove standing water, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

Dry Extended Detention Basin

BMP MAINTENANCE FACT SHEET FOR

FLOW-THRU STRUCTURAL BMP FT-4 DRY EXTENDED DETENTION BASIN

Dry extended detention basins are basins that have been designed to detain storm water for an extended period to allow sedimentation and typically drain completely between storm events. The slopes, bottom, and forebay of above-ground dry extended detention basins are typically vegetated. Dry extended detention basins may serve multiple uses including parks, playing fields, tennis courts, open space, and overflow parking lots. This BMP category also includes detention basins that serve a purpose of flow control for hydromodification management only, which may or may not include vegetation. They can be underground structures, in many possible configurations, including both proprietary and non-proprietary systems. They may be constructed of a single large vault, one or multiple large pipes, or other modular units. Outlet structures control outflow from either aboveground or underground detention systems; outlet structures may be weirs, orifice plates, risers, or other control structures. Typical dry extended detention basin components include:

- Forebay for pretreatment
- Surface ponding for captured flows
- Vegetation selected based on basin use, climate and ponding depth (above-ground basins)
- Low flow channel, outlet, and overflow device
- Impermeable liner or uncompacted native soils at the bottom of the facility

Normal Expected Maintenance

Dry extended detention basins require routine maintenance to: remove accumulated materials such as sediment, trash or debris; maintain vegetation health; and maintain integrity of side slopes, inlets, energy dissipators, and outlets. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

If any of the following scenarios are observed, the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance, increased inspection and maintenance, BMP replacement, or a different BMP type will be required.

- The BMP is not drained between storm events. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface or underground ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of underlying native soils and/or the outlet structure. The specific cause of the drainage issue must be determined and corrected. If it is determined that the drainage of the basin relies on infiltration and the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.
- Sediment, trash, or debris accumulation greater than 25% of the surface ponding volume within one
 month. This means the load from the tributary drainage area is too high, reducing BMP function or
 clogging the BMP. This would require pretreatment measures within the tributary area draining to the
 BMP to intercept the materials.
- Erosion due to concentrated storm water runoff flow that is not readily corrected by adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

Dry Extended Detention Basin

Other Special Considerations

Some above-ground dry extended detention basins are vegetated structural BMPs. Vegetated structural BMPs that are constructed in the vicinity of, or connected to, an existing jurisdictional water or wetland could inadvertently result in creation of expanded waters or wetlands. As such, vegetated structural BMPs have the potential to come under the jurisdiction of the United States Army Corps of Engineers, SDRWQCB, California Department of Fish and Wildlife, or the United States Fish and Wildlife Service. This could result in the need for specific resource agency permits and costly mitigation to perform maintenance of the structural BMP. Along with proper placement of a structural BMP, routine maintenance is key to preventing this scenario.

Underground dry extended detention basins are typically designed to be cleaned from above-ground using a vactor. If maintenance conditions require maintenance personnel to enter the underground structure, the maintenance personnel must be trained and certified in confined space entry.



Dry Extended Detention Basin

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-4 DRY EXTENDED DETENTION BASIN

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

	etermined based on the results of the first year inspections.	
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Accumulation of sediment, litter, or debris in forebay and/or basin	Remove and properly dispose of accumulated materials, (without damage to vegetation when applicable).	 Inspect monthly. If the forebay is 25% full* or more in one month, increase inspection frequency to monthly plus after every 0.1-inch or larger storm event. Remove any accumulated materials found within the basin area at each inspection. When the BMP includes a forebay, materials must be removed from the forebay when the forebay is 25% full*, or if accumulation within the forebay blocks flow
Obstructed inlet or outlet structure	Clear blockage.	to the basin. Inspect monthly and after every 0.5-inch or larger storm event. Remove any accumulated materials found at each inspection.
Poor vegetation establishment (when the BMP includes vegetated surface by design)	Re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Dead or diseased vegetation (when the BMP includes vegetated surface by design)	Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Overgrown vegetation (when the BMP includes vegetated surface by design)	Mow or trim as appropriate.	Inspect monthly.Maintenance when needed.

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Dry Extended Detention Basin

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-4 DRY EXTENDED DETENTION BASIN (Continued from previous page)			
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency	
Erosion due to concentrated irrigation flow	Repair/re-seed/re-plant eroded areas and adjust the irrigation system.	Inspect monthly.Maintenance when needed.	
Erosion due to concentrated storm water runoff flow	Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect after every 0.5-inch or larger storm event. If erosion due to storm water flow has been observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction. 	
Standing water in above-ground BMP for longer than 24- 96 hours following a storm event	Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or removing/replacing clogged or compacted surface treatments and/or scarifying or tilling native soils. Always remove deposited sediments before scarification, and use a hand-guided rotary tiller. If it is determined that the drainage of the basin relies on infiltration and the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	
Standing water in underground BMP for longer than 24- 96 hours following a storm event	Make appropriate corrective measures such as removing obstructions at the outlet, clearing underdrains, or flushing fine sediment from aggregate layer when applicable. If it is determined that the drainage of the basin relies on infiltration and the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed. 	

Dry Extended Detention Basin

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR FT-4 DRY EXTENDED DETENTION BASIN (Continued from previous page)		
Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Presence of mosquitos/larvae	If mosquitos/larvae are observed: first, immediately	• Inspect monthly and after every 0.5-inch or larger
	remove and properly dispose any standing water;	storm event. If mosquitos are observed, increase
For images of egg rafts, larva, pupa, and adult		inspection frequency to after every 0.1-inch or larger
mosquitos, see	restore BMP drainage to prevent standing water. For	storm event.
http://www.mosquito.org/biology	underground detention basins, ensure access covers are	Maintenance when needed
	tight fitting, with gaps or holes no greater than 1/16	
	inch, and/or install barriers such as inserts or screens	
	that prevent mosquito access to the subsurface storage.	
	If mosquitos persist following corrective measures to	
	remove standing water, or if the BMP design does not	
	meet the 96-hour drawdown criteria due to release	
	rates controlled by an orifice installed on the	
	underdrain, the [City Engineer] shall be contacted to	
	determine a solution. A different BMP type, or a Vector	
	Management Plan prepared with concurrence from the	
	County of San Diego Department of Environmental	
	Health, may be required.	
Damage to structural components such as weirs, inlet or	Repair or replace as applicable.	Inspect annually.
outlet structures		Maintenance when needed.

References

American Mosquito Control Association.

http://www.mosquito.org/

California Storm Water Quality Association (CASQA). 2003. Municipal BMP Handbook.

https://www.casqa.org/resources/bmp-handbooks/municipal-bmp-handbook

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet FT-4.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220

FT-4 Dry Extended Detention Basin

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Dry Extended Detention Basin

BMP ID No.:

Permit No.:	APN(s):		
Property / Development Name:		Responsible Party Name and	Phone Number:
Property Address of BMP:		Responsible Party Address:	
INSPECTION A	AND MAINTENANCE CHECKLIST FOR I	FT-4 DRY EXTENDED DETENTION	N BASIN PAGE 1 of 5
Threshold/Indicator	Maintenance Recommendation	on Date	Description of Maintenance Conducted
Accumulation of sediment, litter, or debris Materials must be removed from the forebay when the forebay is 25% full*. In any case, materials must be removed if accumulation blocks flow to the basin area. Materials must be removed from the basin area any time accumulation is observed in the basin area. Maintenance Needed? YES NO N/A	Remove and properly dispose of accumulated materials, (withou damage to the vegetation wher applicable) If accumulation within the foreba greater than 25% in one month increase the inspection and maintenance frequency* Other / Comments:	ut in ay is	bescription of maintenance conducted

Inspector:

Date:

^{*&}quot;25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

^{**}If no forebay is present, if sediment, litter, or debris accumulation exceeds 25% of the surface ponding volume within one month, add a forebay or other pre-treatment measures within the tributary area draining to the BMP to intercept the materials.

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION	AND MAINTENANCE CHECKLIST FOR FT-4 DRY	EXTENDED DETENTION	N BASIN PAGE 2 of 5
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Poor vegetation establishment	☐ Re-seed, re-plant, or re-establish		
(when the BMP includes vegetated surface by design)	vegetation per original plans ☐ Other / Comments:		
Maintenance Needed?			
□ YES			
□ NO			
□ N/A			
Dead or diseased vegetation	☐ Remove dead or diseased vegetation,		
(when the BMP includes vegetated surface by design)	re-seed, re-plant, or re-establish vegetation per original plans		
Maintenance Needed?	☐ Other / Comments:		
□YES			
□ NO			
□ N/A			
Overgrown vegetation	☐ Mow or trim as appropriate		
(when the BMP includes vegetated surface by design)	☐ Other / Comments:		
Maintenance Needed?			
□ YES	· ·		
□NO			
□ N/A			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-4 DRY EXTENDED DETENTION BASIN PAGE 3 of 5				
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Erosion due to concentrated irrigation flow	☐ Repair/re-seed/re-plant eroded areas			
Maintenance Needed?	and adjust the irrigation system			
□ YES	☐ Other / Comments:			
□ NO				
□ N/A				
Erosion due to concentrated storm water runoff	☐ Repair/re-seed/re-plant eroded areas,			
flow	and make appropriate corrective			
Maintenance Needed?	measures such as adding erosion control blankets, adding stone at flow			
☐ YES	entry points, or minor re-grading to			
\square NO	restore proper drainage according to			
□ N/A	the original plan			
	☐ If the issue is not corrected by restoring			
	the BMP to the original plan and			
	grade, the [City Engineer] shall be			
	contacted prior to any additional repairs or reconstruction			
	□ Other / Comments:			

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-4 DRY EXTENDED DETENTION BASIN PAGE 4 of 5				
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Obstructed inlet or outlet structure	☐ Clear blockage			
Maintenance Needed?	☐ Other / Comments:			
☐ YES			·	
□ NO				
□ N/A				
Damage to structural components such as weirs,	☐ Repair or replace as applicable			
inlet or outlet structures	☐ Other / Comments:			
Maintenance Needed?				
□YES				
□ NO				
□ N/A				

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR FT-4 DRY EXTENDED DETENTION BASIN PAGE 5 of 5			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Standing water in above-ground BMP for longer than 24-96 hours following a storm event*	 □ Make appropriate corrective measures such as adjusting irrigation system, removing obstructions of debris or invasive vegetation, or repairing/replacing clogged or compacted soils.* □ Other / Comments: 		
Standing water in underground BMP for longer than 24-96 hours following a storm event*	 □ Make appropriate corrective measures such as removing debris obstructions, clearing underdrains, or flushing fine sediment from aggregate layer when applicable.* □ Other / Comments: 		
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology Maintenance Needed?	□ Apply corrective measures to remove standing water in BMP when standing water occurs for longer than 24-96 hours following a storm event.** □ Other / Comments:		

Dry Extended Detention Basin

*Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the outlet structure or the underlying soils. The specific cause of the drainage issue must be determined and corrected. If it is determined that the drainage of the basin relies on infiltration and the underlying native soils have been compacted or do not have the infiltration capacity expected, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction.

**If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

BMP MAINTENANCE FACT SHEET FOR SITE DESIGN BMP SD-1 TREE WELLS

Tree wells as site design BMPs are trees planted in configurations that allow storm water runoff to be directed into the soil immediately surrounding the tree. The tree may be contained within a planter box or structural cells. The surrounding area will be graded to direct runoff to the tree well. There may be features such as tree grates, suspended pavement design, or shallow surface depressions designed to allow runoff into the tree well. Typical tree well components include:

- Trees of the appropriate species for site conditions and constraints
- Available growing space based on tree species, soil type, water availability, surrounding land uses, and project goals
- Entrance/opening that allows storm water runoff to flow into the tree well (e.g., a curb opening, tree grate, or surface depression)
- Optional suspended pavement design to provide structural support for adjacent pavement without requiring compaction of underlying layers
- Optional root barrier devices as needed; a root barrier is a device installed in the ground, between a tree
 and the sidewalk, intended to guide roots down and away from the sidewalk in order to prevent sidewalk
 lifting from tree roots
- Optional tree grates; to be considered to maximize available space for pedestrian circulation and to
 protect tree roots from compaction related to pedestrian circulation; tree grates are typically made up of
 porous material that will allow the runoff to soak through
- Optional shallow surface depression for ponding of excess runoff
- Optional planter box drain

Normal Expected Maintenance

Tree health shall be maintained as part of normal landscape maintenance. Additionally, ensure that storm water runoff can be conveyed into the tree well as designed. That is, the opening that allows storm water runoff to flow into the tree well (e.g., a curb opening, tree grate, or surface depression) shall not be blocked, filled, re-graded, or otherwise changed in a manner that prevents storm water from draining into the tree well. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

Tree wells are site design BMPs that normally do not require maintenance actions beyond routine landscape maintenance. The normal expected maintenance described above ensures the BMP functionality. If changes have been made to the tree well entrance / opening such that runoff is prevented from draining into the tree well (e.g., a curb inlet opening is blocked by debris or a grate is clogged causing runoff to flow around instead of into the tree well, or a surface depression has been filled so runoff flows away from the tree well), the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance will be required to restore drainage into the tree well as designed.

Surface ponding of runoff directed into tree wells is expected to infiltrate/evapotranspirate within 24-96 hours following a storm event. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging or compaction of the soils surrounding the tree. Loosen or replace the soils to restore drainage.

Other Special Considerations

Site design BMPs, such as tree wells, installed within a new development or redevelopment project are components of an overall storm water management strategy for the project. The presence of site design BMPs within a project is usually a factor in the determination of the amount of runoff to be managed with structural BMPs (i.e., the amount of runoff expected to reach downstream retention or biofiltration basins that process storm water runoff from the project as a whole). When site design BMPs are not maintained or are removed, this can lead to clogging or failure of downstream structural BMPs due to greater delivery of runoff and pollutants than intended for the structural BMP. Therefore, the [City Engineer] may require confirmation of maintenance of site design BMPs as part of their structural BMP maintenance documentation requirements. Site design BMPs that have been installed as part of the project should not be removed, nor should they be bypassed by re-routing roof drains or re-grading surfaces within the project. If changes are necessary, consult the [City Engineer] to determine requirements.



SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR SD-1 TREE WELLS

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Tree health	Routine actions as necessary to maintain tree health.	Inspect monthly. Maintenance when needed.
Dead or diseased tree	Remove dead or diseased tree. Replace per original plans.	Inspect monthly. Maintenance when needed.
Standing water in tree well for longer than 24 hours following a storm event Surface ponding longer than approximately 24 hours following a storm event may be detrimental to tree health	Loosen or replace soils surrounding the tree to restore drainage.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	Disperse any standing water from the tree well to nearby landscaping. Loosen or replace soils surrounding the tree to restore drainage (and prevent standing water).	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed
Entrance / opening to the tree well is blocked such that storm water will not drain into the tree well (e.g., a curb inlet opening is blocked by debris or a grate is clogged causing runoff to flow around instead of into the tree well; or a surface depression is filled such that runoff drains away from the tree well)	Make repairs as appropriate to restore drainage into the tree well.	Inspect monthly. Maintenance when needed.

References

American Mosquito Control Association.

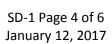
http://www.mosquito.org/

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet SD-1.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220



Date:	Inspector:		BMP ID No.:
Permit No.:	APN(s):		
Property / Development Name:		Responsible Party Name and	I Phone Number:
Property Address of BMP:		Responsible Party Address:	

INSPECTION AND MAINTENANCE CHECKLIST FOR SD-1 TREE WELLS PAGE 1 of 2			
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted
Dead or diseased tree	☐ Remove dead or diseased tree		
Maintenance Needed?	☐ Replace per original plans		
☐ YES	☐ Other / Comments:		
□ NO			
□ N/A			
Standing water in tree well for longer than 24	☐ Loosen or replace soils surrounding the		
hours following a storm event	tree to restore drainage		
Surface ponding longer than approximately 24	☐ Other / Comments:		
hours following a storm event may be			
detrimental to tree health			
Maintenance Needed?			
□YES			
□NO			
□ N/A			

Tree	We	lls
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Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR SD-1 TREE WELLS PAGE 2 of 2						
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted			
Presence of mosquitos/larvae	☐ Disperse any standing water from the tree well to nearby landscaping					
For images of egg rafts, larva, pupa, and adult						
mosquitos, see	☐ Loosen or replace soils surrounding the tree to restore drainage (and prevent					
http://www.mosquito.org/biology	standing water)					
Maintenance Needed?	☐ Other / Comments:					
☐ YES						
□ NO □ N/A						
Entrance / opening to the tree well is blocked such that storm water will not drain into the	☐ Make repairs as appropriate to restore drainage into the tree well					
tree well (e.g., a curb inlet opening is blocked by						
debris or a grate is clogged causing runoff to	☐ Other / Comments:					
flow around instead of into the tree well; or a surface depression is filled such that runoff						
drains away from the tree well)						
Maintenance Needed?						
□ YES □ NO □ N/A						

Impervious Area Dispersion

BMP MAINTENANCE FACT SHEET FOR SITE DESIGN BMP SD-5 IMPERVIOUS AREA DISPERSION

Impervious area dispersion (dispersion) refers to the practice of effectively disconnecting impervious areas from directly draining to the storm drain system by routing runoff from impervious areas such as rooftops (through downspout disconnection), walkways, and driveways onto the surface of adjacent pervious areas. The intent is to slow runoff discharges, and reduce volumes. Typical dispersion components include:

- An impervious surface from which runoff flows will be routed with minimal piping to limit concentrated inflows
- Splash blocks, flow spreaders, or other means of dispersing concentrated flows and providing energy dissipation as needed
- Dedicated pervious area, typically vegetated, with in-situ soil infiltration capacity for partial or full infiltration
- Optional soil amendments to improve vegetation support, maintain infiltration rates and enhance treatment of flows
- Overflow route for excess flows to be conveyed from dispersion area to the storm drain system or discharge point

Normal Expected Maintenance

Vegetated area shall be maintained as part of normal landscape maintenance. Additionally, ensure that storm water runoff can be conveyed into the vegetated area as designed. That is, the mechanism that allows storm water runoff from impervious area to flow into the pervious area (e.g., a curb cut allows runoff from a parking lot to drain onto adjacent landscaping area, or a roof drain outlet is directed to a lawn) shall not be removed, blocked, filled, or otherwise changed in a manner that prevents storm water from draining into the pervious area. A summary table of standard inspection and maintenance indicators is provided within this Fact Sheet.

Non-Standard Maintenance or BMP Failure

Impervious area dispersion is a site design BMP that normally does not require maintenance actions beyond routine landscape maintenance. If changes have been made to the area, such as the vegetated area has been replaced with impervious area, or the mechanism that allows storm water runoff from impervious area to flow into the pervious area has been removed (e.g., roof drains previously directed to vegetated area have been directly connected to the street or storm drain system), the BMP is not performing as intended to protect downstream waterways from pollution and/or erosion. Corrective maintenance will be required to restore drainage into the pervious area as designed. If the pervious area has been removed, contact the [City Engineer] to determine a solution.

Runoff directed into vegetated areas is expected to be drained within 24-96 hours following a storm event. Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging or compaction of the soils. Loosen or replace the soils to restore drainage.

Impervious Area Dispersion

Other Special Considerations

Site design BMPs, such as impervious area dispersion, installed within a new development or redevelopment project are components of an overall storm water management strategy for the project. The presence of site design BMPs within a project is usually a factor in the determination of the amount of runoff to be managed with structural BMPs (i.e., the amount of runoff expected to reach downstream retention or biofiltration basins that process storm water runoff from the project as a whole). When site design BMPs are not maintained or are removed, this can lead to clogging or failure of downstream structural BMPs due to greater delivery of runoff and pollutants than intended for the structural BMP. Therefore, the [City Engineer] may require confirmation of maintenance of site design BMPs as part of their structural BMP maintenance documentation requirements. Site design BMPs that have been installed as part of the project should not be removed, nor should they be bypassed by re-routing roof drains or re-grading surfaces within the project. If changes are necessary, consult the [City Engineer] to determine requirements.



Impervious Area Dispersion

SUMMARY OF STANDARD INSPECTION AND MAINTENANCE FOR SD-5 IMPERVIOUS AREA DISPERSION

The property owner is responsible to ensure inspection, operation and maintenance of permanent BMPs on their property unless responsibility has been formally transferred to an agency, community facilities district, homeowners association, property owners association, or other special district.

Maintenance frequencies listed in this table are average/typical frequencies. Actual maintenance needs are site-specific, and maintenance may be required more frequently. Maintenance must be performed whenever needed, based on maintenance indicators presented in this table. The BMP owner is responsible for conducting regular inspections to see when maintenance is needed based on the maintenance indicators. During the first year of operation of a structural BMP, inspection is recommended at least once prior to August 31 and then monthly from September through May. Inspection during a storm event is also recommended. After the initial period of frequent inspections, the minimum inspection and maintenance frequency can be determined based on the results of the first year inspections.

Threshold/Indicator	Maintenance Action	Typical Maintenance Frequency
Poor vegetation establishment	Re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Dead or diseased vegetation	Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans.	Inspect monthly. Maintenance when needed.
Overgrown vegetation	Mow or trim as appropriate.	Inspect monthly. Maintenance when needed.
Standing water in vegetated pervious area for longer than 24 hours following a storm event Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health	Disperse any areas of standing water to nearby landscaping (i.e., spread it out to another portion of the pervious area so it drains into the soil). Make appropriate corrective measures such as adjusting irrigation system, or repairing/replacing clogged or compacted soils.	 Inspect monthly and after every 0.5-inch or larger storm event. If standing water is observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed.
Presence of mosquitos/larvae For images of egg rafts, larva, pupa, and adult mosquitos, see http://www.mosquito.org/biology	Disperse any areas of standing water to nearby landscaping (i.e., spread it out to another portion of the pervious area so it drains into the soil). Loosen or replace soils to restore drainage (and prevent standing water)	 Inspect monthly and after every 0.5-inch or larger storm event. If mosquitos are observed, increase inspection frequency to after every 0.1-inch or larger storm event. Maintenance when needed
Entrance / opening to the vegetated pervious area is blocked such that storm water from impervious area will not drain into the pervious area (e.g., a curb cut opening is blocked by debris or a roof drain outlet has been directly connected to the storm drain system)	Make repairs as appropriate to restore drainage into the vegetated pervious area.	Inspect monthly.Maintenance when needed.

Impervious Area Dispersion

References

American Mosquito Control Association.

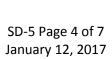
http://www.mosquito.org/

County of San Diego. 2014. Low Impact Development Handbook.

http://www.sandiegocounty.gov/content/sdc/dpw/watersheds/susmp/lid.html

San Diego County Copermittees. 2016. Model BMP Design Manual, Appendix E, Fact Sheet SD-5.

http://www.projectcleanwater.org/index.php?option=com_content&view=article&id=250&Itemid=220



Impervious Area Dispersion

Date:	Inspector:			BMP ID No.:
Permit No.: APN(s):				
Property / Development Name:		Responsible Party Name and Phone Number:		
Property Address of BMP:		Responsible Party Address:		
INSPECTION AN	D MAINTENANCE CHECKLIST FOR	SD-5 IMPE	RVIOUS AREA DISPE	ERSION PAGE 1 of 3
Threshold/Indicator	Maintenance Recommendation	on	Date	Description of Maintenance Conducted
Poor vegetation establishment	Re-seed, re-plant, or re-establish			
Maintenance Needed?	vegetation per original plans			
☐ YES	Other / Comments:			
□NO				
□ N/A				
Dead or diseased vegetation	Remove dead or diseased vegetat	ion, re-		
Maintenance Needed?	seed, re-plant, or re-establish ve per original plans	getation		
□YES				
□NO	Other / Comments:			
□ N/A				
Overgrown vegetation	Mow or trim as appropriate			
Maintenance Needed?	Other / Comments:			
□YES				
□NO				
□ N/A				

Impervious Area Dispersion

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR SD-5 IMPERVIOUS AREA DISPERSION PAGE 2 of 3					
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted		
Standing water in vegetated pervious area for longer than 24 hours following a storm event	☐ Disperse any areas of standing water to nearby landscaping (i.e., spread it out to				
Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health	another portion of the pervious area so it drains into the soil). Make appropriate corrective measures to prevent standing water such as adjusting irrigation system,				
Maintenance Needed?	or repairing/replacing clogged or compacted soils				
☐ YES	compacted soils				
□NO	☐ Other / Comments:				
□ N/A					
Presence of mosquitos/larvae	☐ Disperse any areas of standing water to				
	nearby landscaping (i.e., spread it out to				
For images of egg rafts, larva, pupa, and adult	another portion of the pervious area so it				
mosquitos, see http://www.mosquito.org/biology	drains into the soil)				
	☐ Make corrective measures (see above) to				
Maintenance Needed?	restore drainage (and prevent standing				
□YES	water)				
□NO	☐ Other / Comments:				
□ N/A					

Impervious Area Dispersion

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR SD-5 IMPERVIOUS AREA DISPERSION PAGE 3 of 3				
Threshold/Indicator	Maintenance Recommendation	Date	Description of Maintenance Conducted	
Entrance / opening to the vegetated pervious area is blocked such that storm water from impervious area will not drain into the pervious area (e.g., a curb cut opening is blocked by debris or a roof drain outlet has been directly connected to the storm drain system) Maintenance Needed?	 ☐ Make repairs as appropriate to restore drainage into the vegetated pervious area* ☐ Other / Comments: 			
☐ YES ☐ NO ☐ N/A				

^{*}If the pervious area has been removed, contact the [City Engineer] to determine a solution.



ATT 4 MTS STATIONS WITH TREATMENT BMPS



5 A-279

MTS BMP LOCATIONS AND INSPECTION DATES

			INSPECTION DATES			
#	Station	BMPs	22-Nov	22-Dec	23-Jan	23-Feb
	+h		11/02/2022			
1	8 th Street	6 Bioretention Basins, 1 Biofiltration Strip, 15 Drain Inserts (DI)	11/22/2022		1/20/2023	
	al.		11/10/2022			
	24 th Street	7 Bioretention Basins, 13 DI	11/22/2022			
3	Balboa Avenue Station	7 Bioretention Basins, 13 DI		12/2/2022		
4	Barrio Logan	2 Bioretention Basins, 3 DI	11/10/2022		1/20/2023	
5	Beyer Blvd.	4 Bioretention Basins, 4 DI, 1 Water Quality Vault (WQV)	11/22/2022			
6	Del Lago	1 Biofiltration swale, 6 DI				
7	E Street	3 Bioretention Basins, 9 DI		12/2/2022		
8	East Palomar Transit Center	2 Bioretention Basins, 3 DI		12/2/2022		
9	Executive Drive	6 Bioretention Basins, 6 DI				
10	Grossmont Transit Center	2 DI				
11	H Street	3 Bioretention Basins, 4 DI, 1 WQV		12/2/2022		
12	Iris Avenue	4 DI		12/2/2022		
	Miramar College	4 DI		12/14/2022		
14	Old Town Transit Center	13 DI	11/9/2022	12/2/2022		
15	Pacific Fleet	2 Biostrips	11/8/2022			
16	Palm Avenue	6 DI, 1 WQV			1/20/2023	
17	Palomar Street	4 Bioretention Basins, 10 DI		12/2/2022		
18	Rancho Bernardo TC	2 Biofiltration Swale, 4 DI, 1 WQV	12/14/2022	12/14/2022		
19	Sabre Springs	1 Biofiltration Swale, 3 Bioretention Basins, 7 DI		12/14/2022		
20	Santa Fe Depot	2 DI	11/9/2022			2/27/2023
21	Seaport Village	1 Biofiltration strip, 7 DI	12/2/2022	12/2/2022		
	Tecolote Road	3 Bioretention Basins, 8 DI		12/2/2022	1/31/2023	
23	UTC	6 Bioretention Basins, 5 DI				
24	VA Medical Drive Station	1 Bioretention Basin, 4 Biofiltration Swales, 4 DI	12/2/2022	12/2/2022		
25	Voigt Drive Station/ UCSD Health La Jolla	3 Bioretention Basins, 1 Biofiltration Swales, 7 DI	11/10/2022		1/10/2023	

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^{*} During the term of the agreement, locations and BMPs are subject to change.

EXHIBIT A1 CONTRACTOR'S TECHNICAL PROPOSAL





MS4 Support and As-Needed BMP Repair and Consulting Services

MTS DOC. NO. PWG367.0-23 DUE DATE: JUNE 23, 2023 PREPARED FOR



PREPARED BY



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June 23, 2023

Attn: Steve Augustyn, Senior Procurement Specialist Metropolitan Transit System 1255 Imperial Avenue, Suite 1000 San Diego, CA 92101

RE: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

Dear Mr. Augustyn;

San Diego Metropolitan Transit System (MTS) is seeking assistance with managing their existing Stormwater Management Program required under the Small MS4 General Permit with the California State Water Resources Control Board (SWRCB) Order No. 2013-0001-DWQ. The intent of this effort is to provide MTS with ongoing implementation with the Non-Traditional Small MS4 Permittee provisions outlined in Section F of the Small MS4 Permit.

The team we are offering under this opportunity is the same team that has been delivering the MTS Stormwater Management Program over the last six years. This began in 2016 with Richard "Rick" Bottcher serving as the Project Manager and Veronica Seyde serving as the Deputy Project Manager. Our initial effort began with the Small MS4

Permit enrollment phase and then developing the various Stormwater Management Program elements. In 2019, as the Project Manager, Veronica has been working with MTS with successfully implementing the multiple aspects of the MTS Stormwater Management Program. As such, our team offers the strongest value to MTS given our legacy working knowledge of MTS staff, facilities and projects as well as your processes, procedures, and standards. Moreover, WSP has specific working knowledge of the MTS Stormwater Management Program and offers the same key technical team members to continue working collaboratively with MTS to achieve compliance with the current MS4 Permit as well as the proposed reissuance of the Statewide Phase II Small MS4 Permit.

Based on our working knowledge of the MTS Stormwater Management Program WSP has organized our Work Plan strategy into three elements:



Program Management: Veronica Seyde will continue to lead this effort as the Project Manager for MTS, she has an effective working relationship with the MTS Environmental Health and Safety (EHS) Specialist. Their open communication style, either through text messages, email or telephone calls, has enabled MTS to respond to multiple inquiries from both internal MTS department leads along with time-sensitive questions and information requests from the San Diego Regional Water Quality Control Board (RWQCB).

Veronica has hands-on experience designing cost-efficient stormwater programs. For the MTS Public Outreach Campaign, Veronica connected MTS to the California Department of Transportation (Caltrans) Stormwater representative in Sacramento. This partnership provided public outreach materials at no cost to MTS. This effort led to the Clean Water Starts with Clean Stations tag line that MTS advertised at bus shelter kiosks, the Rider Insider and bus cards in 2020. This no-cost program resulted in 1,000's of impressions in 2020 and allowed MTS to achieve compliance with the Public Education Outreach Compliance Strategy.

MS4 Support Services: Our team knows your MS4 system better than any other firm. We have an excellent understanding of your transit infrastructure network and water quality features. We intend to build on our existing knowledge, relationships, experience and lessons learned to assist you with continuing the implementation of

MTS -MS4 Support And As-Needed BMP Repair

your MS4 Stormwater Management Program. A key value of WSP to MTS is our familiarity with Treatment Best Management Practice (BMP) inspection and maintenance. Under this agreement, we have developed a strategy for performing this work that protects MTS' assets. As indicated in the MTS Operations & Maintenance Activity Guidance Manual, all Treatment BMPs are required to be inspected by a qualified individual. Furthermore, Treatment BMPs must be properly maintained to ensure that they operate correctly and provide the water quality treatment for which they were designed.

Our goal for this contract is to protect the investment MTS has made with the design and construction of Treatment BMPs located along their light rail corridor and at their Bus Rapid Transit (BRT) stations. To achieve that goal, we have assembled a qualified and experienced inspection team. Our inspectors will identify maintenance requirements and then schedule the maintenance activity with our subcontractor, San Diego Stormwater Solutions (SDSS). SDSS has eight years' experience performing Treatment BMP maintenance and has been providing this service to MTS since 2021. After the maintenance is performed, our inspectors will verify that the work performed ensures that the Treatment BMP operates correctly and provides the water quality treatment for which it was designed. Again, performing inspection and maintenance by two separate parties eliminates bias, protects MTS' investment and ensures that MTS can avoid more costly rehabilitative maintenance that results when facilities are not adequately maintained.

As-Needed Repair Services: Regarding As-Needed Repair Services, as noted in the MTS Operations & Maintenance Activity Guidance Manual, required maintenance for Treatment BMPs is separated into two broad categories:

- 1. Normal Expected Maintenance
- 2. Non-Standard Maintenance of BMP Failure

Our cost proposal for maintenance considers maintenance referenced in Section 5.4.2.3 as applicable to Normal Expected Maintenance. Any Non-Standard Maintenance of BMP Failure will be provided per the terms and conditions set forth in Section 5.5 of PWG367.0-23. Our sub-contractor, SDSS, will provide Treatment BMP maintenance for both Treatment BMP maintenance categories.

We are enthusiastic about this opportunity and hereby dedicate the technical resources to complete this effort. As a senior business leader I am legally authorized to bind this proposal on behalf of WSP. Our proposal will remain valid for a period of no less than one hundred and twenty (120) days from the date of submittal. We acknowledge the receipt of Addendum No. 1 dated June 8, 2023. We have provided proof in Appendix V that the required insurance coverage contained in the Sample Agreement can be obtained by WSP. As part of WSP's Health, Safety and Environment program, all field employees are required to take mandatory training related to roadway and work zone field safety and we are ready to gain certification under any MTS-required Roadway Worker Safety Training. We look forward to continuing to work collaboratively with MTS to achieve compliance with the Small MS4 permit. If you have any questions, please contact me or our project manager, Veronica Seyde.

Sincerely,

Patti Boekamp

Senior Director | Local Business Leader

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401 B Street Ste 1650

San Diego CA 92101-4245

Veronica Seyde

Project Manager | Environmental Science

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Veronica.Seyde@wsp.com

Devouca Landa

1100 W. Town and Country Road, Suite 200

Orange, CA 92868



TECHNICAL PROPOSAL







and Consulting Services

FIRM PROFILE

WSP USA Inc. (WSP) is a nationally recognized firm and a global leader in engineering and water infrastructure. We are ranked No. 2 globally in Pure Engineering Design and No. 8 in Water by Engineering News Record, we offer breadth and depth of water and drainage design services. We have more than 63,000 engineers, technicians, scientists and environmental experts, planners, modeling specialists, program and construction management professionals across 40 countries. In the last five years, the San Diego office managed and provided over \$2 billion in infrastructure-related project design services. We have worked in San Diego for the last 35 years and with MTS for the last 6 years. Our San Diego experience includes stormwater infrastructure design, inspection and maintenance projects.

Work of a Similar Nature

As referenced in the Related Experience section of this proposal, we have stormwater management project experience with many of the MS4 Permittees in the San Diego region, including Caltrans, County of San Diego, City of San Diego, City of Chula Vista, University of California San Diego (UCSD), San Diego Airport Authority and Naval Base San Diego (NAVFAC Southwest). Our in-depth knowledge garnered from these local projects includes an understanding of the Phase I and Phase II MS4 permits as well as Treatment BMP design standards referenced in the White Book, Drainage Design Manual, City Standard Plans, and the MTS Post Construction Stormwater Management Manual. We know how to execute these standards for MTS. Exhibit 1 highlights our years of experience for the services requested in PWG367.0-23. Exhibit 2 summarizes our related experience, demonstrates our public agency experience and how we have performed technical work of a similar nature.

Competence in the Types of Services Offered

WSP is a talented group of individuals with professional work experience in municipal and industrial stormwater management, flood control and stormwater quality treatment. Our MTS team possesses advanced degrees in coastal and civil engineering, environmental sciences and natural resources. We can offer MTS a team of stormwater experts that can assist in stormwater management program implementation. Our team includes Qualified Industrial Stormwater Practitioners and Qualified SWPPP Developers (some of which have been licensed by the State to train inspectors and engineers on the requirements for stormwater pollution prevention), and can thereby provide assurance that regulatory requirements will be implemented correctly (see Exhibit 4 and Exhibit 5 in Proposed Staffing, Organization, and Management Plan). Proposed Staffing, Organization, and Management Plan). Our team focuses on BMPs, project design features, avoidance, minimization protection and mitigation for aquatic resources and offers guidance in selecting specific operational measures which serve as valuable input into terms and conditions for permits addressing water quality.

Financial Condition (Strength and Stability)

WSP has no bankruptcies, pending litigation, planned office closures or impending mergers that may impede our ability to complete the project. WSP USA Inc.'s average revenue over the past three years exceeds \$1 billion, with the expectation of continued growth. The firm's ultimate parent company, WSP Global Inc., is a publicly traded company on the Toronto Stock Exchange. The financial statements of the subsidiaries of WSP Global Inc., which include WSP USA Inc., are consolidated in the audited financial statements of WSP Global Inc. Current copies of these financial statements, as well as information regarding mergers and acquisitions, stock details, and dividends, are all available in Appendix I or for download at https://www.wsp.com/en-gl/investors/reports-and-



Att.A, AI 12, 09/14/23

Corporation

FOUNDED IN 1933



ENVIRONMENTAL INFRASTRUCTURE ENGINEERING • DESIGN

MULTIDISCIPLINARY FIRM



YEARS IN THE U.S.



15,000+

NUMBER OF U.S. EMPLOYEES



NUMBER EMPLOYEES WORLDWIDE



filings/annual-report. The financial questionnaire form is located the Forms section of this Proposal.

Staffing Capability

The WSP team we offer to MTS, is immediately available to begin work on this project. In addition to our ability to be extremely responsive, our network of offices throughout California as well as our local staff in San Diego gives us the resources and regional expertise necessary to implement cost-effective and technically excellent solutions that manage stormwater. Our Stormwater Management experts have many years of experience working in this field of expertise and have written guidelines for municipal stormwater management including municipal guidelines for Green Streets, Permanent BMPs, Construction BMPs, and Erosion and Sediment Control. We have certified Qualified SWPPP Designer (QSD), Qualified SWPPP Practitioner (QSP), and Qualified Industrial Storm Water Practitioner (QISP) personnel on staff along with personnel who have developed MS4 programs for various agencies and who understand the proper facilities to be used given site and regulatory conditions including TMDL compliance, groundwater recharge requirements, and infiltration basin constraints. Our staff's capacity to support MTS's workload is featured in the resumes in Appendix II. Please note, staffing capability is also indicated by the percentage of availability symbol displayed on every team member's resume.

Workload Concurrent with the Performance Period Under this Solicitation

Exhibit 5 displays our staffing availability and demonstrates how our current workload will not impact our ability to deliver the services required under PWG367.0-23. WSP's well-established network of San Diego offices—incorporating hundreds of professionals and technicians—and unique depth of experience throughout the San Diego area provides MTS with a proven, flexible and responsive team with a local and regional understanding and extensive experience level. WSP's comprehensive coverage, understanding of day-to-day MTS operations and facilities, and ability to plan for and react to all of MTS's stormwater management, environmental, engineering, emergency and program support needs will be critical to the success of this contract.

Record of Meeting Performance Standards on Similar Agreements

For over 20 years, WSP's stormwater team has delivered pragmatic, innovative, and outstanding technical solutions to our clients. Our local client base includes MTS, County of San Diego, City of San Diego, City of Chula Vista, UCSD, San Diego Airport Authority and Naval Base San Diego (NAVFAC Southwest). WSP combines expertise in all facets of stormwater quality and water quality mitigation with local experience, engineering, and planning expertise in assisting transportation agencies and municipal clients to achieve Phase I and Phase II NPDES permit compliance.

Supportive Client References

Contact information for our client references is presented with our selected projects. We have identified three specific references, as requested. These references can be found in the Status of Current and Past Contracts Form found in the Form section and are also displayed in **Exhibit 2** our strongest indicator of support from our clients is the volume of repeat business we have achieved over the years. This includes a two year extension on our current MTS MS4 contract. As another proof of supportive client references, we offer the following testimonials from the County of San Diego for our work under their Treatment BMP inspection and QSD/QSP services under our San Bernardino County Transportation Authority (SBCTA) contract. Please note, the work under the San Diego County contract is the same type of services requested under PWG367.0-23.



"The team I worked with for TO32 (Brenda Stevens, Omar Arredondo, and Tess Holmes) have been invaluable. I was struggling with the next steps for how to reach out and engage customers who were not responding to our program. With this team's help, as well as their strategy, enthusiasm, and passion for the work they do, we were able to reach 14% more customers than the previous year. This milestone is amazing as we had never reached this goal in this early of the process. I strongly believe that it was due to this team's hard work and dedication to their craft that we were able to get there, and I cannot say enough about the support and help we have received from them over the years."

Annica Ly, San Diego County, Project Manager

"... Veronica did an excellent job at keeping me informed of required reporting and potential issues with Risk Level changes on the project and did an excellent job staying on top of the permit reporting requirements and managing the Contract Task Order budget."

Victor Lopez , Director Of Transit And Rail Programs, SBCTA



YEARS OF RELATED EXPERIENCE IN EACH SERVICE AREA					
MTS REQUESTED SERVICES	YEARS OF EXPERIENCE				
Program Management: Monthly Meetings, Invoice/Progress Report and Project Team Coordination and Management	20				
Annual Report	15				
Stormwater Pollution Prevention Plans (SWPPP)/Water Quality Technical Report (WQTR) Review	15				
Treatment BMP Inspections and Maintenance	23				
Training and Development	23				
Track MS4 Permit Requirements	6				
Annual Guidance Updates	23				
Total Maximum Daily Loads (TMDL) Compliance Implementation: • geographic information system (GIS) • IDDE	6 15 6				
Public Education and Outreach Programs	15				
Construction General Permit:	20				
Erosion and Sediment Control Plans	30				
Facility Assessments	23				
Post-Construction Stormwater Management Programs	23				
Trash Compliance Implementation	23				
• Fact Sheets	10				
As-Needed Repair Services	8				

Exhibit 1 Years Of Related Experience In Each Service Area





MS4 Support And As-Needed BMP Repair and Consulting Services

SAN DIEGO STORMWATER SOLUTIONS

FIRM PROFILE

SAN DIEGO STORMWATER

OLUTIONS

Contact Name: Gregg Brenner

Address: 130 Smilax Road

San Marcos, CA 92069

Phone Number: 858-397-1001

Email: gregg@sdstormwater.com

Project Function: Treatment BMP Maintenance

Our teaming partner for this solicitation, San Diego Stormwater Solutions (SDSS), has been carefully selected for their extensive experience performing maintenance on stormwater Treatment BMPs for MTS. They are a small company and a local vendor, in San Marcos, California. Their expertise ranges from inspection, installation, removal and replacement, general maintenance, and reporting. In addition, they have experience working within "Live" traveled roadways and light rail ROW. SDSS has experience performing the requested scope of services at the MTS Trolley,



IAD, and KMD facilities since July of 2021, and the transit locations since September of 2021. They specialize in Treatment BMP maintenance on devices such as bioretention and detention basins, stormwater vaulted units and installation and maintenance of filtration inserts for modular wetland systems. SDSS can provide light traffic control, confined space entry and has the necessary equipment for the job which includes mini-vacs and full vac trucks. SDSS will be

SDSS will be in charge of Treatment BMP maintenance given their experience maintaining Treatment BMPs at the MTS BRT facilities, SDSS brings MTS assurance that maintenance needs will be addressed based on regular maintenance triggers as well as when an immediate corrective action is required. WSP will schedule and provide oversight of SDSS's Treatment

performing maintenance on MTS

Treatment BMPs.

BMP maintenance.







Att.A, Al 12, 09/14/23

Corporation

FOUNDED IN 2015



YEARS IN SAN DIEGO



NUMBER OF U.S. EMPLOYEES



U.S. OFFICES



NUMBER OF VACTOR TRUCKS



NUMBER OF HYDRO-JETTING **DEVICES**



NUMBER OF FLEET VEHICLES/ **TRUCKS**



YARD AREA FOR STAGING DEBRIS PRIOR TO DISPOSAL.



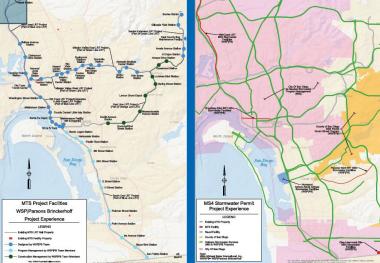
10

Firm Experience Exhibit 2 provides a snapshot of the projects that we selected to feature our related experience to the services requested. Our three selected references are noted below and in the MTS Status in the Forms section provided after Appendix V.

WSP PROJECTS THAT MEET MTS CRITERIA			
WSP PROJECT	TECHNICAL WORK OF A SIMILAR NATURE	PUBLIC AGENCY EXPERIENCE	REFERENCES
San Diego Metropolitan Transit System, MS4 Phase II Permit Program	✓		Karen Landers - Reference listed in the Status of Current and Past Contracts Form
County of San Diego, Watershed Protection Program Structural BMP Inspections	*	~	Christopher Lawrance - Reference listed in the Status of Current and Past Contracts Form
California High Speed Rail Authority (CHSRA), California High Speed Rail (CHSR) GIS	✓	V	Ť
San Diego Association of Governments (SANDAG), Mid-Coast Corridor Transit Project	✓	✓	
City of San Diego Transportation and Stormwater Department, Total Maximum Daily Loads (TMDL)		·	Andre Sonksen - Reference listed in the Status of Current and Past Contracts Form
SANDAG, Border to Bayshore Stormwater Management	1	√	
Government of Guam Department of Public Works (DPW), Guam Island-wide Program Management Services	_	✓	
City of San Juan Capistrano, San Juan Capistrano Riding Park BMP Implementation		✓	

Exhibit 2 WSP Projects that Meet MTS Criteria





MS4 Phase II Permit Program Development

San Diego Metropolitan Transit System | San Diego, CA

WSP has worked in various capacities on a significant portion of the MTS transit network, as shown on the map above (left side). This experience affords us a unique familiarity with the properties and facilities we will be concerned with as part of this project. WSP has assisted numerous local clients with MS4 permit compliance, as shown in the map above (right side). This experience provided us with substantial insight into the requirements of the small MS4 Phase II Permit and the most effective means by which to assist MTS with continuing their stormwater management program.

Over the last six years, WSP provided program management services for the development and implementation of the MTS MS4 Phase II Permit. This effort included the development of documents and compliance programs required for enrollment as a Non-Traditional Small MS4 Discharger in accordance with the California State Water Resources Control Board Order No. 2013-0001-DWQ. The project lies throughout the

County of San Diego, with the MTS jurisdiction traversing and sometimes connecting to the drainage systems of other MS4 permittees including the Cities of La Mesa, San Diego, Chula Vista, National City, Santee, El Cajon, Lemon Grove, and Poway, the Port of San Diego, Caltrans, UCSD and the County of San Diego. Agency coordination for the various stormwater management project elements included coordination with these MS4 Permittees and with San Diego RWQCB.

This six-year effort provided MTS with an implementation plan, jurisdictional map encompassing all facilities within MTS jurisdiction including: 114 miles of rail, 53 stations, and eight maintenance facilities, a stormwater system inventory, treatment BMP and facility inspections, design and implementation of the MTS Public Outreach and Education program, county wide mapping of their entire drainage system and adjacent agency drainage systems on geographic information system (GIS), and TMDL compliance. Guidelines for Construction and Post-Construction Stormwater Management BMP Design, Inspection and Operation and Maintenance (O&M), Illicit Discharge Detection Monitoring and a PEAIP over the 6-year implementation period were also prepared. All program elements were documented in a Stormwater Management Plan prepared for MTS.

Details

Firm: WSP

Technical Staff:

- Rick Bottcher
- Veronica Seyde
- Christian Herencia
- Jessica Li
- Chris Koury
- Hessam Tavakoldavani
- Debby Reece

Client Contact Information:

Karen Landers

1255 Imperial Avenue, Suite 1000 San Diego, CA 92101

karen.landers@sdmts.com

Telephone: 619-557-4512

Contracting Agency:

Metropolitan Transit System

Service Provided: MS4
Phase II Municipal Permit
documents and development
of comprehensive compliance
programs as required under
the small MS4 permit as
outlined in the General Order.

Contract Period:

July 2016 - Ongoing





Inspection of a Bioretention Basin with Hydromodification Flow Control Orifice

Watershed Protection Program Structural BMP Inspections

County of San Diego | San Diego County, CA

BMP Program Support, to confirm inventoried Treatment BMPs are maintained and operational prior to the wet season annually. WSP conducts annual onsite inspections of projects with high priority BMPs (619 BMPs on 113 projects). Inspections confirm the BMP was installed per specifications on plans and are being maintained in a manner to keep the BMP operational and providing water quality treatment benefits. Inspection findings and recommended maintenance



Inspection of a Hydrodynamic Separator Unit

activities per BMP type are recorded in inspection reports issued to responsible parties. When necessary, follow-up inspections are conducted to ensure that maintenance deficiencies are corrected. Clear communication, education, and outreach are built into the inspection process to help ensure compliance.

WSP also inspected and field verified publicly (County) maintained Treatment BMPs to verify that the GIS BMP inventory accurately reflects the Department of Public Works Transportation BMP inventory. Information recorded during inspections

resulted in a list of recommended maintenance activities to increase BMP performance in the public right-of-way (ROW). For any BMPs not inventoried, WSP's GIS experts created project and BMP delineations with data attribute tables to be uploaded into GIS to ensure BMPs will be inspected and maintained in the future.

The WSP team's strong local expertise and familiarity with project sites, the BMP design manual and permit requirements, as well as access to a network of BMP effectiveness experts, increases efficiency and consistency during inspections though internal training and defined processes.

Att.A, Al 12, 09/14/23

Details

Firm: WSP

Technical Staff:

- Brenda Stevens
- Omar Arredondo
- Jenna Mencarelli
- Tess Holmes
- Dylan Cawthorne
- Luis de la Torre

Client Contact Information:

Christopher Lawrance

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christopher.lawrance@ sdcounty.ca.gov

619-433-7225

Contracting Agency: County of San Diego

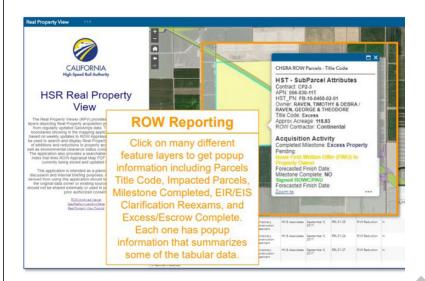
Service Provided: Service support efforts to comply with water quality regulations included in the Municipal Stormwater Permit Order No. R9-2013-0001 (and future updates), TMDLs, and other water quality-related as needed tasks.

Contract Period: August 2018 -August 2023



Site summary maps for each PDP orients users with an overview map with searchable BMP location(s)





California High Speed Rail GIS

California High-Speed Rail Authority | Sacramento,

WSP has been acting as the program managing contractor in partnership with the CHSRA since 2013. Once constructed, the 800 miles of high-speed rail (HSR) will connect California's major cities, contribute to economic development and opportunity, support the state's climate change policies and initiatives, and preserve agricultural and protected lands.

WSP has been providing Geo Spatial support for the project to help track changes to proposed rail designs, monitor environmental clearances, manage assets, and archive property acquisitions along the HSR corridor. In addition, many GIS applications have been developed to share real time spatial intelligence with the various teams working on the project.

This GIS application is widely used by the CHSRA and the various partnering contractors to track property acquisitions and potential constraints that may hinder project construction. Other milestones included development of an effective GIS training module for CHSRA

staff and their contractors to ensure ease of use for all GIS users. By merging multiple programs, WSP provided CHSRA with a single, coherent GIS that was then capable of efficiently managing all CHSRA activities.

Details

Firm: WSP

Technical Staff:

Matthew Porter

Client Contact Information:

Att.A, Al 12, 09/14/23

David Kwalwasser (Senior Land Surveyor)

770 L Street, Suite 800

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559-835-5884

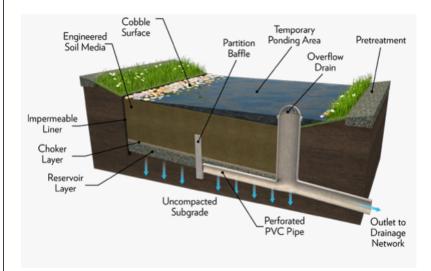
Contracting Agency: California High-Speed Rail Authority

Service Provided:

Development of ROW GIS Tracking Web Application, Development of Existing and Proposed Utility intersections, Development of Various Environmental Footprints, Development of Asset Management GIS using Ready for Construction and As-Built documentation.

Contract Period: January 2013 Ongoing





Mid-Coast Corridor Transit Project

SANDAG | San Diego, CA

WSP provided engineering, and environmental services in support of the Mid-Coast Corridor Transit Project, a 10.9 mile extension of the existing San Diego Trolley Blue Line from Downtown San Diego to University City. The project included eight bridge crossings; two viaducts; 6.87 miles of at-grade alignment in, or adjacent to, existing railroad ROW; and 4.05 miles of aerial structure in new ROW or within existing street ROW. Of the nine proposed stations, four are at-grade and five are aerial. The stormwater facilities for the project included over 43,000-ft of track underdrain for the at-grade track sections and over 9000-ft of storm drain with 80 storm drain structures intercepting and conveying flow to numerous treatment and flow control facilities designed in accordance with MS4 Permit requirements. These included 10 bioretention facilities, two infiltration devices, two biofiltration swales, two media filters, and two hydromodification vaults. The overall design included stormwater treatment and hydromodification control for nine track stations, four parking lots, three parking structures, eight traction power substations, the City of San Diego Rose Creek Maintenance Yard, and 17,000-ft of track viaduct.

Details

Firm: WSP

Technical Staff:

- Rick Bottcher
- Veronica Seyde
- Jessica Li
- Chris Koury
- Hessam Tavakoldavani

Client Contact Information:

Att.A, Al 12, 09/14/23

Sharon Humphreys

401 B Street, Suite 800, San Diego, CA 92101

Sharon. Humphreys@sandag.org

858-776-9402

Contracting Agency: SANDAG

Service Provided: Engineering, and environmental services in support of the Mid-Coast Corridor Transit Proiect this includes water quality management plan development and Treatment BMP design in compliance with applicable MS4 Permits

Contract Period: November 2017 - July 2021

The project lies within various jurisdictions in San Diego, each with their own MS4 permit dictating much of the overall drainage design. The design includes facilities that satisfy the water quality and hydromodification requirements set forth in the MS4 permits for UCSD, City of San Diego and Caltrans. The project incorporated a variety of approved Treatment BMPs using low impact design (LID) measures. General site BMPs and control measures included conserving natural areas, protecting slopes and channels, minimizing impervious areas, and utilizing LID and Treatment BMPs which include infiltration devices, biofiltration devices, bioretention devices, sidewalk planters, and detention devices. In addition, the facilities cross major streams including the San Diego River, Tecolote Creek and Rose Creek requiring design of appropriate scour, flood control, and embankment stabilization along with satisfying regulatory agency concerns. Agency coordination for the various stormwater management project elements included coordination with the San Diego RWQCB, California DFW, California Coastal Commission, U.S. DFW, Army Corps of Engineers, FEMA, City and County of San Diego, UCSD, Caltrans, SANDAG, BNSF, Amtrak, Friends of Rose Canyon, and Rose Canyon Watershed Alliance.



MTS -MS4 Support And As-Needed BMP Repair



Total Maximum Daily Loads

City of San Diego Transportation and Stormwater Department | San Diego, CA

WSP has provided planning, water quality monitoring, and reporting services for the City of San Diego (City) since 2011. Our effective and efficient approach to water quality monitoring results in maintaining City compliance requirements with the MS4 Permit, TMDLs, Areas of Special Biological Significance (ASBS), and Bacteria and Trash policies. Since our original contract in 2011, we successfully executed more than 150 task orders, including annual compliance monitoring for the Chollas Creek and Los Peñasquitos WMA TMDL compliance monitoring programs and many other special studies in support of emerging policies. In executing these projects with a continued focus on efficiency and streamlined project delivery, WSP has reduced monitoring budgets for three of the four long-term monitoring programs. We also provided



regulatory support services, ranging from comment letter development, technical analysis, and interpretation to support for legal lines of evidence and

participation in policy development at state and regional levels. Each task requires in-depth knowledge of the applicable science and policy. WSP has successfully managed more than 120 as-needed requests for the City. We provided the appropriate industry experts and technical support to advance the scientific basis of water quality regulations for toxicity, trash, and bacteria.

Adaptive, Highly Qualified Team: WSP provided the City with a full-service team to meet its contract, including engineers, scientists, project managers, field technicians, and regulatory and policy experts. WSP has successfully

helped the City navigate wide-ranging policies, making sure that the City's concerns are heard while achieving 100% permit compliance and remaining a regional leader in emerging studies and policy development. The WSP team has worked with the City and seven other jurisdictions since the 2013 Phase I MS4 Permit was adopted to develop and implement WQIP for the San Dieguito River, Los Peñasquitos, and Mission Bay Water Resources Mission Area (WMA). The WSP team identified the highest priority water quality conditions, set goals for meeting water quality objectives, and developed strategies to meet the goals. Furthermore, an adaptive management plan developed by qualified professionals encouraged continual improvement.



Firm: WSP

Technical Staff:

Kristina Hysler

Client Contact Information:

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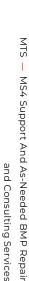
Contracting Agency: City of San Diego

Service Provided: WSP supports the County WPP by conducting a range of inspection services for ongoing compliance with MS4 Permit requirements and County Watershed Protection Ordinances (WPOs).

Contract Period: September 2019 – August 2023









Border to Bayshore Stormwater Management

SANDAG | San Diego, CA

The Border to Bayshore Bikeway project consists of approximately 6.47 miles of on-street bikeway that will provide safe biking connections within and between Imperial Beach, the San Ysidro community of San Diego, and the world's busiest land border crossing at the San Ysidro Port of Entry. Special intersection and traffic calming treatments included protected intersections, bend-out treatments, bike boxes, two-stage queue boxes, neighborhood traffic circles, pedestrian curb extensions (pop-outs), raised crosswalks, speed cushions, and landscaping and aesthetic improvements. Additional proposed improvements include minor roadway alterations, road restriping, signal modifications, median modifications, stormwater improvements, parking reconfiguration, utility relocation, installation of signage and stenciling, lighting and similar minor physical improvements.

The project involved close coordination with the City of San Diego Stormwater Department and preparation of a Stormwater Quality Management Plan to satisfy their MS4 permit requirements. To minimize water quality impacts, the Border to Bayshore Bikeway project was designed to direct stormwater runoff to



Bend out roadway treatment incorporating a green gutter

Details

Firm: WSP

Technical Staff:

- Veronica Seyde
- Rick Bottcher
- Debby Reece
- Jessica Li

Client Contact Information:

Madai Parra

401 B St Ste 800, San Diego, California, 92101

Madai.Parra@sandag.org

(619) 699-1924

Contracting Agency: SANDAG

Service Provided: Developed PS&E plans along with a Storm Water Quality Management Plan - Green Street Exemption and a Conceptual SWPPP

Contract Period: March 2019 -Ongoing

Green Gutter BMPs. According to the City of San Diego Stormwater Standards BMP Design Manual (developed as part of the City's MS4 permit program), Green Gutters are shallow, narrow strips of landscaping in a typical curb and gutter location with a lower elevation than the street gutter elevation to allow capture and treatment of poorquality stormwater from the sidewalk and street. Once low flows carrying pollutants are captured in the green gutter, high flows outlet or divert to a concrete gutter for ultimate discharge into the offsite storm drain facilities. incorporating a green gutter along the Border to Bayshore Bikeway.





Guam Island-Wide Program Management Services

Government of Guam Department of Public Works (DPW) | Tamuning, Guam

WSP continued their role as program manager and provided engineering and program management services for highway projects managed by the Guam (DPW). Our team provided support to the DPW and the Federal Highway Administration (FHWA) by developing an island-wide stormwater management program (SWMP) for the island of Guam as required by the U.S. Environmental Protection Agency (USEPA) for compliance with the Phase II MS4 Permit. Under Phase II of the NPDES MS4 Permit, Guam is required to develop and implement a SWMP to reduce the contamination of stormwater runoff and prohibit illicit discharges through the municipal separate storm sewer system (MS4) to waters of the United States. Commonly referred to as an "MS4 Permit" under the NPDES regulations. This work is necessary to comply with U.S. federal water quality regulation requirements and to remain eligible for future federal funds for roadway and related infrastructure projects. The scope of work included preparation of the individual NPDES permit

application for stormwater discharges from the small MS4 operated by DPW, development of the draft and final SWMP, and preliminary design related services as defined in 23 Code of Federal Regulations (CFR) § 172.3 for submittal to the USEPA and other jurisdictional agencies as required. Other scope of work items included:

- Evaluating storm drain systems and developing a systematic approach for prioritizing Treatment BMP implementation
- Developed and delivered water quality training programs to agency staff
- Inspected Treatment BMPs and provided maintenance recommendations
- Developed and updated the Guam DPW Stormwater Management Program
- Negotiated MS4 requirements with local, state and federal agencies

Details

Firm: WSP

Technical Staff:

- Veronica Seyde
- Rick Bottcher
- Chris Koury
- Hessam Tavakoldavani
- Debby Reece
- Jessica Li

Client Contact Information:

Vincent P. Arriola

542 N. Marine Corps Drive. Tamuning, Guam

Vince.arriola@dpw.guam.gov

671-649-3121

Contracting Agency:

Government of Guam Department of Public Works (DPW)

Service Provided: Engineering, program management, MS4 Phase II Municipal Permit documents, and development of comprehensive compliance programs as required under the Small MS4 Phase II permit

Contract Period: July 2007 -Ongoing







San Juan Creek Streambank Restoration at Riding Park

City of San Juan Capistrano | San Juan Capistrano,

Along the west bank of San Juan Creek, in the vicinity of Riding Park in San Juan Capistrano, CA, WSP prepared hydraulic and scour analyses, design of rip rap revetment and vegetation restoration to stabilize a portion of the embankment exhibiting erosive behavior. These analyses and the PS&E documents required for construction were recently completed by WSP. The project was conducted for the City of San Juan Capistrano. WSP was responsible for design, bid and construction support services including preparation of a SWPPP and associated Water Pollution Control Drawings. The streambank restoration project includes:

- Excavating the embankment and placing and compacting the soils to establish an engineered
- Installing riprap at the toe of the slope to protect against scour and erosion up to the water surface elevation of the 10-year flood event (10% recurrence interval)
- Revegetating with native plant and tree species along the streambank within and above the proposed riprap armor. The engineered slope above the riprap will be covered with a layer of jute mesh to provide protection of the slope while the vegetation is being established
- Preparing a Dewatering Plan and Clear Water Diversion Plan for construction

Details

Firm: WSP

Technical Staff:

- Rick Bottcher
- Chris Kourv

Client Contact Information:

Joe Parco, PE, CFM

30448 Rancho Viejo Road San Juan Capistrano, CA 92675

Jparco@sanjuancapistrano.org

949-443-6353

Contracting Agency: City of San Juan Capistrano

Service Provided: Design, bid, and construction support services, including PS&E documents, a SWPPP, erosion and sediment control plans and a Dewatering and Clear Water Diversion Plan.

Contract Period: March 2023 Ongoing

- Coordination with the San Diego RWQCB and California Department of Fish and Wildlife (DFW)
- Preparing construction documents under the guidelines of the City of San Juan Capistrano
- Preparing a SWPPP for contractor use along with preparing the Notice of Intent (NOI) and submitting to the State Board via the SMARTS database

Under existing conditions, the embankment was devoid of vegetation in certain locations and was comprised of very erosive soils. Under high water conditions, the restored streambank requires erosion control protection, in the form of riprap, while the newly planted vegetation is being established. When the erosive force of the flowing water acts upon the streambank, the erosion will be countered by the riprap armoring. Later, the trees and bushes will take hold along this modified section of the creek and provide additional erosion protection. In addition to streambank erosion, the flowing water will scour the streambed. Scour at the toe of the slope and along the edge of the stream could undercut and undermine the engineered slope prior to the vegetation taking hold. The proposed riprap armoring minimizes the potential for erosion. The project also includes a mitigation and monitoring program and tree survey for preservation of well-established trees along the bank of the stream. WSP prepared the environmental documentation, engineering design, construction staging plans and SWPPP for the overall project.





Innovative sampling solutions

On-Call Stormwater Program Management Services

San Diego International Airport | San Diego, CA

Our team's collective experience in providing inspections, BMP evaluations, and storm observations is unmatched. During storm events that meet mobilization criteria, WSP mobilized more than 30 badged staff for various storm events. Our staff were available on a 24/7 basis to conduct observations, BMP evaluations, and BMP installation and maintenance at multiple sites, including industrial, municipal, construction, transportation, maintenance, military, San Diego Bay and other receiving water, and area of special biological significance (ASBS)

ites.



WSP provided on-site construction oversight of the Austin Sand Filter retrofit to ensure that the treatment BMP was installed per plan.

We are experienced using U.S. EPA methods and field techniques for evaluations of stormwater BMPs, source identification studies, TMDL monitoring/calculations, and other water quality studies.

Most of our team has been providing similar services at the San Diego Airport and on other stormwater projects since 2004. Our inspectors have QISP certifications under the IGP and QSP certifications under the CGP, and are Certified Erosion, Sediment, and Storm Water Inspectors (CESSWIs) and Certified Inspectors of Sediment and Erosion Control

(CISECs). Under the MS4 Permit, WSP has continued to use our experience of the

following to identify and address water quality issues for the San Diego International Airport:

- SWMP BMP category development and updates
- Site-specific BMP recommendations and evaluations
- Site audits

Details

Firm: WSP

Technical Staff:

- Brenda Stevens
- Omar Arrendondo
- Tess Holmes
- Dylan Cawthrone
- Luis De La Torre

Client Contact Information:

Cara Nager

3225 North Harbor Drive San Diego, California 92101

cnager@san.org

619-400-2790

Contracting Agency: San Diego County Regional Airport Authority

Service Provided: Stormwater program implementation, compliance, management review, NPDES Construction and industrial inspections. Enforcement, report preparation, feasibility studies, alternative analyses, database development and management. Project design, implementation plan reviews, sustainability, stewardship program studies, plans, outreach, education, stormwater sampling and analysis.

Contract Period: 01/2022 – 01/2027



Balancing the design need for a large stormwater conveyance system to alleviate flooding with aesthetics.



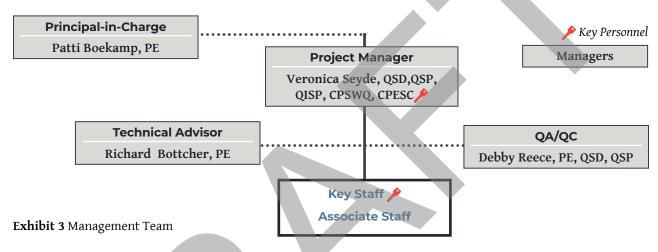




PROPOSED STAFFING, ORGANIZATION AND MANAGEMENT PLAN

ORGANIZATION

WSP personnel and our subconsultant SDSS will be available to perform the proposed services for the duration of the contract, we acknowledge that no person designated as "key" to the proposed service shall be removed or replaced without the prior written concurrence of MTS. Our proposed team will be organized as shown in Appendix III, with team resumes provided in Appendix II. As the Project Manager, Veronica Seyde will lead the effort on this contract. Veronica is a certified Project Manager with experience in stormwater quality and NPDES permit compliance for various public works and transportation agencies including MTS, Caltrans and San Bernardino County Transportation Agency. Veronica is very familiar with the MTS stormwater management program requirements as she has worked side by side with the MTS EHS specialist as well as MTS trolley, maintenance of way and bus teams for over 6 years.



MANAGEMENT PLAN

For this contract, Veronica has selected a management team to support both the administrative, technical and quality control aspects for this contract as presented in Exhibit 3. Patti Boekamp as the Principal in Charge brings 38 years of capital improvement project delivery experience within the San Diego region and managing the delivery of the City of San Diego's multi-million dollar CIP (including all infrastructure types). As the Principal in Charge, Patti will be available to Veronica for administrative support regarding contract terms and conditions. Rick Bottcher will serve as the Technical Advisor on this contract and has over 30 years experience as a stormwater manager and working with MTS on both the Mid-Coat Corridor Transit Project and the MTS Phase II Implementation Plan. All WSP team members are trained to adhere to quality assurance/quality control procedures and Debby Reece will be responsible for the Quality Control of all deliverables to MTS. Collectively, this management team will support Veronica to ensure that all facets of the MTS stormwater program are delivered on schedule, within budget and meet the needs and requirements specified in the small MS4 Permit.

PROPOSED STAFFING

Our Staffing Plan is presented in **Exhibit 4** Veronica selected key team members based upon their area of technical expertise, working with MTS on the Small MS4 permit contract, or on projects that have similar services to what MTS is requesting. Every key team member is considered an expert in their area of technical expertise and as presented in **Exhibit 4** and have the required availability to effectively deliver the work products referenced in PWG367.0-23.

All key personnel for this contract have a team of associates, with the required experience to deliver the final work product on schedule and within budget. This combination of key team members and experienced associates ensures that all work products and services are delivered to MTS in a cost-efficient manner. Our Management Team Veronica Seyde, Patti Boekamp, Rick Bottcher and Debby Reece are available to the key team members and associates when a higher level of expertise is required.



PROJECT MANAGEMENT PLAN (PMP)

Veronica will be the contract point of contact and will develop a project-specific PMP, including a project work plan and quality control (QC) plan, which will be submitted for MTS approval. It will be kept online for easy access by MTS. Access will be provided to our SharePoint or to Microsoft OneDrive for: deliverables, reference materials, invoices and progress reports. With this online system, our document control will be transparent, easily auditable and maintain MTS's confidentiality, per the Records Retention requirements referenced in PWG367.0-23 and discussed in our Work Plan. The PMP will be tailored to size and level of effort. WSP's management tools include:

- WSPs online information system, allows project key personnel to monitor progress on individual tasks and subtasks, individual staff charges to projects, as well as budget and milestone completions.
- Biweekly and monthly staff forecasting records to ensure adequate resources will be available when needed.
- Professional scheduling software such as Primavera and Microsoft Project. Primavera may be used for larger, time sensitive tasks.
- Monitoring of critical path items for large tasks.

FIRM PROCEDURES

Our process for attracting qualified personnel and office staff is provided in Appendix IV.

WSP STAFFING PLAN FOR MS4 SERVICES			ICIA		DAVANI		ZEI		æ	ERO		OQI	=		N.		
SERVICES	VERONICA SEYDE	BRENDA STEVENS	CHRISTIAN HERENCIA	MARK RILEY	HESSAM TAVAKOLDAVANI	CHRIS KOURY	GABRIELA GONZALEZ	KRISTINA HYSLER	MATTHEW PORTER	ANGELICA QUINTERO	JESSICA LI	OMAR ARRENDONDO	JENNA MENCARELLI	TESS HOLMES	DYLAN CAWTHORNE	LUIS DE LA TORRE	SDSS
		PRO	GRA	M M	ANAG	EME	NT										
Monthly Meetings	✓																
Invoice/Progress Report	✓																
Project Team Coordination and Management	Y																
		MS4	4 SUF	POR	T SE	RVIC	ES										
Annual Report							✓										
SWPPP/Water Quality Technical Report (WQTR) Review																	
Treatment BMP Inspection		✓			✓	✓						✓	✓	✓	✓	✓	
Treatment BMP Maintenance		✓															✓
Training and Development			✓							✓							
Track MS4 Permit Requirements							✓										
Annual Guidance Updates			✓		✓	✓				✓	✓						
TMDL Compliance Implementation								✓									
IDDE Inspection and Sampling		✓			✓							✓	✓	✓	✓	✓	
GIS				✓			✓		✓								
Public Education and Outreach Program							✓			✓							
Construction General Permit						✓	✓				✓						
Erosion and Sediment Control Plans						✓	✓				✓						
Facility Assessment		✓			✓	✓	✓				✓		✓	✓	✓	✓	
Post Construction Stormwater Management Program						✓	✓				✓						
Trash Compliance Implementation	✓										✓						
Fact Sheets						✓	✓				✓						
As-Needed Repair Services Fyhibit 4 WSP Staffing Plan for MTS MS4		✓															✓



MANAGEMENT TEAM



Extensive experience in delivering CIP, managing 3rd party coordination, and

EDUCATION: BS, Civil Engineering, San Diego State University **CREDENTIALS:** Traffic Engineer CA (1446)



Veronica Seyde, QSD,QSP, QISP, CPSWQ, CPESC 🍑

PROJECT MANAGER



Skilled and knowledgeable project manager specializing in stormwater quality and compliance for transportation projects, with expertise in BMP design, implementation, and training; brings current MTS MS4 contract experience to hit the ground running.

EDUCATION: BA, Biology, University of San Diego & MS, Environmental Studies, Cal State Fullerton

CREDENTIALS: SWPPP Developer and Practitioner (2011), Trainer of Record QSD and QSP (2011), Qualified Industrial Stormwater Practioner (2016)



Coastal adaptation, water resource resiliency, and regulatory compliance expert, California; historical MTS knowledge will streamline processes and reduces risk.

EDUCATION: ME, Engineering, Cornell University & BS, Engineering,

Cornell University

CREDENTIALS: Professional Engineer CA (47080)



Debby Reece, PE, QSD, QSP

QUALITY ASSURANCE



20%

Seasoned civil and stormwater engineer who has managed the design of transportation projects in California.

EDUCATION: BSCE, Water Resources, Lehigh University & MS, Hydrology/ Hydraulics, University of California-Berkeley CREDENTIALS: Professional Engineer CA (56148) Qualified SWPPP Developer/ Practitioner

KEY PERSONNEL



Brenda Stevens, QISP 🗪

TREATMENT BMP INSPECTION & MAINTENANCE

50%

Proficient and reliable stormwater manager with extensive experience in conducting inspections surveys, and investigations for various permit programs a San Diego facilities.

EDUCATION: BS Earth Sciences, Geology, University of California, San Diego CREDENTIALS: QISP (Industrial General Permit (IGP)Qualified Industrial SWPPP Practitioner (QISP 01059)OSHA 40-Hour Hazwoper CRAM Trained **Practitioner SWAMP Bioassessment**



Christian Herencia, PE, QSD, OSP, QISP 🕽

PUBLIC EDUCATION & OUTREACH / TRAINING & DEVELOPMENT



Over three decades of experience in designing, implementing, and monitoring affective stormwater solutions for public agencies; brings legacy knowledge with delivery of MTS MS4 training programs.

EDUCATION: BSCE, Civil Engineering, New Jersey Institute of Technology **CREDENTIALS:** Professional Engineer CA (54987) Qualified SWPPP Developer & Practitioner (QSD/QSP) (0038) Qualified Industrial Stormwater Practitioner (QISP), (54987)



Gregg Brenner -

TREATMENT BMP MAINTENANCE



in maintaining Treatments BMPs, such as bioretention and detention basins, stormwater vaulted units, and filtration inserts, for MTS Trolley, Transit

EDUCATION: BA in Political Science Sonoma State University



Matthew Porter, GISP •

GIS



Skilled GIS analyst with experience in web development, data analysis, system integration, and mapping for transportation projects and clients, including MTS.

EDUCATION: BA, Physical Geography, California State University, Sacramento CREDENTIALS: Certified Geographic Information Systems Professional: US



Kristina Hysler, PE 느

TMDL COMPLIANCE AND IMPLEMENTATION



Successfully managed and executed TMDL monitoring projects for the City of San Diego, Caltrans, and the County of San Diego.

EDUCATION: MS, Environmental and Water Resources Engineering, University of Texas & BS, Civil Engineering, University of Maryland **CREDENTIALS:** Professional Engineer CA (70204)



Chris Koury, PE,QSD •

SWPPP/WQTR REVIEWS



Brings experience in designing stormwater BMPs and related documents: SWMP, SWPPP, WPCPs and WQTRs, to allow MTS and UCSD achieve regulatory compliance.

EDUCATION: BS Environmental Engineering, University of

Colorado at Boulder

CREDENTIALS: Professional Engineer CA (94708)



and Consulting Services

and Consulting Services

ASSOCIATES



Hessam Tavakoldavani,

TREATMENT BMP INSPECTOR

80%

Experience in drainage network and Treatment BMP design projects in California; brings MTS legacy knowledge with SWPPP site map development and BMP inspections.

EDUCATION: MS, Civil And Environmental Engineering, University of Utah & BS, Civil Engineering, Iran University of Science & Technology **CREDENTIALS:** Professional Engineer CA (91842)



Gabriela Gonzales, APA, YPT

ANNUAL REPORT/TRACK MS4 PERMIT REQUIREMENTS AND ANNUAL REPORTS



Planner with experience in active transportation, and sustainable infrastructure, as well as proven ability for MTS SWMP and PEAIP updates and draft and final Annual Reports on SMARTS.

EDUCATION: MS of Urban and Regional Planning, University of California, Irvine **CREDENTIALS:** American Planning Association (APA) & Young Professionals in Transportation (YPT)



Jenna Mencarelli, QISP

TREATMENT BMP INSPECTOR



A QISP-trained stormwater inspector who can verify, and report on BMPs, and pollution prevention

EDUCATION: BS, Environmental Systems, University of California, San Diego **CREDENTIALS:** QISP No. (01396)



Luis De La Torre, QISP

TREATMENT BMP INSPECTOR



Offers MTS proven water quality monitoring, flow modeling, and stormwater BMP inspections for various municipalities and compliance programs.

EDUCATION: MS, Watershed Science, San Diego State University & BS, Environmental Science (Watershed Science), San Diego State University **CREDENTIALS:** QISP No. (00946)



Jessica Li, PE

CONSTRUCTION GENERAL PERMIT



Supported design and construction of Mid-Coast Corridor, San Diego International Airport, Del Mar Coastal Connections, and UCSD Voigt/ Lyman Improvements.

EDUCATION: MS, Civil Engineering, San Diego State University California State University, BA, Applied Mathematics, University of California-San Diego

CREDENTIALS: Professional Engineer CA (83402)



Omar Arredondo, QISP

TREATMENT BMP INSPECTOR



A QISP-certified stormwater professional with experience in inspecting BMPs, facilities, and outfalls for San Diego County.

EDUCATION: BS, Environmental Chemistry, University of California San Diego **CREDENTIALS:** QISP No. 01323



Angelica Quintero

TRAINING & DEVELOPMENT/ PUBLIC EDUCATION AND OUTREACH PROGRAM



Experience delivering MTS MS4 IDDE and Good Housekeeping training to MTS MOW staff.

EDUCATION: BS, Civil Engineering, Rutgers University-The State University of New Jersey



Mark Riley

GIS



Extensive knowledge with GIS and data management services for

EDUCATION: AS, Geographic Information Systems (GIS), Mt. San Jacinto College



Dylan Cawthorne, PE

TREATMENT BMP INSPECTOR



Developed and maintained BMP inventories, and technical documents for MS4 Permit compliance.

EDUCATION: MS, Civil and Environmental Engineering, University of California, Davis & BS, Civil and Environmental Engineering, North Carolina State University **CREDENTIALS:** Professional Engineer CA (94919)



Tess Holmes, QISP

TREATMENT BMP INSPECTOR



A stormwater expert with Treatment BMP inspection ability.

EDUCATION: Masters of Public Health, Purdue

CREDENTIALS: QISP No. (01380)







Work Plan

Since 2016 WSP has been working with MTS to implement their stormwater management program. The existing MTS stormwater management program follows Order No. 2013-0001-DWQ. Under PWG367.0-23, the major labor effort will be associated with Treatment BMP inspection and maintenance. The remaining level of effort will be to continue to support MTS with the other elements of their stormwater management program on an as-needed basis, as we have been doing for the last four years. Therefore, the level of effort estimated in our Cost Proposal and our Work Plan reflect a strategy to deliver the services described under PWG367.0-23. WSP also understands that the Small MS4 Permit will be reissued, most likely in 2024. Once reissued, we anticipate that there will be a need for a more robust level of effort, especially for TMDLs, Stormwater Asset Management and the PEAIP. Once the Small MS4 Permit is reissued, we will continue to utilize the same work delegation procedures referenced below to provide stormwater management services to MTS in a cost-effective manner. Our Work Delegation Procedures will serve as a road map for managing the Scope of Services per Section 5.4 of PWG367.0-23.

MS4 SUPPORT SERVICES WORK DELEGATION PROCEDURE

Our plan to deliver the services described under PWG367.0-23 is simple. It begins with a key team member supported by associates. Every key team member selected for this RFP is considered a technical expert within their field of discipline. The associates are supported by Key team members that possess the necessary skills, knowledge and experience to deliver the services under the guidance, support and management of the management team. We have developed work delegation procedures for Treatment BMP Inspection and Maintenance and for providing MS4 Support Services on an as-needed basis. This work delegation plan ensures that the required services are delivered to MTS in a cost-efficient manner. Our work delegation process is as follows:



TREATMENT BMP INSPECTION & MAINTENANCE WORK DELEGATION PROCEDURE

TREATMENT BMP MAINTENANCE RESPONSE METHODOLOGY

Brenda Stevens, our key team member managing the Treatment BMP Inspection and Maintenance services, will coordinate with SDSS according to the following process:

- Inspection results indicate maintenance is required or a special request is submitted by MTS.
- Internal team discussion to determine need, services and assignments.
- If services requested are considered an "Emergency", WSP will contact SDSS and request them to deploy for services (within 24-hours). Upon their acknowledgment the assignment will be issued.
- If services requested are considered "Non-Emergency, but priority", WSP will contact SDSS and request that services are scheduled within 72-hours. Upon their acknowledgment the assignment will be issued.
- If services requested are considered "Non-Emergency", WSP will contact SDSS and request that they schedule the service within one (1) week. Upon their acknowledgment the assignment will be issued.

MOBILIZATION, DEPLOYMENT AND DE-MOBILIZATION

SDSS is well versed in performing work in "LIVE" traffic situations and is permitted for a confined space entry. Therefore, before any work begins, the following process will take place:

- Notification to EHS Specialist with estimated labor effort and cost to complete task
- Notification to facility (Regional Maintenance Crew Chief)
- Determine if light or heavy traffic control is required and secure permits as needed
- Schedule time and date of deployment
- Secure authorization in advance from EHS Specialist
- Mobilize and deploy forces to repair or replace BMP
- Conduct clean-up prior to de-mobilization



FOLLOW-UP

WSP will verify maintenance and document findings in the MTS MS4 Permit Requirement Tracking spreadsheet and/or GIS.

RECORDS RETENTION

The WSP team is well versed in utilizing a variety of platforms to store and maintain data. For this contract, we recommend using MS SharePoint which we currently utilize as part of our company standard operating programs. In daily operations WSP uses MS SharePoint for file storage, sharing and collaborative document development on projects. Under PWG367.0-23, WSP is prepared to develop a SharePoint site for MTS records retention that ensures their confidentiality. Additionally, our team has in-depth of experience with other available platforms and is prepared to work with MTS to identify other appropriate tools and programs to foster collaboration whether it be for internal coordination, stakeholder workshops or public engagement activities.

CULTURE OF QUALITY

WSP is among the first and only transportation engineering firms to adhere to ISO-9001 Quality Standards—requiring regular stringent document auditing- and maintain our certification company-wide.

PROGRAM MANAGEMENT

MONTHLY MEETINGS

The success of this project is highly dependent on communication. As Project Manager (PM), Veronica Seyde, will be the primary point of contact for MTS. Veronica has already served as a PM for MTS and has established a great relationship with MTS's PM and MTS's legal counsel.

She has assembled a tight-knit team of experts who bring the regulatory and technical expertise, innovation and adaptability, and high standards of quality to the project. As directed by MTS, WSP will schedule and attend monthly progress meetings with MTS staff and consultant staff, as appropriate, to review Small MS4 permit Permit compliance tracking, status and implementation progress. WSP will prepare a draft meeting agenda which will be submitted to MTS for review and approval. Upon approval from MTS the final agenda will be distributed to attendees before the meeting. Meeting minutes will be recorded by WSP and provided to MTS within three business days for review and approval prior to being distributed to all attendees.



INVOICE/PROGRESS REPORT

Veronica understands the importance of keeping this project within budget. She will review all tasks and corresponding charge rates and obtain approval with the EHS Specialist, Veronica will regularly monitor the project schedule and expenditures versus the individual task budgets. She will review individual tasks with the EHS Specialist and identify resources to delegate tasks to appropriate staff, and monitor work progress, rates and charges. Techniques to keep projects on schedule include regular project and task meetings; weekly progress vs. budget reviews; meetings with core team members and the subconsultant; and constant attention to completing all tasks contributing to project milestone deliverables. Internal budget tracking systems will facilitate early warnings to prevent budget overruns and will be a sustained part of our project management. One of WSP's unique tools to monitor expenditures and progress is the Project Management Information System (PMIS), our in-house proprietary web-based financial software which collects data from multiple systems, provides tools to monitor expenditures and progress, and presents reports in easy-to-read dashboard formats. If any issues are identified, Veronica will review them and if needed escalate it to other management staff. Adjustments will be made accordingly to keep the project on-budget. WSP will prepare and submit progress reports to MTS with the monthly invoice. The Progress Report shall include a list of activities that are being billed as part of the invoice.

PROJECT TEAM COORDINATION AND MANAGEMENT

Our approach to the management and coordination of the services requested under PWG367.0-23 recognizes that MTS is engaged with the day-to-day workload of running a busy public transportation agency and that



28

implementing a stormwater management program has the potential to add further workload. We designed a coordination and management approach to provide MTS with both complete control over tasks assigned for this opportunity while avoiding unnecessary effort on its part. In our experience this is best achieved through a two-tier project management team and communication protocol: periodic MTS briefings and more frequent internal WSP team meetings:

1. MTS briefings would be short, 10-20 minutes maximum to inform MTS only of items they wish to be kept apprised. These could include:

- Project
 Implementation
 Plan

 Ouality Control Plan

 Documents lines of communications among WSP team, MTS staff, and other involved stakeholders.

 Pisk Management
 Plan

 Documents lines of communications among WSP team, MTS staff, and other involved stakeholders.

 Project Safety Plan

 Documents project-specific safety requirements and hazards with the goal of Zero Harm.

 WSP Information
 System

 Web-based document repository for work order deliverables and working files; provides file sharing and record retention capabilities.
- Decisions/approvals needed, upcoming decisions, any upcoming potentially controversial items, items that
 could negatively affect users or citizens, or be perceived as such, and any other potentially major project
 or contract issues (e.g., schedule deviations). The main point of these meetings is to avoid surprises and
 provide need-to-know information only.
- Project management meetings with key and associate WSP team members.
- 2. Project management meetings would be more comprehensive and cover routine project progress updates on all ongoing work, status of subconsultant activities, upcoming tasks, information requests, etc.

In addition to coordination with MTS, internal team coordination meetings would occur at least weekly and serve to keep all team members abreast of Phase II Permit deadlines. WSP will prepare and submit quarterly progress reports to MTS that provide an update regarding the Phase II MS4 tasks related to Treatment BMP inspection and maintenance, as well as updates related to the remaining Small MS4 Permit Support Services described in Section 5.4.2 of RFP PWG367.0-23.

MS4 SUPPORT SERVICES

ANNUAL REPORT

Per the Phase II MS4 General Permit, MTS is required to use the SWRCB Stormwater Multiple Application and Report Tracking System (SMARTS) to submit a summary of the past year activities for each program element and certify compliance with all requirements of the Permit. WSP has supported MTS with management of their Phase II MS4

SMARTS account as their data submitter for the past six years. WSP will continue to be the data submitter and coordinate submittal and review of the draft Annual Report with the EHS Specialist, Legally Responsible Person, and the MTS outside legal counsel. WSP will incorporate draft comments from MTS and develop the final Annual Report, such that the Annual Report is certified in SMARTS and submitted to the SWRCB within fifteen (15) working days of the end of the reporting period of a given

ANNUAL REPORT

WSP has multiple SMARTS data submitters that are linked to the MTS account and can readily facilitate reporting requirements.

year. This effort includes the time to complete the draft Annual Report, incorporate comments from MTS, provide brief explanations or documentation required, prepare and submit the final Annual Report to the MTS approved signatory for certification on SMARTS.

Given our established relationship with MTS's outside legal counsel, MTS can be assured that WSP will deliver the draft and final versions of the Annual Report in a cost-efficient manner. Information provided in the Annual Report will reference how MTS continues to implement their stormwater management program to ensure compliance with the Phase II MS4 General Permit. The Executive Officer (EO) of the San Diego RWQCB may request a detailed written online Annual Report or in-person presentation of the Annual Report that addresses the activities described in Provision F. The detailed Annual Report must clearly refer to the Phase II Small MS4 Permit requirements and







describe in quantifiable terms, the status of activities undertaken to comply with each requirement. If requested by the EO, WSP is available to provide the detailed written report or in-person presentation.

PEAIP

Per section F.5.h.1 of the Small MS4 Phase II Permit, WSP worked with MTS and developed a PEAIP as a guidance document for its stormwater staff to assist them in conducting program effectiveness assessments (EAs). The PEAIP was modeled after the methodology described within the California Stormwater Quality Association (CASQA) document, A Strategic Approach to Planning for and Assessing the Effectiveness of Stormwater Programs (February 2015). The PEAIP outlined the approach that MTS utilized to adaptively manage its stormwater program to improve its effectiveness at reducing the identified high priority Proof of Concepts including sediment and trash, and thereby achieving the maximum extent practicable (MEP) standard and protecting water quality.

During Permit Year 2, MTS submitted the PEAIP as an attachment to the Annual Report. During Permit Year 3, Year 4, and Year 5, WSP worked with MTS to implement the PEAIP and then summarized the data obtained and provided an analysis of the data with the Annual Report. During Year 5, WSP worked with MTS to modify the PEAIP with a revision of the MTS BMP Fact Sheet No. FSC-4 Pressure Washing and updated the MTS Stormwater Training Program by developing and delivering a new module directed at Treatment BMP inspection and maintenance.

These program modifications were also summarized and uploaded onto SMARTS as part of the MTS 2022 Annual Report. Going forward, under PWG367.0-23, WSP will continue to work with MTS and update the PEAIP annually. The PEAIP update will identify program modifications based on the effectiveness assessment to improve BMPs and shift priorities to make more effective use of resources. All modifications will be incorporated into the existing MTS PEAIP document, and if required can be uploaded to SMARTS as an attachment to the Annual Report. The MTS EHS Specialist will be provided a copy of all documentation, i.e., Annual Report and PEAIP, that is uploaded to SMARTS.

SWPPP / WOTR REVIEW

During Permit Year 1, WSP determined changes needed in MTS's existing Construction Stormwater Runoff Program (Program). This included following up and refining the Program to track, file, inspect, make recommendations for enforcement and compile the SWPPP construction documents for ongoing construction projects. For this Program, WSP developed the MTS Construction Stormwater Standard Specifications and Special Provisions, MTS Standard Plans for BMP Details, and templates for SWPPPs and Water Pollution Control Program (WPCP) plans. Going forward, during Permit Year 2 through to Permit Year 6, WSP has provided QSDs, and WPCP and Water

Quality Technical Report (WQTR) reviews for projects such as the Park Boulevard Grade Crossing, Bayside Track and the El Cajon Transit Center. Under PWG367.0-23, WSP will continue to provide QSDs for WQTR and WPCP reviews as requested. Our comments will be summarized in a matrix and submitted to MTS. WSP assumes that our review will include one round to review comments from MTS and that final comment resolution will be achieved after one review coordination meeting with regulatory agencies and MTS staff.

SWPPP REVIEWS

✓ Our team includes QSDs and QSPs that understand the Construction Stormwater Permit and can therefore provide cost-efficient SWPPP reviews.

TREATMENT BMP INSPECTION AND MAINTENANCE

During the current contract, WSP has provided Treatment BMP inspection services for vegetated and structural site features such as Bioretention Basins, Water Quality Vaults, various water quality drain inserts and other newly constructed Treatment BMPs at light rail stations and platforms as referenced on Addendum No.1 of PWG367.0-23. Our team of qualified inspectors fully understand the function of the Treatment BMPs (infiltration, separation of solids, temporary storage) and are versed in maintenance schedules (that may vary due to site conditions) so that recommendations for maintenance can be provided on a timely basis for optimal operation of the Treatment BMP.



MTS -MS4 Support And As-Needed BMP Repair

During 2022-2023, our inspectors tracked Treatment BMP function using MTS approved Treatment BMP Inspections forms that document exterior and interior site conditions, identify potential maintenance issues, and provide maintenance recommendations with an overall rating using the MTS Key. In addition, our team provided photographic documentation that correlated maintenance requirements with rain events to gauge if the maintenance/site clean-up frequency needs to be modified.

Under PWG367.0-23, WSP will inspect every Treatment BMP at trolley and transit stations biannually – pre- and post-rainy season. Treatment BMP inspection forms will be submitted as a PDF to the MTS EHS Specialist within five (5) days of the inspection. Prior to submittal, all forms will undergo a thorough QA/QC to confirm that the final site rating is consistent with the photographic documentation and corresponds with the rating system designed by MTS. As directed by MTS, WSP will schedule and provide oversight of Treatment BMP maintenance as referenced below. Further maintenance which may include replacement and/or minor repairs is detailed on the following pages.

WEATHER RELATED INSPECTION

MTS is responsible for ensuring that Treatment BMPs installed at their light rail and bus operation facilities are properly maintained such that they function as designed. To verify that the permanent treatment BMPs function as designed, in addition to the biannual inspections which includes pre- and post-rainy season inspections, it is imperative that weather related inspections are also performed. Our level of effort includes a weather-related inspection after 0.5-inch storm

INSPECTION AND MAINTENANCE

No learning curve required given our MTS inspection and maintenance experience as well as our San Diego County experience.

events. Weather related inspections are recommended to ensure the Treatment BMP is operating correctly during heavy storm events and provides the water quality treatment for which it was designed. Our inspection will focus on typical maintenance triggers such as ponding, offsite flooding, erosion, and slope failure that need to be verified after heavy storm events.

WSP will complete a MTS inspection form for every Treatment BMP. WSP will submit the form with photographic documentation as a PDF to the MTS Project Manager within five (5) days after the inspection. Prior to submittal, all forms will undergo a thorough QA/QC to confirm that the final site rating is consistent with the photographic documentation and corresponds with the rating system designed by MTS. As referenced below, WSP will schedule and provide oversight of Treatment BMP maintenance upon approval from MTS. These as-needed repairs may include replacement, renovation, and/or reoccurring construction are detailed on the following pages.

TREATMENT BMP MAINTENANCE

WSP understands that Treatment BMP maintenance requires more resources that go beyond routine maintenance activities at light rail stations, platforms and BRT stations. WSP is also aware that MTS may not have sufficient resources to provide immediate maintenance needs beyond their scheduled routine maintenance operations. WSP also understands that MTS may require maintenance services to be provided at a regular frequency as well as in response to an immediate need in the event of a slope failure or flooding after an unprecedented storm event or damage due to vandalism. Therefore, as a response to meet these needs, WSP has expanded our inspection and maintenance team with a

TREATMENT BMP LEVEL OF EFFORT

Our costs for Treatment BMP inspection and maintenance is based on information provided as MTS Addendum No. 1, page 6: MTS BMP Locations and Inspection Dates. We acknowledge, as noted by MTS, that these locations and BMPs are subject to change during the term of the agreement. As such, WSP anticipates that there could be a modification to the Treatment BMP data and we are prepared to adjust our level of effort and associated costs.

qualified and experienced sub-contractor SDSS. SDSS has 8 years of experience performing the requested scope of services and has been providing MTS with Treatment BMPs maintenance at their BRT facilities since 2021. SDSS will bring MTS assurance that maintenance needs will be addressed based on regular maintenance triggers as well as when an immediate corrective action is required.

WSP will schedule and provide oversight of Treatment BMP maintenance. Under this agreement, we have developed a strategy for performing this work that protects MTS' assets. As indicated in the MTS Operations & Maintenance Activity Guidance Manual, all Treatment BMPs are required to be inspected by a qualified individual. Furthermore, Treatment BMPs must be properly maintained to ensure that they operate correctly and provide the water quality treatment for which they were designed.

Our goal for this contract is to protect the investment MTS has made with the design and construction of Treatment BMPs located along their light rail corridor and at their BRT stations. To achieve that goal, we have assembled a qualified and experienced inspection team. Our inspectors will identify maintenance requirements and then schedule the maintenance activity with our subcontractor SDSS. After the maintenance is performed, our inspectors



will verify that the work performed ensures that the Treatment BMP operates correctly and provides the water quality treatment for which it was designed. Again, performing inspection and maintenance by two separate parties eliminates bias, protects MTS' investment and ensures that MTS can avoid more costly rehabilitative maintenance that results when facilities are not adequately maintained.

TRAINING AND DEVELOPMENT

Beginning in Permit Year 3, WSP developed and implemented the illicit discharge detection and elimination (IDDE) training program. The training program was presented to MTS staff and site operators (e.g., Maintenance of Way and contractors) that may come in contact or observe an illicit discharge or illegal connection. The training program included: Small MS4 Permit overview; MTS Field Program and reporting procedures and storm drain maintenance. To supplement the training program, WSP developed an Illicit Discharge Detection and Elimination (IDDE) Plan (Plan) that described the standard operating procedures utilized by MTS to comply with the Phase II General Permit requirements. The Plan included detailed information on types of discharges, outfall inspections, IDDE indicators, source tracking, reporting and response. The Plan was appended with inspection forms and an IDDE Sampling and Analysis Plan. During Permit Year 4 through to Permit Year 6, WSP responded to the training needs

of MTS and answered questions regarding training of new staff, annual assessments, and follow-up training.

Likewise, in 2020, WSP developed and implemented a biennial training program for applicable MTS staff and site operators (Maintenance of Way and contractors) on pollution prevention/good housekeeping techniques. The Biennial Training Program included clear guidance on appropriate stormwater Best Management Practices (BMPs) at MTS facilities during typical

TRAINING AND DEVELOPMENT

 Our team includes CA-Trainers of Record that are certified in delivering stormwater training workshops.

operation and maintenance activities. As a supplement to this training, WSP developed the MTS Operations and Maintenance Activity Guidance Manual (O&M Manual). The purpose of the O&M Manual was to assist MTS personnel and their vendors in complying with the Phase II National Pollutant Discharge and Elimination System (NPDES) permit issued by the SWRCB and the San Diego RWQCB. The O&M Manual provided detailed operational procedures on applying a BMP to an O&M activity at a maintenance facility, MTS-owned property, offsite at a transit station or bus shelter, or within the right-of-way. The O&M Manual included a set of Maintenance Fact Sheets that were organized based on the following categories: Source Control Measures; Field Program Source Control Measures; and Storm Drain Maintenance Measures. An assessment was also developed as part of the Biennial Training Program such that the EHS Specialist at MTS could determine the need for refresher training or tail gate sessions.

Given our familiarity with the MTS IDDE program, the Biennial Training Program, and the worker assessments, WSP will continue to support MTS with their training program. This includes reviewing and updating annual training materials such as IDDE and Good Housekeeping slide decks to assist MTS with meeting their goal to reduce stormwater pollution to the maximum extent practicable. WSP will also deliver the training if requested by MTS. The MTS EHS Specialist will be provided with a final digital version – both original file format and PDF of all training materials, i.e., slide decks, handouts, and assessments, developed under PWG367.0-23.

TRACK MS4 PERMIT REQUIREMENTS

Under our current contract, WSP developed an implementation plan in Microsoft Excel format that comprehensively addressed all requirements of the Phase II Permit such that MTS could achieve the Permit objectives in the most methodical but efficient manner. Under PWG367.0-23, WSP will update the existing implementation plan to track the required training, inspection and permit reporting requirements on a monthly

TRACK MS4 PERMIT REQUIREMENTS

WSP Team members include CASQA members that serve on CASQA committees and are up to date on revisions to multiple SWRCB Stormwater NPDES permits.

basis. WSP will provide updates to the MTS EHS Specialist regularly to demonstrate MTS' compliance with the Small MS4 Permit requirements. The tracking tool will be updated annually. Utilization of this tracking tool will allow MTS to achieve successful completion of the various tasks set forth in the Small MS4 Permit based on the annual reporting time frame of July 1 through to June 30.

ANNUAL GUIDANCE UPDATES

As directed by MTS, WSP will assess changes needed in MTS's existing Small MS4 Permit guidance documents. This includes following up and refining the MTS MS4 program related to training, inspection, BMP maintenance, SWPPP updates at MTS Hot Spot facilities, post-construction as it relates to MTS facilities or modifications to the Small MS4 Permit. Guidance document updates will be submitted to MTS in draft format using tracked changes. Review comments from MTS will be incorporated into the Final version which will be submitted to MTS in PDF.



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TMDL COMPLIANCE IMPLEMENTATION

WSP understands that MTS is enrolled under the Small MS4 Permit, which was amended on December 19, 2017, to incorporate TMDL requirements applicable to Small MS4 Permit permittees. Section F.5.i of the Phase II MS4 Permit requires MTS to comply with all applicable, approved TMDLs that assign a WLA to MTS and which have been

identified in Attachment G of the Phase II MS4 Permit. In 2020 WSP developed the MTS TMDL Compliance Plan, Attachment G of the Phase II MS4 Permit did not identify MTS as an entity required to comply with any WLAs in any of the TMDLs in the San Diego RWQCB's jurisdiction. Thus, the Small MS4 Permit does not require MTS to comply with any TMDL. MTS, however, elected to develop a TMDL Compliance Plan based on the expectation that when the Small MS4 Permit is reissued, the reissued Small MS4 Permit will most likely identify MTS as a point source discharger who must implement measures consistent with the adopted TMDLs. Given our familiarity with the TMDL requirements listed in the Small MS4 Permit and our familiarity with the MTS TMDL Compliance Plan, WSP is prepared to support MTS with implementation of



any TMDL monitoring requirements applicable to areas within MTS's MS4 jurisdiction when the Phase II Permit is reissued. Under PWG367.0-23, these services include:

- Implement TMDL monitoring requirements;
- Coordinate sampling and analysis of TMDL pollutants of concern, including total suspended solids and bacteria;
- Update and maintain the MTS GIS database which includes infrastructure mapping and data management; and
- Conduct field inspections and sampling to investigate illicit discharges and submit reports to MTS.

WSP has unparalleled experience supporting the implementation of TMDLs. The WSP team is proud to bring together an adaptive, highly qualified, full-service team of experts to partner with MTS. The WSP team includes engineers, scientists, project managers, field technicians, and regulatory and policy experts. All have extensive TMDL experience. WSP's TMDL recognized technical capabilities include:

TMDL LEVEL OF EFFORT

Cost Proposal labor hours reflect coordinating with MTS to develop a TMDL strategy that will comply with the MS4 permit when it is re-issued.

- Implementation of TMDL monitoring requirements
- Sampling and analysis of TMDL pollutants of concern, including total suspended solids and bacteria
- GIS infrastructure mapping and data management
- Conducting field inspections and sampling to investigate illicit discharges
- Watershed Management Plans
- Wetlands design and construction
- Integration of stormwater infrastructure and recreational amenities
- Hydraulic/hydrologic and watershed/water quality modeling
- Ecosystem restoration

The WSP Team will optimize the use of public resources, promote sustainable solutions, and develop innovative and cost-effective strategies to meet MTS's TMDL compliance requirements.

GIS SERVICES

As part of the MTS MS4 Implementation Plan, WSP was responsible for leading geospatial centric tasks including GIS data review, validation, preparation, and development of municipal separate storm sewer systems (MS4) jurisdictional boundary maps, synthesis of drainage GIS feature class polylines, MTS property boundaries, light rail alignments, and facilities linked to Stormwater Factsheets showing existing and proposed Treatment BMPs. Tasks also included





MTS — MS4 Support And As-Nee

the conversion, manipulation, maintenance, geospatial data organization, geodatabase management, creation of spatial queries, and quality control of new and existing MTS spatial features and attribute tables; utilization of rectified orthophotography to aid in digitizing features; and performance of spatial joins, topology, advanced editing, geoprocessing calculations and georeferencing data.

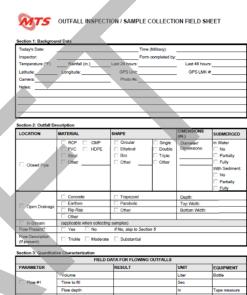
Recently, WSP has been providing GIS services remotely. This has been achieved with MTS granting WSP access to their GIS portal and ArcGIS accounts. It has proven to be cost effective for MTS to have WSP continue to perform GIS development and data management duties remotely. As directed by MTS, and as reflected in our cost proposal, under PWG367.0-23, WSP will provide monthly reviews of the GIS stormwater infrastructure data and provide weekly updates to the GIS to ensure that the GIS reflects MTS facilities, stormwater infrastructure and water quality features.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM

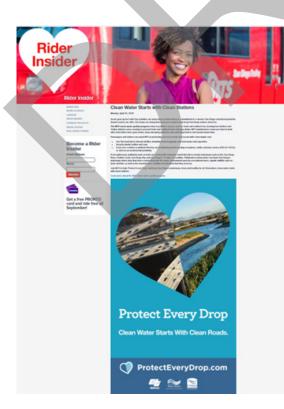
During Permit Year 2, WSP developed the Jurisdicitonal Map in GIS and designed the program to perform field sampling to detect illicit discharges and conduct monitoring for water quality indicators per the Small MS4 Permit. Given this experience, WSP is prepared to assist MTS and conduct investigations of all non-stormwater discharges suspected to be illicit. As directed, WSP will determine, document, and report the source of all non-stormwater discharges discovered through investigations.

PUBLIC EDUCATION AND OUTREACH PROGRAM

Beginning in Permit Year 2, WSP worked with MTS to develop and implement a comprehensive and cost-effective stormwater public education and outreach program. The MTS Public Outreach program was designed to help contribute to the improvement of stormwater quality and the preservation of San Diego's water resources while also encouraging changes in attitudes and behaviors. The program entailed educating the public on the importance of water quality and the impact of their activities on MTS' stormwater drainage system. Facets of the MTS public education program were



implemented in Year 2 with the remaining outreach advertised in Years 3-6 as described below.



With the assistance of WSP, MTS developed an outreach campaign that mirrored the Protect Every Drop campaign developed by the Caltrans. At no cost to MTS, Caltrans provided graphics and artwork that MTS reformatted to design their Protect Every Drop/Clean Water Starts With Clean Stations campaign. Beginning in Permit Year 3, this campaign was featured on digital displays, the Rider Insider newsletter and over seventy digital bus shelter kiosks resulting in over 500,000 impressions.

Annually, WSP coordinates with MTS and their marketing team to develop outreach materials and then summarize the success of their public outreach campaign. Specifically, WSP submits updates with the Annual Report by documenting number of impressions with each type of outreach material. Under PWG367.0-23, WSP will continue to coordinate with MTS on their Public Outreach effort to update and implement a comprehensive education and outreach program. This will include recommendations to disseminate education materials to target audiences and translating to multiple non-English languages, as requested. Under the Outreach campaign, as requested by MTS, WSP will promote reporting of illicit discharges and feature water efficient/ stormwater friendly landscaping information. Again, to deliver the campaign in a cost-effective manner, the WSP Team will optimize the use of

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public resources, such as no-fee stormwater quality educational materials that may be available from Caltrans or other Phase I permittees.

CONSTRUCTION GENERAL PERMIT

CONSTRUCTION SWPPP AND EROSION AND SEDIMENT CONTROL PLAN **UPDATES**

To comply with Section F.5.e. of the Phase II MS4 General Permit, in collaboration with MTS, WSP developed a program to prevent construction site discharges of pollutants and impacts on beneficial uses of receiving waters from construction activities that result in a land disturbance of greater than or equal to one acre. Under this task, WSP developed the MTS SWPPP template, Construction Stormwater Standard Specifications and Special Provisions, and Standard Plans for BMP Details which included erosion and sediment control plans. Under PWG367-0.23, WSP will offer MTS the same team of stormwater experts and QSDs that can assist in SWPPP and erosion and sediment control plan updates as well as review and provide comments on active construction projects to ensure compliance with the Small MS4 Permit and the MTS Stormwater Management Plan. Our team includes Qualified SWPPP Developers (some of which have been licensed by the State to train inspectors and engineers on the requirements for stormwater pollution prevention) and can thereby provide assurance that the SWPPP template will be designed to ensure stormwater quality and meet Construction General Permit requirements, both CGP 2009-0009-DWQ which has been administratively extended and CGP 2022-0057-DWQ which becomes effective in September 2023.

Under PWG367.0-23, our team will review and provide comments on construction projects to ensure compliance with the Small MS4 Permit. During these reviews, our team will focus on erosion and sediment control BMPs, project design features, avoidance, minimization protection and mitigation for aquatic resources and offer guidance in selecting specific construction BMPs to again ensure compliance with the terms and conditions for MTS Small MS4 Permits addressing water quality. Veronica Seyde serves as the California State Representative for Envirocert's Certified Professional in Storm Water Quality program, as a recognized water quality leader, and with over 30 years' experience, she has managed facility water resource issues, including sampling; water quality analysis; visual monitoring (inspection); and documentation and reporting for SWPPP compliance. Veronica is often sought out to identify specific BMPs, and other mitigation actions for stormwater runoff management strategies that address suspended sediments, erosion, sediment deposition, and the minimization of oil, grease and other chemical constituents.

STORMWATER MANAGEMENT PLAN (SWMP) UPDATES

In close coordination with the MTS EHS Specialist and designated MTS staff, WSP prepared the Stormwater Management Plan (SWMP) in June 2018. The SWMP was prepared to address stormwater management practices conducted by the MTS and their contractors to comply with the requirements of federal, state and local stormwater regulations, including the Small MS4 Permit which is administered for the State of California by the SWRCB and by the RWQCBs. The MTS Stormwater Management Plan (SWMP) addressed the requirements of the Small MS4 Permit regulations adopted by the SWRCB known as the "Small Municipal Separate Storm Sewer System (MS4) General Permit". The SWMP identified implementation actions to be developed and those that are already developed by MTS. It also describes future requirements of other program elements that will be developed, implemented, and enforced by MTS over the duration of the Small MS4 Permit. Since 2018, WSP has prepared annual updates to the MTS SWMP. The annual SWMP revisions were based on changes to MTS facilities, completed Small MS4 Permit requirements and/or amendments. Under PWG367.0-23, WSP will continue to provide SWMP updates that document progress of MS4 program elements requirements completed during the annual reporting time frame of July 1 through to June 30 of every year.

FACILITY ASSESSMENT

In 2020, WSP prepared a Memorandum that documented the results of an annual review and assessment of all MTS-owned facilities and property to determine their potential impact to surface waters, per Section F.5.f.3 and Section F.5.f.6 of the Small MS4 Permit. Per the Small MS4 Permit, the annual assessment included the identification



of pollutant hotspots and prioritization of storm drain facilities for cleanout. For this analysis all MTS-owned or operated facilities that have a potential to generate stormwater and non-stormwater pollutants were evaluated.

These MTS-owned facilities included: 1) BRT facilities; 2) storage yards; 3) transit stations; 4) traction power sub station sites; and 5) MTS-owned property within the San Diego River watershed. These facilities were evaluated using the criteria referenced in Section F.5.f.3 of the Small MS4 Permit. Our findings and recommendations were submitted to MTS and WSP provided as-needed support related to Hot Spot SWPPP development and follow up regulatory inspections.

As part of our as-needed services under PWG367.0-23 WSP will, as directed, implement the on-going MTS Facility Assessment Program, and inspect potential pollutant hot spots at non-IGP facilities. Throughout the Small MS4 Permit term, WSP has been supporting MTS with site inspection and reporting services on an as-needed basis. This has included visual site inspections along the right-of-way, Hot Spots, light rail stations, transit centers, heavy rail yards and equipment storage facilities. As ongoing support under PWG367.0-23 for the Small MS4 Permit Program, WSP will continue to provide facility assessments and reporting services of MTS leased properties to ensure pollution prevention methods that can be used by MTS staff, contractors, and other responsible parties are utilized within the MTS right-of-way to minimize pollutants in stormwater runoff to MTS storm drain systems to the maximum extent practicable (MEP); and prevent site discharges from MTS storm drain systems from causing or contributing to a violation of water quality standards.

Before a site visit, WSP will review existing record drawings available from MTS and evaluate how the features on the record drawings relate to drainage systems and BMPs. WSP will then conduct a field visit with available MTS staff to evaluate existing conditions, identify existing facilities including catch basins, Treatment BMPs and other onsite and offsite drainage features. WSP will then summarize our findings with photographic documentation and our recommendations from a stormwater and non-stormwater quality perspective. Our inspections will focus on potential pollutant discharges, pollutant sources, BMPs, and storm drain outfalls. Our findings will be summarized in an inspection report that includes photographic documentation along with recommendations to ensure conformance to the Small MS4 Permit provisions, Under PWG367.0-23, facility assessments will be conducted annually and inspection results will be summarized in a matrix that will be submitted to MTS.

POST CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

The WSP team brings a multitude of experience implementing post construction BMP strategies for numerous clients, including the development of BMP standards and guidelines for the State of Hawaii, treatment and flow control BMPs and associated hydraulic calculations for the Island of Guam, the Green Streets Guidelines for the County of San Diego, and over 15 Treatment BMP Corridor Studies for Caltrans District 7 as part of court ordered design documents for BMP sizing and placement along their District-wide (Los Angeles and Ventura County) freeway corridors. In 2020, our team prepared the MTS Post Construction Stormwater Management Manual (Manual) which provided a roadmap for implementing the MTS Post Construction Stormwater Management Program. WSP is very familiar with regulations that have changed since then such as the requirements for statewide trash control. Under PWG367.0-23, WSP will assist MTS with the ongoing implementation of their Post Construction Stormwater Management Program. This includes documentation and tracking of any pertinent information about a Regulated Project, treatment system, hydromodification control measure and responsible operators. Additionally, WSP will manage the program to ensure that all treatment systems and hydromodification controls are installed and maintained properly.

TRASH COMPLIANCE IMPLEMENTATION

In May 2023, the SWRCB released an informal has released an informal draft of selected sections of the revised Small MS4 Permit towards the end of May 2023. This included language for the 2023 Phase II Trash Provisions. Under the existing contract with MTS and based on a decision by MTS to comply with these provisions as a Non-Traditional

Track 1 Permittee, WSP developed a trash compliance BMP strategy and cost estimate for all storm drains within the jurisdiction of MTS that capture runoff from locations and land uses that generate substantial amounts of trash. Furthermore, in early May 2023, WSP provided an informal review and submitted comments on the draft Trash Provisions. This comment review cycle was coordinated with MTS external legal counsel and comments were subsequently submitted to SWRCB

TRASH PROVISIONS

WSP is very familiar with the Statewide Trash Provisions and has designed effective BMP strategies for MTS and other MS4 permittees

for their consideration. Given our familiarity with the draft language and our understanding of the MTS full capture program, WSP will continue to support MTS with implementation of the full capture program when the Phase II Permit is reissued. This includes providing support during the bid, design and build phases of this BMP program that has a 2030 compliance deadline.



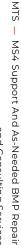
STORMWATER QUALITY FACT SHEET UPDATES

Documentation of Small MS4 permitted facilities are included in Stormwater Quality Fact Sheets which are appended to the SWMP. These fact sheets, developed by WSP, consist of an evaluation of pollutant sources, and provide a description of the practices and program elements to reduce pollutants in areas identified as being potential pollutant sources to the stormwater system. They also identify overall drainage systems that may exist at the facility site and locations of outfalls adjacent to the Small MS4 permitted drainages systems.

Given our familiarity with these fact sheets, WSP can continue to offer our team of drainage design experts and GIS specialists to provide updates to the fact sheets based on maintenance agreements, final as-built drawings and site conditions. The Stormwater Quality Fact Sheets have proven to be an effective tool that has supported Treatment BMP inspections as well as during the preliminary design phase of MTS capital improvement projects.

AS-NEEDED REPAIR SERVICES

During the results of our inspection and maintenance services, there may additional repairs that involve the replacement of media filters for water quality inserts and/or the replacement of damaged structural parts. Under PWG367.0-23, WSP will provide MTS with a detailed justification including a cost estimate for maintenance, replacement, upgrade, or additional features, such as a pre-treatment device, recommended based on our inspection and maintenance results. The justification narrative and cost estimate will be submitted to MTS for their review and approval, prior to commencing work.







July 28, 2023

Steve Augustyn Senior Procurement Specialist Metropolitan Transit System 1255 Imperial Avenue, Suite 1000 San Diego, CA 92101-7490

Subject: Request for Clarification: MS4 Support and As-Needed BMP Repair and Consulting Services Request for Proposals (RFP), MTS Doc No. PWG367.0-23

Dear Steve,

Our response to your request to clarify sections of our proposal is provided below.

- 1) Staffing levels to perform training, inspection, and GIS services: overall our work plan and allocation of staff to deliver any requested service is described on page 27 of 174 in our proposal, and the staffing process is illustrated in a graphic format on the same page.
 - a. Our team includes two California Trainers of Record that are certified in delivering stormwater training workshops. If specific training related to the current Construction General Permit or the 2022 Construction General Permit were requested, WSP would recommend that one of our Trainers of Record develop and deliver that type of training. For training other than construction stormwater, we would rely on team members that have already developed and delivered training programs to MTS under our current contract.
 - Our approach for Training and Development is described on page 32 of 174 in the proposal. Specifically, our plan to deliver training would begin with Christian Herencia, a senior level staff member that was identified as the training lead. Based on the type of training requested, Christian would use the mid-level staff identified in the proposal to develop and deliver the training based on their knowledge and experience. This includes Angelica Quintero, Chris Koury and Hessam Tavakoldavani. Christian would then develop a scope of work and budget and submit to Veronica Seyde, our project manager, for review and approval. After her review, the scope of work and budget would be submitted to MTS for their review and approval. We propose to have mid-level staff develop and deliver the training with oversight by Christian. Overall, this demonstrates that mid-level staff are responsible for 90 percent of the work and the remaining 10 percent of the labor is associated with time for Christian, our key team member.
 - b. Brenda Stevens is our key team member that will manage Treatment BMP inspections and oversee mid- to junior-level staff performing the fieldwork. She brings 14 years of experience in Treatment BMP inspections. Her inspection team is illustrated in our Organizational Chart on page 130 of 174 in Appendix III of our proposal. Brenda will be supported by six junior inspectors; her team

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provides 3 times more capacity than estimated to complete the required inspections. Having a broad base of qualified staff ensures we will be able to perform the work within the proposed staff categories.

Brenda leads an annual team training and calibration exercise to review critical design features per BMP type, typical maintenance indicators and recommended corrective actions to ensure high quality, consistent results amongst inspectors. Additionally, inspectors will collect photos of each BMP during the inspection, which will be reviewed by Brenda with the completed inspection forms to validate the accuracy of final site ratings prior to submitting to MTS. This process allows us to deliver these services in a cost-efficient manner by using mid-level staff to perform most of the work with a lower level of effort from our key team member to provide oversight and quality control. Brenda would also be available to her inspection team if they have any questions regarding Treatment BMP drainage structures, operational features, or maintenance triggers.

To allocate staff, key team members begin with proactive communication both internally and externally. During the development of a task order, Brenda will meet with the MTS project team to understand the project schedule and the drivers of the project deadlines. Brenda will then meet with qualified inspection staff to obtain their commitment to meeting the schedule and thus create the project team. Brenda will then work with staff to lay out a detailed internal schedule assigned geographically to optimize efficiency. This includes each individual task, the date and time by which it needs to be accomplished, and the staff member responsible for the work. Qualified staff volunteer for each task, reducing the headaches involved in top-down scheduling, but more importantly it greatly increases the commitment level of the staff. The increased commitment allows us to prepare schedules weeks ahead and complete them with very few changes. Ultimately this staffing allocation process ensures that projects are completed on-time and meet agreed schedules.

This proven team is experienced and has successfully performed over 4,800 BMP operation and maintenance inspections for the County of San Diego alone since 2013 with zero compliance issues.

- c. Matt Porter developed the MTS GIS database and recently has been updating the ArcGIS accounts remotely through the MTS GIS portal. This approach has proven to be cost-effective and reliable. Given Matt's familiarity and experience, any request for GIS services would be provided by Matt. Matt can also rely on a team of junior level staff to support him with data entry tasks and cross checking data. Junior level staff supporting Matt include Gabriela Gonzalez and an intern, Sophia Olmeda, who recently joined our San Diego office. If Matt becomes unavailable for some reason, such as a family emergency or other health-related issue, then Mark Riley would be available to provide GIS and data management services to MTS. Mark's resume is on page 128 of 174 in our proposal. Mark is a senior GIS analysis with over 10 years of experience and is based in our San Diego office. The hours allocated for Matt in our cost proposal would be re-allocated to Mark.
- 2) In our cost proposal the equation in question refers to the Ops Manager's fully burdened hourly rate (T9) multiplied by the total number of labor hours for Treatment BMP maintenance (T29). This equates to a total annual cost of \$78,400. Given that the Ops Manager is our Subconsultant, San Diego Stormwater Solutions, (SDSS), a 10 percent markup was applied. For Year 1, this equated to a total cost of \$86,240. The same equation was applied for Year 2, 3, 4, and 5. This markup covers administrative efforts, general oversight, risk, and a modest contribution to our margin.



Thank you for this opportunity to clarify sections within our proposal. If you have additional questions, please let us know. We look forward to hearing from you.

Kind regards,

Patti Boekamp

Senior Director, Local Business Line Leader

APPENDIX III ORGANIZATIONAL CHART



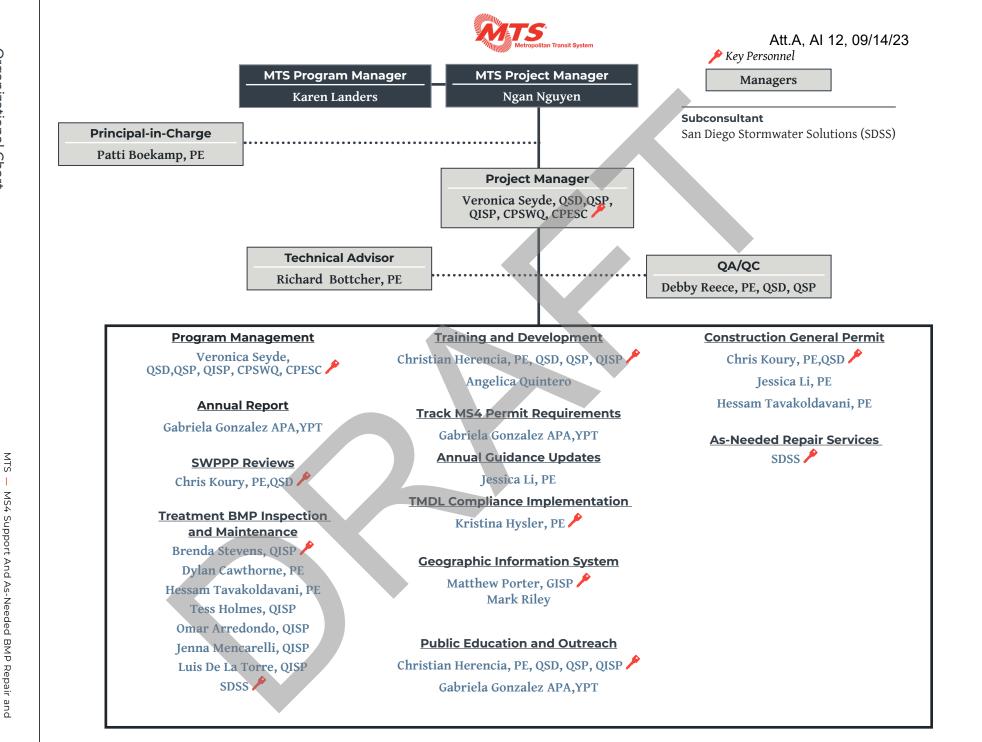




EXHIBIT B
CONTRACTOR'S COST/PRICING FORM



MTS Doc. No. **PWG367.0-23**

Work Order Title:

MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

Table 1 - Tasks Summary (Costs & Hours)

Item	Task	Task Description	Year 1 - Total Costs	Year 2 - Total Costs	Year 3 - Total Costs	Year 4 - Total Costs	Year 5 - Total Costs	
1	5.4.1	PROGRAM MANAGEMENT	\$ 6,570.00	\$ 6,767.22	\$ 6,970.24	\$ 7,179.34	\$ 7,394.72	
2	5.4.2	MS4 SUPPORT SERVICES	\$ 190,338.67	\$ 197,439.50	\$ 202,806.66	\$ 210,606.74	\$ 218,197.60	
3	Assumption	Gallagher RPL direct cost will be determined after contract execution.	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	
								GF
		Totals =	\$ 201,908.67	\$ 209,206.72	\$ 214,776.89	\$ 222,786.08	\$ 230,592.32	\$

Table 2 - Tasks Summary (Costs & Hours)

Item	Task	Task Description	Year 1 - Labor Hrs	Year 1 - T	Total Costs	Labor Hrs	Ye	ear 2 - Total Costs	Labor Hrs	Ye	ear 3 - Total Costs	Labor Hrs	Year 4 - Total Costs	Labor Hrs	Year 5	- Total Costs
1	5.4.1.1	MONTHLY MEETINGS	6.0	\$	1,642.50	6.0	\$	1,691.80	6.0	\$	1,742.56	6.0	\$ 1,794.84	6.0	\$	1,848.68
2	5.4.1.2	INVOICE/PROGRESS REPORT	6.0	\$	1,642.50	6.0	\$	1,691.80	6.0	\$	1,742.56	6.0	\$ 1,794.84	6.0	\$	1,848.68
3	5.4.1.3	PROJECT TEAM COORDINATION AND MANAGEMENT	12.0	\$	3,285.00	12.0	\$	3,383.61	12.0	\$	3,485.12	12.0	\$ 3,589.67	12.0	\$	3,697.36
4	5.4.2.1	ANNUAL REPORT	14.0	\$	1,704.66	14.0	\$	1,755.87	14.0	\$	1,808.55	14.0	\$ 1,862.80	14.0	\$	1,918.69
5	5.4.2.2	STORMWATER POLLUTION PREVENTION PLANS (SWPPP)/WATER QUALITY TECHNICAL REPORT (WQTR) REVIEW	17.0	\$	2,727.67	17.0	\$	2,809.47	9.0	\$	1,592.09	9.0	\$ 1,639.86	9.0	\$	1,689.05
6	5.4.2.3	TREATMENT BEST MANAGEMENT PRACTICE (BMP) INSPECTIONS AND MAINTENANCE	627.0	\$	145,107.50	627.0	\$	151,418.33	627.0	\$	158,099.90	627.0	\$ 165,154.88	627.0	\$	172,439.06
7	5.4.2.4	TRAINING AND DEVELOPMENT	14.0	\$	2,725.22	14.0	\$	2,806.97	14.0	\$	2,891.18	14.0	\$ 2,977.92	14.0	\$	3,067.26
8	5.4.2.5	TRACK MS4 PERMIT REQUIREMENTS	14.0	\$	1,704.66	14.0	\$	1,755.87	14.0	\$	1,808.55	14.0	\$ 1,862.80	14.0	\$	1,918.69
9	5.4.2.6	ANNUAL GUIDANCE UPDATES	38.0	\$	5,557.62	42.0	\$	6,354.12	34.0	\$	5,243.07	26.0	\$ 4,310.77	26.0	\$	4,440.09
10	5.4.2.7	TOTAL MAXIMUM DAILY LOADS (TMDL) COMPLIANCE IMPLEMENTATION	124.0	\$	23,998.68	124.0	\$	24,785.49	124.0	\$	25,598.61	124.0	\$ 26,438.55	124.0	\$	27,306.22
11	5.4.2.8	PUBLIC EDUCATION AND OUTREACH PROGRAM	14.0	\$	1,704.66	10.0	\$	1,358.56	10.0	\$	1,399.31	10.0	\$ 1,441.29	10.0	\$	1,484.53
12	5.4.2.9	CONSTRUCTION GENERAL PERMIT	32.0	\$	5,108.00	28.0	\$	4,394.81	24.0	\$	4,365.40	28.0	\$ 4,917.87	20.0	\$	3,934.03
				\$	-		\$	-		\$	-		\$ -		\$	-
		Totals =														
			918.0	\$	196,908.67	914.0	\$	204,206.72	894.0	\$	209,776.89	890.0	\$ 217,786.08	882.0	\$	225,592.32

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

	Oth	Consultant	Labor Hrs	Tot	tal Costs	Labor Hrs	Total Costs	Labor Hrs	Т	Fotal Costs	Labor Hrs	Т	Total Costs	Labor Hrs	То	otal Costs
		WSP USA Environment & Infrastructure (E&I), Inc.	533.0	\$	75,680.00	533.0	\$ 78,328.80	533.0	\$	81,070.31	533.0	\$	83,907.77	533.0	\$	86,844.54
		San Diego Stormwater Solutions (SDSS)	140.0	\$	82,320.00	140.0	\$ 86,436.00	140.0	\$	90,846.00	140.0	\$	95,550.00	140.0	\$	100,401.00
•		WSP USA, Inc.	245.0	\$	38,908.67	241.0	\$ 39,441.92	221.0	\$	37,860.58	217.0	\$	38,328.31	209.0	\$	38,346.78
		Gallagher RPL direct cost will be determined after contract execution.		\$	5,000.00		\$ 5,000.00		\$	5,000.00		\$	5,000.00		\$	5,000.00
		Totals =	918.0	\$	201,908.67	914.0	\$ 209,206.72	894.0	\$	214,776.89	890.0	\$	222,786.08	882.0	\$	230,592.32

Consultant/Subconsultant: WSP USA, Inc. / WSP E&I / San Diego Stormwater Solutions

Total Hours = 918
Total Costs = \$196,908.67

Contract Title: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

MTS Doc. No.: PWG367.0-23
Year 1
11/1/23 - 10/31/24

	Employee Name	VERONICA SEYDE	CHRISTIAN HERENCIA	Matthew Porter	Jessica Li	Chris Koury	TAVAKOLDA VANI	GABRIELA GONZALEZ	ANGELICA QUINTERO	Kristina Hysler	Brenda Stevens	Omar ARREDONDO	JENNA MENCARELLI	TESS HOLMES	DYLAN CAWTHORNE	LUIS DE LA TORRE	Mark Riley	JASON BINGHAM		
	Classification/Title	PM	TRAINING	GIS PLANNER	CGP	SWPPP/WPC P	ENGINEER I	PLANNER	TRAINING	Senior Principal	Project Manager	Staff 2 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Senior 1 Engineer/ Scientist	OPS MANAGER	Total Hours	Totals
	Firm	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	SD STORMWATER		
Item TASKS/WBS	Hourly Rate	\$ 273.75	\$ 238.73	\$ 131.44	\$ 196.91	\$ 154.87	\$ 151.87	\$ 96.43	\$ 152.85	\$ 280.00	\$ 205.00	\$ 120.00	\$ 110.00	\$ 110.00	\$ 145.00	\$ 145.00	\$ 175.00	\$ 588.00		
			1																	
	1 - PROGRAM MANAGEMENT																			4 0 4 0 5 0
5.4.1.1 - Monthly Meetin	0	6																	6 9	
5.4.1.2 - Invoice/Progres	ss Report Coordination and Management	6																	6 9	•
5.4.1.3 - Project Team C	Soordination and Management	12																	12 \$	3,285.00
	Subtotals (Hours) =	24																	24 9	6,570.00
	Subtotals (Costs) =																		24 \$	
2 Task 2 5.4.2	2 - MS4 SUPPORT SERVICES	φο,ονο.οο																	2-1	0,01010
		•						40												4.704.00
5.4.2.1 - Annual Report		2						12											14 9	1,704.66
5.4.2.2 - Stormwater Pol	Illution Prevention Plans (SWPPP)/Water	1				8	8												17 \$	2,727.67
	t Management Practice (BMP) Inspections	2									44	149	100	100	40	52		140	627	145,107.50
and Maintenance	ovolonment	2	4						0										44 0	
5.4.2.4 - Training and De 5.4.2.5 - Track MS4 Per		2 2	4					12	8										14 \$,
5.4.2.6 - Annual Guidano		2			Λ	8	8	12	4										38 9	,
	n Daily Loads (TMDL) Compliance				_	0	O O	12	_											
Implementation	. Daily Loads (111122) Compilation	4		72						48									124	23,998.68
	on and Outreach Program	2						12											14 9	1,704.66
5.4.2.9 - Construction G	J Company of the comp	4			4	8	8	8											32 \$	•
																			9	-
	Subtotals (Hours) =	21	4	72	8	24	24	56	12	48	44	149	100	100	40	52		140	894	190,338.67
	Subtotals (Costs) =	\$5,748.75	\$954.92	\$9,463.68	\$1,575.28	\$3,716.88	\$3,644.88	\$5,400.08	\$1,834.20	\$13,440.00	\$9,020.00	\$17,880.00	\$11,000.00	\$11,000.00	\$5,800.00	\$7,540.00		\$82,320.00	894	190,338.67

Totals (Summary) = 918 \$ 196,908.67

Consultant/Subconsultant: WSP USA, Inc. / WSP E&I / San Diego Stormwater Solutions

914

Total Hours = Total Costs =

\$204,206.72

Contract Title: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

MTS Doc. No.: PWG367.0-23
Year 2
11/1/24 - 10/31/25

	Employee Name	VERONICA SEYDE	CHRISTIAN HERENCIA	Matthew Porter	Jessica Li	Chris Koury	HESSAM TAVAKOLDA VANI	GABRIELA GONZALEZ	ANGELICA QUINTERO	Kristina Hysler	Brenda Stevens	Omar ARREDONDO	JENNA MENCARELLI	TESS HOLMES	DYLAN CAWTHORNE	LUIS DE LA TORRE	Mark Riley	JASON BINGHAM	
	Classification/Title	PM	TRAINING	GIS PLANNER	CGP	SWPPP/WPC P	ENGINEER I	PLANNER	TRAINING	Senior Principal	Project Manager	Staff 2 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Senior 1 Engineer/ Scientist	OPS MANAGER	Total Totals
	Firm	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	SD STORMWATER	
Item TASKS/WBS	Hourly Rate	\$ 281.97	\$ 245.89	\$ 135.38	\$ 202.81	\$ 159.51	\$ 156.42	\$ 99.33	\$ 157.44	\$ 289.80	\$ 212.18	\$ 124.20	\$ 113.85	\$ 113.85	\$ 150.08	\$ 150.08	\$ 181.13	\$ 617.40	

ask 1 5.4.1 - PROGRAM MANAGEMENT																			
.4.1.1 - Monthly Meetings		6																6 \$	1,691.
i.4.1.2 - Invoice/Progress Report		6																6 \$	1,691.
.4.1.3 - Project Team Coordination and Management		12																12 \$	3,383.
Oules	tala (Harrina)	0.4																\$	
	tals (Hours) =	24										ļ						24 \$	6,767.
	tals (Costs) =	\$6,767.22			ļ		ļ				ļ		<u> </u>					24 \$	6,767.
Task 25.4.2 - MS4 SUPPORT SERVICES																			
i.4.2.1 - Annual Report		2						12										14 \$	1,755.
.4.2.2 - Stormwater Pollution Prevention Plans (SWPP	P)/Water	1				8	8											17 \$	2,809.
5.4.2.3 - Treatment Best Management Practice (BMP) In and Maintenance	spections	2									44	149	100	100	40	52	140	627 \$	151,418.
.4.2.4 - Training and Development		2	4						8									14 \$	2,806.
.4.2.5 - Track MS4 Permit Requirements		2						12										14 \$	1,755.
.4.2.6 - Annual Guidance Updates		2			4	8	8	12	8									42 \$	6,354.
5.4.2.7 - Total Maximum Daily Loads (TMDL) Compliand mplementation	е	4		72						48								124 \$	24,785.4
5.4.2.8 - Public Education and Outreach Program		2						8										10 \$	1,358.
.4.2.9 - Construction General Permit		4			4	4	4	12										28 \$	4,394.8
																		\$	-
Subto	tals (Hours) =	21	4	72	8	20	20	56	16	48	44	149	100	100	40	52	140	890 \$	197,439.
Subto	tals (Costs) =	\$5,921.32	\$983.56	\$9,747.22	\$1,622.51	\$3,190.29	\$3,128.48	\$5,562.36	\$2,518.97	\$13,910.40	\$9,335.70	\$18,505.80	\$11,385,00	\$11,385.00	\$6,003.00	\$7,803.90	\$86,436.00	890 \$	197,439.

Totals (Summary) = 914 \$ 204,206.72

Consultant/Subconsultant: WSP USA, Inc. / WSP E&I / San Diego Stormwater Solutions

894 \$209,776.89 Con

Total Hours = Total Costs =

Contract Title: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

MTS Doc. No.: PWG367.0-23
Year 3
11/1/25 - 10/31/26

	Employee Name	VERONICA SEYDE	CHRISTIAN HERENCIA	Matthew Porter	Jessica Li	Chris Koury	HESSAM TAVAKOLDA VANI	GABRIELA GONZALEZ	ANGELICA QUINTERO	Kristina Hysler	Brenda Stevens	Omar ARREDONDO	JENNA MENCARELLI	TESS HOLMES	DYLAN CAWTHORNE	LUIS DE LA TORRE	Mark Riley	JASON BINGHAM		
	Classification/Title	PM	TRAINING	GIS PLANNER	CGP	SWPPP/WPC P	ENGINEER I	PLANNER	TRAINING	Senior Principal	Project Manager	Staff 2 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Senior 1 Engineer/ Scientist	OPS MANAGER	Total Hours Totals	\$
	Firm	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	SD STORMWATER		
Item TASKS/WBS	Hourly Rate	\$ 290.43	\$ 253.27	\$ 139.44	\$ 208.90	\$ 164.30	\$ 161.12	\$ 102.31	\$ 162.16	\$ 299.94	\$ 219.60	\$ 128.55	\$ 117.83	\$ 117.83	\$ 155.33	\$ 155.33	\$ 187.46	\$ 648.90	,	

1 Task 1	5.4.1 - PROGRAM MANAGEMENT																		
5.4.1.1 - Monthly M		6																6 \$	1,742.56
5.4.1.2 - Invoice/Pr	rogress Report	6																6 \$	1,742.56
5.4.1.3 - Project Te	eam Coordination and Management	12																12 \$	3,485.12
																		\$	-
	Subtotals (Hours) =	24																24 \$	6,970.24
	Subtotals (Costs) =	\$6,970.24																24 \$	6,970.24
2 Task 2	5.4.2 - MS4 SUPPORT SERVICES																		
5.4.2.1 - Annual Re	eport	2						12										14 \$	1,808.55
5.4.2.2 - Stormwate	er Pollution Prevention Plans (SWPPP)/Water	1				4	4											9 \$	1,592.09
5.4.2.3 - Treatment and Maintenance	t Best Management Practice (BMP) Inspections	2									44	149	100	100	40	52	140	627 \$	158,099.90
5.4.2.4 - Training a	nd Development	2	4						8									14 \$	2,891.18
	4 Permit Requirements	2						12										14 \$	1,808.55
5.4.2.6 - Annual Gu	uidance Updates	2			4	4	4	12	8									34 \$	5,243.07
5.4.2.7 - Total Max Implementation	imum Daily Loads (TMDL) Compliance	4		72						48								124 \$	25,598.61
	ucation and Outreach Program	2						8										10 \$	1,399.31
5.4.2.9 - Constructi	on General Permit	4			4	8	4	4										24 \$	4,365.40
																		\$	
	Subtotals (Hours) =	21	4	72	8	16	12	48	16	48	44	149	100	100	40	52	140	870 \$	202,806.66
	Subtotals (Costs) =	\$6,098.96	\$1,013.06	\$10,039.64	\$1,671.19	\$2,628.80	\$1,933.40	\$4,910.77	\$2,594.53	\$14,397.26	\$9,662.45	\$19,153.50	\$11,783.48	\$11,783.48	\$6,213.11	\$8,077.04	\$90,846.00	870 \$	202,806.66
														-					

Totals (Summary) = 894 \$ 209,776.89

Consultant/Subconsultant: WSP USA, Inc. / WSP E&I / San Diego Stormwater Solutions

Contract Title: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

Total Hours =

Total Costs =

890

\$217,786.08

5

MTS Doc. No.: PWG367.0-23
Year 4
11/1/26 - 10/31/27

	Employee Name	VERONICA SEYDE	CHRISTIAN HERENCIA	Matthew Porter	Jessica Li	Chris Koury	HESSAM TAVAKOLDA VANI	GABRIELA GONZALEZ	ANGELICA QUINTERO	Kristina Hysler	Brenda Stevens	Omar ARREDONDO	JENNA MENCARELLI	TESS HOLMES	DYLAN CAWTHORNE	LUIS DE LA TORRE	Mark Riley	JASON BINGHAM	
	Classification/Title	PM	TRAINING	GIS PLANNER	CGP	SWPPP/WPC P	ENGINEER I	PLANNER	TRAINING	Senior Principal	Project Manager	Staff 2 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 1 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Staff 3 Engineer/ Scientist	Senior 1 Engineer/ Scientist	OPS MANAGER	Total Totals
	Firm	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	WSP E&I	SD STORMWATER	
Item TASKS/WBS	Hourly Rate	\$ 299.14	\$ 260.86	\$ 143.62	\$ 215.17	\$ 169.23	\$ 165.95	\$ 105.38	\$ 167.02	\$ 310.44	\$ 227.29	\$ 133.05	\$ 121.96	\$ 121.96	\$ 160.76	\$ 160.76	\$ 194.03	\$ 682.50	

Task 1
5.4.1.1 - Invoice/Progress Report 6 5 1,79 5.4.1.2 - Invoice/Progress Report 6 6 5 1,79 5.4.1.3 - Project Team Coordination and Management 12 3,58 Subtotals (Hours) =
5.4.1.2 - Invoice/Progress Report 6 \$ 1,79 5.4.1.3 - Project Team Coordination and Management 12 \$ 3,58 Subtotals (Hours) = Subtotals (Costs) = With Value (Costs) = With Valu
Subtotals (Hours 24 12 12 13 15 15 15 15 15 15 15
Subtotals (Hours) = 24
Subtotals (Costs) = \$7,179.34
Task 2
5.4.2.1 - Annual Report 2 1 12 1 14 \$ 1,86 5.4.2.2 - Stormwater Pollution Prevention Plans (SWPPP)/Water 1
5.4.2.2 - Stormwater Pollution Prevention Plans (SWPPP)/Water 1 4 4 4 9 \$ 1,63 5.4.2.3 - Treatment Best Management Practice (BMP) Inspections and Maintenance 2 140 627 \$ 165,15 5.4.2.4 - Training and Development 2 4 8 14 100 40 52 140 627 \$ 165,15 5.4.2.5 - Track MS4 Permit Requirements 2 4 8 14 \$ 2,97 5.4.2.5 - Track MS4 Permit Requirements 2 14 \$ 1,86
5.4.2.3 - Treatment Best Management Practice (BMP) Inspections and Maintenance 2 140 627 \$ 165,150 5.4.2.4 - Training and Development 2 4 4 149 100 40 52 140 627 \$ 165,150 5.4.2.5 - Track MS4 Permit Requirements 2 4 4 149 100 40 40 52 140 627 \$ 165,150 5.4.2.5 - Track MS4 Permit Requirements 2 4 4 4 149 100 40 40 52 140 627 \$ 165,150 5.4.2.5 - Track MS4 Permit Requirements 2 4 4 12 4 52 14 \$ 2,97 5.4.2.5 - Track MS4 Permit Requirements 2 14 \$ 1,86
and Maintenance 2 5.4.2.4 - Training and Development 2 5.4.2.5 - Track MS4 Permit Requirements 2
and Maintenance 5.4.2.4 - Training and Development 2 4 14 \$ 2,97 5.4.2.5 - Track MS4 Permit Requirements 2 14 \$ 1,86
5.4.2.5 - Track MS4 Permit Requirements 2 1,86
5.4.2.6 - Annual Guidance Updates 2 4 4 8 4 31
5.4.2.7 - Total Maximum Daily Loads (TMDL) Compliance 4 72 \$ 26,43
implementation
5.4.2.8 - Public Education and Outreach Program 2 1,44
5.4.2.9 - Construction General Permit 4 8 4 8 4,91
\$
Subtotals (Hours) = 21 4 72 8 16 12 48 12 48 14 149 100 100 40 52 140 866 \$ 210,60
Subtotals (Costs) = \$6,281.92 \$1,043.45 \$10,340.83 \$1,721.33 \$2,707.66 \$1,991.40 \$5,058.09 \$2,004.28 \$14,901.17 \$10,000.64 \$19,823.88 \$12,195.90 \$12,195.90 \$6,430.56 \$8,359.73 \$95,550.00 866 \$210,600

Totals (Summary) = 890 \$ 217,786.08

Consultant/Subconsultant: WSP USA, Inc. / WSP E&I / San Diego Stormwater Solutions MTS Doc. No.: PWG367.0-23 Total Hours = 882 Year 5 \$225,592.32 Contract Title: MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES 11/1/27 - 10/31/28 Total Costs = HESSAM **JENNA** CHRISTIAN GABRIELA **ANGELICA** DYLAN LUIS DE LA **JASON** VERONICA Matthew Kristina Omar TESS Brenda **Employee Name** Chris Koury TAVAKOLDA Mark Riley Jessica Li SEYDE HERENCIA Porter GONZALEZ **QUINTERO** Hysler Stevens ARREDONDO MENCARELLI HOLMES **CAWTHORNE** TORRE BINGHAM VANI Staff 1 Staff 3 Staff 3 Senior 1 Staff 1 Total GIS Senior Project TRAINING CGP **ENGINEER I PLANNER OPS MANAGER** Classification/Title TRAINING Engineer/ Engineer/ Engineer/ Engineer/ Engineer/ Engineer/ **Totals PLANNER** Principal Manager Scientist Scientist Scientist Scientist Scientist Scientist SD WSP WSP WSP WSP WSP E&I WSP WSP WSP WSP E&I **STORMWATER** Item TASKS/WBS Hourly Rate \$ 308.11 \$ 268.69 \$ 147.93 \$ 221.62 \$ 174.31 \$ 170.93 \$ 108.54 \$ 172.03 \$ 321.31 \$ 235.24 \$ 137.70 \$ 126.23 \$ 126.23 \$ 166.39 \$ 166.39 \$ 200.82 \$ 717.15 1 Task 1 5.4.1 - PROGRAM MANAGEMENT 5.4.1.1 - Monthly Meetings 6 6 \$ 1,848.68 5.4.1.2 - Invoice/Progress Report 1,848.68 6 \$ 6 5.4.1.3 - Project Team Coordination and Management 12 \$ 3,697.36 12 \$ Subtotals (Hours) = 24 24 \$ 7,394.72 Subtotals (Costs) = \$7,394.72 24 \$ 7,394.72 2 Task 2 5.4.2 - MS4 SUPPORT SERVICES 5.4.2.1 - Annual Report 2 12 14 \$ 1,918.69 5.4.2.2 - Stormwater Pollution Prevention Plans (SWPPP)/Water 9 \$ 1,689.05 4 4 5.4.2.3 - Treatment Best Management Practice (BMP) Inspections 2 149 100 100 40 52 140 627 \$ 172,439.06 and Maintenance 5.4.2.4 - Training and Development 14 \$ 4 3,067.26 5.4.2.5 - Track MS4 Permit Requirements 2 12 14 \$ 1,918.69 5.4.2.6 - Annual Guidance Updates 26 \$ 4,440.09 2 4 4 8 4 5.4.2.7 - Total Maximum Daily Loads (TMDL) Compliance 72 124 \$ 27,306.22 48 Implementation 5.4.2.8 - Public Education and Outreach Program 10 \$ 1,484.53 5.4.2.9 - Construction General Permit 20 \$ 3,934.03 4 4 218,197.60 Subtotals (Hours) = 48 149 858 \$ 21 72 12 44 12 44 100 100 40 52 140 12 \$2,051.14 \$4,775.68 \$2,064.41 \$15,422.71 \$10,350.66 \$20,517.71 \$12,622.75 \$12,622.75 \$6,655.63 Subtotals (Costs) = \$6,470.38 | \$1,074.76 | \$10,651.05 | \$1,772.96 | \$2,091.67 \$8,652.32 \$100,401.00 858 \$ 218,197.60

Totals (Summary) = 882 \$ 225,592.32

EXHIBIT C
STANDARD AGREEMENT, INCLUDING STANDARD CONDITIONS



STANDARD CONDITIONS

7.1. COMPLETE AGREEMENT

This Agreement, including all applicable terms, conditions, and specifications, is the entire agreement of the parties and no attempted modification shall be binding unless in writing and signed by MTS and the Contractor.

MTS reserves the right to use alternative vendors/contractors at any time for any reason.

7.2. COUNTERPARTS

This Agreement may be executed in any number of counterparts. All such counterparts shall be deemed to constitute one and the same instrument, and each of said counterparts shall be deemed an original thereof.

7.3. SURVIVAL

Notwithstanding MTS's acceptance of the services and payment therefore, Contractor shall remain obligated under all clauses of this Agreement which expressly, or by their nature, extend beyond and survive such acceptance and payment.

7.4. DUTY TO CLARIFY OBVIOUS AMBIGUITY

The Contractor is required to seek clarification of any obvious ambiguity contained in the contract documents. Failure to do so will result in an interpretation of the ambiguous provision favorable to MTS should a dispute later arise concerning that provision.

7.5. NOTICES

All notices or other communications to either party by the other shall be deemed given when made in writing and deposited in the United States Post Office, addressed as follows:

To MTS:

San Diego Metropolitan Transit System (MTS) Attention: Chief Executive Officer 1255 Imperial Avenue, Suite 1000 San Diego, CA 92101-7490

To Contractor:

As shown on front page.

7.6. CHANGES IN WORK

No payment for changed or additional work shall be made unless the changed or additional work has first been approved in writing by the MTS Project Manager and the parties have agreed upon the appropriate adjustment, if any, to the payment schedule and maximum payment amount for the changed or additional work. The written notice of potential change in work be given to MTS prior to the time Contractor shall have performed the work within fifteen (15) days after the happening of the event, thing, occurrence, or other cause, giving rise to the potential change in work.

The MTS Project Manager may order changes or additions to the scope of work. Whether a change or addition to the scope of work is proposed by the Contractor or ordered by the MTS

Project Manager, the parties shall in good faith negotiate an appropriate adjustment, if any, to the payment schedule and maximum payment for the changed or additional work. An approved change or addition, along with the payment adjustment, if any, will be effective upon an amendment to this contract executed by both parties. The amendment shall not render ineffective or invalidate unaffected portions of this contract.

7.7. SEVERABILITY

If any term, provision, or condition of this Agreement is held to be invalid, void or otherwise unenforceable, to any extent, by any court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby, and each term, provision, or condition of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

7.8. TERMINATION OF AGREEMENT

7.8.1. TERMINATION FOR CONVENIENCE

Performance under this agreement may be terminated by MTS in accordance with this clause in whole or, from time-to-time, in part, whenever MTS shall elect. Any such termination shall be affected by delivery to Contractor of a Notice of Termination specifying the extent to which performance under this agreement is terminated, and the date upon which such termination becomes effective. Upon receipt of any such notice, Contractor shall, unless the notice requires otherwise:

- A. immediately discontinue performance on the date and to the extent specified in the notice;
- place no further orders for materials other than as may be necessarily required for completion of such portion of the agreement that is not terminated;
- C. promptly make every reasonable effort to either obtain cancellation on terms satisfactory to MTS of all orders to Contractor's suppliers to the extent they relate to the performance of that portion terminated, or upon MTS concurrence assign to MTS those orders; and
- D. assist MTS, upon request, in the maintenance, protection and disposition of property acquired by MTS under this agreement.

If claimed in writing within 30 calendar days after Notice of Termination, MTS will pay to Contractor an equitable adjustment to include (without duplication of any item):

- A. all amounts due and not previously paid to Contractor for goods completed in accordance with this agreement prior to such notice;
- B. a reasonable amount for any goods and materials then in production; provided that no such adjustment be made in favor of Contractor with respect to any goods which are Contractor's standard stock;
- C. costs of settling and paying supplier's claim arising out of the canceled orders; and
- D. a reasonable profit for costs incurred in the performance of that portion terminated; provided, however, that if it appears that Contractor would have sustained a loss on the entire agreement had it been completed, no profit shall be included.

The total sum to be paid to Contractor under this clause, shall not exceed the total order price as reduced by the amount of payments otherwise made, and as further

reduced by the order price of that portion not terminated, and will not include any consideration for loss of anticipated profits on the terminated portion all claims for which seller agrees to waive.

7.8.2. TERMINATION FOR DEFAULT

In case of Contractor breach or failure to perform, MTS reserves the right to terminate the contract for default. MTS may award the contract to the next lowest responsive, responsible Proposer, solicit new bids, or pursue any other remedy authorized by law.

In addition to any remedy authorized by law, money due to the Contractor under and by virtue of contract, as shall be considered necessary by MTS, may be retained by MTS until disposition has been made of such suits or claims for damages. The retention of money due to the Contractor shall be subject to the following:

- A. MTS will give the Contractor ten (10) days' notice of its intention to retain funds from any partial payment, which may become due to the Contractor prior to acceptance by MTS of the contract. Retention of funds from any payment made after acceptance may be made without such prior notice to the Contractor.
- B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments.
- C. If MTS has retained funds, and it is subsequently determined that MTS is not entitled to be indemnified and saved harmless by the Contractor in connection with the matter for which such retention was made, MTS shall be liable for interest earned on the amount retained for the period of such retention.

MTS may terminate the contract by serving a notice of termination on the Contractor. Notice shall set forth the manner in which the Contractor is in default, and provide the Contractor with ten (10) days' time to cure the default to the satisfaction of MTS. This cure period may be adjusted if the parties so agree in writing. If MTS determines after the cure period that the default is not cured, MTS will issue a "show cause" letter to the Contractor requesting from the Contractor reasons why this contract should not be terminated. If MTS does not find that the Contractor has demonstrated sufficient reason for its failure to cure, the contract shall be deemed terminated. The Contractor shall only be paid the contract price for supplies received and accepted, or services performed in accordance with the manner set forth in the contract. If MTS determines that the Contractor had an excusable reason for not performing such as a strike, fire, flood, or other events, which are not the fault of, or beyond the control of the Contractor, MTS may allow the Contractor to continue work or terminate the contract for convenience.

7.9. ASSIGNABILITY

A. By MTS. This contract is assignable, in whole or in part, to any other government agency, including the North County Transit District and/or the San Diego Association of Governments and/or the Metropolitan Transit System. The party wishing to exercise the assignment (also known as a "piggyback") shall perform an independent cost estimate to determine fair and reasonable pricing, and shall enter into its own contract with the vendor based upon the terms and conditions of this Request for Proposal. Any assignment or piggyback shall comply with Federal Transit Administration (FTA) requirements if

applicable. MTS shall have no responsibility or liability for any such assignment or piggyback.

B. By Contractor. Any attempt by Contractor to assign, subcontract, or transfer all or part of this Agreement shall be void and unenforceable without MTS' prior written consent; which consent shall not be unreasonably withheld. Any such consent shall not relieve Contractor from full and direct responsibility for all services performed prior to the date of assigning, subcontracting, or transferring this Agreement. In the event of an authorized assignment by MTS or applicable law, all terms, conditions, and provisions of this contract shall apply to and bind the respective heirs, executors, administrators, successors, and assigns of the parties.

Any assignment of this Agreement or of any rights hereunder of hypothecation thereof in any manner, in whole or in part, without the prior written consent of MTS shall be null and void. Notwithstanding the foregoing, Contractor may assign monies due or to become due under this Agreement, and such assignments will be recognized by MTS, provided that written notice thereof is given to MTS at least ten (10) calendar days before payment is due. Any assignment of monies shall be subject to proper setoffs in favor of MTS to all deductions provided for in this Agreement. All money withheld, whether assigned or not, shall be subject to being used by MTS for the completion of the Agreement, in the event Contractor should be in default therein.

In the event of an authorized assignment by MTS or applicable law, all terms, conditions, and provisions hereof shall inure to and bind hereto their and each of their respective heirs, executors, administrators, successors, and assigns.

7.10. STANDARD OF PERFORMANCE

Contractor's services shall be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of Contractor's profession currently practicing under similar conditions. By delivery of completed work, Contractor certifies that the work conforms to the requirements of this contract and all applicable federal, state and local laws. If Contractor is retained to perform services requiring a license, certification, registration or other similar requirement under California law, Contractor shall maintain that license, certification, registration or other similar requirement throughout the term of this Contract.

7.11. TIME

The Contractor acknowledges that timely performance is an important element of this Agreement. Accordingly, the Contractor shall put forth its best professional effort to complete its services in accordance with the agreed-upon schedule.

7.12. EXCUSABLE DÉLAYS / FORCE MAJEURE

Timely performance and deliveries are essential to this Agreement. However, Contractor will not be liable for delays in performing its obligations to the extent the delay is caused by an unforeseeable condition, which is beyond Contractor's reasonable control, without Contractor's fault or negligence. Acts of God, such as storms or floods, as well as government priorities, acts of civil or military authorities, fires, strikes, epidemics, war or riot, are examples of events which will be excusable for being beyond Contractor's reasonable control only upon fulfillment of the

following conditions: (a) within seven (7) calendar days of the commencement of any excusable delay, Contractor shall provide MTS with written notice of the cause and extent thereof, as well as request for a schedule extension for the estimated duration thereof; and (b) within seven (7) calendar days of the cessation of the event causing delay, Contractor shall provide MTS with written notice of the actual delay incurred, upon receipt of which the date of promised delivery shall be extended for the time actually lost by reason of an excusable delay.

7.13. SUSPENSION OF WORK

MTS may at any time and for any reason within its sole discretion issue a written order to the Contractor suspending, delaying or interrupting all or any part of the Work for a specified period of time. The Contractor shall comply immediately with any such written order and take all reasonable steps to minimize costs allocable to the Work covered by the suspension during the period of work stoppage. Contractor shall continue the Work that is not included in the suspension and shall continue such ancillary activities as are not suspended. The Contractor shall resume performance of the suspended Work upon expiration of the notice of suspension, or upon direction from MTS. The Contractor shall be allowed an equitable adjustment in the Contract price and/or an extension of the Contract time, to the extent that cost or delays are shown by the Contractor to be directly attributable to any suspension. However, no adjustment shall be made under this section for any suspension, delay or interruption due to the fault or negligence of the Contractor, or for which an equitable adjustment is provided for, or excluded under any other term or condition of the Contract. As soon as reasonably possible but no later than forty-five (45) calendar days, or any other period of time agreed to by the parties, after receipt of the written suspension of work notice, the Contractor shall submit to the Contracting Officer a detailed price and schedule Proposal for the suspension, delay or interruption.

7.14. INSPECTION AND TESTING

Except as otherwise expressly provided herein, Contractor shall be responsible for all inspection and testing, and agrees to strictly follow the standards of quality specified by MTS in addition to those customary in the industry. MTS shall be afforded free access to plants of Contractor and its suppliers in order to make surveillance inspections to monitor compliance with contractual quality requirements, and MTS's right to inspect, examine, and test the goods shall extend through the manufacturing process, the time and shipment, and a reasonable time after arrival at the ultimate destination. Contractor's failure to adhere to the standards of quality required under this Agreement shall be deemed to be reasonable grounds for insecurity justifying a written demand from MTS that Contractor provide adequate assurance of Contractor's ability to meet said standards.

Goods shall not be deemed accepted until finally inspected and examined at final destination.

The making or failure to make any surveillance inspection or examination of, payment for, or acceptance of the goods shall in no way impair MTS's right to reject nonconforming goods, or to avail itself of any other remedies to which MTS may be entitled, notwithstanding MTS's knowledge of the nonconformity, its substantiality, or the ease of its discovery.

7.15. [NOT APPLICABLE] EXPEDITING

7.16. INDEPENDENT CONTRACTOR

Contractor hereby declares that it is engaged in an independent business and agrees that in the performance of this Agreement it shall act as an independent contractor and not as an employee of MTS. Contractor has and hereby retains full control of all the employment, compensation, and discharge of all employees of Contractor assisting in its performance hereunder. Contractor shall be fully responsible for all matters relating to payment of its employees, including compliance with Social Security, withholding tax, and all other laws and regulations governing such matters. Contractor shall be responsible for its own acts and those of its agents and employees during the term of this Agreement. MTS shall be responsible for its own acts and those of its agents and employees during the term of this Agreement. Except as otherwise specifically provided, as an independent contractor, Contractor is solely responsible for determining the means and methods of performing the services described in the scope of work. Contractor shall perform the work contemplated with resources available within its own organization.

7.17. THIRD PARTY BENEFICIARIES

No provisions of the Contract shall in any way inure to the benefit of any third party, including the public at large, so as to constitute such person a third-party beneficiary of the Contract or of any one or more of the terms and conditions of the Contract or otherwise give rise to any cause of action in any person not a party to the Contract, except as expressly provided elsewhere in the Contract

7.18. SUBCONTRACTORS

Contractor agrees to bind every subcontractor to the terms of the Agreement as far as such terms are applicable to subcontractor's portion of the Work. Contractor shall be as fully responsible to MTS for the acts and omissions of its subcontractors and of persons either directly or indirectly employed by its subcontractors, as Contractor is for acts and omissions of persons directly employed by Contractor. Nothing contained in this Agreement shall create any contractual relationship between any subcontractor and MTS. MTS reserves the right to approve all subcontractors. MTS's approval of any subcontractor under this Agreement shall not in any way relieve Contractor of its obligations under this Agreement.

7.19. INDEMNITY

As between MTS and Contractor, Contractor shall indemnify and hold harmless, MTS, SDTI, SDTC, SD&AE, SD&IV and any and all of its directors, officers, agents or employees from and against any and all claims, loss, damage, charge, or expense, whether direct, which MTS, SDTI, SDTC, SD&AE, SD&IV or such directors, officers, agents or employees may be put or subjected, by reason of any damage, loss, or injury of any kind or nature whatever to persons or property caused by any negligent act, omission, in its or their performance under this Agreement. In addition to any other remedy authorized by law, so much of the money due Contractor under this Agreement as shall be considered necessary by MTS may be retained until disposition has been made of any claim for damages.

7.20. DISPUTES, CLAIMS, AND RESOLUTION

MTS and the Contractor agree that every effort shall be made to resolve any dispute arising under this Agreement informally through their designated representatives. If the informal efforts are unsuccessful, then either party may request mediation by submitting a written request signed by an officer with the authority to bind the Contractor or MTS. Within five (5) business days of the request of any party, the parties shall mutually agree on the person or alternative dispute

resolution agency to conduct the mediation. If the parties are unable to agree on the person or alternative dispute resolution agency to conduct the mediation, the initiating party may arrange for the office of the American Arbitration Association in downtown San Diego, California, to perform the mediation. The initiating party shall then schedule the mediation so that it is conducted within fifteen (15) business days of the mediator's appointment. The costs of the mediation and fees of the mediator, if any, shall be borne by the requesting party. Any dispute not resolved through the mediation may proceed to litigation in a court of competent jurisdiction in the County of San Diego, State of California, unless the parties agree in writing to submit the dispute to binding arbitration.

Should the Contractor suffer any injury or damage to person or property because of any alleged act or omission of MTS, or if any of Contractor's employees, agents, or others for whose acts the Contractor is legally liable suffers any injury or damages to person or property because of any alleged act or omission of MTS, a written claim for damages shall be filed with the MTS Office of General Counsel in accordance with the provisions of California Government Code section 900 et seq.

The duties and obligations imposed by this Agreement and the rights and remedies available hereunder shall be in addition to and not a limitation of any duties, obligations, rights, and remedies otherwise imposed or available by law. No action or failure to act by MTS or Contractor shall constitute a waiver of any right or duty afforded any of them under this Agreement, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder except as may be specifically agreed to in writing.

7.21. NONWAIVER

Failure of MTS to insist upon strict performance of any of the terms and conditions hereof, or failure or delay to exercise any rights or remedies provided herein, or by law, or to properly notify Contractor in the event of breach, or the acceptance of payment for any goods hereunder, or review of design, shall not release Contractor from any of the warranties or obligations of this agreement, and shall not be deemed a waiver of any right of MTS to insist regardless when shipped, received, or accepted or as to any prior or subsequent default hereunder, nor shall any revision of this agreement by MTS operate as a waiver of any of the terms hereof. A requirement that a Contractor's document be submitted for or subject to "authorization to proceed," "approval," "acceptance," "review," "comment," or combinations of such words or words of like import shall mean, unless the context clearly indicates otherwise, that Contractor shall, before implementing the information in the document, submit the document, obtain resolution of any comments, and obtain written authorization from MTS to proceed, and shall mean that a complete check will be performed. Authorization to proceed shall not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by Contractor and shall not relieve Contractor from full compliance with contractual obligations.

7.22. GOVERNING LAW AND CHOICE OF FORUM

The definition of terms used, interpretation of this Agreement, and rights of all parties hereunder shall be determined in accordance with the laws of the State of California.

Any action or proceeding to enforce or relating to this Agreement shall be brought exclusively in the federal or state courts located in San Diego County, California, and the Contractor and MTS hereto consent to the exercise of personal jurisdiction over them by any such courts for purposes of any such action or proceeding.

7.23. LITIGATION EXPENSES

Should litigation be necessary to enforce any term or provision of this Agreement, or to collect any portion of the amount payable under this Agreement, then all litigation and collection expenses, witness fees, court costs, and attorney's fees shall be paid to the prevailing party.

7.24. INSURANCE

Contractor will include the contract number on all insurance-related correspondence, i.e., the insurance certificate itself.

All policies required shall be issued by companies who are licensed or approved to do business in the State of California and hold a current policyholder's alphabetic and financial-size category rating of not less than A-VI, in accordance with A.M. Best.

MTS utilizes the services of a third-party insurance monitoring company. As a condition of contract award, Contractor shall submit any required insurance policies to the third-party monitoring company of MTS' choosing.

7.24.1. COVERAGE REQUIRED - ALL CONTRACTS

A. Liability

1) Commercial General Liability

At all times during this contract and, with respect to Products and Completed Operations Liability, for twelve (12) months following the acceptance of the work by MTS, Contractor agrees to maintain Commercial General Liability Insurance utilizing Insurance Services Office (ISO) coverage form CG0001, edition date 10/01 or later, or an equivalent form and with insurance companies acceptable to MTS. The coverage shall contain no restricting or exclusionary endorsements with respect to the performing of services described in the scope of work.

All such policies shall include in the endorsement San Diego Metropolitan Transit System (MTS), San Diego Trolley, Inc. (SDTI), San Diego and Arizona Eastern Railway (SD&AE), San Diego and Imperial Valley Railroad (SD&IV), and San Diego Transit Corporation (SDTC), their directors, officers, agents, and employees as additional insureds as their interests may appear. Furthermore, an endorsement will be required demonstrating that the standard railroad exclusionary language has been removed as applicable.

2) Automobile Liability

At all times during this contract, Contractor agrees to maintain Automobile Liability Insurance for bodily injury and property damage including coverage for all owned, nonowned, and hired vehicles.

3) Workers' Compensation/Employer Liability

At all times during this contract, Contractor agrees to maintain Workers' Compensation and Employers' Liability Insurance in compliance with the applicable statutory

requirements. Contractor waives any rights of subrogation against MTS, SDTI, SD&AE, SD&IV, and SDTC, and the policy form must permit and accept such waiver.

7.24.2. ADDITIONAL COVERAGES REQUIRED (AS INDICATED. WHERE THERE IS A CHECKMARK, THE COVERAGE IS REQUIRED)

Contractor agrees that all general liability coverages required under this insurance section are PRIMARY and that any insurance of MTS, SDTI, SD&AE, SD&IV, and SDTC shall be excess and noncontributory (endorsement required).

(2) Owner-Provided Builder's Risk

MTS will provide Builder's Risk Insurance on a special form basis, excluding the perils of earthquake and flood, at a limit of not less than the full replacement value of the work and covering the work and all materials and equipment to be incorporated therein, including property in transit elsewhere, and insuring the interests of the Contractor, subcontractors, materialmen, and MTS, SDTI, SD&AE, SD&IV, SDTC, MTS's contractor for design, and MTS's contractor for construction management. However, Contractor is responsible for the portion of any loss that is within the deductible amount of this Builder's Risk Insurance, which is currently at \$50,000 but is subject to change.

⊠ (3) Railroad Protective or Equivalent

Any exclusions relating to performance of operations within the vicinity of any railroad, bridge, trestle, track, roadbed, tunnel, underpass, or crossing must be deleted. Option: purchase separate Railroad Protective Liability Policy as required.

At all times during this contract, and for twelve (12) months following acceptance of work by owner, Contractor agrees to maintain Professional Liability Insurance with respect to services or operations under this Agreement.

☐ (5) Pollution Legal Liability

At all times during this contract, and for twenty-four (24) months following, Contractor agrees to maintain Pollution Legal Liability Insurance with respect to services or operations under this Agreement. The extended discovery period must be no less than twenty-four (24) months.

(6) Contractor Equipment

At all times during this contract, Contractor agrees to maintain Contractor's Equipment Insurance on a special form basis covering equipment owned, leased, or used by Contractor. Contractor waives any rights of subrogation against MTS, SDTI, SD&AE, SD&IV, and SDTC, and the policy form must permit and accept such waiver. Contractor hereby releases and holds harmless MTS for any loss or damage to its equipment.

☐ (7) Installation Floater

At all times during this contract, Contractor agrees to maintain Installation Floater Insurance on a special form basis covering property owned or provided by Contractor. Contractor waives any rights of subrogation against MTS, SDTI, SD&AE, SD&IV, and SDTC, and the policy form must permit and accept such waiver. Contractor hereby releases and holds harmless these entities for any loss or damage to its property.

(8) Garage Keeper's Legal Liability & Automobile Portion

At all times during this contract, Contractor agrees to maintain Garage Keeper's Legal Liability as well Automobile Portion which covers the risk of loss or damage to MTS vehicles while in the care, custody or control of Contractor. Automobile portion shall cover the Contractor in the event of a vehicle accident while they are driving a MTS vehicle, which results in a third party claim of physical damage or bodily injury.

(9) Crime Fidelity Insurance

At all times during this contract, Contractor agrees to maintain Crime Fidelity Insurance with respect to services or operations under this agreement. The coverage should include the following:

- Employee dishonesty/theft
- Theft, disappearance and destruction on the premises
- Theft, disappearance and destruction while in transit
- Forgery/alteration

☐ (10) <u>Umbrella or Excess Liability (if required to meet liability limits above)</u>

Contractor agrees that any Umbrella or Excess Liability Policy utilized to provide the required limits of liability shall contain coverage at least as broad as that provided by the General Liability Policy, and be written for a term concurrent with the General Liability Policy.

☐ (11) Property Insurance

Contractor is responsible to insure physical damage coverage at replacement cost value on the rolling stock (i.e., revenue and non-revenue vehicles) it operates. [Note: MTS insures the buildings in which the fixed route contract operates.]

(12) Cyber and Privacy Liability, including Technology Errors and Omissions

Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by Vendor in this agreement and shall include, but not be limited to, claims involving security breach, system failure, data recovery, business interruption, cyber extortion, social engineering, infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, and alteration of electronic information. The policy shall provide coverage for breach response costs, regulatory fines and penalties as well as credit monitoring expenses. Coverage shall also include Technology Professional Liability Errors & Omissions appropriate to the Consultant's profession and work hereunder

7.24.3. MINIMUM POLICY LIMITS REQUIRED Combined Single Limit (CSL) \$2,000,000 Commercial General Liability (Per Occurrence): \$4,000,000 (General Aggregate) (Completed Operations & Products Aggregate) \$2,000,000 Automobile Liability: (Combined Single Limit) \$2.000.000 Worker's Compensation: Statutory Limits \$1,000,000 Employer's Liability per Accident /or Disease: 2. Additional Coverages (as indicated under Additional Coverages Required Section): B (1) Primary and Non-Contributory Insurance ☐ B (2) Owner Provided Builder's Risk Replacement Cost B (3) Railroad Protective or Equivalent \$4,000,000 □ B (4) Professional Liability \$2,000,000 □ B (5) Pollution and Legal Liability \$ ☐ B (6) Contractor Equipment Replacement Cost Replacement Cost B (7) Installation Floater □ B (8) Garage Keeper's Legal Liability & **Automobile Portion** (Per Occurrence) (Combined Single Limit (CSL) \$ □ B (9) Crime Fidelity Insurance ☐ B (10) Umbrella or Excess Liability (if required to meet liability limits above) \$ ☐ B (11) Property Insurance ☐ B (12) Cyber Security Liability Insurance \$ (per occurrence or claim) (Aggregate)

7.24.4. NOTICE OF POLICY CHANGES

Contractor shall not amend or cancel the insurance policy and coverage required by this Agreement without providing MTS with at least thirty (30) days prior written notice. Contractor shall notify MTS within ten (10) days of insurer-initiated material amendments or cancellations to the insurance coverage required by this Agreement. Under no circumstances shall these notice provisions be deemed a waiver of the insurance requirements set for herein. Any material changes in or cancellation of the insurance policy on file with MTS pursuant to the insurance requirements will result in an immediate stop work order until proof of substitute coverage meeting the requirements of this Agreement is provided to MTS. In the alternative, in MTS' sole discretion, MTS retains the right to declare Contractor in default and immediately terminate this Agreement if the insurance coverage required is cancelled, otherwise lapses or fails to meet the coverage limits at any time, and for any duration, during the term of this Agreement.

7.24.5. EVIDENCE REQUIRED

Within ten (10) working days following receipt of notice that a contract has been awarded, Contractor shall have provided the MTS Contracts Specialist with satisfactory certification

by a qualified representative of the Insurer(s) that Contractor's insurance complies with all provisions in this insurance section.

7.24.6. SPECIAL PROVISIONS

The foregoing requirements as to the types and limits of insurance coverage to be maintained by Contractor, and any approval of said insurance by MTS, SDTI, SD&AE, SD&IV, and SDTC, or their insurance Contractor(s) are not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by Contractor pursuant to this Agreement, including but not limited to the provisions concerning indemnification.

MTS reserves the right to withhold payments to Contractor in the event of material noncompliance with the insurance requirements outlined above.

7.25. [NOT APPLICABLE] LIQUIDATED DAMAGES

7.26. PRICE AND PAYMENT

The total price herein specified, unless otherwise expressly stated, shall include all taxes of any kind which either party is required to pay with respect to the sale of the goods covered by this Agreement, including sales and use taxes, and shall include all charges and expenses for customs duties, freight charges, inspection, testing, packaging and loading unless specifically excluded.

Payment will be made as set forth in this Agreement; however, payments may be withheld or portions thereof may be deducted or setoffs may be made against Contractor if Contractor is not performing work in accordance with the applicable provisions of this Agreement. The time for payment of invoices or for accepting any discounts offered shall run only from the date of receipt of correct invoices with required certification documents by MTS.

ADVANCE PAYMENT IS NOT ALLOWABLE.

7.27. CONSIDERATION PAID

MTS shall reimburse the Contractor for actual costs (including labor costs, employee benefits, overhead, and other direct costs) incurred by the Contractor in performance of the work, in an amount not to exceed \$1,079,270.68. Actual costs shall not exceed the estimated wage rates and other costs set forth in the Contractor's proposal.

Fees and all other charges will be billed monthly as the work progresses, and the net amount shall be due at the time of billing.

Payment will be made as set forth in this Agreement; however, payments may be withheld or portions thereof may be deducted or setoffs may be made against Contractor if Contractor is not performing work in accordance with the applicable provisions of this Agreement. The time for payment of invoices or for accepting any discounts offered shall run only from the date of receipt of correct invoices with required certification documents by MTS.

MTS does not reimburse travel expenses unless expressly permitted within the scope. If travel expense reimbursement is permitted within the scope, reimbursement for transportation and subsistence costs shall be in accordance with MTS Board Policy No. 44-C.

7.28. COST PRINCIPLES

The Contractor agrees that the Contract Cost Principles and Procedures, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31, shall be used to determine the allowability of individual items of cost.

The Contractor also agrees to comply with federal procedures in accordance with 49 CFR, Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to state and local governments.

Any costs for which payment has been made to the Contractor that are determined by subsequent audit to be unallowable under 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31, or 49 CFR, Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to state and local governments, are subject to repayment by the Contractor to MTS.

7.29. PROMPT PROGRESS PAYMENT AND RETENTION

Contractor or Subcontractor shall pay any Subcontractor no later than seven (7) business days from the receipt of each progress payment from MTS. No retainage will be held by MTS from progress payments due to the Contractor. Any retainage kept by the Contractor or by a Subcontractor must be paid in full to the Subcontractor in seven (7) business days after the Subcontractor's work is satisfactorily completed. Any delay or postponement of a progress payment or retainage to the Subcontractor over 30 calendar days may take place only for good cause and with MTS's prior written approval. Failure to comply with this provision will constitute noncompliance, which may result in the application of legal and contract remedies, including, but not limited to, prime contractor not being reimbursed for work performed by subcontractors unless and until the prime contractor ensures that the subcontractors are promptly paid for the work they have performed. This requirement shall not be construed to limit or impair any contractual, administrative or judicial remedies otherwise available to the Contractor or Subcontractor in the event of a dispute involving late or nonpayment by the Contractor, deficient Subcontractor performance or noncompliance by a Subcontractor.

Prime Contractor must submit the MTS Prompt Payment Certification Form to the MTS Contracts Administrator if any Subcontractors. The form is available for download at https://www.sdmts.com/business-center/procurement. The form certifies that all Subcontractors were paid within seven (7) business days of receiving payment from MTS for work performed during the previous month. The prime contractor must submit the completed certification, as required on the form, and the month following final acceptance of the project. In addition, seven (7) business day prompt payment requirement prevails over contract language between a Prime Contractor and a Subcontractor.

7.30. RECORDS RETENTION

The Contractor and any Subcontractor shall maintain all data, documents, books, reports, payroll, statistics, subcontracts, leases, arrangements, papers, accounting records, and other evidence and supporting materials pertaining to the performance of the contract including, but not limited to, the costs of administering the contract. The Contractor shall make such materials available at its respective office at all reasonable times during the Agreement and for three (3) years from the date of the final payment under the Contract and three (3) years from the date that any pending legal matters relating to the Contract are closed. MTS, the state, the State Auditor, or any duly authorized representative shall have access to any books, records, and documents of the Contractor that are pertinent to the contract for audit examination, excerpts, and transactions, and copies thereof shall be furnished if requested.

7.31. WARRANTIES-GUARANTEES

Contractor represents that the goods shall be in conformance with the standard of care. Unless the representation period is otherwise extended, the warranty shall apply. If, within one year from the date of commercial operation for the purpose for which the goods were purchased, or 18 months from the date of final delivery, whichever comes first, it appears that the goods, or any part thereof, do not conform to these warranties, and MTS so notifies Contractor within a reasonable time after its discovery, Contractor shall thereupon promptly correct such nonconformity to the satisfaction of MTS, at Contractor's sole expense, failing which MTS may reject and cover by purchasing substitute goods or MTS may proceed to make corrections or accomplish Contractor's performance by the most expeditious means available, the costs of cover or correction shall be for Contractor's account.

7.32. INTELLECTUAL PROPERTY WARRANTY

MTS shall advise the Contractor of any impending patent suit related to this Contract against MTS and provide all information available. The Contractor shall defend any suit or proceeding brought against MTS based on a claim that any services or goods furnished under this Contract constitutes an infringement of any patent, and the Contractor shall pay all damages and costs awarded therein, excluding incidental and consequential damages against MTS. In case said services or good, or any part thereof, is in such suit held to constitute infringement and use of said services or goods is enjoined, the Contractor shall, at its own expense and at its option, either procure for MTS the right to continue using said services or goods, or replace same with non-infringing services or goods, or modify it so it becomes non-infringing.

7.33. DATA RIGHTS

The term "subject data" used in this clause means recorded information, whether or not copyrighted, that is delivered or specified to be delivered under the Agreement. It includes the proprietary rights of the following:

- Shop drawings and working drawings
- Technical data including manuals or instruction materials, computer or microprocessor software
- Patented materials, equipment, devices or processes
- License requirements

MTS shall protect proprietary information provided by the Contractor to the fullest extent of the law. The Contractor shall grant a non-exclusive license to allow MTS to utilize such information. In the event that the Contractor no longer provides the information, MTS has the right to reverse engineer patented parts and software.

MTS reserves a royalty-free, non-exclusive and irrevocable license to reproduce, publish or otherwise use, and to authorize others to use, the following subject data for its purposes: (1) any subject data required to be developed and first produced in the performance of the Contract and specifically paid for as such under the Contract, whether or not a copyright has been obtained; and (2) any rights of copyright to which the Contractor, Subcontractor or Supplier purchases ownership for the purpose of performance of the Contract and specifically paid for as such under the Contract. The Contractor agrees to include the requirements of this clause, modified as

necessary to identify the affected parties, in each subcontract and supply order placed under the Contract.

7.34. EXCLUSIVE USE

The services hereunder are provided for the exclusive use of MTS and such services, data, recommendations, proposals, reports, design criteria, and similar information provided by Contractor, are not to be used or relied upon by other parties except as authorized by MTS.

7.35. OWNERSHIP OF DOCUMENTS

Tracings, plans, specifications, and maps prepared or obtained under the terms of this Agreement shall be delivered to and become the property of MTS. Basic survey notes and sketches, charts, computations, and other data prepared or obtained under this Agreement shall be made available, upon request, to MTS without restriction or limitation on its use.

7.36. LANGUAGE AND MEASURE UNITS

Unless specified otherwise, manuals, specifications, drawings, plans, purchase orders, subcontract documents, and invoices submitted in accordance with this Agreement shall be in metric ("Systems International d' Units," or "SI units") with the United States equivalents clearly shown.

7.37. STANDARDS AND CODES

Whenever references are made in the Agreement to standards or codes in accordance with which the goods are to be manufactured or tested, the edition or revision of the standards or codes current on the effective date of this Agreement shall apply, unless otherwise expressly set forth. Unless otherwise specified, reference to such standards or codes is solely for implementation of the technical portions of such standards and codes.

In case of conflict among any referenced standards and codes, or between any referenced standards and codes and the Technical Specifications, MTS will determine which will govern.

7.38. DISADVANTAGED BUSINESS ENTERPRISE (DBE) AND OTHER SMALL BUSINESS PARTICIPATION

MTS encourages the participation of DBEs, minority owned businesses (MBEs), women owned businesses (WBEs), disabled veteran business enterprises (DVBEs) lesbian gay bisexual transgender businesses (LGBTs), and small businesses (SB) in the performance of all of its contracts. MTS encourages the Contractor to outreach to DBEs and other small business enterprises for any potential subcontracting opportunities on this project. MTS tracks DBE, MBE, WBE, DVBE, LGBT and SB participation and therefore requires all successful proposers to report whether the prime contractor and any subcontractors are a DBE or other small business enterprise. Contractor must complete MTS's Designation of Subcontractors and DBE Program - Information for MTS's Bidder List. If interested in learning about bonding or financial assistance that may be available for small businesses, visit www.sba.gov. If interested in learning about the eligibility requirements to become certified as a DBE, MBE, WBE, DVBE, LGBT or SB or how to view a list of certified firms, please contact MTS's DBE Liaison Officer, Samantha Leslie, at Samantha.Leslie@sdmts.com for more information.

7.39. AMERICANS WITH DISABILITIES ACT

The Contractor shall comply with all applicable requirements of the Americans with Disabilities Act of 1990 (ADA), 42 U.S.C. §§ 12101 et seq.; section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. § 794; as well as all applicable regulations and guidelines issued pursuant to the ADA.

7.40. SUBSTANCE ABUSE

Pursuant to the rules and regulations of the Department of Transportation to the extent applicable to this Contract, Contractor will be required to comply with all applicable drug and alcohol testing requirements, including the amendments to 49 C.F.R. parts 655.

As a condition of this Contract, the following are the Contractor's Drug and Alcohol Testing Obligations:

7.42.1. CONTRACTORS CERTIFICATION:

Contractor certifies that it will comply with all applicable drug and alcohol testing requirements provided by law, including, but not limited to, the drug and alcohol testing requirements set forth in the Department of Transportation's regulations.

7.42.2. INDEMNIFICATION OF MTS:

Contractor agrees to indemnify, defend and hold harmless MTS, SDTI and SDTC, and their directors, employees and agents from and against any loss, damage, expense and liability that MTS, SDTI or SDTC, may incur as a result of Contractor's failure to comply with any applicable drug and alcohol testing obligations.

7.42.3. SURVIVAL OF MTS' INDEMNIFICATION RIGHTS:

The rights and obligations contained in "B" (Indemnification of MTS) will survive any termination or expiration of this Agreement.

7.42.4. FAILURE TO COMPLY WITH DRUG AND ALCOHOL TESTING OBLIGATIONS MAY RESULT IN TERMINATION OF CONTRACT:

If, at any time during the period of this Agreement, Contractor fails to comply with any applicable drug and alcohol testing requirements, MTS will consider such failure a material breach of this Agreement, and MTS may terminate this Agreement immediately.

7.41. EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

7.43.1. MTS'S EQUAL EMPLOYMENT OPPORTUNITY PROGRAM:

MTS is an Equal Opportunity Employer. As such, MTS agrees to comply with all applicable Federal civil rights laws and implementing regulations. Apart from inconsistent requirements imposed by Federal laws or regulations, MTS agrees to comply with the requirements of 49 U.S.C. § 5323(h) (3) by not using any Federal assistance awarded by FTA to support procurements using exclusionary or discriminatory specifications. MTS' Equal Employment Opportunity Program for Contractors, MTS Policy No. 25, is part of this Agreement (a copy can be obtained from MTS' Clerk of the Board).

7.43.2. CONTRACTOR'S EQUAL EMPLOYMENT OPPORTUNITY PLAN:

Each Contractor who provides MTS labor, equipment, materials and services of \$50,000 or more per year with fifty (50) or more employees shall have, maintain, and submit an

Equal Employment Opportunity Plan to the Director of Human Resources and Labor Relations for MTS each year of the contract, and a Workforce Utilization Report on or before January 1 and July 1 for each year of the contract. The objective of this plan is to assure that the Contractor will not discriminate against any employee or applicant for employment because of race, color, national origin, sex, sexual orientation, gender identity, religion, disability, age or status as a parent. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

7.43.3. COMPLIANCE WITH REGULATIONS:

Contractor shall comply with Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000e et seq.; Facilitate compliance with Executive Order No. 11246, "Equal Employment Opportunity" September 24, 1965, 42 U.S.C. § 2000e note, as amended by any later Executive Order that amends or supersedes it in part and is applicable to federal assistance programs; Comply with federal transit law, specifically 49 U.S.C. § 5332; FTA Circular 4704.1 "Equal Employment Opportunity (EEO) Requirements and Guidelines for Federal Transit Administration Recipients,"; and Follow any other federal guidance pertaining to EEO laws, regulations, and requirements, and prohibitions against discrimination.

7.42. PUBLIC WORKS

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to enter into a contract to perform public work must be registered with the Department of Industrial Relations. No contract will be entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work. If awarded a contract, the Bidder and its subcontractors, of any tier, shall maintain active registration with the Department of Industrial Relations for the duration of the Project.

LABOR

Hours of Work: Eight (8) hours of work shall constitute a legal day's work. Contractor and each subcontractor shall forfeit, as penalty to MTS, twenty-five dollars (\$25) for each worker employed in the execution of Work by the Contractor or any subcontractor for each day during which such worker is required or permitted to work more than eight (8) hours in any one day and forty (40) hours in any week in violation of the provisions of the Labor Code, and in particular, section 1810 to section 1815, except as provided in Labor Code section 1815. The Contractor and every subcontractor shall keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed in connection with the Work or any part of the Work contemplated by this Contract. The record shall be kept open at all reasonable hours to the inspection of MTS and to the Division of Labor Law Enforcement, Department of Industrial Relations of the State of California.

Prevailing Rates of Wages: The Contractor is aware of the requirements of Labor Code Sections 1720 *et seq.* and 1770 *et seq.*, as well as California Code of Regulations, Title 8, Section 16000 *et seq.* ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. Since this Project involves an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and since the total compensation is \$1,000 or more, Contractor agrees to fully comply with such Prevailing Wage Laws. The Contractor shall obtain

a copy of the prevailing rates of per diem wages at the commencement of this Contract from the website of the Division of Labor Statistics and Research of the Department of Industrial Relations located at www.dir.ca.gov. In the alternative, the Contractor may view a copy of the prevailing rate of per diem wages which are on file at MTS's Administration Office and shall be made available to interested parties upon request. Contractor shall make copies of the prevailing rates of per diem wages for each craft, classification, or type of worker needed to perform work on the Project available to interested parties upon request, and shall post copies at the Contractor's principal place of business and at the Project site. Contractor shall defend, indemnify and hold MTS, its Board, members of the Board, employees and authorized volunteers free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or allege failure to comply with the Prevailing Wage Laws.

The Contractor shall forfeit as a penalty to MTS not more than Two Hundred Dollars (\$200.00), pursuant to Labor Code Section 1775, for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate as determined by the Director of the Department of Industrial Relations for such work or craft in which such worker is employed for any public work done under the Contract by it or by any subcontractor under it. The difference between such prevailing wage rate and the amount paid to each worker for each calendar day or portion thereof, for which each worker was paid less than the prevailing wage rate, shall be paid to each worker by the Contractor.

Contractor shall post, at appropriate conspicuous points on the Project site, a schedule showing all determined general prevailing wage rates and all authorized deductions, if any, from unpaid wages actually earned.

Payroll Records: Pursuant to Labor Code Section 1776, Contractor and all subcontractors shall maintain weekly certified payroll records, showing the names, addresses, Social Security numbers, work classifications, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by them in connection with the Work under this Contract. Contractor shall certify under penalty of perjury that records maintained and submitted by Contractor are true and accurate. Contractor shall also require subcontractor(s) to certify weekly payroll records under penalty of perjury.

In accordance with Labor Code section 1771.4, the Contractor and each subcontractor shall furnish the certified payroll records directly to the Department of Industrial Relations ("DIR") on the specified interval and format prescribed by the DIR, which may include electronic submission. Contractor shall comply with all requirements and regulations from the DIR relating to labor compliance monitoring and enforcement.

If not subject to paragraph (a), the certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement ("DLSE") of the DIR or shall contain the same information as the forms provided by the DLSE.

In the event of noncompliance with the requirements of this Section, the Contractor shall have ten (10) calendar days in which to comply subsequent to receipt of written notice specifying in what respects the Contractor must comply with this section. Should noncompliance still be evident after such 10-day period, the Contractor shall pay a penalty of one hundred dollars (\$100.00) to MTS for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payment then due.

Employment of Apprentices: Contractor's attention is directed to the provisions of sections 1777.5, 1777.6, and 1777.7 of the Labor Code concerning employment of apprentices by the Contractor or any subcontractor. Contractor shall obtain a certificate of apprenticeship before employing any apprentice pursuant to sections 1777.5, 1777.6, and 1777.7 of the Labor Code. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, the Administrator of Apprenticeships, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

Nondiscrimination: Pursuant to Labor Code Section 1735 and other applicable provisions of law, the Contractor and its subcontractors shall not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, or any other classifications protected by law on this Project. The Contractor will take affirmative action to insure that employees are treated during employment or training without regard to their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, or any other classifications protected by law.

Labor Certification I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract code.

7.43. IDENTIFICATION OF PERSONNEL/SECURITY

MTS shall provide all Contractor personnel assigned to work under this Agreement with Contractor Identification Badges ("MTS ID Card"). Requests for MTS ID Cards will be made to and processed by the MTS-designated project manager or contracting officer. Approved requests for MTS ID Card(s) will be processed within two business days. All Contractor personnel must obtain MTS ID Cards prior to entering MTS property. Valid MTS ID Cards must be displayed prominently on the uniform of all of Contractor's employees while on MTS property. Contractors are required to provide their employees uniforms prominently bearing the name of the Contractor's business entity. MTS will allow only properly credentialed personnel of the Contractor who are wearing the appropriate uniform on its property. Contractor personnel who enter MTS property without valid MTS ID Cards may be arrested and/or cited by MTS Code Enforcement and/or other law enforcement for trespassing and violation of MTS Ordinance 13. Contractor must collect MTS ID Cards from all Contractor personnel separating from employment with the Contractor and return them to MTS for destruction. Contractor is strictly liable for the use of all MTS ID Cards issued to its employees under this Agreement.

Required Background Checks

MTS requires that all Contractor personnel assigned to work on MTS property pass comprehensive background checks (Investigative Consumer Report), conducted by the Contractor, prior to beginning work on MTS property or under this Agreement. At a minimum, the background check must, (1) positively establish the employee's identity, (2) search all common databases for criminal offenses (e.g., Federal District Court Databases), (3) verify the social security number or tax ID provided by the employee, (4) search sex offender databases, and (5) search the local criminal databases of every County in which the employee has lived in the last seven years. Contractor must conduct background checks in accordance with applicable law,

including but not limited to, the Fair Credit Reporting Act and California Civil Code Sections 1785 and 1786.

Contractor personnel meeting any of the conviction criteria outlined below <u>are not eligible</u> for issuance of an MTS ID Card and may not be assigned to work on MTS property:

Permanent Disqualification:

- 1. Registered sex offenders are ineligible.
- Espionage or conspiracy to commit espionage.
- 3. Sedition or conspiracy to commit sedition.
- 4. Treason or conspiracy to commit treason.
- 5. A federal crime of terrorism as defined in 18 U.S.C. 2332b(g), or comparable State law, or conspiracy to commit such crime.
- 6. A crime involving a TSI (transportation security incident). Note: A transportation security incident is a security incident resulting in a significant loss of life, environmental damage, transportation system disruption, or economic disruption in a particular area, as defined in 46 U.S.C. 70101. The term "economic disruption" does not include a work stoppage or other employee-related action not related to terrorism and resulting from an employer-employee dispute.
- 7. Improper transportation of a hazardous material under 49 U.S.C. 5124 or a comparable state law.
- 8. Unlawful possession, use, sale, distribution, manufacture, purchase, receipt, transfer, shipping, transporting, import, export, storage of, or dealing in an explosive or explosive device. An explosive or explosive device includes an explosive or explosive material as defined in 18 U.S.C. 232(5), 841(c) through 841(f), and 844(j); and a destructive device, as defined in 18 U.S.C. 921(a)(4) and 26 U.S.C. 5845(f).
- 9. Murder.
- 10. Threat or maliciously conveying false information knowing the same to be false, concerning the deliverance, placement, or detonation of an explosive or other lethal device in or against a place of public use, a state or government facility, a public transportations system, or an infrastructure facility.
- 11. Violations of the Racketeer Influenced and Corrupt Organizations Act, 18 U.S.C. 1961, et seq., or a comparable State law, where one of the predicate acts found by a jury or admitted by the defendant, consists of one of the permanently disqualifying crimes.
- 12. Attempt to commit the crimes in items (2)-(5) of this section.
- 13. Conspiracy or attempt to commit the crimes in items (6)-(11) of this section.
- 14. Any offense that is still pending in the courts (without official legal disposition) that will disqualify the individual if they are convicted.

Disqualification for seven years from the date of the offense or five years from the date of release from prison for the offense (whichever is later):

- Unlawful possession, use, sale, manufacture, purchase, distribution, receipt, transfer, shipping, transporting, delivery, import, export of, or dealing in a firearm or other weapon.
 A firearm or other weapon includes, but is not limited to, firearms as defined in 18 U.S.C. 921(a)(3) or 26 U.S.C. 5 845(a), or items contained on the U.S. Munitions Import List at 27 CFR 447.21.
- 2. Extortion.
- 3. Dishonesty, fraud, or misrepresentation, including identity fraud and money laundering, where the money laundering is related to a crime listed in Parts A or B (except welfare fraud and passing bad checks).

- 4. Bribery.
- Smuggling.
- 6. Immigration violations.
- 7. Distribution, possession w/ intent to distribute, or importation of a controlled substance.
- Arson.
- Kidnapping or hostage taking.
- 10. Rape or aggravated sexual abuse.
- 11. Assault with intent to kill.
- 12. Robbery.
- 13. Fraudulent entry into a seaport as described in 18 U.S.C. 1036, or a comparable State law.
- 14. Violations of the Racketeer Influenced and Corrupt Organizations Act under 18 U.S.C. 1961, et seq., or a comparable state law, other than any permanently disqualifying offenses.
- 15. Voluntary manslaughter.
- 16. Conspiracy or attempt to commit crimes in this section.
- 17. Any offense that is still pending in the courts (without official legal disposition) that will disqualify the individual if they are convicted.

The term conviction includes being found guilty, pleading guilty, pleading no contest, or being found guilty by reason of insanity.

This section sets forth minimum standards Contractors must uphold through their background checking process, when assigning employees to work on an MTS contract. These disqualifying criteria are minimum standards to promote public safety/security. Contractor may choose to exceed these standards and is otherwise unrestricted in its employment decisions. Contractor may choose to employ individuals who do not meet these standards, as long as they are not assigned to work under this Agreement or on MTS property. Questions regarding the application of MTS's background checking standards should be directed to the MTS Manager of Human Resources.

Upon request of MTS, Contractor will provide sufficient documentation for MTS to audit Contractor's compliance with MTS's background checking standards. MTS reserves the right to delay provision of MTS ID Cards until contractor documents completion of appropriate background checks on employee(s) for whom Contractor is requesting MTS ID Card(s). MTS's oversight of Contractor's background checking process is not intended to replace Contractors judgement or ability to manage its workforce and operation. MTS's oversight, or lack thereof, shall not limit Contractor's liabilities and/or obligations as set forth in this Agreement.

MTS reserves the right to suspend or revoke the MTS ID Cards of Contractor's employees at its sole and absolute discretion.

If, with MTS's consent, Contractor subcontracts all or part of the services within this Agreement, Contractor will remain directly responsible and liable for ensuring subcontractor(s) adhere to MTS background checking and ID Card standards.

If MTS determines that Contractor has breached its obligations as defined in this section, MTS may immediately terminate this Agreement by providing written notice to Contractor. If this Agreement is terminated, Contractor will be paid its costs for work performed up to the time of termination.

7.44. ROADWAY WORKERS PROTECTION (RWP) TRAINING

Prior to entering the MTS railroad operating corridor, all workers of Contractor, sub-Contractors, and any other third-party contractor under Contractor's control working on MTS property shall have taken and passed a four (4) hour "Roadway Workers Protection" training course as required by the Federal Railroad Administration (FRA) California Public Utilities Commission (CPUC). Training courses are valid for one year from date issued. Contractor should allow at least two weeks to schedule training prior to commencement of services on the right of way (ROW). Registration for the course can be found online at: http://www.sdmts.com/Business/RAILSAFETYTRAINING.htm. Any costs related to RWP training courses shall be at the sole expense of the Contractor.

7.45. FLAGGING

Any work within fifteen (15) feet of active rail, or as otherwise identified by MTS, shall require a MTS flagger. An MTS Flagger Request form must be submitted to Flagger Request@sdmts.com no later than 72 hours prior to the commencement of the work. The MTS Flagger Request shall include: the specific location, time(s) and date(s) for when a MTS flagger(s) will be necessary. The MTS Flagger will be provided at the expense of the party requesting the work. The requester will be responsible to contact SDTI Assignment Office at (619) 595-4956 no later than 24 hours prior to beginning of work for all cancellations and may be subject to SDTI labor reporting costs.

7.46. [NOT APPLICABLE] SIGNALING

7.47. COVENANT AGAINST CONTINGENT FEES

Contractor warrants that it has not employed or retained any company or person, other than a bona fide employee working for the Contractor, to solicit or secure this Agreement, and that she or he has not agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or formation of this Agreement. For breach or violation of this warranty, MTS shall have the right to annul this Agreement without liability or, at its discretion, to deduct from the Agreement a price or consideration, or otherwise recover the full amount of such fee, percentage, brokerage fee, gift, or contingent fee.

7.48. CALIFORNIA POLITICAL REFORM ACT

Contractor acknowledges that the California Political Reform Act ("Act"), Government Code section 81000 et seq., provides that Contractors hired by a public agency, such as MTS, may be deemed to be a "public official" subject to the Act if the Contractor advises MTS on decisions or actions to be taken by MTS. The Act requires such public officials to disqualify themselves from participating in any way in such decisions if they have any one of several specified "conflicts of interest" relating to the decision. To the extent the Act applies to Contractor, Contractor shall abide by the Act and the conflict of interest restrictions imposed on public officials by Government Code section 1090 et seq.

7.49. WATER QUALITY MANAGEMENT AND COMPLIANCE

 Contractor must recover and legally dispose of all wastewater created while providing Services. Contractor assumes any and all risks and liabilities arising from the failure to properly recover and legally dispose of wastewater. Contractor must implement best management practices set forth in any stormwater pollution prevention plan relevant to the provision of the Services.

- 2. Compliance with Water Quality Laws, Ordinances and Regulations. Contractor shall keep itself and all subcontractors, staff, and employees fully informed of and in compliance with all local, state and federal laws, rules and regulations that may impact, or be implicated by the performance of the Services including, without limitation, all applicable provisions of the Federal Water Pollution Control Act (33 U.S.C. § 1251, et seq.); the California Porter-Cologne Water Quality Control Act (Water Code § 13000 et seq.); and any and all regulations, policies, or permits issued pursuant to any such authority. Contractor shall additionally comply with the lawful requirements of the San Diego Regional Water Quality Control Board, any municipality, drainage district, or other local agency with jurisdiction over the location where the Services are to be conducted, regulating water quality and storm water discharges and shall implement best management practices, consistent with the requirements of any board, municipality, drainage district or other local agency appropriate for the control of discharges related to the Services.
- 3. Standard of Care. Contractor warrants that all employees and subcontractors shall have sufficient skill and experience to perform the work assigned to them without impacting water quality in violation of the laws, regulations and policies described in this Section. Contractor further warrants that it, its employees and subcontractors have or will receive adequate training, as determined by MTS, regarding these requirements as they may relate to the Services.
- 4. Liability for Non-compliance.

A. Indemnity:

Failure to comply with laws, regulations, and ordinances listed in this Section may constitute a violation of federal and state law. Notwithstanding any other indemnity contained in this Agreement, Contractor agrees to indemnify, defend and hold harmless MTS, its officials, officers, agents, employees and authorized volunteers from and against any and all claims, demands, losses or liabilities of any kind or nature which MTS, its officials, officers, agents, employees and authorized volunteers may sustain or incur for noncompliance with the laws, regulations, and ordinances listed above, arising out of or in connection with the Services, except for liability resulting from the sole established negligence, willful misconduct or active negligence of MTS, its officials, officers, agents, employees or authorized volunteers. Contractor is solely liable for any administrative or civil enforcement action arising from Contractor's failure to comply with the laws, regulations, and ordinances listed in this Section and must pay any monetary penalty, fine, or damages associated with such action.

B. Defense

MTS reserves the right to defend any enforcement action or civil action brought against MTS for Contractor's failure to comply with any applicable water quality law, regulation, or policy. Contractor hereby agrees to be bound by, and to reimburse MTS for the costs associated with, any settlement reached between MTS and the relevant enforcement entity.

C. Damages

MTS may seek damages from Contractor for delay in completing the Services caused by Contractor's failure to comply with the laws, regulations and policies described in this Section, or any other relevant water quality law, regulation, or policy.

7.50. CONFLICT OF INTEREST LAWS FOR MTS CONSULTANT

A. <u>Background & Applicability to Consultants</u>

These procedures are intended to assist MTS consultants with complying with conflict of interest language in their contract with MTS. Pursuant to state regulations enforced by the California Fair Political Practices Commission (FPPC), the MTS Standard Agreement/Standard Conditions requires consultant employees to file a disclosure of financial interests known as a Form 700 if required by the MTS Conflict of Interest Code. The relevant Standard Agreement/Standard Conditions language. Additional information on Form 700s can be found on the FPPC website.

B. Definitions and Persons Covered by the MTS Conflict of Interest Code

MTS has adopted a Conflict of Interest Code for its officers, employees and consultants pursuant to <u>Government Code § 87300</u> *et seq.* According to the law, an agency's Conflict of Interest Code must list those employees, officers or consultants who are required to file a Form 700. The persons identified in the Conflict of Interest Code are designated as "Conflict Code Filers" because they "participate in the making of governmental decisions" that foreseeably could have a material financial effect on any of their economic interests. (2 Cal. Code of Regulations Section 18730.) MTS's Conflict of Interest Code can be found on the <u>MTS website</u>. In general, a Form 700 discloses the types of interests in real property, investments, business positions, and sources of income and gifts that could potentially affect the Conflict Code Filer. The Form 700 serves as a reminder to the Conflict Code Filer and the public of the financial interest decision-makers need to consider as they could cause an actual, potential or perceived conflict of interest.

"Participating in making a governmental decision" includes negotiating, providing advice by way of research, investigation, or preparation of reports or analyses for the MTS decision-maker, if these functions are performed without significant intervening review. MTS consultants who, pursuant to a contract with MTS, perform the same functions that would otherwise be performed by MTS employees by carrying out functions such as project management and oversight decisions (including recommendations that are likely to be approved by a MTS employee without significant intervening review); preparing contract scopes of work, specifications, cost estimates or contract negotiations; crafting evaluation factors to be used in a procurement, or deciding whether the policies, standards, or guidelines for MTS have been met, are considered to have "project manager responsibilities" that would otherwise be carried out by a MTS employee and are therefore required to fill out and submit a Form 700.

A consultant's employee participates in making a governmental decision for MTS when, s/he negotiates without significant and substantive intervening review, with a third party (someone other than their employer or MTS) regarding a governmental or contract decision; or advises or makes recommendations to the MTS decision maker either directly or without significant and substantive intervening review. "Significant and substantive intervening review" means a review of someone else's work during which the reviewer independently verifies the information, recommendation, advice, etc. that constitutes project manager responsibilities that lead to a governmental decision.

Form 700s are public records.

C. Steps for Compliance

Step 1: Identify who on your team will need to fill out a Form 700

The prime consultant will need to identify its own employees and the employees of its subconsultants (the consultant team) who have project manager responsibilities. Keep in mind, however, that even if a person has project manager responsibilities, if someone above that person in the decision-making process, whether a MTS employee or another consultant employee, is a Conflict Code Filer and that person conducts significant and substantive intervening reviews of the decision, recommendation or work in question, then not everyone prior to the Conflict Code Filer in the decision process needs to fill out a Form 700. If a consultant believes a member of its team with project management responsibilities for MTS is going to have his/her work undergo a significant and substantive intervening review by an MTS employee, the consultant must first check with the MTS Clerk of the Board ClerkoftheBoard@sdmts.com to confirm that MTS agrees with this allocation of responsibility.

Step 2: Notify MTS of Consultant's Conflict Code Filers

It is up to the consultant to notify MTS of the names of the individuals on its team (whether prime or subconsultant) who should be Conflict Code Filers based on the parameters provided by MTS above in Section B. Designated persons must file statements of economic interests with MTS when assuming or leaving their position and annually while holding the position. It is important that the consultant maintains a list of its Conflict Code Filers and notify the MTS Clerk of the Board as soon as possible when the Consultant's employees who are performing project management responsibilities for MTS change. Filers must submit their assuming and leaving office form within 30 days and an annual form before April 1st of each year. Consultant employees who have been designated as Conflict Code Filers may not work on MTS projects if they do not have an updated Form 700 on file with MTS.

New Filers/Assuming Office

The consultant will need to notify MTS of its new Conflict Code Filers to the MTS Clerk of the Board by email at ClerkoftheBoard@sdmts.com. As a reminder, the consultant will need to update the filer list of employees throughout the life of the contract as new individuals are identified as Conflict Code Filers for MTS, use the designated consultant form 700 filer contact information form to submit the information for each applicable employee.

B. For Existing Filers:

It is important that the consultant notify MTS when those individuals previously identified as Conflict Code Filers are no longer performing project management responsibilities for MTS. Once an individual is identified as a Conflict Code Filer and completes a Form 700 in the eDisclosure system, they are required by law to continue to complete a Form 700 each year or be subject to fines and penalties by the FPPC. In order to remove a Conflict Code Filer, the consultant must notify MTS of the date the individual stopped performing project management responsibilities for MTS so the individual can complete a Leaving Office Statement. Until a Leaving Office Statement is filed, the individual is still considered a Conflict Code Filer and must continue to file annual statements.

Step 3: Notification by MTS & Establishment of Account with eDisclosure System

Once MTS receives notification by a consultant of a new Conflict Code Filer, the Clerk of the Board will send an email to the individual notifying them of their obligation to complete a Form 700 and what to expect. The Clerk will create an account with the <u>eDisclosure</u> system and the individual will receive instructions about how to complete registration from email <u>MTSClerkoftheBoard@southtechhosting.com</u> (please whitelist this email). Once the account is established, the individual can complete and file their Form 700.

Step 4: Instructions for Completing the Form 700

General instructions for completing a Form 700 can be found on the FPPC website, and clicking on the Form 700 itself. When filling out the Form 700, the financial interests that consultant employees need to report are only those which are listed in disclosure category 1 and 2 of the MTS Conflict of Interest Code.

Questions regarding how to fill out the forms can be answered by calling the <u>FPPC's toll free advice hotline</u> 1-866-ASK-FPPC (1-866-275-3772*1), Monday-Thursday, 9-11:30 a.m.

A. Assuming Office Statement

The first time a consultant employee is asked to complete a Form 700, s/he will complete an Assuming Office Statement. The assuming office statement must be completed no later than 30 days after the date the employee first started performing project management responsibilities for MTS. The reporting period will be the 12 months prior to the date the office was assumed. For example, if a consultant assumed office on 5/1/2019, they will complete the statement disclosing information for the period 5/1/2018-4/30/2019.

B. Annual Statement

Once an individual completes an assuming office statement, they are required to complete an annual statement no later than April 1 of each year. Individuals that do not complete a Form 700 by the deadline may be subject to a fine up to \$5,000 by the FPPC. Typically, reminder notices are sent by email from MTS and the eDisclosure system in January each year.

C. Leaving Office Statement

Once an individual is no longer performing project management responsibilities for MTS, they must complete a Leaving Office Statement within 30 days. To do this, the consultant or individual needs to notify the MTS Clerk of the Board that the individual is no longer performing project management responsibilities for MTS and therefore should no longer be a Conflict Code Filer. The date the employee stopped performing project management responsibilities for MTS will become the leaving office date. When completing a leaving office statement, the individual will disclose its interest for the calendar period leading up to the leaving office date. For example, if an individual leaves office on 5/15/2019, they will complete the statement disclosing information for the period 1/1/2019-5/15/2019. An active email will be provided to the Clerk in order to assure proper filer access.

Step 5: Review of Form 700s

Consultant employees are strongly cautioned not to simply mark the box indicating they have no disclosures to report on the form. Consultant employees always have their own employment income to report and many times have spousal income to report as well. The FPPC has prosecuted and fined persons who have failed to disclose income and gifts.

Form 700s should be used by the consultant to ensure its employees do not have prohibited conflicts. MTS also will use the forms to check whether the assignments given

to consultant employees conflict with reported financial interests. If a conflict is found, the individual will not be permitted to work on the project in a project manager role.

Consultants will need to provide training to their employees who are identified as Conflict Code Filers on how to avoid prohibited conflicts of interest. Information regarding prohibited conflicts can be found here in Sections I, II, III, VII and XIII of the California Attorney General's handbook entitled Conflicts of Interest.



EXHIBIT D FORMS



MTS — MS4 Support And As-Needed BMP Repair and Consulting Services

RETURN THIS FORM WITH YOUR PROPOSAL

CONTACT INFORMATION

Read attached General Provisions carefully. They are a part of your proposal. Unit prices will prevail regardless of extensions submitted by the Proposer.

Company	Information:
---------	--------------

The Official, Legal Name of Proposing Firm:

WSP USA Inc.

Doing Business As:

Not Applicable

Legal Structure (Corp./Partner/Proprietor):

Corporation

Company Mailing Address:

401 B St Ste 1650

	Street	
San Diego	CA	92101
City	State	Zip

Person Authorized to sign:

Patti Boekamp Point of Contact:

Title:

Senior Director | Local Business Leader

E-Mail Address:

Patti.Boekamp@wsp.com

Phone Number:

619-338-9376

Accounts Receivable

Point of Contact:

Jessica Gilbert

Title:

Corporate Cash Supervisor

E-Mail Address:

USAccountsReceivable@wsp.com

Phone Number:

717-859-7590

Labor Compliance

Point of Contact:

Tisha Loyd

Title:

Senior Project Accountant

E-Mail Address:

tisha.loyd@wsp.com

Phone Number:

916-576-2661

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MTS — MS4 Support And As-Needed BMP Repair and Consulting Services

RETURN THIS FORM WITH YOUR BID

Proposer to describe technical services readily available from said representative.

Location of Nearest Technical Service Representative to MTS:

Name:

Richard Bottcher

Telephone:

619-849-5424

Company Mailing Address:

401 B St Suite 1650

Street

San Diego CA 92101
City State Zip





 $$\operatorname{MTS}$ Doc No: PWG367.0-23 MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

V.8



DESIGNATION OF SUBCONTRACTORS

List Subcontractor participants below. If 100% of item is not to be performed or furnished by subcontractor, describe exact portion of item to be performed or furnished by subcontractor. The successful bidder must execute and return this form even if no subcontractor participation will be reported.

	Subcontractor 1				
Company Name:	San Diego Stormwater Solutions				
Contractor License or Certificate Number	N/A				
DBE, DVBE LGBT, MBE, SB, WBE:	N/A				
% of Work:	44%				
Department of Industrial Relations (DIR) Number:	1000059431				
Point of Contact	Gregg Brenner				
Email:	Gregg@sdstormwater.com				
Phone Number:	858-397-1001				
Address:	130 Smilax Road				
	Street				
	San Marcos CA 92069				
Description of Work:	City State Zip				
Perform Maintenance on MTS Treatment BMPs.					



A-362

DBE PROGRAM - INFORMATION FOR MTS'S PROPOSAL LIST

This information will be maintained in MTS's proposer list. The purpose for maintaining a proposer list is to derive data on the relative availability of DBEs in the local market. MTS may use this data in the future to help set MTS's overall DBE participation goals.

INSTRUCTIONS: Each prime contractor and each subcontractor bidding is **required** to complete this form as part of their bid/proposal.

1.	What is your company's name?		WSP USA Inc.		
2.	What is your company's address?		401 B St Ste 1650, San Diego, CA 92101		
3.	What type of work does your company perform? (list NAICS Codes if known)		Engineering Services (NAICS Code: 541330		
	Is your company a certified DBE WBE, DVBE, St	_	DBE DVBE		
LGBT? If yes, please check the applicable bostate the corresponding certification number.	and	MBE SB			
			WBE ☐ LGBT		
5.	How many years has your company been in busine	ess?	89 Years		
6.	What are the annual gross receipts of your comp (please check the applicable bracket)?	any 🔲	Less than \$1,000,000		
			\$1,000,001 - \$15,000,000		
			\$15,000,001 - \$26,290,000*		
			\$26,290,001-\$50,000,000		
			\$50,000,001 - \$100,000,000		
		\boxtimes	Greater than \$100,000,000		
beco	DOT annually decides the amount of average annume a DBE. Currently, if your company in the previous w \$26,290,000, your company may be eligible for DBE	3 fiscal year	ears has had average annual gross receipts		
7. Do you want MTS to provide your company addition guidance on how to become DBE certified?		onal 🔲	Yes		
		$\overline{\mathbf{X}}$	No		
	ACKNOWLEDGED	AND AG	REED		
(0	SUBCONTRACTOR Copy this form if needed for additional subcontractors)		PRIME CONTRACTOR		
		Print Name	e: Patti Boekamp		
	Title :	Title	e: _Senior Director Local Business Leader		
Signature:		Signature	re: But		
	Date:	Date	te: June 16th, 2023		

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MTS Doc No: PWG367.0-23 MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES

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DBE PROGRAM - INFORMATION FOR MTS'S PROPOSAL LIST

This information will be maintained in MTS's proposer list. The purpose for maintaining a proposer list is to derive data on the relative availability of DBEs in the local market. MTS may use this data in the future to help set MTS's overall DBE participation goals.

INSTRUCTIONS: Each prime contractor and each subcontractor bidding is **required** to complete this form as part of their bid/proposal.

1.	What is your company's name?		SAL DECL S	CALLANT SALVER CA	
2.	What is your company's address?	1	30 CALELONG 0	RMWATER SOLUTES:	
3.	What type of work does your company perform ? (list NAICS Codes if known)	,	WALLAX KNAD	SAL MAWS, CA 920	
	Is your company a certified DBE WBE, DVBE,	SB or 🔲	DBE	DVBE	
LGBT? If yes, please check the applicable bo state the corresponding certification number.	x and	MBE	□ SB		
			WBE	☐ LGBT	
5.	How many years has your company been in busing	ness?	EVEARS		
6. What are the annual gross receipts of your con		npany 🔲			
	(please check the applicable bracket)?	×	\$1,000,001 - \$15,000,000		
			\$15,000,001 - \$26	3,290,000*	
			\$26,290,001-\$50	0,000,000	
			\$50,000,001 - \$10	00,000,000	
			Greater than \$100	0,000,000	
DCCO	DOT annually decides the amount of average ann me a DBE. Currently, if your company in the previou v \$26,290,000, your company may be eligible for DB	s 3 fiscal ve	are has had average of	nave to be eligible to annual gross receipts	
7.	Do you want MTS to provide your company addit		Yes		
	guidance on how to become DBE certified?		No		
	ACKNOWLEDGE	O AND AG	REED		
(C	SUBCONTRACTOR opy this form if needed for additional subcontractors)		PRIME CONTRA	CTOR	
Prin	t Name: GREGG BRENNER	Print Name	e: Patti Boekamp	and the second	
C:	Title: PRO STOOM	Title	: Senior Director	Local Business Leader	
Si	gnature:	Signature	: Od Box	8	
	Date: \$ 23 23	Date	e: 06/16/2023		

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CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER INELIGIBLE AND VOLUNTARY EXCLUSIONS LOWER THAN TIER COVERED TRANSACTIONS

CONTRACTOR AND SUBCONTRACTOR'S STATEMENT OF ELIGIBILITY

(Provide one completed Form for the Prime Contractor and any Subcontractors)

The prime/subcontractor certifies or affirms the truthfulness and accuracy of the contents of the statements submitted on or with this certification.

QUESTIONNAIRE

resolution) with this form.

Has the Contractor, or any officer, principal, affiliates or employee of the Contractor ever been debarred, suspended, proposed for debarment, declared ineligible or otherwise prevented from bidding on, or completing a federal, state, or local government project?

Yes

No

X

If the answer is yes, or where the prime/subcontractor is unable to certify any of the statements in the above certifications, such prime/subcontractor shall attach an explanation (i.e. date, background,

<u>Note:</u> Failure to provide this form at the time of Bid/Proposal will not result in a finding of a non-responsive bid/proposal. Submittal of this form for The Prime Contractor and all Subcontractors is required for a Proposer to be deemed "Responsible." MTS encourages Proposers to complete and submit all forms at the time of bid/proposal.

SUBCONTRACTOR (Copy this form if needed for additional subcontraction)	tors) PRIM	ME CONTRACTOR
Business Name:	Business Name:	WSP USA Inc.
License No. (if applicable):	License No. (if applicable):	B1992001908
DUNS No.:	DUNS No.:	05-666-8700
ACKNOWL	EDGED AND AGREED	
Print Name:	Print Name:	Patti Boekamp
Title:	Title:	Senior Director Local Business Leader
Signature:	Signature:	Oli Bury
Date:	Date:	June 16th, 2023

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MTS -MS4 Support And As-Needed BMP Repair and Consulting Services

RETURN THIS FORM WITH YOUR BID

CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER **INELIGIBLE AND VOLUNTARY EXCLUSIONS LOWER THAN TIER COVERED TRANSACTIONS**

CONTRACTOR AND SUBCONTRACTOR'S STATEMENT OF ELIGIBILITY

(Provide one completed Form for the Prime Contractor and any Subcontractors)

The prime/subcontractor certifies or affirms the truthfulness and accuracy of the contents of the statements submitted on or with this certification.

QUESTIONNAIRE

CUDOCNITO

Has the Contractor, or any officer, principal, affiliates or employee of the Contractor ever been debarred, suspended, proposed for debarment, declared ineligible or otherwise prevented from bidding on, or completing a federal, state, or local government project?

Yes

No

If the answer is yes, or where the prime/subcontractor is unable to certify any of the statements in the above certifications, such prime/subcontractor shall attach an explanation (i.e. date, background, resolution) with this form.

Note: Failure to provide this form at the time of Bid/Proposal will not result in a finding of a non-responsive bid/proposal. Submittal of this form for The Prime Contractor and all Subcontractors is required for a Proposer to be deemed "Responsible." MTS encourages Proposers to complete and submit all forms at the time of bid/proposal.

(Copy this form if needed for additional subcontractors)	PRIME CONTRACTOR		
Business Name: SA DIGG STOCMWATCH License No.	Business Name:	WSP USA Inc.	
License No. (if applicable):	License No. (if applicable):	B1992001908	
DUNS No.:	DUNS No.:	05-666-8700	
ACKNOWLEDGED	AND AGREED		
Print Name: 6RE66 BLENNOL Title: PRSS DOWN	Print Name:	Patti Boekamp	
Title: PRSSIDONT	Title:	Senior Director Local	Business Leade
Signature:	Signature:	Da Bery	
Date: 5/23/23	Date:	06/16/2023	

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MTS — MS4 Support And As-Needed BMP Repair and Consulting Services

RETURN THIS FORM WITH YOUR BID

EQUAL OPPORTUNITY PROGRAM WORKFORCE REPORT

Metropolitan Transit System (MTS) enforces an Equal Opportunity (EEO) program established under MTS policies and procedures No. 25. This program prohibits discrimination in employment and requires MTS Contractors to be equal opportunity employers. You may submit a copy of the Employer Information Report, EEO-1, in lieu of the **Equal Opportunity Program Workforce Report Continued Form**. The undersigned hereby certifies that the foregoing data contained herein is true and correct:

COMPLETE ALL SECTIONS OF THIS FORM:

1. The Official, Legal Name of Proposing Firm: WSP USA Inc.

2. Doing Business As: Not Applicable.

3. Legal Structure (Corp.)Partner/Proprietor):

4. Address of Establishment in San Diego County: 401 B Street, Suite 1650

Street

San Diego CA 92101

City State Zip

Not Applicable to WSP USA Inc.

Street

 If there is no office in San Diego County, or if there are less than 15 employees in that office, include an address for your regional office that will oversee the work under MTS' contract:

City State Zip

Employment Data - Include the employees located in San Diego County only, unless your firm employs fewer than fifteen (15) people locally. In the event, you should list the workforce of the regional office that will oversee the work under MTS' contract. Report all permanent full-time and part-time employees including apprentices and on-the-job trainees. Blank spaces will be considered as zeros

ACKNOWLEDGED AND AGREED

6. Name, Address, and Phone Number of Person to Contact Regarding this Report:

Name of Signee: Patti Boekamp

Title:

Senior Director | Local Business Leader

Phone Number

Address:

401 B street Suite 1650
Street
San Diego CA 92101
City State Zip

Name of Signee:

Authorized Signature:

Patti Boekamp

Date: June 16th, 2023

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MTS — MS4 Support And As-Needed BMP Repair and Consulting Services

RETURN THIS FORM WITH YOUR BID

EQUAL OPPORTUNITY PROGRAM WORKFORCE REPORT CONTINUED

CATEGORY	Afri	can rican	Hisp	panic		r Pacific Inder		tive rican	Oti	her	Overal	Total
- 8	M	F	M	F	M	F	M	F	M	F	M	F
Executive/Managerial	2		5	4	10	2	_		60	26	77	32
Engineers/Architects/ Surveyors		Q = 0		G)!		(); ();						
Professionals (N.E.C.)		1	12	6	12	9			69	68	93	84
Technicians		1	3	2	3	4		10 10	39	15	45	22
Sales												
Administrative Support		2		2	2	4		10 - 32	3	21	5	29
Protective Services		8		90			3			8		
Services (N.E.C.)		85 B								7		
Craft Workers (Skilled)		20.										
Machine Operators, Assemblers & Inspectors												
Transportation and Material Moving		86		1		3						
Laborers (Unskilled)												
FOR EACH COLUMN	2	4	20	14	27	19	0	0	171	130	220	167

Indicate by gender and ethnic code the number of the above workforce, which are persons with disabilities:

							23	100			2.5	Sec. 12
DISABLED	0	- 1	1	0	0	1	0	0	12	6	13	8



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MTS Doc No: PWG367.0-23
MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES





I/We hereby represent, acknowledge, and agree as follows:

MTS is a California public agency established by California Public Utilities Code, Section 120000. et. 1 seq., and is subject to the California Public Records Act (Government Code sec. 6250 et seq.) which provides generally that all records relating to a public agency's business are open to public inspection unless exempted from disclosure by law.

RETURN THIS FORM WITH YOUR PROPOSAL

- 2. The proposal I/we have submitted to MTS is open to public inspection under CPRA unless it is exempted from disclosure by law.
- 3. To the extent the proposal includes materials that I/we believe are exempt from disclosure under CPRA, I/we understand that I/we must provide a letter identifying the materials that I/we believe are exempt from disclosure and explaining the basis for exemption.
- Any materials not identified as exempt from disclosure are open to public inspection, and I/we waive 4. any right to subsequently claim exemption from disclosure for such materials.
- MTS at all times retains the right to make the final determination regarding what, if any, portion of a 5. proposal is subject to disclosure under CPRA.
- 6. Use of headers/footers bearing designations such as "confidential", "proprietary", or "trade secret" on all or nearly all of a proposal which would prohibit or limit public inspection is not acceptable and may deem the proposal non-responsive and may be rejected; labeling a page as such does not prohibit MTS from disclosing the page in response to a Public Records Act (PRA) response or in the ordinary cause of business if MTS concludes it is obligated to so by applicable law.
- To defend and indemnify MTS in any action on a PRA request for any of the contents of a Proposal 7. marked TRADE SECRET, CONFIDENTIAL or PROPRIETARY.
- Marking a document as "trade secret", "confidential" or "proprietary" without the express written 8. permission of MTS does not exempt a document from disclosure to third parties under state or federal law, or in the normal course of MTS's business operations. MTS has no obligation to get a respondent's permission before producing such documents.

The bid I/we have submitted (check one of the following) materials that we believe are exempt from disclosure under CPRA.	INCLUDES	✓
that we believe are exempt from disclosure drider of TVA.	DOES NOT INCLUDE	

ACKNOWLEDGED AND AGREED

Company Name:	WSP USA Inc.
Title:	Patti Boekamp - Senior Director Local Business Leade
Signature:	Ode Barry
Date:	June 16, 2023

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MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES



MTS Doc No: PWG367.0-23

NONCOLLUSION DECLARATION

TO BE EXECUTED BY PROPOSER AND SUBMITTED WITH OFFER

(23 U.S.C. § 112(c) and California Public Contract Code § 7106)

The undersigned declares:

I am the Principal-in-Charge of WSP USA Inc. , the party making the foregoing offer.

The offer is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The offer is genuine and not collusive or sham. The proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham offer. The proposer has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham offer, or to refrain from submitting an offer. The proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the offer price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the offer price, or of that of any other proposer. All statements contained in the offer are true. The proposer has not, directly or indirectly, submitted his or her offer price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, offer depository, or to any member or agent thereof, to effectuate a collusive or sham offer, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of the proposer that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the proposer.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on $\underline{\text{June 16th, 2023}}$ (date), at $\underline{\text{San Diego}}$ (city), California (state).

ACKNOWLEDGED AND AGREED

Name of Contractor: WSP USA Inc.

Signature:

Date: June 16, 2023

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MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES



X

RETURN THIS FORM WITH YOUR PROPOSAL

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code Section 2200 et seg.)

As required by California Public Contract Code Section 2204, the Contractor certifies subject to penalty for perjury that the option checked below relating to the Contractor's status in regard to the Iran Contracting Act of 2010 (Public Contract Code Section 2200 et seg.) is true and correct:

- 1. The Contractor is not:
 - identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203; or
 - a financial institution that extends, for 45 days or more, credit in the amount of \$20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code Section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.
- 2. MTS has exempted the Contractor from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, MTS will be unable to obtain the goods and/or services to be provided pursuant to the Contract.
- 3. The amount of the Contract payable to the Contractor for the Project does not exceed \$1.000.000.

Note: In accordance with Public Contract Code Section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of \$250,000 or twice the Contract amount, termination of the Contract and/or ineligibility to bid on contracts for three years.

ACKNOWLEDGED AND AGREED

Company Name: WSP USA Inc.

> Title: Patti Boekamp - Senior Director | Local Business Leader

Signature:

Date: June 16, 2023

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SAFETY DEPARTMENT STANDARD OPERATING PROCEDURES

FOR CONTRACTORS SAFETY AND HEALTH REQUIREMENTS

(SAF 016-03)

January 2003

SAF 016-03

Purpose: To establish environmental, safety and health requirements for the San Diego Metropolitan Transit System (MTS) Contractors.

Background: MTS is committed in providing and maintaining a safe work place, safe plant and equipment, and a safe and competent workforce as required by legislation and best industrial practice for our employees, customers, visitors, and general public.

To support this commitment, we require our Contractors to provide adequate leadership and safety training for their employees and require the same of their sub-Contractors.

Objectives: This SOP requires all MTS Contractors to:

- Comply with the environmental, safety and health requirements of the contract as per FTA, OSHA, Cal OSHA, and San Diego Metropolitan Transit System (MTS).
- Assign a competent person the responsibility for the implementation of the safety regulations, personal protective equipment usage, and compliance with hazardous materials/environmental policies, and drug and alcohol program.
- Ensure that all Contractor employees and sub-Contractors are trained and educated in safety and support on-site Contractors on safe work and MTS safety programs.
- Sign the MTS Contractual Agreement with Outside Agencies (Safety Rules).

MTS Representatives are required to:

- Pro-actively monitor the Contractors' workplace to identify all occupational health and safety hazards – Departmental/Safety representative.
- Safety and contract requirements compliance Audit/Inspection conducted and documented (schedule and spot check) by Quality Assurance Department.

NOTE: Copies of both MTS Illness and Injury Prevention Program (IIPP) and the MTS Maintenance Department Code of Safe Practices are available in the Safety Department's office. MTS handles the Engineering/Construction site safety plans.



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SAFETY DEPARTMENT SAFETY RULES

MTS Contractual Agreement with Outside Agencies

Work on MTS Premises

A. Safety Rules

These safety rules apply specifically to Contractors, Contractor's employees, or sub-Contractors working on Metropolitan Transit System (MTS) property. Any loss or damage, including death, resulting from Contractors, Contractor's employees, or subcontractor's negligence shall hold MTS management and employees harmless from any such loss. No work shall be performed on MTS property without approval and proper permits, when required. Requirements:

- 1. Comply with Cal OSHA, state, local and MTS' safety, and environmental policies.
- 2. Observe and follow all posted facilities safety regulations.
- 3. Use the proper Personal Protective Equipment required for the job.
- No illegal drugs or alcohol will be consumed on site or off the premises while working for MTS.
- B. Use of Tools and Equipment (when required)
 - Required Tools and Equipment must be in good condition, safe for use and calibrated (if required).
 - 2. Follow safe engineering work practices/procedures.
 - 3. Wear the required personal protective equipment when using tools.
- C. Machinery and Vehicles (when required)
 - 1. Do not attempt to operate MTS machinery or equipment without special permission.
 - Only licensed operators may operate Forklift Trucks and other equipment on MTS occupied spaces.
- D. <u>Contractor Requirements (when required)</u>
 - 1. Valid Contractor's license number.

ACKNOWLEDGED AND AGREED

Company Name: WSP USA Inc.

Print Name: Patti Boekamp

Title: C. D.

Senior Director | Local Business Leader

Signature:

Date: June 16, 2023

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MTS Doc No: PWG367.0-23 MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES



PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATE FORM

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to submit a proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/PublicWorks.html for additional information.

No proposal will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Proposer hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Bidder further acknowledges:

- Proposer shall maintain a current DIR registration for the duration of the project.
- Proposer shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
- Failure to submit this form or comply with any of the above requirements may result in a finding that the proposal is non-responsive.

PRIME CONTRACTOR

Business Name: $WSP\ USA\ Inc.$

Registration No.

(if applicable): 1000012182

DUNS No.: 05-666-8700

Company Name: WSP USA Inc.

Print Name: Patti Boekamp

> Title: Senior Director | Local Business Leader

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MTS Doc No: PWG367.0-23 MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES



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MTS CONSULTANT FORM 700 FILER CONTACT INFORMATION

MTS CONSULTANT FORM 700 FILER CONTACT INFORMATION

Include contractor and subcontractor contact information along with the date the individual began or ended performing project management responsibilities. Refer to the *conflict of interest laws for MTS consultant* clause for additional information. Return this form clerkoftheboard@sdmts.com.

COPY THIS FORM IF NEEDED FOR ADDITIONAL ENTRIES.

Contract No.: MTS DOC. NO. PWG367.	Contract Name MS4 Support and As-Needed BMP Repair and Consulting Services				
	700 FORM FILER				
Filer's Full Legal Name:	Patti Boekamp				
Title:	Senior Director Local Business Leader				
E-Mail Address:	Patti.Boekamp@wsp.com 619-338-9376				
Phone Number:					
Address:	401 B St. Suite 1650 San Diego, CA 92101				
Company Name:	WSP USA Inc.				
Assuming Office Effective Date:	TBD				
	Prime Contractor				
	□ Subconsultant				

	700 FORM FILER
Filer's Full Legal Name:	Veronica Seyde
Title:	Project Manager
E-Mail Address:	Veronica.Seyde@wsp.com
Phone Number:	949-637-8912
Address:	1100 W. Town & Country Rd, Suite 200
Company Name:	WSP USA Inc.
Assuming Office Effective Date:	TBD
(opiniani stati date)	
	✓ Prime Contractor
	Subconsultant

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MTS Doc No: PWG367.0-23 MS4 SUPPORT AND AS-NEEDED BMP REPAIR AND CONSULTING SERVICES



EXHIBIT F
POLICY 44C TRAVEL GUIDELINES FOR CONTRACTORS





Travel Guidelines Applicable to MTS Contractors No. 44-C

SUBJECT:

TRAVEL EXPENSE GUIDELINES APPLICABLE TO MTS CONTRACTORS

PURPOSE:

To provide travel expense guidelines for MTS Contractors in accordance with MTS

policies.

GUIDLINE:

- 44.1 Contractors. This policy applies to all MTS Contractors and their subcontractors or authorized agents when travel expenses are stated as a line item with a prospective or current Contractors' quote, bid, proposal, or other offering. These guidelines are not intended to imply or authorize additional travel related not expressly authorized in a contract with MTS. The following expense guidelines apply to any requests for travel reimbursement submitted to MTS with a Contractor's invoice. All travel related expenses intended to be invoiced to MTS should have written approval or agreement with MTS prior to incurring such expenses.
- 44.2 Expense Report. Invoices including requests for travel reimbursement shall include an expense report for the travel expenses incurred and billed to MTS. All expenses should be itemized, including items the Contractor may have paid for in advance (e.g., airfare, or other travel expenses) so that the report provides a complete record of all expenses.
- 44.3 Receipts. Itemized receipts for expenditures must be attached to the Expense Report for all expenses where a receipt is practically attainable (mandatory, unless a written satisfactory explanation is provided for expenses in excess of \$10). Such written explanations may be subject to review and approval of MTS. Hotel charges must be evidenced by an itemized hotel bill. A credit card receipt is not sufficient.
- 44.4 The following expenditure guidelines should be observed as upper limits unless particular circumstances reasonably dictate otherwise, and prior MTS approval is obtained:
 - a. <u>Upper Limits</u>. Upper limits for meals, hotels, and similar costs will be updated annually (Exhibit A, Annual Travel Cost Rates). The same rates apply to MTS employee travel



- b. <u>Air Travel</u>. Air travel is to be coach class for the most direct route. Travelers are encouraged to take advantage of the minimum 14-day advance ticket pricing.
- c. <u>Personal Auto Use</u>. In the event that a private auto is used for the trip, mileage will be paid in accordance with the current IRS Mileage Reimbursement Rates. Maximum reimbursement shall not exceed the cost of a comparable coach airfare to the same location.
- d. <u>Ground Transportation</u>. Contractors are encouraged to utilize public transportation where available.
- e. <u>Parking</u>. MTS will reimburse the lesser of the parking cost for a personal auto left at the airport or the cost of a shuttle service or cab to and from the airport.
- f. Rental Car. In the event a rental car is required, MTS will only reimburse for the least expensive compact-size vehicle. MTS will not reimburse for rental car insurance coverage.
- g. Meals (While in Travel Status). Meals, including tip, shall generally average no more than the maximum rate approved and published annually in Exhibit A. **Alcohol consumed with a meal is not reimbursable.** The amount per day applies to each 24-hour day of travel.
- h. <u>Hotel</u>. Travelers will be reimbursed for the cost of a moderate and reasonably priced single-occupancy hotel room. The maximum reimbursement is limited to the rate approved and published annually in Exhibit A.
- p. <u>Cancellation Penalties</u>. In the event a Contractor representative is unable to travel and nonrefundable travel payments have been made, the Contractor is responsible for all prepaid deposits or cancellation penalties for airfare, hotel deposit, or any other such items, unless the inability to travel/attend is the result of a late cancellation or schedule change by MTS.
- q. <u>Nonallowable Expenses</u>. MTS will not provide any reimbursement for personal entertainment expenses, alcoholic beverages, travel expenses for family members, movies in hotels, personal items, charitable contributions, air travel insurance, or any other expenses not deemed necessary for business purposes.

MTS will not provide reimbursement for expenses incurred for the purpose of attending political events. An event shall be considered "political" if it is held for the purpose of supporting, opposing, or raising money to support or oppose any candidate, ballot measure, or political party. MTS will not provide any reimbursement for expenses incurred with any private club that discriminates on the basis of race, gender, religion, sexual orientation, or other invidious criteria in its membership policy.

EXHIBIT A

ANNUAL TRAVEL COST RATES CALENDAR YEAR 2023

Hotel Maximum (quoted price – not including taxes or fees)

Small / Medium U.S. Cities \$170.00 Large U.S. Cities / International \$220.00

Average Daily Meal Maximum

Small / Medium U.S. Cities \$65.00 Large U.S. Cities / International \$80.00

Mileage Reimbursement Rate

As set by the IRS, effective January 1, 2023 per mile \$0.655

NOTES:

- 1. These are maximum rates. A higher cap may be obtained if pre-authorized by the CEO. Rates must be reasonable and necessary under the circumstances and will customarily be lower.
- 2. Meal caps are detailed out below, with an overall daily cap of \$65.00 for Small / Medium U.S. Cities and \$80.00 for Large U.S. Cities / International.

Breakfast - \$20.00 Lunch - \$25.00 Dinner - \$50.00

- 3. If a conference registration fee covers meals, employees are to participate in those meals.
- 4. Small / Medium U.S. Cities are defined for this rate structure as those with less than 1 million persons in the metropolitan area.
 - Large U.S. Cities are defined for this rate structure as those with more than 1 million persons in the metropolitan area.
- 5. The Mileage Rate is directly tied to the rate set by the IRS and will be revised more frequently than annually if done so by the IRS.

POLICY.44.TRAVEL EXPENSE POLICY Attachments: Annual Travel Cost Rates Original Guideline approved on January 13,2022. Revised on January 10,2023



Agenda Item No. 13

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Light Rail Vehicle (LRV) Tire Kits - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. L1648.0-23 (in substantially the same format as Attachment A) with Penn Machine, in the amount of \$5,142,681.23 for LRV Tire Kits.

Budget Impact

The total cost for this project is estimated to be \$5,142,681.23. The project will be funded by the Light Rail Vehicle Maintenance Operating Budget 350016-545100.

DISCUSSION:

San Diego Trolley Inc. (SDTI) will need approximately 1,350 tire kits to support its S70 light rail maintenance and repair programs over the next five (5) years. The tire kits must meet all technical requirements and specifications as outlined by the project manager.

San Diego Metropolitan Transit System (MTS) Policy No. 52, "Procurement of Goods and Services", requires a formal competitive process for procurements exceeding \$150,000.

On July 12, 2023, MTS solicited an Invitation for Bids (IFB) for LRV Tire Kits, for a five (5) year base contract period. MTS received two (2) bids by the due date of August 4, 2023. The bids results were as follows (tax included):

LRV Tire Kits							
COMPANY NAME	BID AMOUNT	Meets Buy America Requirements	Classification				
Siemens Mobility	\$5,429,242.35	Υ	N/A				
Penn Machine	\$5,142,681.23	Υ	N/A				



Agenda Item No. 13 September 14, 2023 Page 2 of 2

Penn Machine was found to be the lowest responsive and responsible bidder at \$5,142,681.23 (tax included) for the entire five (5) year contract period. Staff determined Penn's bid to be fair and reasonable based on a comparison of all bids.

Therefore, staff recommends that the MTS Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. L1648.0-23 (in substantially the same format as Attachment A) with Penn Machine, in the amount of \$5,142,681.23 for LRV Tire Kits.

/S/ Sharon Cooney

Sharon Cooney
Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachments: A. Draft Agreement MTS Doc. No. L1648.0-23

B. Scope of WorkC. Bid Form



STANDARD AGREEMENT

FOR

MTS DOC. NO. L1648.0-23

LIGHT RAIL VEHICLE (LRV) TIRE KITS

THIS AGREEMENT is entered into this 1st day of October, 2023 in the State of California by and between San Diego Metropolitan Transit System ("MTS"), a California public agency, and the following, hereinafter referred to as "Contractor:"

Name: Penn Machine Company	<i>'</i>	Address:	106 Station S	treet		
			Johnstown,	PA	15905	
Form of Business: <u>LLC</u>			City	State	Zip	
		Email:	jwhaley@pen	<u>ınmach.c</u>	<u>om</u>	
Telephone: (814) 288-1547 ext.	221					
Authorized person to sign						
contracts	Judith L. W	/haley	C	ontroller		
	Name	Э	Title			
Specification (Exhibit A), Contractor's Agreement, including Standard Cond(Exhibit E). The contract term is for up to (5) year	ditions (Exhibit C	C), Federal F	Requirements (E	Exhibit D),	and Forms	
Payment terms shall be net 30 days \$5,142,681.23 without the express w	from invoice dat	e. The total				
SAN DIEGO METROPOLITAN TRA	ANSIT SYSTEM	Р	ENN MACHINE	COMPAN	ΙΥ	
Ву:						
Sharon Cooney, Chief Execut	ive Officer	Ву				
Approved as to form:		-				
Ву:		Title:				
Karen Landers, General C	counsel					
		•				



SCOPE OF WORK/TECHNICAL SPECIFICATIONS

4.1. GENERAL OVERVIEW

San Diego Metropolitan Transit System (MTS) is looking for capable Contracted Suppliers (CS) that are able to provide LRV Tire Kits to support its S70 Light Rail Vehicles (LRV) maintenance.

It is expected that each Supplier will supply only Original Equipment Manufacturer (OEM) parts under this program by sourcing these parts from approved manufacturers.

The minimum technical description provided for all items, under this solicitation, represent MTS's exact requirements. Nothing less than parts described will be accepted, whilst MTS will do its best to provide the most accurate quantity forecast for the duration of this contract. MTS reserves the right to purchase more or less quantities across each item at its sole discretion, depending on actual usage and pricing.

4.2. CONTRACT TERMS

The period of performance under the resultant agreement shall be for a (5) year base period effective approximately October 1, 2023 – September 30, 2028.

4.3. DESCRIPTION AND MINIMUM SPECIFICATION OF MATERIALS

The intent of this section is to ensure MTS receives equipment that is globally proven across same or like service as operated by MTS for each material under this contract that account for existing vehicle loads, dynamics and extended brake and tire life. All LRV Tire Kits shall be compatible with existing installation equipment and manuals. All kits must include the appropriate the necessary shunts and appropriate hardware designed for current capacity.

To be considered service-proven, the following materials and criteria is required:

MTS Stock Code	Material Description	Manufacturer Part Number
70168658	Tires, Tire Kit – SD7, SD8	704702

- A minimum quantity of three thousand (3,000) of the proposed steel forgings, and a
 minimum quantity of 10,000 of both styles of rubber elements must have been operated
 by any global transit agency or other similar agencies for a minimum of three (3) years. In
 addition, the Contractor must have produced at least one thousand (1,000) steel tires for
 these resilient wheel applications and tread designs.
- The CS shall provide steel LRV Tires, which shall be constructed in accordance with the Association of American Railroads (AAR) Standard M107 for a "Class C" Tire; or, ATSM's Standard A551 for a Class DHT Tire. For this procurement, the carbon content shall be limited to 0.72 maximum. An acceptable alternate tire is one made of Excelsior Stahl material, forged to yield a Brinell Hardness of 238-280BHN.

- LRV Tire Kits shall be suitable for mounting with existing PMC/Bochum 2000 equipment. Rubber Blocks shall be in batched sets and included with each kit.
- The CS shall provide spare parts for the kits as identified below in addition to an as need basis. Spare parts shall be subject to the same materials and quality standards as those supplied with complete kits.

LRV Tire Kits shall consist of the following:

Bochum 2000 Wheels –PMC 704702 / PN A3773100

Description	Quantity
Tire	1
Rubber Blocks	2
Socket Head Screws, M8x14, DIN912, GR8.8	12
M-8 Washers, DIN 125-A8.4	12
O-Rings, dia. 2mm x 137mm, 72nbr 872	2
External Shunts Copper	6
10ml Loctite*	.25
Anti-Corrosive Paste*	.25

*Note: One (1) ounce of anti-corrosive paste and 10ml of Loctite, to be provided with each four (4) kits.

Spare Parts shall be available as follows:

Spare Parts OEM (Penn Machine) Part Numbers:

Description	Quantity
LD126349 Q-2L Rubber Block	22
00701578 External Shunt PM-10050	3
00704704 M100 Rubber Block	21
00625663 External Shunt PM-9195	3

The failure to meet any of the above required specifications, may result in the Bidder's proposal being declared non-responsive.

4.4. CERTIFICATION AND TESTS

In all cases, materials must be furnished as specified in the technical specifications with part numbers permanently stamped or etched onto each part. They shall be provided with OEM material certifications and marked in accordance to OEM details and requirements.

Production tests, ultrasonic and Brinell Hardness tests shall be conducted on one-hundred (100%) percent of the LRV tires produced. Each LRV tire shall be stamped with the Brinell Hardness on the tire face.

One (1) LRV Tire Kit of each type shall be mounted on OEM wheel centers. Upon assembly, each LRV tire shall be compliant and fully approved for concentricity and

resistance value not to exceed 0.005 ohm, as measured from the wheel center to the tire flange.

All rubber components shall be guaranteed suitable for installation for a minimum of 2 years from the delivery date to MTS.

For all items provided under this contract, the CS is required to provide all inspections, certifications and test results shall be furnished to the MTS Project Manager for approval prior to shipment.

4.5. ESTIMATED FORECAST

The below forecast is MTS's best estimate of consumption for the duration of the contract.

As all items under this contract are wearable items, usage across each item under the contract may fluctuate and as such, MTS may purchase more or less than the estimated annual contract forecast to an amount not to exceed the aggregated quantity specified under this solicitation for the duration of the contract period.

CS's must ensure all identified parts are shipped out within 24 hours of the receipt of the Purchase Order, thus allowing MTS to minimize our stock holdings and meet the service level requirements of our Customer. The successful CS's shall also assess MTS's consumption analysis and provide feedback and recommendations on how best to optimize inventory management.

(Material Descriptions and Manufacturer Part Numbers are listed in Section 4.3)

Stock Code	2024	2025	2026	2027	2028	Total
70168658	250	250	250	300	300	1,350

4.6. FEDERAL REQUIREMENTS AND REFERENCES

MTS requires all items under this contract to be fully compliant with all Federal Rail Administration (FRA) and California Public Utilities Commission's rail requirements.

The Bidder's attention is directed to the "Buy America" requirements set forth in Section 165 of the Federal Surface Transportation Act of 1982, and the FTA requirements implementing Section 165 (49 C.F.R., part 661).

4.7. PACKAGING

Each LRV Tire Kit shall be stacked and banded on either treated hard wood or plastic pallets and shipped in sets of four (4) matched to within 0.012" diameter and packaged as per the below requirements

All Tire Kits shall be coupled with OEM material certifications, marked in accordance with OEM requirements, and stacked and banded on treated hardwood or plastic pallets in a way that prevents any damage arising from shipment and exposure to natural elements.

4.8. LABELING

Each item is required to have a label across each package containing the following information:

- MTS Purchase Order Reference
- MTS Stock Code
- OEM Part Number
- Part Description
- Serial Number (where applicable)
- Shelf Life Expiry Date (where applicable)
- Quantity
- Unit of Issue

4.9. DAMAGED OR DEFECTIVE ITEMS

All items delivered damaged or with a defect in packaging or manufacturing shall be returned to the CS. The CS shall provide a replacement in full within fifteen (15) business days of the receipt of the defective material. All cost incurred as a result of the return of the defective material and redelivery of the replacement material including but not limited to freight, insurance, re-stocking, and packaging arising from the defective item shall be borne by the CS.

4.10. BID PRICING

Bidders shall use the Bid Forms provided herein. Bidders shall provide pricing for all line items on the bid form, failure to do so may deem your bid non-responsive. All bids shall include all materials, delivery fees, and all applicable taxes required to complete the items as described on the bid forms.

4.11. INVOICES

Invoices must be sent to the MTS Accounting Department, via email, at ap@sdmts.com. All invoices must have the Purchase Order and contract number clearly displayed to ensure timely payment. MTS will not pay on packing slips, receiving documents, delivery documents, or other similar documents. Invoices must be submitted for payment.

Payment terms shall be net 30 days from invoice date.

Contractors must also indicate if any of the invoiced amount(s) is for service or work provided by a subcontractor and indicate the amount that will be paid to the subcontractor. Contractors must also comply with the prompt payment requirements in the *Prompt Progress Payments* section of the Standard Conditions.

4.12. SAFETY DATA SHEETS (SDS)

MTS retains the safety data sheets on an electronic database (currently CloudSDS). Upon award, Contractors shall email the SDS for chemicals that any individuals may be exposed to, attention Ngan Nguyen, MTS Environmental Health and Safety Specialist at Ngan.Nguyen@sdmts.com to upload into the database. The Contractor shall notify the

MTS Environmental Health and Safety Specialist if there are changes or updates to the SDS during the term of the contract to ensure the MTS database is kept updated throughout the contract

4.13. WARRANTY

CS warrants all items delivered under this contract will be in factory new condition, free from liens and defects in design, materials, workmanship and title and shall conform in all respects to the terms of this Agreement and to the drawings issued for manufacture by the CS, and shall be of the best quality, if no quality is specified. Unless the warranty period is otherwise extended, the following minimum warranty shall apply.

If within one (1) year from the date of commercial operation for the purpose for which the goods are purchased, or within eighteen (18) months from the date of receipt by MTS, whichever comes first, it appears that goods, or any part thereof, do not conform to these warranties, and MTS so notifies the CS within thirty (30) days after discovery, CS shall thereupon promptly correct such non-conformity to the satisfaction of MTS at the CS's sole expense.

MTS may reject and cover the discrepancy if it is not satisfied with the CS's attempt to remedy the discrepancy by purchasing substitute goods or make corrections or accomplish the CS's performance by the most expeditious means available where all costs related to the correction shall be charged to the CS.

CS's liability hereunder shall extend to all damages such as demand inspection, cost of return or warehousing. CS shall not be liable for any consequential damages, such as loss of revenue or profit, loss of use or production or costs of capital. NO IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR PURPOSE SHALL APPLY.

4.14. REPLACEMENT PARTS

Replacement parts and technical support for the specified equipment must be guaranteed by the manufacturer; to be available for a fifteen (15) year period from the date of purchase. Manufacturer shall keep parts books and maintenance manuals up-to-date for that period.

4.15. DELIVERY AND ACCEPTANCE

Equipment or any deliverable provided under this contract shall be delivered F.O.B. to SDTI, 1341 Commercial Street, San Diego, California 92113 unless otherwise specified, in first class condition, complete and ready for operation, and the Contractor shall assume all responsibility and risk of loss incident to said delivery.

Contractor shall indicate delivery date on the Bid Form unless already specified, in which case, shall be made within the time set forth. Delivery is part of the consideration and must be adhered to as specified.

Contractor will not be held liable for failure to make delivery because of strikes, construction of property, governmental regulations, acts of God or any other causes beyond his control, provided a written extension of time is obtained from MTS.

Upon delivery, MTS will acknowledge receipt of said items or products. Delivery shall not constitute acceptance. Upon inspection and testing (if necessary) by MTS, a determination will be made whether said items or products are in conformance with contract requirements. If found in conformance, MTS shall approve the Contractor's invoice for payment; thereby constituting acceptance. Payment terms begin from this point. If the delivered items or products are found not in compliance, MTS will immediately notify the Contractor, and furnish all details of deficiencies. Contractor shall correct the deficiencies or supply new items or products (at the discretion of MTS), and resubmit for inspection and testing (if necessary).

4.16. LIQUIDATED DAMAGES

<u>General</u>

Liquidated damage requirements are appropriate if the parties to a contract may reasonably expect to incur damages in the form of increased Project costs resulting from the late completion of the contract, and if the extent or amount of such damages would be difficult or impossible to determine after the delay has occurred. Accordingly, any liquidated damages for this contract shall be at a specific rate per day for each day of overrun in contract time; and the rate will be specified in the third-party contract, and will comply with any other special liquidated damages restrictions FTA might impose. Any liquidated damages recovered shall be credited to the Project account involved unless the Federal Government permits otherwise.

Rates

MTS has established a liquidated damage rate of \$750 / day.

Appeal Process

If the Contractor feels liquidated damages are being imposed unjustly, the Contractor can file an appeal with the Contract Officer within twenty-four (24) hours of the notification of impending liquidated damages. The letter must provide details of the situation and why the Contractor feels the liquidated damages are unjust. The Contract Officer shall review the situation, and if necessary, meet with the Contractor to provide an opportunity to state their reasons why liquidated damages should not be assessed. The Contract Officer shall render a decision.

If the Contractor feels the decision is not acceptable and the situation warrants further consideration, appeal reconsideration may be filed with the Manager of Procurement. The Manager of Procurement shall review the reconsideration, and a final determination shall be made. The decision of the Manager of Procurement shall be final. No other appeals shall be heard for this particular incident.

4.17. KEY PERFORMANCE INDICATORS (KPI)

The CS performance shall be measured by a set of Key Performance Indicators (KPI). Each KPI shall be produced and reviewed monthly between MTS and the CS to assess the status of service level achievements and areas of improvement. The initial KPI shall be created at 2 months after the conclusion of any ramp up period where required. The review shall be conducted through a conference call between the parties and may be

changed to quarterly once the service levels reach a rolling 3 months of reaching the expected target.

1. Purchase Order On-Time Delivery:

- a. Purchase Order On-Time Delivery measures the lapsed period for the actual delivery time for all Purchase orders and Line Items in full from the date of the order placement to the MTS receipt.
- b. The target service level for on time delivery shall be 60 days which is aligned to the contract delivery time.
- c. The measurement shall be for an order quantity not to exceed 125% of the average monthly estimated forecast quantity and may be aggregated to a higher monthly quantity if orders are not placed in previous months.
- d. The success target will be set at 98% across the volume of orders and line items that meet these criteria.

2. Purchase Order Recovery

a. Purchase Order Recovery measures the delivery time of Purchase Orders and Line Items that failed the Purchase Order On-Time Delivery. Where an On-Time Delivery has failed, the CS shall have an additional 10 days to ship the items to fully fulfil the failed order. Similarly, the target service level will be consistent at 98%.

MTS Material #	Manufacturer Part #	Item Description	Annual Usage	Yea	ar 1 Bid	Υ	ear 1 Total	Ye	ear 2 Bid	Υ	ear 2 Total
70168658	704702	Tires, Tire Kit - SD7/SD8	270	\$	3,014.00	\$	813,780.00	\$	3,252.00	\$	878,040.00
Subtotals Per Year				\$	813,780.00			\$	878,040.00		
Annual Sales Tax @ 7.75%				\$	63,067.95			\$	68,048.10		
Subtotals Per Year w/Sales Tax				\$	876,847.95			\$	946,088.10		

MTS Material #	Manufacturer Part #	Manufacturer Part #	Annual Usage	Ye	ear 3 Bid)	ear 3 Total	Υ	ear 4 Bid	,	Year 4 Total
70168658	704702	704702	270	\$	3,511.00	\$	947,970.00	\$	3,797.00	\$	1,025,190.00
Subtotals Per Year					\$	947,970.00			\$	1,025,190.00	
Annual Sales Tax @ 7.75%				\$	73,467.68			\$	79,452.23		
	Subtotals Per Year w/Sales Tax				\$	1,021,437.68			\$	1,104,642.23	

MTS Material #	Manufacturer Part #	Manufacturer Part #	Annual Usage	Year 5 Bid	Year 5 Total
70168658	704702	704702	270	\$ 4,103.00	\$ 1,107,810.00
		\$ 1,107,810.00			
		\$ 85,855.28			
		\$ 1,193,665.28			

Bid Grand Total

\$ 5,142,681.23



Agenda Item No. 14

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Mobile Column Lifts - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. L1643.0-23 (in substantially the same format as Attachment A), with Southwest Lift & Equipment, Inc., a Small Business (SB) in the amount of \$182,382.56 for mobile column lifts.

Budget Impact

The total cost of this contract shall not exceed \$182,382.56, and will be funded through FY21 Miscellaneous Capital WBS – 1009111201.

DISCUSSION:

MTS requires a contractor to purchase and deliver a set of wireless mobile column lifts for San Diego Trolley, Inc. (SDTI) Light Rail Vehicle (LRV) Maintenance Department. These mobile column lifts will replace the 20-year-old set of mobile column lifts that are nearing the end of their useful life. The LRV Maintenance Department uses the mobile column lifts in place of the in-floor lifts, when needed, to complete routine undercarriage maintenance on the LRV fleet.

On May 17, 2023, MTS issued an Invitation for Bids (IFB) seeking a contractor to provide mobile column lifts. Two (2) bids were received by the deadline of June 28, 2023, and are summarized as follows:

Company Name	Bid Amount	Firm Certification
Southwest Lift & Equipment Inc.	\$182,382.56	SB
Technology International, Inc.	\$280,000.00	N/A



Agenda Item No. 14 September 14, 2023 Page 2 of 2

Based on the bids received, and in comparison, with the MTS Independent Cost Estimate (ICE) of \$173,549.92, staff determined the bid price to be fair and reasonable.

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute MTS Doc. No. L1643.0-23 (in substantially the same format as Attachment A), with Southwest Lift & Equipment, Inc., a SB, in the amount of \$182,382.56 for mobile column lifts.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachment: A. Draft Agreement, MTS Doc. No. L1643.0-23

B. Scope of WorkC. Bid Form



STANDARD AGREEMENT FOR

MTS DOC. NO. L1643.0-23

MOBILE COLUMN LIFTS

	day of	, 2023 in the State of California
by and between San Diego Metropolitan Transit Sy following, hereinafter referred to as "Contractor":	stem ("MTS"), a	a California public agency, and the
Name: Southwest Lift & Equipment, Inc.	Address:	254 E Valley Street
		San Bernardino, CA 92408
Form of Business: Corporation (Corporation, Partnership, Sole Proprietor, etc.)	Email:	jana@southwestlift.com
Telephone: (909) 867-9820	_	
· · · · · · · · · · · · · · · · · · ·	ingenfeld	Treasurer
Na	ime	Title
The Contractor agrees to provide goods as specified in Specification (Exhibit A), Contractor's Bid/Pricing For Agreement, including Standard Conditions (Exhibit (Exhibit E). Delivery shall be 180 calendar days or less from the shall be net 30 days from invoice date. The total cost of the express written consent of MTS.	m (Exhibit B), a C), Federal Ree date of Notice of this contracts	nd in accordance with the Standard quirements (Exhibit D), and Forms to Proceed (NTP). Payment terms hall not exceed \$182,382.56 without
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	SOUTHW	/EST LIFT & EQUIPMENT, INC.
By: Sharon Cooney, Chief Executive Officer	Ву	
Approved as to form:		
By:	Title:	
Karen Landers, General Counsel		



SCOPE OF WORK/TECHNICAL SPECIFICATIONS

1. DESCRIPTION OF WORK

At the San Diego Metropolitan Transit System (MTS), LRV Maintenance Facility, there is a set of mobile column lifts used for the necessary lifting and maintenance of light rail vehicles. The lifts are at the end of their useful life, having been in service since 2003.

MTS Rail LRV Maintenance is looking to purchase up to eight (8) wireless mobile column lifts to replace its current lifts. A wireless system is being sought for ease of use in different locations. By being wireless, there is less likelihood of tripping hazards or failure points such as accidental damage to cables. The lifts shall be delivered to San Diego Trolley, Inc. (SDTI) Building C Maintenance shop and will be used to support the day-to-day operations of the maintenance department. These mobile lifts will provide support in lifting MTS light rail vehicles (LRVs) for work that is required underneath the vehicle.

MINIMUM SPECIFICATIONS

A. General Description

- 1. Lifting system shall consist of eight (8) columns and all shall be completely identical and interchangeable. The operator shall be able to configure the columns at the time of set up, without the need to modify the operating system. These lifts should have the ability to operate in any single column, a pair of columns or as a complete set of eight (8).
- 2. Each column shall contain a battery power supply, so that the system can operate wirelessly.
- 3. The main power shall be fused between the primary power switch and the motor/ control circuits to protect against overload.
- 4. When fully charged, the battery powered system shall be able to allow for a minimum or 12 complete lifting and lowering cycles at 100% lifting capacity.
- 5. The battery recharging system shall use 110 VAC, with lamp indicators that show when system is recharging and when system is fully charged.
- 6. The base frame of the lifting column shall be of a rectangular design. To ensure uniform contact with the lifting foundation, the pattern to the foundation under the column shall be triangular in design.

B. Lifting Capacity

Each individual column should be rated at a minimum of 10 kN or 22,000 lbs., with the total system capacity being 80kN or 176,000 lbs.

C. Dimensions

Maximum column height with carriage in the fully lowered position cannot exceed 11' (132") or 335 cm. With the carriage in the fully raised position, total maximum height cannot exceed 12' (144") or 365.75 cm due to shop clearances.

D. Pallet Jack Mechanism

Jack mechanism should be equipped with a safety system that will not allow the mobile column to lift if the operator fails to lower the pallet jack after positioning column.

E. Wheels

Column shall be fitted with fixed front roller wheels made of material that is non-destructive to the foundation on which the columns rest on. Lifts will be used on reinforced concrete floors.

F. Drive Mechanism

- 1. Drive system may be hydraulic or screw driven and shall permit lifting without any pulsation, jerks, or unsteady lifting. Lifting shall be smooth.
- 2. Lifting carriage shall ride on durable guide rollers, that require no maintenance or lubrication.
- 3. Hydraulic lift systems shall employ a check valve or other means of preventing lowering of the lift in the event of a ruptured hydraulic line.

G. Controls

- 1. Each column should allow for various functions of the lifting system. Such as "UP", "DOWN", and "LOCK" as appropriate for the system as well as an "emergency stop" push button.
- 2. Each column shall be equipped with a system to identify battery charge status. As well as a system to identify faults for troubleshooting, if system failure concurs during the lifting or lowering of columns. This can be by a display screen or light status system.
- 3. Columns shall have an automatic synchronization system that can detect if any of the columns are not lifting or lowering at the same rate as the rest of the columns.
- 4. Columns shall be set up to communicate and function wirelessly during use. Systems employing Cables connecting columns to one another shall not be considered.
- 5. Mobile column battery charging system shall operate at the following voltages: 110 VAC.

H. Safety Devices

- 1. Columns shall be equipped with independent fail-safe locking system.
- Locking system shall have an integrated design that ensures proper and automatic locking at any height, at all times. This safety lock should automatically engage when lift is not operating.

I. Lifting Nose for Rail Cars

1. The lifting column shall be equipped with a detachable lifting nose or noses and lifting adapters suitable to lift the rail cars by the inserted lifting units supplied by the rail car manufacturer.

- 2. The guide block for the lifting column shall include a receiver with pin to allow for the affixing and interchanging of lifting nose to the column.
- 3. Lifting nose, when all the way down, should be able to fit under the MTS Z bar lifting insert which sits at $14 \frac{1}{2}$ " off the floor. See photos of the MTS lifting inserts that are used for lifting.





Included in Section 3.25 of the General Provisions is the Request for Approved equal (RFA) information. Complete documentation should be provided in support of any RFAs submitted by Bidders for MTS' review and response, and must be submitted by the deadline provided in the calendar of events. Any RFAs submitted with the bid package at bid opening will not be accepted.

2. QUALITY ASSURANCE

2.1. Manufacturer Qualifications:

The lift company selling the product shall have ISO-9001 certification and proof of current certification.

2.2. Set-up Qualifications:

For warranty validation, set-up shall be performed by qualified factory authorized and trained personnel.

2.3. Product Requirements:

The drive system shall permit lifting without any pulsation, jerks or unsteady lifting. Lifting shall be smooth. A synchronization system shall ensure smooth alignment of each lifting assembly based on variances in vehicle weight. A microprocessor shall control all lift movement for ultimate operator safety and convenience. Troubleshooting codes shall facilitate service and repair.

3. HANDLING AND DELIVERY

All materials are to be delivered to the Building C LRV Maintenance shop located at:

San Diego Trolley, Inc. (SDTI) 1535 Newton Ave. San Diego, CA 92113

Contractor to notify MTS 48 hours prior to delivery. Contact info will be released upon contract award.

Delivery of all orders must be shipped in a timely manner. MTS has determined that 180 calendar days or less from the date of Notice to Proceed (NTP) is a satisfactory time for delivery.

4. INVOICES

Invoices must be sent to the MTS Accounting Department, via email, at ap@sdmts.com. All invoices must have the Purchase Order and contract number clearly displayed to ensure timely payment. MTS will not pay on packing slips, receiving documents, delivery documents, or other similar documents. Invoices must be submitted for payment.

Payment terms shall be net 30 days from invoice date.

Contractors must also indicate if any of the invoiced amount(s) is for service or work provided by a subcontractor and indicate the amount that will be paid to the subcontractor. Contractors must also comply with the prompt payment requirements in the Prompt Progress Payments section of the Standard Conditions.

5. WARRANTY

Manufacturer's warranty: Lift system shall be warranted for a minimum period of two (2) years for parts and one (1) year for labor. For mobile lift systems using Hydraulics, hydraulic cylinders shall have a part only warranty of an additional four (4) years.

6. REPLACEMENT PARTS

Replacement parts and technical support for the specified equipment must be guaranteed by the manufacturer; to be available for a five (5) year period from the date of purchase. Manufacturer shall keep parts books and maintenance manuals up-to-date for that period.

7. MANUALS

Operation and Maintenance manual: Operation and maintenance manual to include system operation, maintenance and troubleshooting, spare part numbers, drawings and schematics.

8. SET-UP

Set-up at the MTS LRV maintenance facility in accordance with manufacturer's instructions shall be completed by the Contractor. Tests for proper operation and re-test if necessary until satisfactory results are obtained shall be completed at that time.

9. TRAINING

Operations and Maintenance training shall be provided at the MTS LRV maintenance facility for six (6) technicians upon delivery to MTS at a time to be coordinated with the MTS Project Manager or designee. Proper use to lift an LRV and periodic maintenance shall be demonstrated.

10. DELIVERY AND ACCEPTANCE

Equipment or any deliverable provided under this contract shall be delivered F.O.B. to the address above, in first class condition, complete and ready for operation, and the Contractor shall assume all responsibility and risk of loss incident to said delivery.

Contractor shall indicate delivery date on the Bid Form unless already specified, in which case, shall be made within the time set forth. Delivery is part of the consideration and must be adhered to as specified.

Contractor will not be held liable for failure to make delivery because of strikes, construction of property, governmental regulations, acts of God or any other causes beyond his control, provided a written extension of time is obtained from MTS.

Upon delivery, MTS will acknowledge receipt of said items or products. Delivery shall not constitute acceptance. Upon inspection and testing (if necessary) by MTS, a determination will be made whether said items or products are in conformance with contract requirements. If found in conformance, MTS shall approve the Contractor's invoice for payment; thereby constituting acceptance. Payment terms begin from this point. If the delivered items or products are found not in compliance, MTS will immediately notify the Contractor, and furnish all details of deficiencies. Contractor shall correct the deficiencies or supply new items or products (at the discretion of MTS), and resubmit for inspection and testing (if necessary).

11. BUY AMERICA

This scope of work triggers Buy America and/or Build America Buy America requirements, which apply to construction materials, manufactured products, rolling stock, iron and steel. The below list of definitions and examples is not exhaustive and is only to be used as illustrative and

a guidance tool for Contractor compliance.

10.1. [NOT APPLICABLE] CONSTRUCTION MATERIALS

10.2. MANUFACTURED PRODUCT

Per IIJA Section 70912 (2)(B), all manufactured products used in the project must be produced in the United States. Examples for manufactured products provided per Appendix A to 49 CFR 661.3 include: Infrastructure projects not made primarily of steel or iron, including structures (terminals, depots, garages, and bus shelters), ties and ballast; contact rail not made primarily of steel or iron; fare collection systems; computers; information systems; security systems; data processing systems; and mobile lifts, hoists, and elevators.

10.3. [NOT APPLICABLE] ROLLING STOCK

10.4. IRON OR STEEL

Per IIJA Section 70912 (2)(A), all iron and steel used in the project must be produced in the United States. This means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States. Examples of iron and steel provided per Appendix A to 49 CFR 661.3 include: Items made primarily of steel or iron such as structures, bridges, and track work, including running rail, contact rail, and turnouts.

- 12. [NOT APPLICABLE] MATERIAL SAFETY DATA SHEETS (MSDS)
- 13. [NOT APPLICABLE] LIQUIDATED DAMAGES
- 14. [NOT APPLICABLE] ACQUISITION OF ROLLING STOCK

L1643.0-23 Mobile Column Lifts IFB ATT 1 - Bid Form

** Fill in the Green Cells **

Delivery shall be one-hundred eighty (180) after MTS issues the Notice to Proceed.							
	Yes?	No? Provide lead time (in calendar days)					
Would you be able to meet this timeline?	Yes	180					

QTY	Item Description	Unit of Measure	Unit Price for Item	Total Price*
8	Mobile column lifts	Each	\$ 20,288.00	\$ 162,304.00
	Deli	very Cost (One-time cost)	\$ 7,500.00	
			Total (Without Taxes)	\$ 169,804.00

^{*}Bidders should not include sales tax. MTS will add tax at purchase order issuance.

Costs must be all-inclusive including but not limited to labor, training, insurance, and all other related costs necessary to purchase and deliver the mobile lifts to MTS.

In order to be considered responsive, Bidders must provide pricing on all the line items. Charges not described on the bid form will not be considered valid and MTS will not pay additional costs. Bidder accepts responsibility for accuracy and presentation of the above numbers and must complete the bid forms as provided. Failure to do so may deem the bid non-responsive.

Tax (7.75%) \$12,578.56 Overall Total (Basis for Award) \$182,382.56



Agenda Item No. 15

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Tenable Software Renewal Service - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. G2748.0-23 (in substantially the same format as Attachment A), with Data Impressions Technology Group, in the amount of \$368,725.00, for a period of three (3) years for the provision of Tenable Software subscriptions.

Budget Impact

The total cost of this project is estimated to be \$368,725.00. This project will be funded by Information Technology (IT) Operations Budget 661010-571250 account.

DISCUSSION:

MTS, in common with other government agencies, is an increasingly attractive target for cyber-criminals and terrorists. As more devices are connected to our network, the dangers of data theft, vandalism and real-world damage are constantly increasing. In order to mitigate these risks, in 2018 and 2019, after a period of research, MTS IT successfully evaluated and implemented the market-leading Vulnerability Management solution, Tenable Security Center (SC) and Operational Technology (OT). It is vital that we renew the subscription to continue to help MTS identify, prioritize, and manage vulnerabilities in Information Technologies systems and infrastructure.

On June 20, 2023, MTS issued an Invitation for Bid (IFB) to renew its Tenable Software subscription. A total of eight (8) bids were received on the due date of August 3, 2023. Three of the eight bids were deemed non-responsive due to incomplete bid pricing and/or missing forms.



Below is a summary of the bids received, inclusive of delivery charges and CA sales tax:

Bidder Name	Reason for Non- Responsiveness	Firm Certifications	Overall Bid Total
Data Impressions (DI) Technology Group		None	\$368,725.00
Zones LLC.		Minority Owned Business Enterprise (MBE)	\$458,749.02
Saitech Inc.		MBE	\$459,422.49
AlxTel	MTS Bid Form showing all 4 lines not submitted. Bidder only provided a lumpsum total on the PlanetBids profile	None	\$459,742.49
TEC-LINK	MTS Bid Form showing all 4 lines not submitted. Bidder only provided a lumpsum total on the PlanetBids profile	Disadvantaged Business Enterprise (DBE), MBE	\$461,995.21
vPrime Tech Inc.	Bidder submitted a company quote that was not per the IFB instructions	None	\$464,232.49
Draycor Inc.		MBE	\$471,569.59
Smart IT Pros Inc.		MBE	\$494,016.29
MTS Independent Cost Estimate (ICE)			\$444,809.67

MTS staff has deemed Data Impressions (DI) Technology Group the lowest responsive and responsible bidder. Based on a comparison of all bids, including MTS's ICE, staff deemed DI Technology Group's pricing to be fair and reasonable.

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute MTS Doc No. G2748.0-23, with Data Impressions Technology Group, in the amount of \$368,725.00, for a period of three (3) years for the provision of Tenable Software subscriptions.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachments: A. Draft Agreement, MTS Doc. No. G2748.0-23

B. Scope of WorkC. Bid Summary



STANDARD AGREEMENT FOR

MTS DOC. NO. G2748.0-23

TENABLE SOFTWARE SUBSCRIPTION

ILIABLE SOI IWAN	IL SUDSCIAIL	IION
THIS AGREEMENT is entered into thisoby and between San Diego Metropolitan Transit Systollowing, hereinafter referred to as "Contractor":	day of stem ("MTS"),	, 2023 in the State of California a California public agency, and the
Name: Data Impressions Technology Group	_ Address:	17418 Studebaker Rd.
		Cerritos, CA 90703
Form of Business: Corporation (Corporation, Partnership, Sole Proprietor, etc.)	_ Email:	fcerna@dataimpressions.com
Telephone: 800-777-6488 x255	_	
	co Cerna	Account Manager
INA	me	Title
The Contractor agrees to provide goods as specified in Specification (Exhibit A), Contractor's Bid/Pricing Form Agreement, including Standard Conditions (Exhibit C). The contract term is for the software purchase with a purchase order (PO) issuance and order confirmation.	ns (Exhibit B),), and Forms (l n expected de ation. This ind	and in accordance with the Standard Exhibit D). livery date of October 1st, 2023 after cludes three (3) years of software
subscription effective October 1, 2023 through Septe	mber 30, 2026	
Payment terms shall be net 30 days from invoice da 7.75% sales tax) shall not exceed \$368,725.00 witho		,
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	DATA IMPR	RESSIONS TECHNOLOGY GROUP
By:		
Sharon Cooney, Chief Executive Officer	Ву	
Approved as to form:		
By:	Title:	
Karen Landers, General Counsel		



4. SCOPE OF WORK/TECHNICAL SPECIFICATIONS

4.1. INTRODUCTION

The San Diego Metropolitan Transit System (MTS) Information Security and Intelligence (ISI) Group would like to continue its subscription to Tenable Software for 3 years (36 months).

4.2. BACKGROUND

MTS, as is common with other government agencies, is an increasingly attractive target for cyber-criminals and terrorists. As more devices are connected to our network, the dangers of data theft, vandalism and real-world damage, e.g. overloading power substations are constantly increasing. In order to mitigate these risks, in 2018/19, after a period of research, MTS IT successfully evaluated and implemented the market-leading vulnerability management solution called Tenable SC and OT. Tenable SC and OT subscription will end 05/14/2023 and it is vital that we renew the subscription to continue to help MTS identify, prioritize and manage vulnerabilities in their IT systems and infrastructure. Tenable SC and OT are specifically capable of:

- A. Identifying vulnerabilities: A vulnerability management system can scan an organization's IT and OT systems to identify vulnerabilities in applications, systems, and network devices.
- B. Prioritizing remediation: Vulnerability management systems help organizations prioritize vulnerabilities based on their risk and potential impact, so they can focus on remediating the most critical issues first.
- C. Streamlining remediation: A vulnerability management system can integrate with other IT and OT systems and help automate the remediation process, saving time and effort.
- D. Compliance: A vulnerability management system can help organizations comply with industry and regulatory standards such as the Payment Card Industry Data Security Standard (PCI DSS) General Data Protection Regulation (GDPR) and any Federal mandates.
- E. Risk reduction: By identifying and remediating vulnerabilities, a vulnerability management system can help reduce the risk of a security breach, data loss, or downtime.
- F. MTS' current subscription will expire on September 30, 2023.

4.3. SCOPE OF SERVICES

A software license and service for the following Tenable products for a three-year period beginning October 1, 2023 and expiring September 30, 2026, as further itemized below.

ITEM	PART NUMBER	ITEM DESCRIPTION	QTY	иом
1	TSCCV	Tenable.sc+ includes scanners, 1GB NNM. Must match T.sc license count if upgrading - Annual Subscription - 8000 IP Count	1	EA
2	TSC-STNDC	Standard Tenable.sc Console(s) included with Tenable.sc+ purchase	1	EA
3	AGT-OPS	Tenable.sc Agents - On Premise (For Subscription SC/SCCV)	2	EA
4	тот	Tenable.OT includes asset inventory, active querying, passive monitoring, vulnerability management, NNM sensors, and configuration control. Annual Subscription is licensed per Asset Assets: 1000	1	EA



Bid Summary

Tenable Renwal Services

MTS IFB G2748.0-23

ITEM PART Item Description		<u>QTY</u>	иом	Data Impressions Technology Group		
<u>III LIVI</u>	<u>NUMBER</u>	item bescription	<u>Q11</u>	<u>00111</u>	UNIT PRICE	EXT. PRICE
1	TSCCV	Tenable.sc+ includes scanners, 1GB NNM. Must match T.sc license count if upgrading - Annual Subscription - 8000 IP Count	1	EA	\$ 286,230.00	\$ 286,230.00
2	TSC-STNDC	Standard Tenable.sc Console(s) included with Tenable.sc+ purchase	1	EA	\$ -	\$ -
3	AGT-OPS	Tenable.sc Agents - On Premise (For Subscription SC/SCCV)	2	EA	\$ -	\$ -
4	тот	Tenable.OT includes asset inventory, active querying, passive monitoring, vulverability management, NNM sensors, and configuration control. Annual Subscription is licensed per Asset Assets: 1000	1	EA	\$ 82,495.00	\$ 82,495.00

\$ 368,725.00



Agenda Item No. 16

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Legal Services - Tort Liability - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors:

- 1) Authorize the Chief Executive Officer (CEO) to execute MTS Doc. G2782.0-24 (in substantially the same format as Attachment A) with Kahana & Feld, LLP (Kahana & Feld) to provide legal services through December 31, 2026 in the amount of \$677,725; and
- 2) Authorize the CEO to execute MTS Doc. G2783.0-24 (in substantially the same format as Attachment B) with McDougal Boehmer Foley Lyon Mitchell & Erickson (McDougal) to provide legal services through December 31, 2026 in the amount of \$677,725.

Budget Impact

The total estimated funding authority for both agreements is \$1,355,450. Costs will only be incurred when legal cases are assigned to each firm. Depending on legal case assignments, these agreements will be funded by the Risk Department budget for the Transit, Trolley, Administration, or San Diego & Arizona Eastern Railway accounts. If additional funding is necessary because the case loads are larger than anticipated, contract amendments will be approved by the CEO or the Board according to Board Policy 41.

DISCUSSION:

On October 11, 2018 (Agenda Item 12), the Board established a panel of 25 qualified law firms to assist MTS, San Diego Trolley, Inc. (SDTI) and San Diego Transit Corporation (SDTC) with various legal matters on an as-needed basis. In 2022, two firms specializing in tort liability announced retirements. Additionally, a third firm experienced the sudden death of an attorney who had been representing the Agency on various liability matters. These events necessitated seeking additional firms that specialize in tort liability.



On May 17, 2023, MTS issued a Request for Proposal (RFP) for Legal Services – Tort Liability and posted on Planet Bids. MTS received a total of seven (7) proposals from the following firms:

Proposer	Firm DBE or SB Certification
Aleshire & Wynder, LLP	N/A
Alvarez-Glasman & Colvin	N/A
Clark Hill PLC	N/A
Jones Mayer	N/A
Kahana & Feld, LLP	N/A
Manning & Kass, Ellrod, Ramirez, Trester LLP	N/A
McDougal, Boehmer, Foley, Lyon, Mitchell & Erickson APC	N/A

All proposals were deemed responsive and responsible and were evaluated by a committee comprised of representatives from the MTS Legal, Risk, and Finance Departments. The proposals were evaluated on the following:

1.	Qualifications of the Firm or Individual	30%
2.	Staffing, Organization, and Management Plan	15%
3.	Work Plan	25%
4.	Cost and Price	<u>30%</u>
		100%

The following table illustrates the initial total scores of the proposers:

PROPOSER	AVG TECHNICAL SCORE	AVG COST SCORE	TOTAL SCORE (TECH + COST)	RANKING
Kahana & Feld, LLP	56.75	27.00	83.25	1
McDougal, Boehmer, Foley, Lyon, Mitchell & Erickson APC	48.75	28.50	77.25	2
Jones Mayer	48.25	21.75	70.00	3
Alvarez-Glasman & Colvin	52.50	15.75	68.25	4
Aleshire & Wynder, LLP	43.38	15.00	58.38	5
Clark Hill PLC	48.00	9.00	57.00	6
Manning & Kass, Ellrod, Ramirez, Trester LLP	37.25	6.00	43.25	7

As a result of the initial review, Kahana & Feld and McDougal were considered to be within the competitive range. MTS invited Kahana & Feld and McDougal for an interview, which were held virtually on July 12, 2023. During the interview process, MTS staff learned more about each firm's qualifications and work plan for new cases. The evaluation committee rescored both firms after the interviews as follows:

PROPOSER	AVG TECHNICAL SCORE	AVG COST SCORE	TOTAL SCORE (TECH + COST)	RANKING
Kahana Feld, LLP	57.50	27.00	84.50	1
McDougal, Boehmer, Foley, Lyon, Mitchell & Erickson APC	55.75	28.50	84.25	2

MTS did not request for a revised proposal from either firm. Based on the objectives of the procurement, consideration of the evaluation criteria and Kahana & Feld and McDougal's technical and cost proposals, the evaluation committee determined Kahana & Feld and McDougal presented the best overall value to MTS.

Therefore, staff recommends that the Board of Directors authorize the CEO to:

- 1) Authorize the CEO to execute MTS Doc. G2782.0-24 (in substantially the same format as Attachment A) with Kahana & Feld, LLP (Kahana & Feld) to provide legal services through December 31, 2026 in the amount of \$677,725; and
- 2) Authorize the CEO to execute MTS Doc. G2783.0-24 (in substantially the same format as Attachment B) with McDougal Boehmer Foley Lyon Mitchell & Erickson (McDougal) to provide legal services through December 31, 2026 in the amount of \$677,725.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com

Attachments: A. Draft MTS Doc. No. G2782.0-24

B. Draft MTS Doc. No. G2783.0-24

C. Kahana & Feld Cost Form

D. McDougal Boehmer Foley Lyon Mitchell & Erickson Cost Form



STANDARD AGREEMENT

FOR

MTS DOC. NO. G2782.0-24

I EGAL SERVICES - TORT LIABILITY

LEGAL SERVICES - 101	KI LIABII	LIIY			
THIS AGREEMENT is entered into this day or you and between San Diego Metropolitan Transit System following, hereinafter referred to as "Contractor":					
Name: Kahana & Feld, LLP	Address:	12520 Hig	gh Bluff Driv	e, Suite 150	
		San Diego,	CA	92130	
Form of Business: <u>Limited Liability Partnership</u> (Corporation, Partnership, Sole Proprietor, etc.) Telephone: 858-397-5550	Email:	City tvail@kah	State anafeld.con	Zip <u>n</u>	
Authorized person to sign contracts Tami G. Va	il	Managin	ng Partner – Title	San Diego	
The Contractor agrees to provide services as specified in the conformed Scope of Work/Technical Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Forms (Exhibit E), and Policy 44C Travel Guidelines for Contractors (Exhibit F). The contract term is from October 1, 2023 through December 31, 2026. Payment terms shall be net 30 days from invoice date. The total cost of this contract shall not exceed					
\$677,725.00 without the express written consent of MTS. SAN DIEGO METROPOLITAN TRANSIT SYSTEM		ΚΔΗΔΝΔ	\ & FELD, L	I D	
By: Sharon Cooney, Chief Executive Officer Approved as to form: By:	By	IVALIFATO	KAILLD, L	<u>L1</u>	





STANDARD AGREEMENT

FOR

MTS DOC. NO. G2783.0-23

LEGAL SERVICES - TORT LIABILITY

HIS AGREEMENT is entered into this day of y and between San Diego Metropolitan Transit System ("N llowing, hereinafter referred to as "Contractor":					
Name: McDougal Boehmer Foley Lyon Mitchell & Erickson	Ad	ldress:	8100 La M	lesa Blvd.,	Suite 200
			La Mesa,	CA	91942
Form of Business: Corporation (Corporation, Partnership, Sole Proprietor, etc.)		Email:	City	State	Zip
Telephone: 619-440-4444					
Authorized person to sign contracts Steven E.		er	Pri	ncipal/Pres	sident
Na	me			Title	
Specification (Exhibit A), Contractor's Cost/Pricing Fo Agreement, including Standard Conditions (Exhibit (Exhibit E), and Policy 44C Travel Guidelines for ConThe contract term is from October 1, 2023 through DePayment terms shall be net 30 days from invoice da \$677,725.00 without the express written consent of Market Payment terms.	C), Fede tractors ecember ite. The	eral Ře (Exhibi r 31, 20	quirements t F). 26.	(Exhibit D), and Forms
SAN DIEGO METROPOLITAN TRANSIT SYSTEM	MO		AL BOEHN		
By: Sharon Cooney, Chief Executive Officer	Ву				
Approved as to form:	-				
By:	Title:				
Karen Landers, General Counsel	-				



COST/PRICING FORM

PROPOSER/FIRM: Kahana Feld, LLP

	TY	PE OF LAW / ROLE	HOURLY LABOR RATES		
#	CATEGORY	Personnel to Perform Category	Year 1 (July 1, 2023 – December 31, 2023	YEARS 2-4 (January 1, 2024 – December 31, 2026)	
		Title	Fixed Hourly Rate		
		Tami G. Vail, Managing Partner	\$ 250		
		Dane J. Bitterlin, Partner	\$ 250		
		Adrianna C. Paige, Senior Attorney	\$ 225		
1	Liability	Ariana Mayr, Paralegal	\$ 125	TBD – to be calculated by	
		Leilani Edmonds, Paralegal	\$ 125	MTS	
			\$		
			\$		
			\$		

Proposer shall submit pricing for all the work described in the Scope of Work section. In preparing a cost proposal, Proposers are requested to provide a total all-inclusive cost for each year of service.

Estimated quantities are for proposal purposes only. The quantities do not reflect guaranteed usage by MTS and may be more or less than indicated.

Read attached General Provisions carefully. They are a part of your proposal. Unit prices will prevail regardless of extensions submitted by the Proposer.

All proposers must complete proposal forms as provided, failure to do so will deem the proposal non-responsive.

Proposer accepts responsibility for accuracy and presentation of the numbers included in the cost/price form.

Submit the proposal following instructions as specified in Submission Requirements section.

COST/PRICING FORM

PROPOSER/FIRM: McDougal Boehmer Foley Lyon Mitchell & Erickson

	TYPE OF LAW / ROLE		HOURLY LABOR RATES		
#	CATEGORY	Personnel to Perform Category	Year 1 (July 1, 2023 – December 31, 2023	YEARS 2-4 (January 1, 2024 – December 31, 2026)	
		Title	Fixed Hourly Rate		
		Steven E. Boehmer, Principal	\$ 225.00		
		Carrie L. Mitchell, Principal	\$ 225.00		
		Matthew A. Thurmer, Associate	\$ 225.00		
1	Liability	Mark-Robert Bluemel, Associate	\$ 225.00	TBD – to be calculated by MTS	
			\$	WITG	
			\$		
			\$		
			\$		

Proposer shall submit pricing for all the work described in the Scope of Work section. In preparing a cost proposal, Proposers are requested to provide a total all-inclusive cost for each year of service.

Estimated quantities are for proposal purposes only. The quantities do not reflect guaranteed usage by MTS and may be more or less than indicated.

Read attached General Provisions carefully. They are a part of your proposal. Unit prices will prevail regardless of extensions submitted by the Proposer.

All proposers must complete proposal forms as provided, failure to do so will deem the proposal non-responsive.

Proposer accepts responsibility for accuracy and presentation of the numbers included in the cost/price form.

Submit the proposal following instructions as specified in Submission Requirements section.



Agenda Item No. 17

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

On-Call Marketing and Communication Services - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to:

- 1) Execute MTS Doc. No. G2719.0-23 (in substantially the same format as Attachment A), with Nuffer, Smith, Tucker, Inc. (Nuffer, Smith, Tucker), a Small Business (SB), for On-Call Marketing and Communication Services for a three (3) base year period in the amount of \$1,217,060, plus three (3) 1-year options in the amount of \$1,264,880 for a total contract amount of \$2,481,940; and
- 2) Exercise the option years at the CEO's discretion.

Budget Impact

The total cost of this contract is estimated to be \$2,481,940. Funding would come from the Marketing Department operating budget 571140-551010.

DISCUSSION:

MTS is seeking a qualified firm for on-call professional services to develop a variety of marketing, branding, communications, and public outreach strategies as part of a five-year customer experience campaign and ongoing marketing efforts to rebuild ridership. The Contractor will provide strategic counsel to the Marketing and Communications Department throughout the term of the agreement and incorporate new initiatives that come up each year into the overall marketing plan.

MTS recently introduced major initiatives to our ridership and the region, including an entirely new fare system and the opening of the largest transit infrastructure project in the San Diego region (the Mid-Coast Project extending the University of California (UC) San Diego Blue Line Trolley north to University of Towne Center (UTC)). While ridership has recovered faster than



expected following the COVID-19 pandemic, ridership is still about 20% lower than prepandemic levels. Recovering ridership and farebox funding will be crucial within the next four (4) years in order for MTS to avoid continued budget shortfalls and subsequent service challenges. To help MTS market its service, promote transit to target audiences, and advance ridership recovery, the selected consultant will assist MTS with various marketing disciplines including:

- Advertising strategies and media buying
- Customer experience strategy and campaign
- Graphic design support
- Market research
- Media and public relations strategy
- On-call marketing campaign support
- Public outreach planning and support
- Special event planning and support

Below are projects that the Contractor could assist MTS with including, but not limited to:

- PRONTO payment enhancements
- Zero-emission bus transition
- Clean Transit Advancement Campus education
- Customer experience initiatives
- Rapid 227 launch
- Employee recruitment/retention strategies
- Social Equity Listening Tour implementation
- PRONTO tapping and scanning rider education
- Holiday rider appreciation events
- Service enhancements
- College semester pass growth
- PRONTO employer program growth
- Continued research to understand attitudes, behaviors and beliefs of riders and potential riders

On March 17, 2023, MTS issued a Request for Proposal (RFP) for On-Call Marketing and Communication Services on Planet Bids. MTS received a total of four (4) proposals on the proposal due date of April 21, 2023 from the following:

Proposer	Firm Certification
Brown Marketing Strategies, Inc. dba Centric	SB
D2 Creative LLC	N/A
Here & Now Marketing, LLC	N/A
Nuffer, Smith, Tucker, Inc.	SB

All proposals were deemed responsive and responsible and were evaluated by a committee comprised of representatives from the MTS Marketing, Finance, Support Services, and Executive Offices Departments. The proposals were evaluated on the following:

1.	Qualifications of the Firm or Individual	20%
2.	Staffing, Organization, and Management Plan	20%
3.	Work Plan	30%
4.	Cost and Price	<u>30%</u>
		100%

The following table illustrates the initial total score of the proposers:

PROPOSER	TOTAL AVG TECH SCORE	TOTAL COST (BASE + OPTION)	COST SCORE	TOTAL AVG SCORE TOTAL POSSIBLE: 100	RANKING
Centric	50.20	\$2,259,047.07	28.78	78.98	1
Nuffer, Smith, Tucker	51.40	\$2,642,300.00	24.60	76.00	2
Here & Now Marketing	44.20	\$2,415,500.00	26.91	71.11	3
D2 Creative	40.80	\$2,166,850.00	30.00	70.80	4

As a result of the initial review, all four (4) firms were determined to be within the competitive range. MTS invited these firms to participate in the interview process and requested additional clarifications to be provided before each firm's interview. Interviews were held on May 16, 2023 and May 17, 2023. Subsequent to the interviews, the evaluation committee rescored the proposals as follows:

PROPOSER	TOTAL AVG TECH SCORE	TOTAL COST (BASE + OPTION)	COST SCORE	TOTAL AVG SCORE TOTAL POSSIBLE: 100	RANKING
Nuffer, Smith, Tucker	53.80	\$2,642,300.00	24.60	78.40	1
Centric	46.60	\$2,259,047.07	28.78	75.38	2
Here & Now Marketing	45.40	\$2,415,500.00	26.91	72.31	3
D2 Creative	38.40	\$2,166,850.00	30.00	68.40	4

Based on the updated scores and information gained during the interviews, Nuffer, Smith, Tucker and Centric remained the highest-ranked proposers. MTS identified items that required further discussions with both firms. After negotiations and clarifications, staff was able to reduce Nuffer, Smith, Tucker's cost proposal by \$160,360 (6.26%) and Centric's by \$67,826.86 (1.35%). Final scores are as follows:

PROPOSER	TOTAL AVG TECH SCORE	TOTAL COST (BASE + OPTION)	COST SCORE	TOTAL AVG SCORE TOTAL POSSIBLE: 100	RANKING
Nuffer, Smith, Tucker	54.40	\$2,481,940.00	26.49	80.89	1
Centric	44.80	\$2,191,220.21	30.00	74.80	2

Agenda Item No. 17 September 14, 2023 Page 4 of 4

Based on the objectives of this procurement, consideration of the evaluation criteria and Nuffer, Smith, Tucker's technical and cost proposals, and the independent cost estimate, the evaluation committee determined Nuffer, Smith, Tucker presented the best overall value to MTS.

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to:

- 1) Execute MTS Doc. No. G2719.0-23 (in substantially the same format as Attachment A), with Nuffer, Smith, Tucker, a SB, for On-Call Marketing and Communication Services for a three (3) base year period in the amount of \$1,217,060, plus three (3) 1-year options in the amount of \$1,264,880 for a total contract amount of \$2,481,940; and
- 2) Exercise the option years at the CEO's discretion.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft Agreement MTS Doc No. G2719.0-23

B. Cost Proposal

, 2023 in the State of California



STANDARD AGREEMENT

FOR

MTS DOC. NO. G2719.0-23

ON-CALL MARKETING & COMMUNICATION SERVICES

day of

THIS AGREEMENT is entered into this

by and between San Diego Metropolitan Tr following, hereinafter referred to as "Contract	` ` `	a California public agency, and the
Name: Nuffer, Smith, Tucker, Inc.	Address:	4045 Third Avenue, Suite 200
Form of Business: Corporation (Corporation, Partnership, Sole Propried Telephone: 714-313-4636	tor, etc.) Email:	San Diego CA 92103 City State Zip pa@nstpr.com
Authorized person to sign contracts	Price Adams	Executive Vice President & Partner
	Name	Title
The Contractor agrees to provide services Specification (Exhibit A), Contractor's Cost/P Agreement, including Standard Conditions (Exhibit E).	ricing Form (Exhibit B), (Exhibit C), Federal Re	and in accordance with the Standard equirements (Exhibit D), and Forms
The contract term is for up to three (3) base sole discretion, for a total of six (6) years. September 30, 2026 and option years shall be exercised by MTS.	. Base period shall be	effective October 1, 2023 through
Payment terms shall be net 30 days from ir \$1,217,060.00 for the base years and \$1,264 \$2,481,940.00 without the express written co	,880.00 for the option ye	
SAN DIEGO METROPOLITAN TRANSIT	SYSTEM NUF	FER, SMITH, TUCKER, INC.
By: Sharon Cooney, Chief Executive Office	cer By	
Approved as to form:		
Ву:	Title:	
Karen Landers, General Counsel		
	l	



Nuffer, Smith, Tucker Public Relations - V3 -7/28/23

SAN DIEGO METROPOLITAN TRANSIT SYSTEM COST PROPOSAL FORM

ON-CALL MARKETING AND COMMUNICATION SERVICES - MTS DOC NO. G2719.0-23

ON-CALL MARKETING AND COMMUNICATION SERVICES - MTS DOC NO. G2719.0-23 BASE YEAR 1							
Services	Total Hours	Fully Burdened Hourly Rate		Extended Cost			
Advertising Strategies and Planning	40	\$ 180.00	\$	7,200.00			
MTS' Advertising Budget			\$	200,000.00			
Advertising Commission			\$	6,000.00	3%		
Customer Experience Strategies-Campaign	240	\$ 180.00	\$	43,200.00			
Graphic Design Support	40	\$ 180.00	\$	7,200.00			
Market Research			\$	60,000.00			
Media and Public Relations Strategy	80	\$ 180.00	\$	14,400.00			
On-Call Marketing Campaign Support	320	\$ 180.00	\$	57,600.00			
Public Outreach Planning and Execution	60	\$ 180.00	\$	10,800.00			
Special Event Planning and Support	100	\$ 180.00	\$	18,000.00			
General Administration	100	\$ 150.00	\$	15,000.00			
TOTAL COST:	980		\$	439,400.00			
	BA	SE YEAR 2					
Services	Total Hours Burdened Extended Cost		Extended Cost	Advertising Comission %			
Advertising Strategies and Planning	40	## Hourly Rate \$ 184.00	\$	7,360.00	CO1111331O11 70		
MTS' Advertising Budget		+ 101100	\$	200,000.00			
Advertising Commission			\$	6,000.00	3%		
Customer Experience Strategies-Campaign	240	\$ 184.00	\$	44,160.00	370		
Graphic Design Support	40	\$ 184.00	\$	7,360.00			
Media and Public Relations Strategy	80	\$ 184.00	· ,				
On-Call Marketing Campaign Support	320	\$ 184.00	\$	58,880.00			
Public Outreach Planning and Execution	100	\$ 184.00	\$	18,400.00			
Special Event Planning and Support	100	\$ 184.00	\$	18,400.00			
General Administration	60	\$ 154.00	\$	9,240.00			
TOTAL COST:	980		\$	384,520.00			
		SE YEAR 3	T	00 1,020.00			
		Fully					
Services	Total Hours	Burdened		Extended Cost	Advertising		
		Hourly Rate			Comission %		
Advertising Strategies and Planning	40	\$ 189.00	\$	7,560.00			
MTS' Advertising Budget			\$	200,000.00			
vertising Commission \$		6,000.00	3%				
Customer Experience Strategies-Campaign	240	\$ 189.00	\$	45,360.00			
Graphic Design Support	40	\$ 189.00	\$	7,560.00			
Media and Public Relations Strategy			\$	15,120.00			
On-Call Marketing Campaign Support	320	\$ 189.00	\$	60,480.00			
Public Outreach Planning and Execution	120	\$ 189.00	\$	22,680.00			
Special Event Planning and Support	100	\$ 189.00	\$	18,900.00			
General Administration	60	\$ 158.00	\$	9,480.00			
TOTAL COST:	1000		\$	393,140.00			

1

Nuffer, Smith, Tucker Public Relations - V3 -7/28/23

SAN DIEGO METROPOLITAN TRANSIT SYSTEM **COST PROPOSAL FORM**

ON-CALL MARKETING AND COMMUNICATION SERVICES - MTS DOC NO. G2719.0-23 OPTION YEAR 1						
Services	Total Hours	Fully Burdened Hourly Rate	Extended Cost	Advertising Comission %		
Advertising Strategies and Planning	40	\$ 194.00	\$ 7,760.00			
MTS' Advertising Budget			\$ 200,000.00			
Advertising Commission			\$ 6,000.00	3%		
Customer Experience Strategies-Campaign	240	\$ 194.00	\$ 46,560.00			
Graphic Design Support	40	\$ 194.00	\$ 7,760.00			
Media and Public Relations Strategy	80	\$ 194.00	\$ 15,520.00			
On-Call Marketing Campaign Support	320	\$ 194.00	\$ 62,080.00			
Public Outreach Planning and Execution	120	\$ 194.00	\$ 23,280.00			
Special Event Planning and Support	100	\$ 194.00	\$ 19,400.00			
Market Research			\$ 60,000.00			
General Administration	60	\$ 162.00	\$ 9,720.00			
TOTAL COST:	1000		\$ 458,080.00			
	OPTION YEA					
Services	Total Hours	Fully Burdened Hourly Rate	Extended Cost	Advertising Comission %		
Advertising Strategies and Planning	40	\$ 199.00	\$ 7,960.00			
MTS' Advertising Budget			\$ 200,000.00			
Advertising Commission			\$ 6,000.00	3%		
Customer Experience Strategies-Campaign	240	\$ 199.00	\$ 47,760.00			
Graphic Design Support	40	\$ 199.00	\$ 7,960.00			
Media and Public Relations Strategy	80	\$ 199.00	\$ 15,920.00			
On-Call Marketing Campaign Support	320	\$ 199.00	\$ 63,680.00			
Public Outreach Planning and Execution	120	\$ 199.00	\$ 23,880.00			
Special Event Planning and Support	120	\$ 199.00	\$ 23,880.00			
General Administration	60	\$ 166.00	\$ 9,960.00			
TOTAL COST:	1020		\$ 407,000.00			
	OPT	ION YEAR 3				
Services	Total Hours	Fully Burdened Hourly Rate	Extended Cost	Advertising Comission %		
Advertising Strategies and Planning	40	\$ 204.00	\$ 8,160.00			
MTS' Advertising Budget			\$ 200,000.00			
Advertising Commission			\$ 6,000.00	3%		
Customer Experience Strategies-Campaign	240	\$ 204.00	\$ 48,960.00			
Graphic Design Support	40	\$ 204.00	\$ 8,160.00			
Media and Public Relations Strategy	80	\$ 204.00	\$ 16,320.00			
On-Call Marketing Campaign Support	320	\$ 204.00	\$ 65,280.00			
Public Outreach Planning and Execution	80	\$ 204.00	\$ 16,320.00			
Special Event Planning and Support	100	\$ 204.00	\$ 20,400.00			
General Administration	60	\$ 170.00	\$ 10,200.00			
TOTAL COST:	960		\$ 399,800.00			

2

B-2

Nuffer, Smith, Tucker Public Relations - V3 -7/28/23

SAN DIEGO METROPOLITAN TRANSIT SYSTEM COST PROPOSAL FORM

ON-CALL MARKETING AND COMMUNICATION SERVICES - MTS DOC NO. G2719.0-23

Description	Total		
Base Year 1	\$	439,400.00	
Base Year 2	\$	384,520.00	
Base Year 3	\$	393,140.00	
Option Year 1	\$	458,080.00	
Option Year 2	\$	407,000.00	
Option Year 3	\$	399,800.00	
Grand Total	\$	2,481,940.00	

B-3

3



Agenda Item No. 18

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Clean Transit Advancement Campus (CTAC), Advanced Planning Services – Work Order Amendment

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors:

- 1) Ratify Work Order WOA353-AE-20, under MTS Doc No. PWL353.0-22 (Attachment A), with Dokken Engineering (Dokken), in the amount of \$37,323.27 for design services to perform a Phase II Environmental Site Assessment (ESA); and
- 2) Authorize the Chief Executive Officer (CEO) to execute Work Order Amendment WOA353-AE-20.01, under MTS Doc No. PWL353.0-22 (in substantially the same format as Attachment B), with Dokken, in the amount of \$1,238,671.08 to provide advanced planning services for a new MTS bus maintenance facility for the Clean Transit Advancement Campus (CTAC) Project, formally known as Division 6.

Budget Impact

The total budget for this contract shall not exceed \$1,275,994.35. Including the work orders issued under the prior on-call master agreement, the total amount authorized for Dokken design services is \$1,485,418.31. The project is funded by Capital Improvement Program (CIP) 3004100801 – New Transit Facility, and by a FY23 Community Project Funding/Congressionally Directed Spending transit infrastructure grant in the amount of \$1,000,000 for the planning phase.

DISCUSSION:

MTS, in partnership with SANDAG, is developing its sixth bus division, the Clean Transit Advancement Campus (CTAC), to support electrification of the bus fleet and to allow future service expansion. On October 20, 2022 (AI 30), the MTS Board of Directors selected "Site 7" on Federal Boulevard near 47th Street as the preferred site for the CTAC Project, and adopted a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program. Following that approval, MTS and SANDAG commenced the National Environmental Policy Act (NEPA)



review process with the Federal Transit Administration (FTA). On July 18, 2023, the FTA issued a letter confirming that the CTAC Project is categorically excluded from NEPA. This NEPA approval letter allowed MTS to formally commence negotiations with the Site 7 property owners and take additional action to move forward with the project.

As part of the environmental review and site selection process, on March 10, 2022 (Al 14), the MTS Board of Directors authorized a Work Order WOA2075-AE-73 with Dokken to provide facility planning studies to determine the feasibility of constructing and operating a maintenance facility at the proposed site. The study resulted in a set of conceptual layouts with building block diagrams confirming the site contained adequate room to accommodate the required maintenance/administration facilities and bus parking /charging positions. The feasibility study also determined a combination of soil balancing and retaining walls could be implemented to support the two-level facility. Once Site 7 was selected as the preferred site, Dokken developed a Final Technical Memo to document the findings of the feasibility study. Additional amendments adding funding for certain tasks are shown in the chart below.

The CTAC Project is not fully funded and MTS is actively seeking funding opportunities at the local, state and federal level. To improve the competitiveness of our grant applications, MTS is seeking to further develop the planning details of the project with the support of Dokken Engineering. The additional scope to be provided includes detailed equipment lists, advanced planning on the phased site electrical requirements, coordination with SDG&E, refinement of the facility space program, and more detailed cost estimates for the project.

On-Call A&E Work Order Process

On September 15, 2021, MTS issued a solicitation for On-Call A&E Design Services by Requesting Statements of Qualifications (RFSQ) from firms with expertise in a variety of A&E design and related consulting services separated into the following three (3) categories:

- Category A: Comprehensive/Full Service
- Category B: Small Business (SB) Set Aside prime contracts awarded to a certified SB or a Disadvantage Business Enterprise (DBE) certified firm (which is also considered to be an SB)
- Category C: Specialty Prime specialty service contracts

As a result of the RFSQ, on May 12, 2022 (Al 10), the MTS Board selected seven (7) to perform various Architectural Engineering (A&E) services under Categories A, B, and C. For projects requiring A&E Services, work orders are issued to these firms.

MTS staff reviewed the four approved A&E firms in Category A, and utilizing a direct award process, selected Dokken to perform the requisite services. Dokken had previously completed a portion of this project. Based on the level of effort and the design work involved for this project, staff determined the contract price to be fair and reasonable.

The work by Dokken on CTAC related tasks has spanned two master On-Call A&E Design Services contracts at MTS, one covering the period of December 1, 2017 to March 30, 2022 (MTS Doc. No. G2075.018; WOA2075-AE-73) and a second covering the period of July 1, 2022 to June 30, 2027 (MTS Doc. No. PWL353.0-22; WOA353-AE-20). To keep track of the total

A&E On-Call costs paid to Dokken for the CTAC project, the work orders from both contracts are listed in the chart below.

Today's proposed action will approve Work Order WOA353-AE-20.1 with Dokken to create a formalized programming phase of the project that further defines the necessary space requirements, the adjacencies required to efficiently operate, and further develop the conceptual plans, thereby allowing MTS and the design team to refine the Opinions of Probable Cost. The documentation resulting from this programming phase will be used to inform the future design and construction teams about the needs of the project.

The Work Order and amendments issued to Dokken under MTS's prior on-call panel process are summarized below:

Work Order No.	Purpose	Amount	Board Approval Date
WOA2075-AE-73	Original Work Order – Data Collection & Analysis, Conceptual Layouts, Technical Summary Memo, Conceptual Capital Cost Estimates	\$206,043.16	3/10/23, Item 14
WOA2075-AE-73.01	Amendment 1 – Add funds for Survey work and other direct costs	\$3,380.80	Approved by the CEO 1/11/2023
WOA353-AE-20	New work order agreement under new A&E master agreement for Phase II ESA	\$37,323.27	Approved by the CEO 4/24/23
WOA354-AE-20.1	Formalized Programming Phase - Design	\$1,238,671.08	Today's proposed action
	Total	\$1,485,418.31	

For this Work Order, Dokken will be using the following subcontractors:

Subconsultant Name	Firm Certification	Value of Services
WSP	None	\$896,547.65

Therefore, staff recommends that the MTS Board of Directors:

1) Ratify Work Order WOA353-AE-20, under MTS Doc No. PWL353.0-22 (Attachment A), with Dokken, in the amount of \$37,323.27 for design services to perform a Phase II Environmental Site Assessment (ESA); and

Agenda Item No. 18 September 14, 2023 Page 4 of 4

2) Authorize the CEO to execute Work Order Amendment WOA353-AE-20.01, under MTS Doc No. PWL353.0-22 (in substantially the same format as Attachment B), with Dokken, in the amount of \$1,238,671.08 to provide advanced planning services for a new MTS bus maintenance facility for the CTAC Project, formally known as Division 6.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Executed Work Order, WOA353-AE-20

B. Draft Work Order, WOA353-AE-20.01



April 3, 2023 MTS Doc. No. PWL353.0-22 WOA353-AE-20

Mr. John Klemunes, PE Regional Manager Dokken Engineering 1450 Frazee Road, Suite 100 San Diego, CA 92108

Dear Mr. Klemunes:

Subject: WORK ORDER WOA353-AE-20, TO MTS DOC. NO. PWL353.0-22, ENGINEERING

SERVICES FOR MTS DIVISION 6 CONCEPTUAL LAYOUT & REPORT -PHASE II ESA

This letter shall serve as Work Order WOA353-AE-20, under the General Engineering Consultant Agreement, MTS Doc. No. PWL353.0-22, as further described below.

SCOPE OF SERVICES

This Work Order shall provide design services to perform a Phase II Environmental Site Assessment (ESA) to support the Clean Transit Advancement Campus Project (CTAC), formally known as Division 6 (Attachment A).

(This work order agreement is continuation of services under Consultant's previous work order number WOA2075-AE-73, to MTS Doc No. G2075.0-18.)

SCHEDULE

The Scope of Services shall remain in effect for a period of nine (9) weeks from the date of the Notice to Proceed.

PAYMENT

Payment shall be based on actual costs in the amount of \$37,323.27, and shall not be exceeded without prior authorization of MTS (Attachment B).



Please sign below, and return the document to the Contracts Specialist at MTS. All other terms and conditions shall remain the same and in effect.

Sincerely,

Sharon Cooney

Chief Executive Officer

Accepted:

John Klemunes, PE

Regional Manager, Dokken Engineering

Date:

Attachments: Attachment A, Scope of Services

Attachment B, Negotiated Fee Proposal

ATTACHMENT A SCOPE OF SERVICES

MTS Doc. No. PWL353.0-22

Work Order No. WOA353-AE-20

WORK ORDER TITLE: MTS Division 6 Conceptual Layout & Report - Phase II ESA

I. PROJECT DESCRIPTION

The San Diego Metropolitan Transit System, (referred to hereafter as "MTS") seeks a proposal for consultant services to perform a Phase II Environmental Site Assessment (ESA) to support the Clean Transit Advancement Campus Project (CTAC), formally known as Division 6, located northwet of the intersection of Federal Boulevard and 47th Street (Site) in San Diego, California.

II. SCOPE OF WORK

This task order is for the completion of a Phase II ESA, including borings, sample collection, testing, and document findings and recommendations into a report.

TASK 1: PROJECT MANAGEMENT

Dokken Engineers shall provide project management services that will include monthly progress reports, invoicing, and administration of the project.

Provide QA/QC on all deliverables. To ensure quality of work and compliance with the scope of work, the consultant shall perform a systematic in-house review of all documents produced prior to submittal.

TASK 2: Phase II Environmental Site Assessment (ESA)

A previous Phase I ESA was performed by Allied Geotechnical Engineers, Inc. dated May 24, 2022, recommended a Phase II ESA be performed to assess for the potential presence of hazardous waste materials due to the past and present uses of the Site. In addition, the Final Initial Study/Mitigated Declaration, prepared by Helix Environmental Planning, Inc. dated October 2022 stated that "a Phase II ESA shall be constructed to include collection and analysis of soil and groundwater samples to determine the presence or absence of hazardous substances…". Based on these documents, a Phase II will be performed on the Site.

The Site is located on five (5) separate parcels and property owners. We assume MTS will coordinate access to the sites as part of this investigation. We have assumed three mobilizations would be required to perform the field work.

The collection of groundwater samples is not necessary since the depth to groundwater has been estimated to be at least 100 below the ground surface. In addition, we have assumed a boring permit is not needed for our study since the proposed borings would be less than 20 feet in depth and groundwater is not anticipated.

Work Elements:

Marking out proposed boring locations, calling Underground Service Alert (USA) and, if necessary, meet with utility locators on-site prior to performing the fieldwork. A private geophysical company would also be retained to locate potential utility conflicts near the proposed borings.

Advancing 11 hollow-stem borings to a depth of approximately 10 feet below the existing grade to collect soil samples (2 samples per boring) for analytical testing. Soil samples will also be

screened with a photoionization detector (PID) for an initial indication of the presence of petroleum hydrocarbons and volatile organic compounds during collection and prior to backfilling the boring with the cuttings. The borings would be capped with an asphalt concrete cold patch.

Performing analytical tests (standard turnaround time; 7-10 business days) on selected soil samples (assumed 11 composited samples) to assess for volatile organic compounds (EPA Method 8260B), semi-volatile organic Compounds (EPA Method 8270C), total petroleum hydrocarbons (EPA Method 8015M), polychlorinated biphenyls (EPA Method 8082), heavy metals (EPA Method 6010B and 7471A). Additional laboratory analysis (i.e., STLC, TCLP) may be required depending on analytical results and/or site conditions encountered, which would be invoiced on a time and materials basis.

Presenting findings, conclusions, and recommendations from our assessment into a report.

III. PERIOD OF PERFORMANCE

Services shall be completed within nine (9) weeks from the date of the NTP.

IV. DELIVERABLES

Based on an assumed NTP start date of March 2023, the final Phase II ESA report will be prepared and anticipated to be delivered within the schedule shown in Section III.

V. SCHEDULE OF SERVICES/MILESTONES/DELIVERABLES

A. Tasks Schedule

Task	Begin/End Dates
TASK 1: PROJECT MANAGEMENT	NTP/9 WEEKS
TASK 2: PHASE II ENVIRONMENTAL SITE	NTP/9 WEEKS
ASSESSMENT (ESA)	
B. Milestones/Deliverables Schedule Milestone/Deliverable Monthly Progress Reports	Due Date MONTHLY
, ,	_
 Phase II Environmental Site Assessment 	NTP/9 WEEKS
(ESA)	

VI. MATERIALS TO BE PROVIDED BY MTS AND/OR THE OTHER AGENCY

MTS will grant or obtain free access to the Site for all equipment and personnel necessary for Consultant to perform the work set forth in this Agreement. MTS will notify any and all possessors of the Site that MTS has granted Consultant free access to the Site.

VII. SPECIAL CONDITIONS

Any condition listed below applies solely to this Work Order and does not otherwise alter the Agreement or other Work Orders. The Scope and Fees are based on the following assumptions.

- A. This task order will be limited to the time and materials fee budget negotiated as shown in Attachment B.
- B. All deliverables will be provided in electronic format.

- C. MTS will grant or obtain free access to the Site for all equipment and personnel necessary for Consultant to perform the work set forth in this Agreement. MTS will notify any and all possessors of the Site that MTS has granted Consultant free access to the Site.
- D. This scope of services assumes access to the Site during regular business hours. Saturday, night work, and overtime hours are available upon prior written request and for an additional fee.
- E. Boring number and locations are based on the exhibit included in the previous Phase I ESA performed by Allied Geotechnical Engineers, Inc. and provided by MTS. Changes to boring number and locations are subject to additional fees.
- F. Sampling, inspection, test locations, depths, and elevations will be based on field estimates. Surveying services for the precise location of sampling, inspection or test locations, depths and elevations is not included in the scope of services.
- G. Consultant will dispose of remaining soil and rock samples sixty (60) days after submission of the report covering those samples. Further storage or transfer of samples can be made upon prior written request for an additional fee.
- H. Consultant will notify MTS immediately of any changed conditions or circumstances prior to proceeding with the work.

VIII. MTS ACCEPTANCE OF SERVICES:

Contractor shall not be compensated at any time for unauthorized work outside of this Work Order. Contractor shall provide notice to MTS' Project Manager upon 100% completion of this Work Order. Within five (5) business days from receipt of notice of Work Order completion, MTS' Project Manager shall review, for acceptance, the 100% completion notice. If Contractor provides final service(s) or final work product(s) which are found to be unacceptable due to Contractors and/or Contractor's subcontractors negligence and thus not 100% complete by MTS' Project Manager, Contractor shall be required to make revisions to said service(s) and/or work product(s) within the Not to Exceed (NTE) Budget. MTS reserves the right to withhold payment associated with this Work Order until the Project Manager provides written acceptance for the 100% final completion notice. Moreover, 100% acceptance and final completion will be based on resolution of comments received to the draft documents and delivery of final documentation which shall incorporate all MTS revisions and comments.

Monthly progress payments shall be based on hours performed for each person/classification identified in the attached Fee Schedule and shall at no time exceed the NTE. Contractor shall only be compensated for actual performance of services and at no time shall be compensated for services for which MTS does not have an accepted deliverable or written proof and MTS acceptance of services performed.

IX. DEFICIENT WORK PRODUCT:

Throughout the construction management and/or implementation phases associated with the services rendered by the Contractor, if MTS finds any work product provided by Contractor to be deficient and the deficiently delays any portion of the project, Contractor shall bear the full burden of their deficient work and shall be responsible for taking all corrective actions to remedy their deficient work product including but not limited to the following:

Revising provided documents

At no time will MTS be required to correct any portion of the Contractors deficient work product and shall bear no costs or burden associated with Contractors deficient performance and/or work product.

X. DELIVERABLE REQUIREMENTS

Contractor will be required to submit any and all documentation required by the Scope of Work. The deliverables furnished shall be of a quality acceptable to MTS. The criteria for acceptance shall be a product of neat appearance, well-organized, and procedurally, technically and grammatically correct. MTS reserves the right to request a change in the format if it doesn't satisfy MTS's needs. All work products will become the property of MTS. MTS reserves the right to disclose any reports or material provided by the Contractor to any third party.

Contractor shall provide with each task, a work plan showing the deliverables schedule as well as other relevant date needed for Contractor's work control, when and as requested by MTS.

Contractor's computer data processing and work processing capabilities and data storage should be compatible with Windows compatible PC's, text files readable in Microsoft Word, and standard and customary electronic storage. Contractor shall maintain backup copies of all data conveyed to MTS.

Contractor shall provide MTS with hard copy or electronic versions of reports and/or other material as requested by MTS.

XI. PRICING

Except where otherwise noted herein, pricing shall be firm and fixed for the duration of the Work Order and any subsequent Change Orders/Amendments to the Work Order. There shall be no escalation of rates or fees allowed.

XII. ADDITIONAL INFORMATION

List additional information as applicable to the specific Work Order scope of services.

XIII. PREVAILING WAGE

Prevailing wage rates apply to certain personnel for these services? ✓ Yes ☐ No

ATTACHMENT B NEGOTIATED FEE PROPOSAL

Work Order Estimate Summary

Att.A, AI 18, 09/14/23

MTS Doc. No. PWL353.0-22
Work Order No. WOA353-AE-20
Attachment: B

Work Order Title: Division 6 Conceptual Layout & Report

Project No:

Table 1 - Cost Codes Summary (Costs & Hours)

Item	Cost Codes	Cost Codes Description	Total Costs
1		LABOR	\$16,975.44
2		OTHER DIRECT COSTS	\$20,347.83

Totals = \$37,323.27

Table 2 - TASKS/WBS Summary (Costs & Hours)

Item	TASKS/WBS	TASKS/WBS Description	Labor Hrs	Total Costs
1		Project Management	10.0	\$2,217.70
2		Phase II Environmental Site Assessment (ESA)	111.0	\$35,105.57

Totals = 121.0 \$37,323.27

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

(If A	pplicat On		elect			
DBE	DVBE	SBE	Other	Consultant	Labor Hrs	Total Costs
				DOKKEN ENGINEERING	10.0	\$2,217.70
				GEOCON INCORPORATED	111.0	\$35,105.57

Totals = 121.0 \$37,323.27

Work Order Estimate Summary

Consultant/Subconsultant: MTS Doc. No.: PWL353.0-22 Total Hours = 10 Work Order No.: WOA353-AE-20 В Total Costs = \$2,217.70 Work Order Title: Attachment: **Mark Tarrall** Engineer -**ODCs** Contract Total Senior (See **Totals** Manager Hours Attachment) TASKS/WBS TASKS/WBS Description \$ 299.01 \$ 202.46 Item TASK 1 **Project Management** 1 1.1 **Project Management** 2 8 10 \$2,217.70 N/A 2 \$2,217.70 Subtotals (Hours) = 8 10 Subtotals (Costs) = 10 \$2,217.70 \$598.02 \$1,619.68 TASK 2 Phase II Environmental Site Assessment (ESA) 2 Borings, Samplings, Testing, and Reports 2.1 Subtotals (Hours) = N/A Subtotals (Costs) = 2,217.70 TOTALS: 10 \$ Subtask 1 2 8 10 \$2,217.70 Subtask 2 Subtask 3 Subtask 4 Subtask 5 Subtask 6 Subtask 7 Subtask 8 Subtotals (Hours) = N/A 8 10 598.02 \$ 1,619.68 \$ 10 \$ Subtotals (Costs) = 2,217.70 Totals (Summary) = TOTALS: 10 \$2,217.70 Total (Hours) = 2 10 N/A 8 Total (Costs) = \$598.02 \$1,619.68 \$2,217.70 20% 80% Percentage of Total (Hours) = N/A 100% Percentage of Total (Costs) = 27% 73% 100%

Consultant/ Subconsultant:	DOKKEN ENGINEERING	Contract No:	PWL353.0-22
		Task Order No.	WOA353-AE-20
Work Order Title:	Division 6 Conceptual Layout & Report	Attachment:	B

TASKS/WBS (1-5)

ODC			TASK 1		Т	ASK 2	7	TASK 3	TASK 4		TASK 5		
Item	Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
				Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =	

TASKS/WBS (6-10)

	TASK 6		TASK 7		TA	ASK 8	TASK 9		TASK 10		Totals	
Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
											9	
											-	
											-	
											-	
	Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Totals -	
	Description		Description Quantity Total	Description Quantity Total Quantity	Description Quantity Total Quantity Total	TASK 6 TASK 7 TASK 7 Description Quantity Total Quantity Total Quantity	Description Quantity Total Quantity Total Quantity Total	TASK 6 TASK 7 TASK 8 TASK 7 Description Quantity Total Quantity Total Quantity Total Quantity	TASK 6 TASK 7 TASK 8 TASK 9 Description Quantity Total Quantity Total Quantity Total Quantity Total	TASK 6 TASK 7 TASK 8 TASK 9 TASK 9	TASK 6 TASK 7 TASK 8 TASK 9 TASK 10 Quantity Total Quantity Total	TASK 6 TASK 7 TASK 8 TASK 9 TASK 10 T Description Quantity Total

Work Order Estimate Summary

Consultant/Subconsultant: GEOCON INCORPORATED PWL353.0-22 MTS Doc. No.: Total Hours = 111 WOA353-AE-20 Work Order No. Total Costs = \$35,105.57 Work Order Title: Division 6 Conceptual Layout & Report Attachment: В Engineer -Engineer Geologist **ODCs** Engineer - 2 Geologist - 3 Geologist - 2 Technician - 2 Total Principal Senior Senior (See Totals Hours Attachment) Item TASKS/WBS TASKS/WBS Description \$ 259.85 159.02 113.36 \$ 193.70 \$ 119.42 108.48 80.73 PROJECT MANAGEMENT AND COORDINATION TASK 1 1.1 Project Management Subtotals (Hours) = N/A Subtotals (Costs) = 2 TASK 2 Phase II Environmental Site Assessment (ESA) 2.1 Borings, Samplings, Testing, and Reports \$20,347.83 2 42 18 28 16 111 \$35,105.57 Subtotals (Hours) = N/A 2 42 18 4 28 16 111 \$35,105.57 Subtotals (Costs) = \$20,347.83 \$519.70 \$6,678.84 \$2,040.48 \$774.80 \$3,343.76 \$108.48 \$1,291.68 111 \$35,105.57 TOTALS: 111 \$ 35,105.57 Subtask 1 Subtask 2 \$20,347.83 2 42 18 28 16 111 \$35,105.57 4 1 Subtask 3 Subtask 4 Subtask 5 Subtask 6 Subtask 7 Subtask 8 Subtotals (Hours) = N/A 2 42 18 111 Subtotals (Costs) = 1,291.68 \$ 20347.82609 \$ 519.70 \$ 6,678.84 \$ 2,040.48 \$ 774.80 \$ 3,343.76 \$ 108.48 \$ 111 35,105.57 Totals (Summary) = TOTALS: 111 \$35,105.57 Total (Hours) = N/A 2 42 18 4 28 16 111 Total (Costs) = \$20,347.83 \$519.70 \$6,678.84 \$2,040.48 \$774.80 \$3,343.76 \$108.48 \$1,291.68 \$35,105.57 Percentage of Total (Hours) = N/A 2% 38% 16% 25% 0.144144144 96%

98%

58%

1%

19%

6%

10%

0%

0.036794165

Percentage of Total (Costs) =

Consultant/ Subconsultant:	GEOCON INCORPORATED	Contract No:	PWL353.0-22
		Task Order No.	WOA353-AE-20
Work Order Title:	Division 6 Conceptual Layout & Report	Attachment:	В

TASKS/WBS (1-5)

ODC							ASK 1	т	ASK 2	T	ASK 3	Т	ASK 4	Т	ASK 5
Item	Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total		
1	Mark out and Private Utility Locator (3 mobilizaions)	Item	\$3,304.35			1	\$3,304.35								
	Drilling Operations, Sample Collection and Supplies (3 mobilizations)	Item	\$8,608.70			1	\$8,608.70								
3	Analytical Testing of Soil Samples	Item	\$8,434.78			1	\$8,434.78								
4															
5															
6															
7															
8															
9															
10															
				Subtotal =		Subtotal =	\$20,347.83	Subtotal =		Subtotal =		Subtotal =			

TASKS/WBS (6-10)

		120(0,110)													
ODC		TA	SK 6	TASK 7 TASK 8		TA	TASK 9		ASK 10	Т	otals				
Item	Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total		
1	Mark out and Private Utility Locator (3 mobilizaions)											1	\$3,304.35		
	Drilling Operations, Sample Collection and Supplies (3 mobilizations)											1	\$8,608.70		
3	Analytical Testing of Soil Samples											1	\$8,434.78		
4															
5															
6															
7															
8															
9															
10															
		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Subtotal =		Totals =	\$20,347.83		



September 14, 2023

MTS Doc. No. PWL353.0-22 WOA353-AE-20.01

Mr. John Klemunes, PE Regional Manager Dokken Engineering 1450 Frazee Road, Suite 100 San Diego, CA 92108

Dear Mr. Klemunes:

Subject: AMENDMENT NO. 1 TO WORK ORDER WOA353-AE-20, TO MTS DOC. NO. PWL353.0-

22, ENGINEERING SERVICES FOR MTS DIVISION 6 CONCEPTUAL LAYOUT & REPORT

- 15% CONCEPT PLAN DESIGN SERVICES

This letter shall serve as Amendment No. 1 to Work Order WOA353-AE-20, under the General Engineering Consultant Agreement, MTS Doc. No. PWL353.0-22, as further described below.

SCOPE OF SERVICES

As a result of this Amendment, the Scope of Services shall provide 15% design services to support the Clean Transit Advancement Campus Project (CTAC), formally known as Division 6 (Attachment A).

(This work order agreement is continuation of services under Consultant's previous work order number WOA2075-AE-73, to MTS Doc No. G2075.0-18.)

SCHEDULE

As a result of this Amendment, the Schedule shall be increased by thirty-four (34) weeks. The Schedule shall be revised from a period of nine (9) weeks to a period of forty-three (43) weeks from the date of the Notice to Proceed.

PAYMENT

As a result of this Amendment, Payment shall be increased by an amount of \$1,238,671.08 (Attachment B). The revised Payment amount shall be revised from \$37,323.27 to \$1,275,994.35. Payment shall be based on actual costs, and shall not be exceeded without prior authorization of MTS.



Please sign below, and return the document to the Contracts Specialist at MTS. All other terms and conditions shall remain the same and in effect.

Sincerely, Accepted:

Sharon Cooney Chief Executive Officer John Klemunes, PE Regional Manager, Dokken Engineering

Date:

Attachments: Attachment A, Scope of Services

Attachment B, Negotiated Fee Proposal



ATTACHMENT A SCOPE OF SERVICES



MTS Doc. No. PWL353.0-22

Work Order No. WOA353-AE-20.01

WORK ORDER TITLE: MTS Clean Transit Advancement Campus (CTAC), formerly known as Division 6 – Amendment 3 - 15% Concept Plan Design Services

I. PROJECT DESCRIPTION

The San Diego Metropolitan Transit System, (referred to hereafter as "MTS") seeks a proposal for consultant services to continue planning and design of the Clean Transit Advancement Campus Project (CTAC), formally known as Division 6, located northwest of the intersection of Federal Boulevard and 47th Street (Site) in San Diego, California. MTS and the Consultant, previously developed a Technical Summary Memorandum, providing MTS with a roadmap for development of the existing land into the envisioned CTAC. As part of the Technical Study, a preliminary space program was developed to prepare several site test fits. At the conclusion of the study two (2) options were recommended for further refinement on the Primary Lot, and two (2) phases were recommended for the "Coca-Cola Lot". For this phase, MTS has elected to move forward with Option 1, full grade of the primary lot, and phase improvements to the Coca Cola Lot, starting with surface parking and ultimately a parking structure.

Additional programmatic elements that affect the test fit and were discussed with MTS during development of the project include but are not limited to the following:

- Bus capacity of at least 250 buses.
- The facility will be designed to provide electric charging infrastructure for the full capacity of battery electric buses (BEBs) and provide potential expansion of hydrogen fueling infrastructure for fuel cell electric buses (FCEBs). Of the approximately 250 buses, about 75 are assumed to be FCEBs. FCEB fueling is assumed to be delivery and on-site storage of liquid hydrogen which is then converted into gaseous hydrogen for bus fueling. On-site hydrogen generation is not assumed.
- Staff and non-revenue vehicle (NRV) parking to be accounted for as well as parking for drivers, maintenance personnel, and administration staff.
- Maintenance shall be performed on site for both types of buses, so necessary
 maintenance bays, shops, tire repair, body repair, parts storage, and maintenance
 personnel support spaces will be required to perform routine and preventive
 maintenance. A common work area for component repair shall be included. A paint
 booth shall be accounted for. Additional space for nightly washing and servicing of buses
 is also required.
- Adequate space for administration, operations, and drivers to be provided. Additionally, building space for training and a daycare space for personnel to bring their children shall be allocated.
- Daycare services would ideally have separate vehicle access from the maintenance and charging portion of the facility.

The project has completed CEQA and is the process of completing NEPA, done by others.

The goal of this next phase is to make key decisions on design elements that will allow MTS to be more competitive with future funding opportunities, advance the project design and further develop the engineer's opinion of probable cost. This next phase of design includes a formalized Programming Phase of the project to further define the necessary space and functional requirement details of the onsite facilities and further develop the conceptual plans, thereby allowing MTS and the design team to refine the Opinions of Probable Cost.

The programming phase of the project sets the foundation for preliminary and final design of the project. This phase will document the criteria for design and defines the necessary spaces and requirements for operational efficiencies based on discussions and coordination with the owner and their specific needs, wants and budget constraints. The final product will be a Final Programming Document. The document may include chapters such as:

- General Consideration lists pertinent information that influences design such as daily activities, project goals
- Space needs Program delineates the space requirements for offices, maintenance bays & shops, support spaces, parts storage, vehicle/equipment storage, parking, and fuel and wash facilities
- Functional Requirements presents detailed functional requirements for offices, maintenance bays & shops, support spaces, parts storage, vehicle/equipment storage, parking, and fuel and wash facilities
- Site and Building Requirements general design criteria relating to architecture, structure, mechanical, electrical, plumbing, facility maintenance, civil, landscaping, as well as security, signage, and waste handling issues.
- Graphical representations on how the spaces can be organized by providing sketches of the overall site plan showing traffic flow, maintenance bays, internal building layout.

II. SCOPE OF WORK

TASK 1: Project Management

Consultant shall provide project management services that will include monthly progress reports, invoicing and administration of the project. As part of this task the consultant shall be responsible to maintain schedule compliance of final deliverables for this task order. It is assumed there will be workshops, development of a final programming document, conceptual plans and opinion of probable cost as part of this task order.

- 1.1. Provide project management services including the requirements for invoicing, scheduling, monthly project progress reports, and administration of the Consultant's team.
 - 1.1.1. Arrange and facilitate Project Development Team (PDT) meetings, interagency meetings, field reviews, and other project-related meetings. Consultant shall prepare meeting agendas, meeting minutes, necessary supplemental materials, and meeting sign-in sheets for all meetings. It is assumed there will be one hour bi-weekly meetings for the duration of the task order.
 - 1.1.2. Develop and implement a project schedule to complete the Scope of Work and manage the project to eliminate or minimize supplemental agreements.

- 1.1.3. Provide coordination between MTS and outside agencies and stakeholders, this includes manage decision making and communication with MTS, community/agency, and the stakeholder team.
- 1.1.4. Provide QA/QC on all deliverables. To ensure quality of work and compliance with the scope of work, the consultant shall perform a systematic in-house review of all documents produced prior to submittal. All reviewed documents shall have a check box or signature indicating a review has been performed.

1.2. Agency Coordination

1.2.1. Consultant shall begin coordination with outside agencies, including SDG&E and the City of San Diego. Two (2) coordination meetings with both agencies are anticipated to understand steps needed for the project when ready for the construction document phase. Information collected during these meetings will be included in the final programming document delivered in Task 4.

<u>Task 1 Deliverables:</u> Progress Reports, Project Delivery Schedule, Attend and Facilitate biweekly design team meetings, Meeting Agendas, Meeting Minutes

TASK 2: MTS Workshops

- 2.1 Establish detailed design requirements including space program and function requirements upon which future schematic and design development phases can be built. Below is a general list of facilities but is not inclusive:
 - Administration Building
 - Administration Drivers' Areas
 - Maintenance Support Areas
 - Maintenance Vehicles
 - Maintenance Body Shop
 - Maintenance Tire Shop
 - Maintenance Stores
 - Maintenance Infrastructure
 - Bus Service Cleaning & Brake
 - Bus Service Vault Pull
 - Site Other Site Spaces / Areas
 - Site Agency Vehicle Parking
 - Site Employee / Visitor Parking
 - Daycare
 - Fueling and charging infrastructure

2.2 Workshops

Setup in-person meetings to facilitate discussions on space and function. Assume four (4) day, in-person, workshops organized by site function. The meetings will include interviews with staff and site personnel. Workshop #1 is assumed to be 2 days to meet with MTS staff, kick-off this stage of the project and develop the program. Workshop #2 is assumed to be 1 day to present the concept space and function program to MTS staff and obtain feedback/comments. Workshop #3 is assumed to be 1 day to show the final space and function program. The goal of the workshop(s) is to identify detailed operational characteristics of the proposed facility, detailed space requirements for all administrative, maintenance, and

operations functions, and determine detailed functional requirements for the project including but not limited to:

- Requirements for offices, mechanic areas, and operator areas.
- Review and confirmation of proposed fleet size, mix, and fueling.
- Quantity, size, and type of repair bays.
- Requirements for all shops (i.e. brake, tire, chassis wash, component rebuild, welding)
- Requirements for parts storage and warehousing.
- Storage requirements for tool boxes and portable equipment.
- Requirements for mechanical and electrical support space
- Fueling operations, safety, fire protection
- Equipment schedules
- Back up power, BMS System, UPS, emergency vs Standby

<u>Task 2 Deliverables:</u> Develop space and function design requirements, Attend and Facilitate workshops with MTS, Develop Workshop Materials, Compile MTS comments/feedback.

TASK 3: Space and Function Programming

3.1 Space Needs Program

Complete Space Needs Program based on workshop input for the facilities defined in Task 2. There may be additional spaces required that are not identified above. The Space Needs Program will record dimensions for each space, quantities of each space type, and other pertinent details needed to calculate an overall building and site area. Identify parking requirements for buses, non-revenue, employee, visitor, and delivery vehicles.

3.2 Functional Requirements Document

Complete functional requirements will be developed for each space, based on workshop input. These requirements will include specific information on lighting needs, paint / finish needs, airflow/exhaust needs, and other pertinent information for specialized spaces. These requirements will be assembled into the Design Criteria document that will inform future project development and design.

Develop preliminary equipment lists based on the draft Design Criteria. Equipment shall be listed by functional area and include a description, quantity, dimensions, and general utility requirements for each equipment item.

<u>Task 3 Deliverables:</u> Complete Space Needs Program Sheets, Complete Functional Requirements Diagram Sheets, Preliminary Equipment List

TASK 4: Draft and Final Programming Document

The draft and final programming document will summarize the findings of the workshops, document decisions made, and include the final space needs program sheets and the final functional requirement sheets. The document would establish functional area relationships both between areas and between workstations within areas. Diagrams showing these relationships will be included in the Design Criteria Document.

The report will also include:

- 4.1 Design Criteria Document will be identify detailed functional requirements for the building systems as follows;
 - Codes, Standards, LEED Certificate, and Permit
 - Civil
 - Architectural
 - Structural
 - Electrical
 - Single line diagram
 - Lighting/Lighting Control
 - Comms/Security/PA System
 - Landscape
 - Mechanical
 - Plumbing
 - Fire protection
 - Battery Backup
 - Generator
 - Solar
 - Alternative Fuel Impacts
 - Battery Electric Bus Impacts
 - Sustainability requirements
- 4.2 Prepare summary of probable material and system types anticipated to be applied on the project where known.
- 4.3 The programming document will summarize the environmental requirements and commitments from CEQA and NEPA to be incorporated into the projects future design phases. The project has completed CEQA and is in the process of completing NEPA, done by others.
- 4.4 The programming document will include a description of the purpose and need for the project, identifying key goals and objectives for the final constructed facility.
- 4.5 The draft programming document will summarize the findings of the workshops, document decisions made, and include the final space needs program sheets and the final functional requirement sheets. The document would establish functional area relationships both between areas and between workstations within areas. Diagrams showing these relationships will be included in the Design Criteria Document.
- 4.6 Dokken will incorporate comments from MTS and issue a Final programming document.

<u>Task 4 Deliverables:</u> Draft and Final Programming Document

TASK 5: 15% Schematic Design

Further refine the concept drawings developed under a previous task order to show all the programmed spaces and functions developed under Task 3 are accounted for, and what spaces / functions defined in design criteria may need to be adjusted. This includes 2 meetings with MTS to review the concept plans and receive comments and assumes up to 3 revisions to the conceptual site plans. A final review meeting will be held with MTS to select a single Conceptual Plan to be further developed during this stage of 15% Schematic Design. Assumes these final review meetings will be held virtual. The following is an example of the plans sheets that will be provided:

5.1 Site

- Existing Conditions
- Demolition
- Onsite + Offsite Utilities
- Grading and Drainage Masterplan
- Retaining wall profiles
- Circulation Exhibits
- Parking and Service Areas
- Charging Infrastructure
- Hardscape
- Site Lighting

5.2 Buildings

The following schematic plans (15%) will include architectural renderings (floor plan, building elevations, miscellaneous details) and structural concept plans (preliminary foundation plans, framing plan, and sections) by facility:

- Administration Building
- Administration Drivers' Areas
- Maintenance Support Areas
- Maintenance Vehicles
- Maintenance Paint/Body Shop
- Maintenance Tire Shop
- Maintenance Storage
- Maintenance Infrastructure
- Bus Service Brake service
- Bus Service Bus Wash
- Bus Service Vault Pull
- DayCare and Parking garage
- Training room/offices
- Typical accessible details
- 1. Includes code analysis (CBC, CalGreen and municipal requirements), coordination with other Disciplines, floor plans, sections and elevations.
- 2. Code analysis will be based on 2022 CBC, 2022 CalGreen and Municipal guidelines.
- 3. Site parking analysis will only include employee and NRV parking
- 4. Excludes specifications
- 5. The Mechanical, Plumbing, Fire Protection, and Communications will be narrative and tabular descriptions and criteria. Drawings will be limited to diagrammatic illustrations to clarify intent of criteria and not to define systems and equipment.
- 6. Structural will include analysis to determine the most effective structural system for the design (i.e., precast, post tension, steel frame) as well as preliminary foundation and framing plans

Task 5 Deliverables: 15% Conceptual Plans

TASK 6: Programming Level Cost Estimate

Refine the cost estimate prepared during the Division 6 conceptual layout and report phase with updated quantities based on the more detailed programming and conceptual plan developed as part of this scope of work. This assumes two estimates will be prepared to support the project, one with the surface parking on the Coca Cola Lot, and the second to include a parking structure. This includes providing more detailed quantities for each major component.

- 6.1 Draft Cost Estimate for MTS review and comment. Assumes minor variations of project components to address MTS comments.
- 6.2 Final Programming Level Cost Estimate

<u>Task 6 Deliverables:</u> Draft and Final Programming Level Cost Estimates

OPTIONAL TASK 7: Grant support/Benefit Cost Analysis

7.1 Consultant will coordinate with MTS to provide strategic advice on the appropriate grants and funding opportunities that would apply to this project. The consultant will identify the pros and cons for each grant, provide guidance on elements needed to complete the grant applications, and determine the project readiness for each grant. Consultant will provide MTS with a summary of potential funding sources for the project. Sources will include available federal programs, state grant programs, and County, City, and other local sources, including revenues administered by MTS. The objective is to provide an understanding of the applicability of a wide range of funding opportunities to design and construct the project.

Once funding sources are identified for the project, we will rank each potential funding source by need and create funding scenarios for each project. Ranking will take into consideration timeline, competitiveness award amount, etc. These funding scenarios will include the recommended combinations of the various funding sources identified for the project. An additional piece of the funding scenarios will be pros and cons of applying for and receiving funding for each of the funding sources. Consultant shall also include a funding timeline for project that shows what grant programs should be applied for over a 3-year timeline (timeline is flexible based on project schedule).

Service excludes preparing the grant applications; however, this can be added for an additional fee.

7.2 Prepare Ridership model using the SANDAG ABM2+. The current queue for using this model is approximately 6 months and requires WSP to contract with SANDAG once a scope is defined.

7.3 Benefit Cost Analysis

For those grant applications that require a BCA or a similar technical analysis, the process that will be followed is described herein. The Consultant will develop one (1) BCA for MTS grant applications. Using data collected from MTS and found in publicly accessible places, the Consultant shall conduct the necessary data processing and technical analyses required to complete the BCA for MTS grant applications, focusing on supporting transportation, economic and other benefits at local, regional, and national levels in accordance with revised BCA guidance issued by USDOT. A separate BCA report will be produced.

Data Collection

Our team will develop a list of data, documentation, and information needed to produce a BCA and will meet with MTS as needed to coordinate and compile data. To the extent the data are available from MTS (or public sources), we will incorporate capital and operations/maintenance costs, traffic data, etc. to make the most compelling case for the project's overall cost-effectiveness. The data collection and initial modeling processes will be iterative as the team works together to ensure that all project benefits are quantified to generate objective, evidence-supported results.

Data Analysis and Methodology

Our team will develop one (1) BCA models (Excel format) which will incorporate the most upto-date input values provided in USDOT's BCA Guidance for Discretionary Grant Programs. We will also document all updated data sources and assumptions directly in the model and technical memorandum to facilitate review by USDOT economists.

Where applicable, we will quantify and monetize the following benefits:

- Travel time savings
- Vehicle operating cost savings
- Safety benefits
- Emissions cost savings
- Operations and maintenance cost savings.

Our team will meet with MTS to discuss the extent to which additional benefits may be quantified or monetized depending on the project and the grant programs for which MTS is seeking funding. Benefits for which USDOT does not have an established methodology to quantify or monetize will be described qualitatively in the BCA report.

Our team will compute the project cost-effectiveness metrics, including benefit-cost ratio, net present value, internal rate of return (i.e., the break-even discount rate), and payback period. We will also conduct a sensitivity analysis to identify key parameters of the model for USDOT reviewers.

The BCA model will be reviewed by a separate WSP economist for QA/QC. The person responsible for QA/QC will review the model ensuring that all inputs are sourced appropriately and that all calculations are operating correctly. The reviewer will also consider the fundamental logic of the model assumptions, identifying concerns that USDOT reviewers could raise.

BCA Report

Our team will summarize the BCA results for the grant application narrative as well as provide a detailed technical memorandum describing the results and methodology to be included as an appendix. The technical memorandum will clearly explain all assumptions used, how they were derived, and will cite sources where appropriate. We will include qualitative descriptions of benefits that could not be quantified or monetized due to lack of sufficient data or guidance from USDOT to make the most compelling case for the project's benefits.

The person responsible for QA/QC will review the technical memorandum, ensuring that all information from the model is correctly conveyed and described. The reviewer will also consider concerns that USDOT reviewers could raise and ensure they are documented appropriately in the memo.

Additional economic analyses may be undertaken to help convey a more compelling case for the project grant applications that conforms to Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant program criteria (e.g., regional and national economic vitality, potential for innovation). The draft BCA Reports will undergo review by the applicable MTS personnel and the draft document will be revised to address comments and recommendations by the reviewing team. We will update the BCA Reports to bring the applications to a final draft status. The applicable MTS personnel will participate in meetings and conference calls to address and clarify comments and revisions, and review tasks and materials needed to complete the application. It is anticipated WSP will attend up to two (2) debrief meetings with the USDOT to gain feedback on review of application and BCA.

OPTIONAL Task 7 Deliverables: BCA Model, BCA Report

OPTIONAL TASK 8: ROW SUPPORT

It is understood that five (5) parcels will be require acquisition of right of way for this project (APNs 541-611-04, 541-611-31, 541-611-34, 541-611-35, 541-611-27). In addition to acquisitions, relocation assistance services will be necessary for 14 businesses and 2 personal property displacements. Due to the complexity of the acquisitions and relocations, a Right of Way Acquisition Impact Report and a Relocation Impact Report will be necessary in order to determine both the capital and support costs required for the effort, and to identify any potential concerns that may need to be addressed during the acquisition and relocation phases of the project. It is anticipated the following parcels and business operations will require acquisition and relocation services as part of this project, and will be addressed in the proposed reports:

APN 541-611-04: There are 8 operating businesses and 1 potential vacant suite with personal property being stored inside. The businesses include:

- 1. San Diego Scale Company 4510 Federal
- 2. Half Off Wholesale 4520A Federal
- 3. Cal Auctions 4514 Federal
- 4. Sanwood Fine Carpentry 4514 Federal, Ste D
- 5. Proactive Concrete (didn't see an address)
- 6. H & H Investments 4506 Federal, Ste B
- 7. Allpro Stickers 4506 Federal, Ste C
- 8. Dropkick Brew 4506 Federal, Ste D
- 9. No operating business but appears to be full of personal property 4506 Federal, Ste A

APN 541-611-31: There are 2 businesses and a lot of personal property on site. These businesses include:

- 1. Pacific Insulation
- 2. Distribution International

APN 541-611-34: There are 3 businesses on this parcel. These businesses include:

- 1. Antonio's Metal Works 4582 Federal
- 2. Mixed Media Gallery 4576 Federal
- 3. Business with personal property being stored outside

APN 541-611-35: This is a smaller parcel within parcel 541-611-34. It is owned by Airtouch Cellular-San Diego H & H Investment Co.

APN 541-611-27: This is a parking lot but does not appear to be used for parking at this time. There is personal property being stored on site which includes but is not limited to: large amounts of dirt, shipping containers, and heavy equipment. This property is under the same ownership as properties located on the opposite of Federal Boulevard and may pose potential severance damages to the larger parcel. As the project affected parcel's use is directly related to the parcel located opposite of Federal Boulevard which is currently being used as a distribution center.

Dokken will perform the services listed below for the project:

8.1 Right of Way Acquisition Impact Report

Using recorded data, an assessment of impacts including both capital and support costs will be documented in a right of way acquisition impact report. This report will accurately describe all right-of-way impacts for one preferred proposed alignment. Additionally, Dokken will prepare a draft and final Right of Way Impact Report and will present recommendations to MTS for review and comment. Dokken will obtain updated preliminary title reports, as necessary.

8.2 Relocation Impact Report

A Relocation Impact Report will be prepared as this project will require complex nonresidential relocations, potential lack of available replacement property, and special considerations due to business operations. There are 14 operating businesses and two potential personal property displacements that will require relocation assistance services.

This report will include the following information:

- Project Description that includes: project location map, project limits and alignment map, and project summary sheet
- Number of displacement units
- Types of nonresidential units displaced and estimated size of operations
- Survey/Interview of displaces
- Identification of special problems
- Proposed solutions for noted problems
- Cost Estimates for capital and support costs

<u>OPTIONAL Task 8 Deliverables:</u> Draft and Final Right of Way Acquisition Report, Updated Preliminary Title Reports, Draft and Final Relocation Impact Report

III. PERIOD OF PERFORMANCE

Services shall be completed within twenty-seven (34) weeks from the date of execution.

IV. DELIVERABLES

Final programming and concept plan documents will be prepared and anticipated to be delivered within 34 weeks of NTP.

V. SCHEDULE OF SERVICES/MILESTONES/DELIVERABLES

A.	TASK		Begin/End Dates
TASK	1:	Project Management	1 Week

TASK 2:	Workshops	1 Week				
TASK 3:	Final Space and Function Programming	3 Weeks				
TASK 4:	Final Programming Document	8 Weeks				
TASK 5:	Schematic Design (15%)	34 Weeks				
TASK 6:	Programming Level Cost Estimate	34 Weeks				
OPTIONAL Task 7: Grant Support/Benefit Cost Analysis TBD						
	ask 8: ROW Support	TBD				
B. Milesto	one/Deliverable Schedule	Begin/End Dates				
Monthly Prog	ress Reports	Monthly				
Final Programming Document 8 Weeks						
Schematic De	Schematic Design (15%) 34 Weeks					
Programming Level Cost Estimate 34 Weeks						

VI. MATERIALS TO BE PROVIDED BY MTS AND/OR THE OTHER AGENCY

Project documentation and background reports from prior work efforts will be provided by Dokken/MTS.

VII. SPECIAL CONDITIONS

Any condition listed below applies solely to this Work Order and does not otherwise alter the Agreement or other Work Orders. The Scope and Fees are based on the following assumptions.

- A. This task order will be limited to the time and materials fee budget negotiated as shown in Attachment B.
- B. All deliverables will be provided in electronic PDF format unless otherwise noted.
- C. Aerial survey and boundary from record obtained during the previous phase will be suitable for this next phase of design. If field topography, plats/legals or other survey is requested, it can be provided for an additional fee.
- D. It was discussed with MTS that geotechnical explorations and recommendations would likely occur six to eight months after NTP. Scope and fee for these services are excluded and can be provided at a later date.

VIII. MTS ACCEPTANCE OF SERVICES:

Contractor shall not be compensated at any time for unauthorized work outside of this Work Order. Contractor shall provide notice to MTS' Project Manager upon 100% completion of this Work Order. Within five (5) business days from receipt of notice of Work Order completion, MTS' Project Manager shall review, for acceptance, the 100% completion notice. If Contractor provides final service(s) or final work product(s) which are found to be unacceptable due to Contractors and/or Contractor's subcontractors negligence and thus not 100% complete by MTS' Project Manager, Contractor shall be required to make revisions to said service(s) and/or work product(s) within the Not to Exceed (NTE) Budget. MTS reserves the right to withhold payment associated with this Work Order until the Project Manager provides written acceptance for the 100% final completion notice. Moreover, 100% acceptance and final completion will be based on resolution of comments received to the draft documents and delivery of final documentation which shall incorporate all MTS revisions and comments.

Monthly progress payments shall be based on hours performed for each person/classification identified in the attached Fee Schedule and shall at no time exceed the NTE. Contractor shall only be compensated for actual performance of services and at no time shall be compensated for services for which MTS does not have an accepted deliverable or written proof and MTS acceptance of services performed.

IX. DEFICIENT WORK PRODUCT:

Throughout the construction management and/or implementation phases associated with the services rendered by the Contractor, if MTS finds any work product provided by Contractor to be deficient and the deficiently delays any portion of the project, Contractor shall bear the full burden of their deficient work and shall be responsible for taking all corrective actions to remedy their deficient work product including but not limited to the following:

Revising provided documents

At no time will MTS be required to correct any portion of the Contractors deficient work product and shall bear no costs or burden associated with Contractors deficient performance and/or work product.

X. DELIVERABLE REQUIREMENTS

Contractor will be required to submit any and all documentation required by the Scope of Work. The deliverables furnished shall be of a quality acceptable to MTS. The criteria for acceptance shall be a product of neat appearance, well-organized, and procedurally, technically and grammatically correct. MTS reserves the right to request a change in the format if it doesn't satisfy MTS's needs. All work products will become the property of MTS. MTS reserves the right to disclose any reports or material provided by the Contractor to any third party.

Contractor shall provide with each task, a work plan showing the deliverables schedule as well as other relevant date needed for Contractor's work control, when and as requested by MTS.

Contractor's computer data processing and work processing capabilities and data storage should be compatible with Windows compatible PC's, text files readable in Microsoft Word, and standard and customary electronic storage. Contractor shall maintain backup copies of all data conveyed to MTS.

Contractor shall provide MTS with hard copy or electronic versions of reports and/or other material as requested by MTS.

XI. PRICING

Except where otherwise noted herein, pricing shall be firm and fixed for the duration of the Work Order and any subsequent Change Orders/Amendments to the Work Order. There shall be no escalation of rates or fees allowed.

XII. ADDITIONAL INFORMATION

List additional information as applicable to the specific Work Order scope of services.

XIII. PREVAILING WAGE

Prevailing wage rates apply to certain personnel for these services? □Yes ☑ No



ATTACHMENT B NEGOTIATED FEE PROPOSAL



MTS Doc. No. Work Order No.

PWL353.0-22 WOA353-AE-20.01

Attachment:

В

MTS Clean Transit Advancement Campus (CTAC), Work Order Title: formerly known as Division 6 – Amendment 1 - 15% Concept Plan Design Services

Project No:

Table 1 - Cost Codes Summary (Costs & Hours)

Item	Cost Codes	Cost Codes Description	Total Costs
1	Labor	Direct Labor	\$1,200,279.08
2	ODC	Other Direct Costs	\$38,392.00

Totals =

\$1,238,671.08

Table 2 - TASKS/WBS Summary (Costs & Hours)

Item	TASKS/WBS	TASKS/WBS Description	Labor Hrs	Total Costs
1	Task 1	Project Management	496	\$117,881.20
2	Task 2	MTS Workshops	613	\$132,476.84
3	Task 3	Space and Function Programming	84	\$63,052.52
4	Task 4	Draft and Final Programming Document	952	\$163,197.12
5	Task 5	15% Schematic Design	3,063	\$463,452.69
6	Task 6	Programming Level Cost Estimate	531	\$100,943.32
7	OPTIONAL Task 7	Benefit Cost Analysis	490	\$114,125.04
8	OPTIONAL Task 8	Right of Way Support	505	\$83,542.35

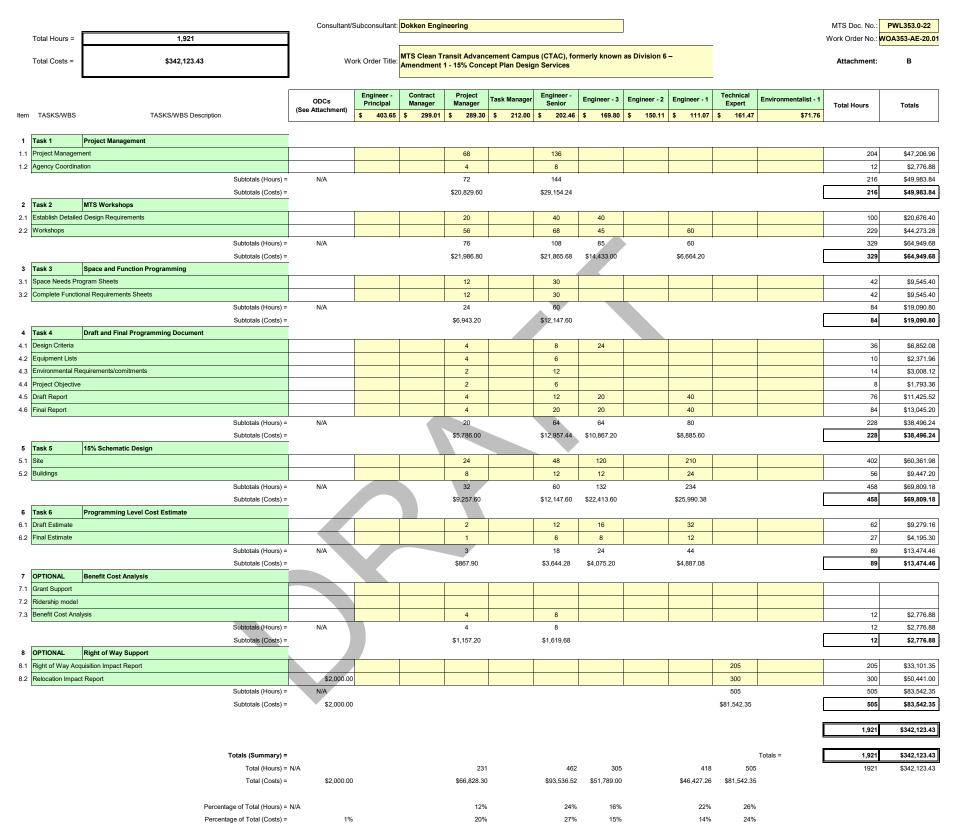
Totals = 6,734 \$1,238,671.08

Table 3 - Consultant/Subconsultant Summary (Costs & Hours)

(If App	olicable	icable, Select One)				
DBE	DVBE	SBE	Other	Consultant	Labor Hrs	Total Costs
				Dokken Engineering	1,921	\$342,123.43
				WSP	5,037	\$896,547.65

Totals : 6,958 \$1,238,671.08

Work Order Estimate Summary



Work Order Estimate Summary

Consultant/ Subconsultant: Dokken Engineering Contract No: PWL353.0-22 WOA353-AE-Task Order No. 20.01 Work Order Title: MTS Clean Transit Advancement Campus (CTAC), formerly known as Division 6 – Amendment 1 - 15% Concept Plan Design Services Attachment: В TASKS/WBS (1-5) Task 2 Task 1 Task 3 Task 4 Task 5 ODC Item Description Unit **Unit Cost** Quantity Total Quantity Total Quantity Total Quantity Total Quantity Total Preliminary Title Reports EΑ 2 3 4 5 6 7 8 9 10 Subtotal = Subtotal = Subtotal = Subtotal = Subtotal : **TASKS/WBS (6-10)** Task 6 Task 7 Task 8 Totals ODC Item Quantity Description Quantity Total Quantity Total Total Quantity Total Quantity Total Quantity Total Preliminary Title Reports 4 \$2,000.00 4 \$2,000.00 2 3 4 5 6 7 8 9 10

Subtotal =

\$2,000.00

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Totals =

MTS Doc No : PWL353.0-22 Work Order No.: WOA353-AE-20.01 \$896 547 65 MTS Clean Transit Advancement Campus (CTAC), formerly known as Division 6 - Amendment 1 - 15% Concept Plan Design Services Total Hours Totals Senior Se \$5,077.72 280 \$67,897.36 \$29,420.16 \$3,734.08 \$4,115.76 \$1,499.50 \$2,999.00 \$1,199.60 \$4,376.96 \$6,967.50 Subtotals (Costs) 2 Task 2 MTS Workshops \$9.592.00 \$27.002.76 \$2,800.56 \$2,800.56 \$2,800.56 \$9,806.72 \$2,800.56 \$5,487.68 \$7,197.60 \$2,873.92 3 Task 3 Space and Function Programming 3.2 Complete Functional Requirements Sheets \$21,689.96 Subtotals (Costs) \$500.00 \$3,677.52 \$2,800.56 \$2,800.56 \$3,734.08 \$933.52 \$1,371.92 \$5,998.00 212 \$43,961.72 4 Task 4 Draft and Final Programming Document 152 \$25,961.04 4.4 Project Objective 4.6 Final Report 72 50 50 50 24 16 80 160 20 20 12 8 120 20 \$16,803.36 \$11,669.00 \$11,669.00 \$5,601.12 \$3,734.08 \$13,719.20 \$23,992.00 \$2,999.00 \$2,999.00 \$1,799.40 \$1,199.60 \$10,777.20 \$2,999.00
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 6 2 296 \$53,765.58 7.3 Benefit Cost Analysis \$4,290.44 \$1,791.30 \$24,500.00 \$2,664.24 \$1,799.40 \$2,787.00 Subtotals (Costs) = 490 \$111,348.16 Subtotals (Costs) = 5,037 \$896,547.65 5,037 \$896,547.65 5037 \$PC Totals (Summary) = 32 56 56 112 210 18 32 108 88 94 36 54 196 404 509 453 50 16 252 38 28 168 202 152 420 485 310 40 13 51 34 80 30 160 30 20 54 58,032.00 \$10,656.96 \$10,807.44 \$21,807.74 \$22,807.00 \$45,056 Total (Costs) =

Percentage of Total (Hours) = N/A

Work Order Estimate Summary

TASKS/WBS (1-5)

ODC				Tas	k 1	Tas	k 2	Tas	sk 3	Tas	sk 4	Ta	sk 5
Item	Description	Unit	Unit Cost	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
1	Repro & Graphics	EA	\$1.00					500	\$500.00	500	\$500.00	1,000	\$1,000.00
2	Parking	EA	\$20.00			4	\$80.00						
3	SANDAG MODEL	LS	\$24,000.00										
4	RT Air - Houston-SD	EA	\$500.00			2	\$1,000.00						
5	RT Air - Atlanta-SD	EA	\$700.00			1	\$700.00						
6	RT Air - Seattle-SD	EA	\$400.00			2	\$800.00						
7	Hotel	EA	\$220.00			20	\$4,400.00						
8	Rental Car	Day	\$75.00			12	\$900.00						
9	Meals	Day	\$80.00			20	\$1,600.00						
10	mileage	MI	\$0.56			200	\$112.00						

Subtotal = Subtotal = \$9,592.00 Subtotal = \$500.00 Subtotal = \$500.00 Subtotal = \$1,000.00

TASKS/WBS (6-10)

						TAONO/II	DO (0 10)						
ODC		Т	ask 6	Tas	k 7							Tota	als
Item	Description	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
1	Repro & Graphics	300	\$300.00	500	\$500.00							2,800	\$2,800.00
2	Parking											4	\$80.00
3	SANDAG MODEL			1	\$24,000.00							1	\$24,000.00
4	RT Air - Houston-SD											2	\$1,000.00
5	RT Air - Atlanta-SD											1	\$700.00
6	RT Air - Seattle-SD											2	\$800.00
7	Hotel											20	\$4,400.00
8	Rental Car											12	\$900.00
9	Meals											20	\$1,600.00
10	mileage				7							200	\$112.00
		Subtotal =	\$300.00	Subtotal =	\$24,500.00	Subtotal =		Subtotal =		Subtotal =		Totals =	\$36,392.00



Agenda Item No. 19

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Communications (Comm) Cabinets HVAC Maintenance - Contract Award

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute MTS Doc. No. PWG365.0-23 (in substantially the same format as Attachment A) with Comfort Mechanical, a Small Business (SB), at \$889,846, for HVAC preventative maintenance and inspection services for comm cabinets.

Budget Impact

The total cost for this project is estimated to be \$889,846. The project will be funded by the Light Rail Vehicle (LRV) Maintenance Operating Budget 350016-545100.

DISCUSSION:

MTS requires preventive maintenance services, including, but not limited to, inspection, testing, parts replacement, repairs of equipment, and heating ventilation air conditioning (HVAC) servicing for comm cabinets at various MTS facilities and locations. MTS operates comm cabinets that houses and organizes the agency's communication, Information Technology (IT) and security equipment. These organizational assets are susceptible to damage by heat and debris if their HVAC systems are not properly maintained at an optimum efficiency.

On June 9, 2023, MTS issued a Request for Proposals (RFP) for Comm Cabinet HVAC Maintenance, for a five (5) year period. MTS received two (2) proposals by the due date of July 10, 2023 from the following firms:

Firm Name	Certifications
Comfort Mechanical	SB
Paradigm Mechanical	Disadvantaged Business Enterprise (DBE)



Both firms were deemed responsive and responsible by MTS. A selection committee, consisting of representatives from Bus Rapid Transit (BRT), Maintenance of Way (MOW), and Finance departments met for initial evaluations and scored the proposals based on the criteria below:

Criteria	%
Qualifications of the Firm or Individual	25
Staffing, Organization, and Management Plan	20
Work Plan	20
Cost and Price	35
Total Possible Score	100

During the initial evaluation, the selection committee scored and ranked the firms as follows:

Rank	Firm Name	Technical (Max 65%)	Cost (Max 35%)	Proposed Cost	Total Score
1	Paradigm Mechanical	40.67	35.00	\$ 528,385.76	75.67
2	Comfort Mechanical	46.33	20.78	\$ 890,138.00	67.11

Following the initial evaluations, the selection committee requested clarifications/revised proposals from both firms. After receipt of the revised proposals, the panel reconvened, and using the aforementioned evaluation criteria, re-evaluated the proposals from both firms.

Rank	Firm Name	Technical (Max 75%)	Cost (Max 35%)	Proposed Cost	Total Score
1	Comfort Mechanical	55.00	20.78	\$889,846.00	75.78
2	Paradigm Mechanical	39.00	35.00	\$780,580.00	74.00

During the second evaluation, the selection committee noticed that Paradigm increased their pricing by \$252,194.24. This was in response to MTS's requests for clarifications verifying if their initial proposal included prevailing wage rates. Their qualifications in HVAC maintenance, based on their references, were only in the installation of HVAC systems rather than the maintenance of HVAC systems.

The selection committee determined Comfort's overall proposal to be the most advantageous to MTS due to past and current performance with MTS, knowledge of the HVAC systems infrastructure throughout the agency, and their reliable staffing and services. The selection committee commenced negotiations with the firm. Comfort Mechanical proposed the option to increase preventative maintenance from quarterly to bi-monthly citing that in the long run, it would curb out-of-scope costs based on their experience working on MTS comm cabinets. Comfort lowered their proposal to \$889,846 and will perform preventative maintenance six times per year (bi-monthly).

Agenda Item No. 19 September 14, 2023 Page 3 of 3

Therefore, staff recommends that the MTS Board of Directors authorize the CEO to execute MTS Doc. No. PWG365.0-23 (in substantially the same format as Attachment A) with Comfort Mechanical, a SB, at \$889,846 for HVAC preventative maintenance and inspection services for comm cabinets.

/S/ Sharon Cooney_

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft MTS Doc. No. PWG365.0-23

B. Scope of WorkC. Cost Form

Address: 10740 Kenney Street, Ste. 405

Santee,

 $\mathsf{C}\mathsf{A}$

92071

STANDARD AGREEMENT FOR

MTS DOC. NO. PWG365.0-23

THIS AGREEMENT is entered into this <u>1st</u> day of <u>October</u>, 2023 in the State of California by and between San Diego Metropolitan Transit System ("MTS"), a California public agency, and the following, hereinafter referred to as "Contractor":

Name: Comfort Mechanical

Telephone:(619) 449-3886 Authorized person to sign contracts Sean Caviness President Name Title The Contractor agrees to provide goods as specified in the conformed Scope of Work/Technical Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Formal (Exhibit E).	Form of Business: Corporation			City	State	Zip
Authorized person to sign contracts Sean Caviness Name Title The Contractor agrees to provide goods as specified in the conformed Scope of Work/Technica Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Form			Email:	sean@con	nfortmechanio	cal.org
Name Title The Contractor agrees to provide goods as specified in the conformed Scope of Work/Technica Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Form	Telephone: (619) 449-3886					
The Contractor agrees to provide goods as specified in the conformed Scope of Work/Technica Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Form	Authorized person to sign contracts S	ean Caviness			President	
Specification (Exhibit A), Contractor's Cost/Pricing Form (Exhibit B), and in accordance with the Standard Agreement, including Standard Conditions (Exhibit C), Federal Requirements (Exhibit D), and Form		Name			Title	
	Specification (Exhibit A), Contractor's Cost/Prici Agreement, including Standard Conditions (Exhibit A)	ing Form (Exh	ibit B), a	and in accord	dance with the	e Standard
The contract term is for five (5) years effective October 1, 2023 through September 30, 2028.	The contract term is for five (5) years effective (October 1, 202	23 throu	ıgh Septeml	per 30, 2028.	
Payment terms shall be net 30 days from invoice date. The total cost of this contract shall not exceed \$889,846.00 without the express written consent of MTS.			total co	ost of this co	ontract shall n	ot exceed
SAN DIEGO METROPOLITAN TRANSIT SYSTEM COMFORT MECHANICAL	SAN DIEGO METROPOLITAN TRANSIT SYS	STEM	CC	MFORT ME	CHANICAL	
By:	By:					
Sharon Cooney, Chief Executive Officer By	Sharon Cooney, Chief Executive Officer	Ву				
Approved as to form:	Approved as to form:					
By: Title:	Ву:	Title:				
Karen Landers, General Counsel	Karen Landers, General Counsel					

SCOPE OF WORK/TECHNICAL SPECIFICATIONS

5.1. INTRODUCTION

The San Diego Metropolitan Transit System ("MTS") is seeking proposals for preventive maintenance services, including, but not limited to, inspection, testing, parts replacement, repairs of equipment, and heating ventilation air conditioning (HVAC) servicing for communications (comm) cabinets at various MTS facilities and locations.

5.2. BACKGROUND

Located within various bus and trolley stations, MTS operates comm cabinets that houses and organizes the agency's communication, IT and security equipment. These organizational assets are susceptible to damage by heat and debris if their HVAC systems are not properly maintained at an optimum efficiency. With that said, the Contractor shall furnish all labor, equipment, materials, parts, permits, insurance, supervision and transportation necessary to maintain HVAC systems and provide full maintenance service. This agreement does not include work in new construction.

5.3. PERIOD OF PERFORMANCE

The term of the agreement shall be for a five (5) year period. The period of performance shall commence on October 1, 2023 through September 30, 2028.

5.4. PREVENTIVE MAINTENANCE

For the purpose of this contract, routine preventive HVAC maintenance shall be defined as scheduled routine inspection, adjustments, cleaning, minor repairs, testing and inspecting equipment to reduce or avoid service interruption in strict compliance with the relevant equipment manufacturer's recommendations. MTS requires the contractor to have spare parts and units on-hand if replacement parts and units are required.

Routine preventive maintenance and repairs shall be provided in accordance with the highest standards of the industry, skill, workmanship, applicable trade practices, meet warranties and in conformance to all applicable laws, codes and regulations. Contractor shall provide oversight and documentation of preventive maintenance on all HVAC systems and provide quarterly data to the MTS PM. In addition, Contractor must provide a maintenance checklist for approval prior to the contract performance. In consultation with the MTS PM, the Contractor's maintenance program and repairs shall, at a minimum, include, but not limited to, the specifications outlined herein:

- A. Provide quarterly inspections and maintenance to all air conditioner units, for all station locations (see Attachment 2).
- B. Maintain all HVAC units per manufacturer specifications, including filter cleaning and/or replacement of any parts during each inspection. Spec sheets for the HVAC units will be provided by MTS (see Attachment 3).
- C. Provide an appropriate level of on-site staffing as needed, with appropriate tools, equipment, and vehicles necessary to support all facility HVAC maintenance functions.

- D. Staffing shall be certified and proficient in the complete maintenance and repair of McLean T-Series Air Conditioners and various HVAC units.
- E. Prior to beginning any repair or replacement, Contractor shall troubleshoot the system to diagnose any problems.
- F. Services are to be compliant with all Federal, State, County, City, CARB, OSHA, and all other applicable regulatory requirements, including MTS safety requirements. All required forms must be provided by the Contractor but approved by MTS.
- G. Repair or replace, at no additional charge to the contract, failed or worn moving parts including, but not limited to: compressor, fittings, air filters, grilles, blower/impeller motors, bearings, shafts, thermostat, capacitor, relay, valves, overload switch, breaker/fuse, and condenser coils. Repaired or replacement parts must be installed by the contractor. Faulty parts must be disposed by Contractor.
- H. Itemize the equipment list covered under repair or replacement.
- I. Clean and vacuum any dirt/debris inside the communication cabinet without damaging any other electronic equipment/components.
- J. Make a general inspection of the unit and related system for any unusual sound or condition, leak, etc., then investigate and correct them.
- K. Cycle the unit through a sequence of operation in order to determine if the operating conditions and sequences are correct; make any necessary adjustments and calibrations to insure proper operation of equipment.
- L. Check electrical circuits, check all terminals, tighten all lugs as needed, ensure fans are operational.
- M. Check control system for proper response and operation. Adjust, as required, to maintain energy conservation measured as directed by the State of California.
- N. Examine air conditioning system for leaks in soldered and flange joints; repair as needed.
- O. Clean heating and cooling coils; repair as needed.
- P. Check motor and fan blades for cleanliness and balance, remove dirt or grease and lubricate motor if bearings are not sealed type.
- Q. Assist with all service calls from MTS required to keep the equipment operating at an optimal level.
- R. Test and/or calibrate all thermostat and/or sensors annually for proper temperature reporting.
- S. Inspection and/or repair records must be submitted, within one (1) week of completion, to the MTS PM.
- T. Advise MTS of the availability of generic HVAC control system upgrades, as they become available.
- U. Provide MSDS sheets to MTS in a complete "Right to Know" binder for all products used in MTS facilities. MTS will determine location of "Right to Know" binders.

5.5. AS-NEEDED REPAIRS

As-needed repairs is defined as unscheduled work, other than preventive maintenance, that requires immediate action to restore equipment or system operations. It also involves

correcting mechanical problems that will cause imminent interruption of operations or will cause damage to operating equipment.

Contractor shall provide 24-hour emergency services, as needed, in all aspects of HVAC emergency repairs included in these specifications. Contractor shall have working personnel on-site within two (2) hours of the call-out. Failure of the Contractor to provide as-needed repairs within the stated time frame, may be cause to consider the Contractor in default of the contract.

As-needed repairs will be capped at \$4,999.99 per instance, unless there is a prior arrangement with the MTS Project Manager (MTS PM) or designee, and an approval was granted. A quote must be submitted and approved by the MTS PM before any unscheduled work is started. Contractor must provide proof of material costs when submitting invoices.

If temporary measures are taken to restore operation, then permanent repair service shall be completed within five (5) working days.

MTS is not responsible for parts for as-needed repairs that are due to misuse or negligence by the Contractor.

5.6. MAJOR REPAIRS

After a report is made, the Contractor has two (2) days from the report to correct an equipment or system failure that results in the loss of essential services. To assist in the two (2) day repair, the Contractor shall procure a standby unit. In the event repairs are going to take longer than two (2) days, the Contractor must install the standby unit. The bad unit must be returned to the shop and once repaired, it will become the standby unit.

Repairs includes locating the trouble, obtaining parts, installation of parts and placing of the equipment back into complete operational services. Every effort shall be made to expedite any and all repairs in accordance with set limits. Inability to obtain parts or special technical or engineering services will not be considered reason to extend this time period.

MTS reserves the right to seek competitive bids for all major overhauls and repairs as may be required during the term of the contract. The Contractor shall work cooperatively with any other Contractor that MTS may have to perform any major repairs. If MTS elects to use the contractor, the parts and labor rates included in this contract shall apply.

Major repairs may be excluded from the scope of the Contract at the discretion of the agency. However, the MTS may direct the Contractor to perform a major repair and the Contractor will be bound to the rates on the contract. For this instance, only freight charges will be billed direct to MTS and reimbursed to the Contractor. The invoice shall contain the necessary allocation of costs with supporting documentation.

MTS is not responsible for parts for major repairs that are due to misuse or negligence by the Contractor.

5.7. SERVICE REPORTS

A separate log must be maintained for preventive maintenance, as-needed repairs and major repairs, each time the Contractor performs work at the communications cabinet locations.

The Contractor shall submit service reports to MTS PM for each visit to the site, whether for preventive maintenance, as-needed repairs or major repair services. The service reports shall be prepared in sufficient detail and description with the date, equipment location, job hours and specific work performed. The MTS PM or designee will review the work with the service personnel and sign the service report to acknowledge satisfactory completion of the work as described. Report will be generated on a nonproprietary software program and emailed to the MTS PM within one (1) week.

5.8. BILLABLE WORK

All work beyond, and in addition to the scope of the contract, shall be considered billable and will require that an estimate for that proposed work be provided to MTS PM for consideration and approval prior to work being completed. It is Contractor's sole responsibility to obtain written prior approval from MTS for all work otherwise MTS may not be responsible for payment of work not approved.

5.9. PROFESSIONAL REQUIREMENTS

Contractor shall hold current C10 and/or C20 licenses. Employees shall possess a State of California Joint Journeyman Apprentice Training Center certification. Automation specialists are to be continually factory-trained on a variety of HVAC control systems. Contractor shall provide operator coaching and on-site training of their select personnel as needed. Contractor shall supply its staff with a company uniform and photo identification tags that will be worn at all times. Uniforms shall display the Contractor logo and employee first or last name shall be clearly visible.

5.10. MTS RIGHT TO INSPECT

MTS reserves the right to make such evaluations and tests as are necessary to ascertain that the requirements of this contract are being fulfilled. The MTS PM will conduct such evaluations and tests. Contractor shall furnish personnel and tools necessary to conduct such tests at no additional cost to MTS. These evaluations may be made on a quarterly basis (or on a more frequent basis as reasonably determined by MTS) during the term of this contract. Any deficiencies found during any such evaluations shall be reported in writing to Contractor, and Contractor shall promptly correct any such deficiency at its own expense. If Contractor fails to diligently perform any required corrective work in a manner satisfactory manner to MTS within thirty (30) calendar days of Contractor's receipt of any such deficiency report (or sooner if the deficiency is, in MTS's opinion, of a nature that requires immediate correction), MTS may, in addition to any other remedies MTS may have, after thirty (30) calendar days written notice to Contractor, perform or cause to be performed all or any part of the corrective work described in the deficiency notice. Contractor shall reimburse MTS for any expenses incurred by MTS in exercising its rights under this section within ten (10) business days of receipt of MTS invoice therefor unless MTS elects to deduct the costs from any sum owed to Contractor.

Any requested tests will be provided, and any reported deficiencies will be corrected at Contractor's expense, so long as the tests and deficiencies relate to the equipment being maintained by Contractor under this contract.

5.11. INVOICES

Invoices must be sent quarterly to the MTS Accounting Department, via email, at ap@sdmts.com. All invoices must have the Purchase Order and contract number clearly displayed to ensure timely payment. MTS will not pay on packing slips, receiving documents, delivery documents, or other similar documents. Invoices must be submitted for payment.

Payment terms shall be net 30 days from invoice date.

Contractors must also indicate if any of the invoiced amount(s) is for service or work provided by a subcontractor and indicate the amount that will be paid to the subcontractor. Contractors must also comply with the prompt payment requirements in the *Prompt Progress Payments* section of the Standard Conditions.

Contractor shall be required to submit an inspection form with its quarterly invoices. Inspection records must be submitted before payment. **Additional compensation will be allowed by contractor's markup percentage.** Contractor must provide supporting documentation to show actual cost paid for parts or material that they obtained from their suppliers.

5.12. MATERIAL SAFETY DATA SHEETS (MSDS)

MTS retains the safety data sheets on an electronic database (currently CloudSDS). Upon award, Contractors shall email the MSDS for chemicals that any individuals may be exposed to, attention Ngan Nguyen, MTS Environmental Health and Safety Specialist at Nguyen@sdmts.com to upload into the database. The Contractor shall notify the MTS Environmental Health and Safety Specialist if there are changes or updates to the MSDS during the term of the contract to ensure the MTS database is kept updated throughout the contract.

5.13. NO RIGHT TO POST SIGNS

The Contractor shall not post or otherwise affix signs, decals or other media on MTS property or equipment, except as required to maintain safety during the course of repair or maintenance work. No permanent signs, decals, or other media may be installed without MTS's express written permission.

				MTS C	ost Pricing For	rm - C	омм (CABINET HV	AC MAINTEN	IANCE (MOV	W & BRT)		Att.(C, Al 19,	09/14/23	
Table I: HVAC PREVENTATIVE MAINTENANCE SERVICES						Year One (10/1/23 to 9/30/24)		Year Two (10/1/24 to 9/30/25)		Year Three (10/1/25 to 9/30/26)		Year Four (10/1/26 to 9/30/27)		Year Five (10/1/27 to 9/30/28)		
Group	Item	Manufacturer	Description	Qty *	Annual Service Frequency	Unit	t Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
мом	1	First Company	Comm Cabinet	1	6	\$	103.00	\$ 618.00	\$ 111.00	\$ 666.00	\$ 111.00	\$ 666.00	\$ 123.00	\$ 738.00	\$ 123.00	\$ 738.00
	2	McLean	Comm Cabinet	34	6	\$	103.00	\$ 21,012.00	\$ 111.00	\$ 22,644.00	\$ 111.00	\$ 22,644.00	\$ 123.00	\$ 25,092.00	\$ 123.00	\$ 25,092.00
	3	Pentair	Comm Cabinet	11	6	\$	103.00	\$ 6,798.00	\$ 111.00	\$ 7,326.00	\$ 111.00	\$ 7,326.00	\$ 123.00	\$ 8,118.00	\$ 123.00	\$ 8,118.00
	4	Carrier	Comm Cabinet	1	6	\$	103.00	\$ 618.00	\$ 111.00	\$ 666.00	\$ 111.00	\$ 666.00	\$ 123.00	\$ 738.00	\$ 123.00	\$ 738.00
	5	N Vent	Comm Cabinet	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	6	Data Air	Comm Room	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	7	Bard	Comm Room	4	6	\$	103.00	\$ 2,472.00	\$ 111.00	\$ 2,664.00	\$ 111.00	\$ 2,664.00	\$ 123.00	\$ 2,952.00	\$ 123.00	\$ 2,952.00
	8	Marvair	Comm Room	3	6	\$	103.00	\$ 1,854.00	\$ 111.00	\$ 1,998.00	\$ 111.00	\$ 1,998.00	\$ 123.00	\$ 2,214.00	\$ 123.00	\$ 2,214.00
	9	Mitsubishi	Comm Room	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	10	Johnson Control	Comm Room	4	6	\$	103.00	\$ 2,472.00	\$ 111.00	\$ 2,664.00	\$ 111.00	\$ 2,664.00	\$ 123.00	\$ 2,952.00	\$ 123.00	\$ 2,952.00
	11	N Vent	Comm Room	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	12	Compu Aire	Comm Room	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	13	Bard	Substation	34	6	\$	103.00	\$ 21,012.00	\$ 111.00	\$ 22,644.00	\$ 111.00	\$ 22,644.00	\$ 123.00	\$ 25,092.00	\$ 123.00	\$ 25,092.00
	14	Cook	Exhaust Fan	1	6	\$	103.00	\$ 618.00	\$ 111.00	\$ 666.00	\$ 111.00	\$ 666.00	\$ 123.00	\$ 738.00	\$ 123.00	\$ 738.00
	15	TCF	Exhaust Fan	3	6	\$	103.00	\$ 1,854.00	\$ 111.00	\$ 1,998.00	\$ 111.00	\$ 1,998.00	\$ 123.00	\$ 2,214.00	\$ 123.00	\$ 2,214.00
	16	Green Heck	Exhaust Fan	17	6	\$	103.00	\$ 10,506.00	\$ 111.00	\$ 11,322.00	\$ 111.00	\$ 11,322.00	\$ 123.00	\$ 12,546.00	\$ 123.00	\$ 12,546.00
	17	Pentair	Comm Cabinet	13	6	\$	103.00	\$ 8,034.00	\$ 111.00	\$ 8,658.00	\$ 111.00	\$ 8,658.00	\$ 123.00	\$ 9,594.00	\$ 123.00	\$ 9,594.00
BRT	18	Mitsubishi	Comm Room	2	6	\$	103.00	\$ 1,236.00	\$ 111.00	\$ 1,332.00	\$ 111.00	\$ 1,332.00	\$ 123.00	\$ 1,476.00	\$ 123.00	\$ 1,476.00
	19	Kooltronic	Mini AC Box	4	6	\$	103.00	\$ 2,472.00	\$ 111.00	\$ 2,664.00	\$ 111.00	\$ 2,664.00	\$ 123.00	\$ 2,952.00	\$ 123.00	\$ 2,952.00
	20	Fujitsu	Mini-split AC	4	6	\$	103.00	\$ 2,472.00	\$ 111.00	\$ 2,664.00	\$ 111.00	\$ 2,664.00	\$ 123.00	\$ 2,952.00	\$ 123.00	\$ 2,952.00
					Table I Subtotals			\$ 90,228.00		\$ 97,236.00		\$ 97,236.00		\$ 107,748.00		\$ 107,748.00
											' '					
	Table II: AS-NEEDED LABOR					Year O	Year One (10/1/23 to 9/30/24)		Year Two (10/1/24 to 9/30/25)		Year Three (10/1/25 to 9/30/26)		Year Four (10/1/26 to 9/30/27)		Year Five (10/1/27 to 9/30/28)	
	Item	Description Estimated Annual Hours *			Unit	t Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	
	1	Straight Time Hou	rly Rate®		280	\$	140.00	\$ 39,200.00	\$ 150.00	\$ 42,000.00	\$ 150.00	\$ 42,000.00	\$ 160.00	\$ 44,800.00	\$ 160.00	\$ 44,800.00
	2	After Hours Hourly	Rate (evenings, weekends and holidays)		40	\$	210.00	\$ 8,400.00	\$ 225.00	\$ 9,000.00	\$ 225.00	\$ 9,000.00	\$ 240.00	\$ 9,600.00	\$ 240.00	\$ 9,600.00
Table II Subtotals:								\$ 47,600.00		\$ 51,000.00		\$ 51,000.00		\$ 54,400.00		\$ 54,400.00
Table III: AS-NEEDED REPLACEMENT PARTS						Year One (10/1/23 to 9/30/24)		Year Two (10/1/24 to 9/30/25)		Year Three (10/1/25 to 9/30/26)		Year Four (10/1/26 to 9/30/27)		Year Five (10/1/27 to 9/30/28)		
	Item		Description			% M	ark Up	Item Total	% Mark Up	Item Total	% Mark Up	Item Total	% Mark Up	Item Total	% Mark Up	Item Total
	1	Annual Materials/Parts Allowance						\$ 25,000.00		\$ 25,000.00		\$ 25,000.00	•	\$ 25,000.00	•	\$ 25,000.00
	2	Materials markup				1 .	5%	\$ 1,250.00	5%	\$ 1,250.00	5%	\$ 1,250.00	5%	\$ 1,250.00	5%	\$ 1,250.00
		•		Т	able III Subtotals:			\$ 26,250.00		\$ 26,250.00		\$ 26,250.00		\$ 26,250.00		\$ 26,250.00
					0			000 010 01		•		•				
Grand Total \$								889,846.00								

^{*}Prices are firm-fixed and all inclusive. MTS will not pay additional costs. These quantities are for evaluation purposes and do not reflect guranteed usage by MTS.



Agenda Item No. 20

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Additional Staffing – One (1) PRONTO Support Specialist and three (3) Call/Service Center Representatives

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to add one (1) PRONTO Support Specialist and three (3) Call/Service Center Representatives to the position tables previously approved in the Fiscal Year 2024 budget.

Budget Impact

The PRONTO Support Specialist will be in Salary Grade #3 (\$28,832 - \$56,746), and the Call/Service Center Representatives will be in Salary Grade #2 (\$30,160 - \$49,344). PRONTO Support Center costs are shared with San Diego Association of Governments and North County Transit District per the PRONTO Memorandum of Understanding (MOU), and thus the total net cost of the additional positions (including both wage and benefits) for MTS would be approximately \$143,000 annually. The expense would be added into the annual PRONTO Support budget, and first reflected in the Fiscal Year 2024 mid-year budget amendment.

DISCUSSION:

The PRONTO Support Center provides customer and institutional support for the region's fare collection system. Since the transition to PRONTO, this support center has significantly expanded in terms of customer requests as well as fulfilment functions. Unlike the Compass system that had extensive waiting periods for transactions processed through the call center, PRONTO is a real-time, account-based system, and support center transactions are instantly available to the customer, providing a higher level of service.

Online card orders for customers and institutional partners, bulk social service day passes, and Access paratransit ticket book sales are all processed/fulfilled through the PRONTO Support Center, which are new functions for this staff since the transition to PRONTO. PRONTO Support Specialists provide dedicated oversight, training, and support for the PRONTO Partners



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and Partners+ institutional accounts, in addition to assisting the Call/Service Center Representatives with the rest of the PRONTO Support Center functions.

The PRONTO Support Center has experienced call volume increases of more than 90% compared to volumes from Compass (pre-Covid), and has been unable to achieve the service metrics of the other MTS call centers since the launch of PRONTO in August 2021. PRONTO call handle times have also been extended with the integration of more compliant credit card processing standards, causing riders long wait times to receive assistance (nearly ten times longer than the waits in the other MTS call centers). The upcoming addition of the online reduced fare portal will also require PRONTO Support staff to validate documentation pertaining to reduced fare eligibility. These additional positions will help improve the customer experience when calling PRONTO Support, as well as better prepare the PRONTO Support Center to support the online reduced fare portal.

Today's proposed action would authorize the CEO to create additional full-time employment positions for one PRONTO Support Specialist and three Call/Service Center Representatives, and to fund them in the Fiscal Year 2024 budget.

/S/ Sharon Cooney Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com



MTS STAFF USE ONLY
Public Comment
AI #: ____ Date: 9 /14 / 23
No. in queue: ____

IN - PERSON PUBLIC COMMENT

SPEAKER INFORM	MATION (please print)
Agenda Item No.:	#17 00 00 TO 375
Name:	DAVID RODGER Telephone: 619-750-335
Email:	GOAPPROGNAIL COM
City of Residence:	SANDIEGO DO DO DE DE GAME BENEGAT
Remark Subject: Affiliated Organization:	FIX RIDER SHIP PROBLEMS BEFORE SPENDING MARKETING MONEY
	X(0)

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to two minutes per person, unless specified by the Chairperson. Please make your comment at the podium located on the right side of the dais. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard two-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD

A paraphrased version of this comment will be included in the minutes. The full comment can be heard by reviewing the recording posted on the respective meeting website: https://www.sdmts.com/about/meetings-and-agendas. This form will be included in the Meeting Materials posted on the respective MTS meeting site.





CALL – IN PUBLIC COMMENT

Truth, provided a public comment for agenda items #3-20. A paraphrased version of Truth's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to three minutes per person, unless specified by the Chairperson. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard three-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD

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CALL – IN PUBLIC COMMENT

The Original DRA, provided a public comment for agenda item #3-20. A paraphrased version of The Original DRA's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to three minutes per person, unless specified by the Chairperson. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard three-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD

A paraphrased version of this comment will be included in the minutes. The full comment can be heard by reviewing the recording posted on the respective meeting website: https://www.sdmts.com/about/meetings-and-agendas.





Agenda Item No. 21

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

PRONTO Fare Collection System – Contract Amendment (Israel Maldonado)

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors authorize the Chief Executive Officer (CEO) to execute Amendment 17 to MTS Doc. No. G2091.0-18 (in substantially the same format as Attachment A), with Innovations in Transportation, Inc. (INIT), for Open Payment and Inspection App Solution, in the amount of \$1,224,387.98.

Budget Impact

The total cost of this amendment is estimated to be \$1,224,387.98, bringing the total Board approved amount to \$46,824,395.85. This project is funded by Capital Improvement Program (CIP) 1009004902 – Fare System Upgrades and Operations 535010.

Amendment details are shown on next page.

The remainder of this page is intentionally left blank



Date Issued	Board Approval Date	Document	Description	Amount
01/1/19	12/13/18	Original Agreement	Fare collection system (Capital only)	\$23,155,348.02
12/12/19	12/13/18	AM 1	Commence work on options previously approved on 12/13/18	\$1,416,531.01
12/18/19	12/12/19	AM 2	Commence work on new options	\$1,093,731.49
05/26/20	09/17/20	AM 3	Change Order - Integrate Conduent's CAD/AVL solution	\$57,681.00
09/17/20	09/17/20	AM 4	Change Order - Rail validator masts (design change and equipment order)	\$907,267.08
1/13/21	12/10/20	AM 5	Adds California (CA) sales tax; and Change Orders - revises TVM spare parts & cashless conversion kits, and adds gateway services	\$2,478,990.86
03/18/21	03/11/21	AM 6	Change Orders - Adds customer and institution website scope updates, adds a new reduced fares program enrollment, adds driver control unit screen flow changes, adds SAGE operator separation, adds Customer Relationship Module (CRM) payment encryption changes and applies the fare media capital credit	\$765,271.76
06/28/21	06/17/21	AM 7	Change Orders – Adds transfer and business rule changes to website and CRM; modified 2 phase bus validator and Driver Control Unit (DCU) installation; installation of modified ticket validator arm	\$270,050.09
09/13/21	11/18/21	AM 8	Change Orders - Additional SAGE software; and Salesforce licenses	\$37,816.95
11/18/21	11/18/21	AM 9	Change Order – PRONTO fare media card order	\$166,624.60
05/10/22	06/16/22	AM 10	Amend gateway services to add security and fraud prevention features at no additional cost; add new/revised federal requirements; and credit back to MTS \$902.11 from Amendment 9's incorrect tax amount	(\$902.11)
06/22/22	06/16/22	AM 11	Purchase 60 validators with polycarbonate; purchase 750K extended use cards & 150K limited use cards	\$1,768,948.64
06/22/22	09/15/22	AM 12	Change Orders - Display prepayments on invoices and monthly capping report	\$14,012.50
09/15/22	09/15/22	AM 13	Purchase twenty (20) permanent salesforce licenses, 36-month renewal period, from 8/24/2022 to 8/23/2025	\$129,600.00
09/15/22	09/15/22	AM 14	Adds TVM fare validation functionality	\$91,941.44
01/26/23	01/26/23	AM 15	Adds PRONTO In-App Messaging and annual maintenance	\$151,246.00
02/03/23	12/13/18	AM 16	Notice to Proceed the Operations and Maintenance phase per the original agreement; & approval of the start of the 10-year maintenance services that have been issued via various amendments	\$11,004,315.94
TBD	09/14/23	AM 17	Open Payment and Inspection App Solution	\$1,224,387.98
			Total Contract Authorized Amount	\$44,732,863.25
n/a	12/13/18	n/a	Unexecuted Options Remaining from Original Contract Approval (to be executed at a later date)	\$2,091,532.60
	•		Total Board Approval Amount	\$46,824,395.85

DISCUSSION:

On December 13, 2018 (Al 31), the MTS Board approved MTS Doc. No. G2091.0-18 with INIT for the design and implementation of a new fare collection system. This includes provision of services, equipment, software, parts, and support. The new fare system, PRONTO, was launched in September 2021, with the conversion from the prior Compass Card system completed on October 1, 2021.

Amendments 1-16 have subsequently been Board-approved to provide additional functionality, integration, and scope modifications.

Today's proposed action will approve Amendment 17 for Open Payment Validation and 10-year annual maintenance services.

Open Payment Validation has been in the PRONTO roadmap since the original core contract procurement with INIT, but was initially deferred due to the core project's schedule constraints in addition to the slow adoption of open payment validation across the United States pre COVID-19 pandemic. Since then, card issuers have replaced most credit cards in the United States with contactless capability.

Key stakeholders from MTS, North County Transit District (NCTD), California Integrated Travel Project, fare system vendor INIT, credit card gateway provider NMI and payment processor Chase met over several workshops to discuss the minimum viable product for open payment validation implementation. The goal was to identify a phase one product that could be expedited. The minimum viable product would support the following:

- 1. Ability for customers to simply tap their physical credit card or smart device enabled credit card on any PRONTO validator at MTS or NCTD.
- 2. Each initial tap would get charged an adult one-way fare for the respective mode of service and would include a two-hour transfer.
- 3. Ability for MTS and NCTD to inspect open payment validation transactions.
- 4. Include the necessary software and interface modifications to the Customer Relationship Module, Website and Validators.

MTS staff's Independent Cost Estimate (ICE) compared the open payment implementation and operating costs of three other agencies that use INIT fare payment technologies: the Interurban Transit Partnership (ITP) Grand Rapids, WeGo Nashville and Hillsborough Area Regional Transit Authority, Tampa. The ICE considered the fleet size of each agency in comparison to the San Diego region and prorated the operating costs over ten years in order to have an adequate comparison.

The aforementioned agencies paid on average \$1,602.75 per fleet unit for the implementation and operation of open payment validation. By comparison, MTS average per fleet cost in the proposed amendment is \$996.25. The average per fleet unit cost includes capital and operating costs over 10 years. These costs do not include merchant fees associated with the processing of credit card payments, which will vary by agency depending on their respective merchant contracts.

Agenda Item No. 21 September 14, 2023 Page 4 of 4

Therefore, MTS staff deemed INIT's proposal at \$1,224,387.98, which is 37.8% less than MTS ICE at \$1,969,778.85, to be fair and reasonable.

Therefore, MTS staff recommends that the MTS Board of Directors authorize the CEO to execute Amendment 17 to MTS Doc. No. G2091.0-18 (in substantially the same format as Attachment A), with INIT, for Open Payment and Inspection App Solution, in the amount of \$1,224,387.98.

/S/ Sharon Cooney

Sharon Cooney Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>

Attachments: A. Draft Amendment MTS Doc. No. G2091.17-18

B. Proposal Open Payments & Inspection App

Amendment 17

September 14, 2023 MTS Doc No. G2091.17-18

ACCOUNT BASED FARE COLLECTION SYSTEM

INIT Innovations in Transportation, Inc. Roland Staib President and CEO 424 Network Station Chesapeake, VA 23320

This shall serve as Amendment No.17 to the original agreement G2091.0-18 as further described below.

SCOPE

Contractor has been providing fare collection services (implementation and design) since January 2, 2019. The implementation phase has now been completed. Public launch was September 1, 2021.

This amendment authorizes Open Payment Validation and 10-year annual maintenance services as shown in Attachment 1.

SCHEDULE

There are no changes to the contract termination date which remains to December 31, 2032.

PAYMENT

The amendment total is \$1,224,387.98. This brings the total contract authorized amount to \$44,732,863.25. This amount shall not be exceeded without prior written approval from MTS.

Please sign and return the copy to the Contract Specialist at MTS. All other terms and conditions shall remain the same and in effect. Retain the other copies for your records.

Sincerely,	Agreed:
Sharon Cooney, Chief Executive Officer	Roland Staib, President and CEO INIT Innovations in Transportation, Inc.
	Date:

Attachment: A. Cost page from original agreement

- B. Annual Operations and Maintenance (Start/End Dates and Price Summary)
- C. Monthly payment schedule

INIT Innovations in Transportation, Inc.

424 Network Station Chesapeake, VA, 23320

Phone: 757-413-9100 sales@initusa.com www.initusa.com



MTS | Open Payment and Inspection App Solution

Customer: MTS San Diego, CA Requested by: Israel Maldonado Prepared by: Jenny Wallman Proposal #: 2022-119-03

7/25/2023 Date:

Validity: 60 days Warranty: 1 year hw warranty on inspection adapters included; 10 years extended sw maintenance quoted below; Optional extended hw warranty quoted

below

See below **Delivery:**

Invoicing

Milestones: See below

Existing Contract G2091.0-18 Terms & Conditions

apply

Description:

MTS launched a NEW Fare System PRONTO on September 1, 2021. PRONTO provides customers with a variety of ways to pay for transit. As part of the Agency's continued effort to provide more innovative and efficient ways of paying for transit, MTS has requested a formal proposal from INIT for the implementation of Open Payment Validation across the PRONTO system.

Open Payment Validation has been in the PRONTO roadmap since the original core contract procurement with INIT but was initially deferred due to the core project's schedule constraints added to the slow adoption of open payment validation across the United States pre COVID-19 pandemic. Since then, card issuers have replaced most credit cards in the United States with contactless capability.

Key stakeholders from the San Diego Metropolitan Transit System, North County Transit District, California Integrated Travel Project, credit card gateway provider NMI, payment processor Chase and INIT met over several workshops to discuss the minimum viable product for open payment validation implementation. The goal was to identify a phase one product that could be expedited.

Scope of Work:

INIT's proposal to implement the minimum viable product for Open Payment Validation includes the following:

- Ability for customers to simply tap their physical credit card on any PRONTO validator at MTS or NCTD.
- Ability for customers to simply tap the credit card associated with their smart device's mobile wallet via Near Field Communication (NFC).
- Each initial tap would get charged an adult one-way fare for the respective mode of service and would include a two-hour transfer.
- 25 open payment fare inspection adapters that will integrate with the agency's current android Zebra devices. The current android Zebra devices already utilize the closed loop fare inspection solution from INIT for PRONTO card inspections and validations.
- Development to support all of the necessary modifications to validators to add credit card issuer required visual messaging.

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- Development to support all of the necessary modifications to the Customer Relationship Module (CRM) that would allow customer service representatives to support customer inquiries into open payment card history associated with a transit ride.
- Development to support modifications to the customer website that would provide customers the ability to review their payment and ridership history.

Notes:

All modifications will follow Payment Card Industry Data Security Standards (PCI-DSS) and should include a roadmap to achieve Point to Point Encryption.

Pricing - Open Payments:

ltem	Description	Qty	Price Per Unit USD from calc	Price Total USD from calc
1	Open Payments One-Time Costs	1	\$307,340.88	\$307,340.88
	 MOBILEvario extensions for open payments PROXmobil software extensions for open payments PCI Conformance including technical clarifications Development 			
2	Open Payments Per Device License	1229		
	Open Payment License per vehicle - first 800 devices	800	\$220.00	\$176,000.00
	Open Payment License per vehicle - 429 devices	429	\$176.00	\$75,504.00
3	INIT Project Management / System Engineering	1	\$88,000.00	\$88,000.00
	 Requirement analysis and documentation Software design System Integration Installation and test Acceptance 			
	Subtotal*			\$ 646,844.88

^{*}California taxes do not apply to software licenses.

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Pricing - Inspection:

Item	Description	Qty	Price Per Unit USD from calc	Price Total USD from calc
4	Fare Inspection Device Hardware	25	\$3,800.00	\$95,000.00
	PROXbluetooth			
	External proximity reader			
	Hardware Sales Tax 7.75%			\$7,362.50
5	Fare Inspection Software	1	\$54,334.60	\$54,334.60
	EBROS App Software Software Configuration			
6	INIT Project Services	1	\$46,200.00	\$46,200.00
	Requirement analysis and documentationSystem IntegrationInstallation and testAcceptance			
	Subtotal			\$ 202,897.10

Software Maintenance:

Item	Option	Yrs	Price Per Unit USD	Price Total USD
7	Open Payment Validation Software Maintenance	10	\$33,884.04	\$338,840.40
8	Open Payment Inspection Software Maintenance	10	\$3,580.56	\$35,805.60

Optional Extended Hardware Warranty Inspection Adapter:

Item	Option	Qty	Price Per Unit USD	Price Total USD
9	Extended Hardware Warranty	25	\$672.00	\$16,800.00
	PROXbluetooth			
	External proximity reader			
	Total			\$ 16,800.00

Grand Total w/o Option		\$ 1,224,387.98

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Extended Software Maintenance Breakdown per Year:

Maintenance Year	Open Payment	Inspection	Total Per Year
Year 1	33,884.04	3,580.56	37,464.60
Year 2	33,884.04	3,580.56	37,464.60
Year 3	33,884.04	3,580.56	37,464.60
Year 4	33,884.04	3,580.56	37,464.60
Year 5	33,884.04	3,580.56	37,464.60
Year 6	33,884.04	3,580.56	37,464.60
Year 7	33,884.04	3,580.56	37,464.60
Year 8	33,884.04	3,580.56	37,464.60
Year 9	33,884.04	3,580.56	37,464.60
Year 10	33,884.04	3,580.56	37,464.60
Total Software Maintenance	\$ 338,840.40	\$ 35,805.60	\$ 374,646.00

Delivery:

Final schedule will be determined after the notice to proceed and PO from MTS is received.

High-level schedule:

NTP October 1
Design NTP + 45 days November 14

Project Specific Development +60 days November 15-January 14
Configuration +30 days January 15-February 14
Testing / Contingency +45 days February 15-March 31

Note: Delivery of all inspection device hardware is a risk in the above schedule. Testing is possible with an Android smart phone and INIT will make best efforts to deliver as many inspection devices as possible before end of March 2024.

Invoice Milestones:

Milestone	Percentage	Dollar Amount
Design approval	20%	\$169,948.40
UAT	40%	\$339,896.79
Fleetwide delivery	40%	\$339,896.79
TOTAL Capital Costs (includes HW tax)	100%	\$849,741.98

INIT Innovations in Transportation, Inc.

424 Network Station Chesapeake, VA, 23320 Phone: 757-413-9100 sales@initusa.com www.initusa.com



INIT Contact:

Name: Jennifer Wallman
Title: Account Manager
Phone: 757-413-9100 x421
Email: jwallman@initusa.com

Signature:

Julie Allison

Director, Account Management

Carl Commons
Chief Sales Officer

Open Payments Contract Amendment

Board of Directors



PRONTO Today

Implemented and Future Improvements

Proposed Open Payment Validation

Request Board Approval





PRONTO Improvements

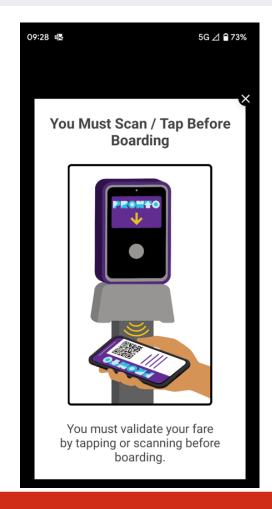
- Tapping at Ticket Vending Machines
 - Launched May 2023, 170+ additional tapping sites.
 - Makes it easier for customers to tap their PRONTO card.
 - Over 230K taps
 - Tapping rate increased from 31.7% May to 35% in June and July

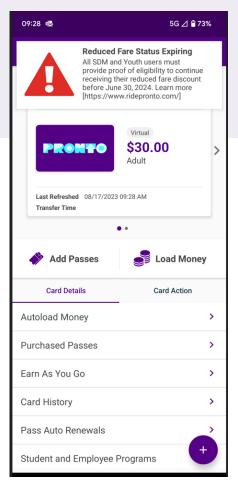




PRONTO Improvements

- PRONTO In-App Messaging
 - Allows MTS to issue key messaging campaigns.
 - To Launch September 2023.
 - Sample Campaigns:
 - "Tap Before Boarding" reminder
 - "Comic Con Passes Now Available" reminder
 - "Reduced Fare Status Expiring" reminder

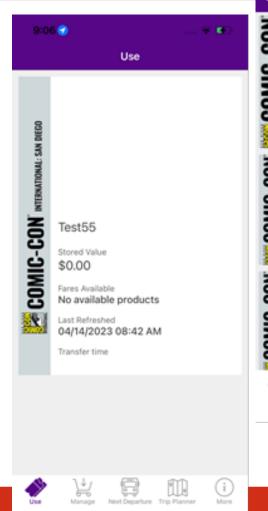


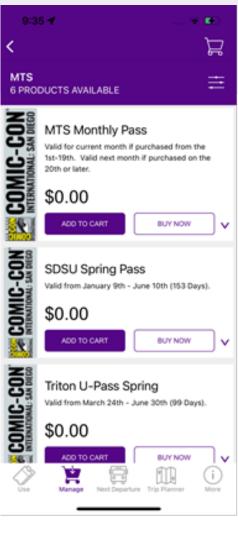




PRONTO Improvements

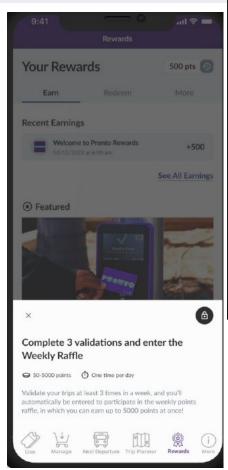
- Mobile App Custom Branded Screens
 - Allows agency to highlight key fare products with specific branding.
 - To launch September 2023.
 - Expand future campaigns.

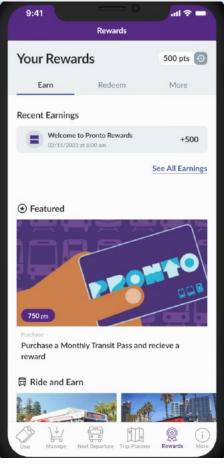






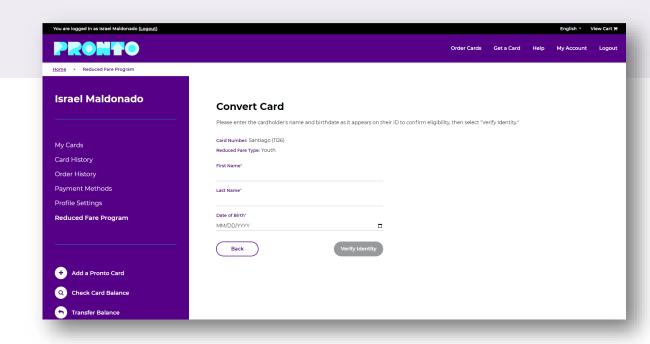
- Enhancements to the Mobile App Experience
 - PRONTO rewards program and promo codes
 - Incentivize ridership
 - Targeting first half of 2024
 - Move away from mobile barcode validation
 - Use Near Field Communication (NFC); requires collaboration from Apple, Google and Samsung
 - Targeting late 2024/early 2025







- Online Reduced Fare Portal
 - Online path to apply for a reduced fare.
 - Automated identity verification process, supports manual review process too.
 - Convenient, does not require travel.
 - Launch pilot for new applicants October 1st, 2023.



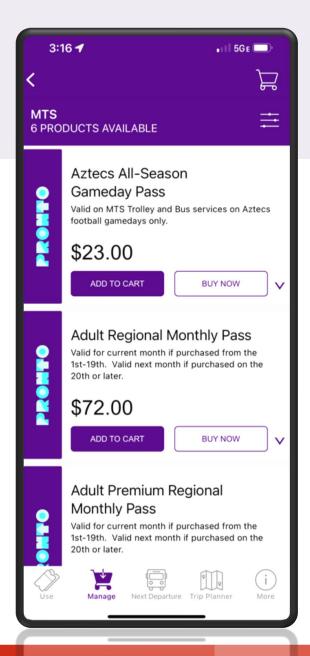


- Enhance Audible Experience on Ticket Vending Machines
 - Collaboration with the San Diego Chapter of the National Federation of the Blind of California (NFB).
 - Workshop aimed at improving the audible features.
 - Recommendations will be explored and feedback will be provided.
 - Special thanks to NFB representatives: Julia Cardenas, Ed Zamudio and Beatrice Torres for their partnership.





- Promotional Fares Flexibility
 - Comic Con multi-day products, Del Mar Fair Trippers, Pony Express, Padres playoffs 2022.
 - Efforts combined in over \$400K in promotional fare revenue.
- Explore Group Day Passes
 - More convenient for groups traveling together.





Open Payment and Validators

- Tap a credit/debit bankcard showing the contactless symbol.
- Tap phone to pay with a credit/debit card in the mobile wallet using Apple Pay, Google Pay or Samsung Pay.



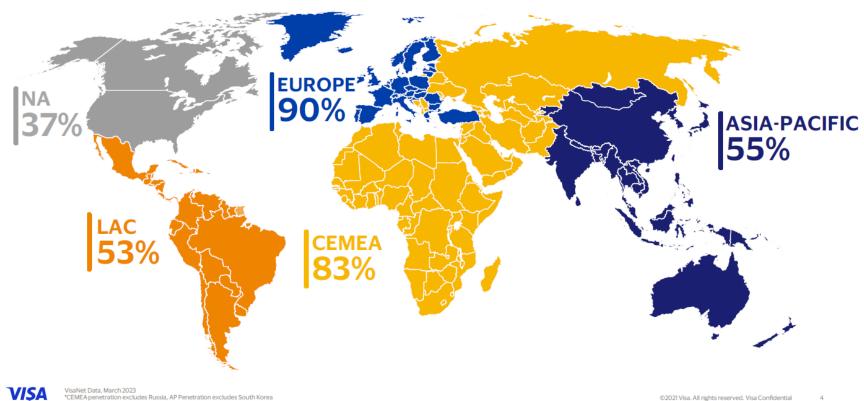




Open Payment Adoption

Tap to Pay momentum around the world

Excluding the U.S., 74% Visa face-to-face transactions are tapped







Open Payment and PRONTO

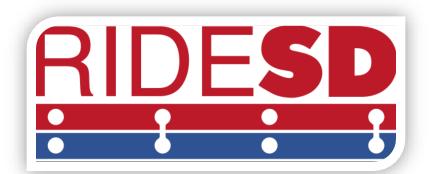
- 2018 Core Scope Focus
 - Fare system had to be implemented under 36 months to make Mid-Coast timeline.
 - Rely on proven technology with material impact.
 - Ensure system could support future features, like open payment.





Open Payment Implementation

- The Time is Right
 - Open payment adoption is on the rise, customers are more familiar with tapping credit cards.
 - Makes it easier for casual riders, less barriers to enter transit.
 - Support from community based organizations
 - Ride SD
 - Circulate San Diego







Open Payment Challenges

Reduced Fares

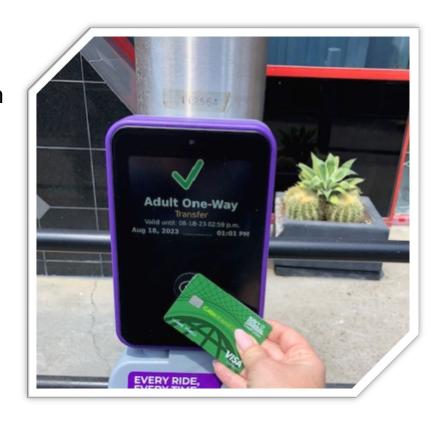
- Complex registration process, most agencies are not offering open payment reduced fares
- New York launched in 2019, started piloting limited reduced fares in 2022

Monthly Fare Capping

Requires complex tracking of payment

First Tap Risk

- Customers get a preliminary validation, if Credit Card is declined, then the card is blocked, but the first ride has already occurred.
- Card issuers have been unwilling to share on first tap risk.





Open Payments Strategy

- The Workshops
 - Held five large scale workshops.
 - Participants from MTS, NCTD, California-Integrated Travel Project, Merchant Services, INIT and Jacobs consulting group.
 - Goal: Identify the minimum viable product necessary to implement a simple open payment solution.



The Minimum Viable Product

Phase One

- An Adult One-way fare would be deducted and a 2-hour unlimited transfer window would be applied.
- Includes fare inspection adapters for open payment, expected go-live April 2024.

Phase Two

- Explore adding Daily and Monthly Caps.
- Explore adding reduced fares in a customer friendly way.
- Explore overall enhancements to the open payment inspection solution.



Staff Recommendation

That the MTS Board of Directors:

Approve the proposed Amendment 17 to MTS Doc. No. G2091.0-18 (in substantially the same format as Attachment A), with Innovations in Transportation, Inc. (INIT), for Open Payment and Inspection App Solution for \$1,224,387.98.



From: Omar Paredes <olezky@gmail.com>
Sent: Sunday, September 10, 2023 9:46 PM

To: ClerkoftheBoard

Subject: Pronto Passes NFC Implementation

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Attn: Members of San Diego Metropolitan Transit System (MTS),

RE: Mandate for NFC Implementation on Pronto Smartphone App.

I am a frequent rider of MTS Transit services and an active monthly pass holder. I, like many individuals that ride your service, heavily rely on the Pronto app because of its ease of use and convenient accessibility.

Unfortunately, the Pronto app lacks an important and useful feature to provide fare transactions as compared to other United States Metropolitan Planning Organizations' (MPO) transit services. And that's the ability to utilize a smartphone's digital wallet feature to communicate to an NFC (near field communication) reader. Rather, the contractor Pronto requires a Quick Response (QR) code to be read by a Scanner in their payment terminals to transact a fare. The act of scanning a QR code into a scanner is significant problem because its delicate communication requires a "sweet-spot" of directing a smartphone's screen at the correct distance, angle, brightness, etc. in order for transact a fare. This nuisance eats up valuable time to not only the ride service, but the passengers and queued vehicular traffic. MTS must mandate that the contractor running the Pronto services app follow the examples of other MPOs and utilize a smartphone's NFC feature so that it's more convenient for both passengers and transit services.

Omar P Frequent MTS Transit Rider From: Jordan Latchford <jllatchford@gmail.com>
Sent: Tuesday, September 12, 2023 10:59 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely,

--

Jordan Latchford
JLLatchford@gmail.com | c: 510.566.2033

From: Alex Haowen Wong <aw92620@gmail.com>
Sent: Tuesday, September 12, 2023 11:25 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

To the Clerk of the Board:

Please include the following as a comment on the 9/14 Board Meeting under Item 21.

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

By making it easier for riders to pay through open payment, MTS could recoup tens of millions in annual fare revenues, allowing MTS to dramatically increase frequencies on the busiest transit lines. After all, the 2020 South Bay Blue Line Service Increase cost only \$5.7M in annual fare subsidies. One can only imagine how even \$7M-10M in recouped fare revenues could similarly double Mid Coast Trolley frequencies, boosting ridership even further.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely,

Alex Wong

From: Case Sandberg <case@casesandberg.com>
Sent: Tuesday, September 12, 2023 11:54 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Case From: Basil Mournian <basil.mournian@gmail.com>
Sent: Tuesday, September 12, 2023 12:13 PM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board -- Can you please attach the following public comment to the Sep 14th board meeting item 21 on Pronto fare collection system?

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plan's goal of mode shifting trips away from private cars.

So many times I've had to fumble for change or my Pronto card didn't have enough funds on it, I had to look for currency in my wallet. This holds up the line of riders and delays the bus departure. Being able to use NFC with my iPhone would have made payment a snap! I've done this in Portland, OR many times with my phone while traveling; I only recently decided to buy a Hop card up there (like our Pronto card). It's just so easy to use my phone to pay. With [almost] everyone in San Diego having a smartphone or tap-enabled payment card these days, there is no need for anyone to struggle with paying for their ride. I fully support Open Payments for efficiency and making our transit system easy to use for everyone.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely,

Basil Mournian

From: Kamal Kyrala <kyralak@gmail.com>
Sent: Tuesday, September 12, 2023 12:23 PM

To: ClerkoftheBoard **Subject:** Support for Item 21

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi,

As a resident of North Park that gave up my car to use transit, I would like to voice my strong and enthusiastic support for item 21 to allow tap to pay for transit. I went many years without using transit because I just didn't know how it worked, and getting a transit card and configuring the app was a small barrier but enough of one to prevent me from using it.

Tap to pay is something most of us understand and will help make it easier for people to start using transit.

Thanks

From: Joseph Tinglof <jbtinglof@gmail.com>
Sent: Tuesday, September 12, 2023 6:57 PM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Joseph Tinglof From: Mitchell Christy <mchristy.tx14@gmail.com>
Sent: Tuesday, September 12, 2023 8:18 PM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm an East Village resident who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars. The easier it is for folks to take transit (including increasing frequency), the more likely they will be to use it.

The ease of getting on the train when I visit places like New York City, which has already adopted this system, has really opened my eyes to the possibilities. No apps, no unnecessary account refills, and the ability to use a *tap* that anybody with a debit or credit card knows how to use without any instructions. A system that certainly transcends language barriers (and even the technologically challenged)!

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely,

Mitchell Christy, East Village Resident

From: mlittlesana «mlittlesana@gmail.com>
Sent: Wednesday, September 13, 2023 12:15 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

We need to reduce barriers to transit use. I cannot count how many times friends, family, and acquaintances have asked for my help downloading the Pronto app, adding a method of payment, And then managing their card balance and use. I have even heard tourists at Old Town or Seaport Village openly debate as to whether they should choose transit or an Uber. Because of the complicated nature of the current fare system, they opted for Ubers on both occasions.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Maya Little



Support for Approval of Contract Amendment for Open Payments

Dear Metropolitan Transit System (MTS) Board of Directors,

RideSD is an organization dedicated to promoting and enhancing the public transit experience in San Diego. Through our efforts in organizing community events, public education, and advocacy for transit infrastructure improvements, we aim to promote a convenient and reliable transit system in our beautiful city.

We are writing to express our wholehearted support for the initiative to implement Open Payments on PRONTO systems. RideSD first advocated for this enhancement at the September 2022 board meeting, during which the Chair at the time directed Staff to work on it in response to our comments.

Today, we notice with great anticipation the inclusion of Item 21: "PRONTO Fare Collection System – Contract Amendment" in the agenda for your September 2023 Board Meeting.

This is a significant step forward that will result in improved transit convenience and accessibility. By allowing payment through credit cards and mobile wallets (in addition to the current PRONTO cards and app), we anticipate a smoother, faster, and more user-friendly transit experience for first-time riders and tourists.

Please note the encouraging findings of the MTS's Independent Cost Estimate, which found the cost upgrade reasonable and significantly less than anticipated. This cost-efficiency suggests a substantial return on investment in terms of user satisfaction and increased fare collection.

RideSD recommends the MTS Board of Directors approve the contract amendment to upgrade PRONTO with Open Payments.

We look forward to the potential realization of this initiative, and we remain committed to collaborating with the MTS Staff and board in fostering a transit system that meets the evolving needs and expectations of our City.

Connor Proctor

Vice President RideSD

From: Connor Proctor <connor@ridesd.org>
Sent: Wednesday, September 13, 2023 5:40 AM

To: ClerkoftheBoard

Subject: Material for board meeting item 21

Attachments: 9_14_23 MTS Board Meeting Letter signed.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board,

I'm planning on giving public comment on item 21 - pronto open payments. Could you please include the include the attached letter in the meeting packet for the board's reference.

Thank you!

- Connor Proctor

From: Shelby Huffaker <shelby.huffaker@gmail.com>
Sent: Wednesday, September 13, 2023 6:11 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

As someone who commutes to work on the trolley, having a fast and convenient way to pay ensures that I can board quickly and get to work on time.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Shelby Huffaker, MPH From: andrea zonca <andrea.zonca@gmail.com>
Sent: Wednesday, September 13, 2023 9:36 AM

To: ClerkoftheBoard

Subject: Support for Agenda Item 21 - Open Payments Upgrade

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

It will be very convenient to be able to just open the bus and pay with the phone instead of having the always malfunctioning Pronto

From: gwgonzalez@gmail.com

Sent: Wednesday, September 13, 2023 10:08 AM

To: ClerkoftheBoard

Cc: StephenWhitburn@sandiego.gov

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

I've also CC'd my San Diego City Council member and Chair of the Board, Stephen Whitburn.

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

I recently visited New York City in June, where I was pleased to tap my debit card or mobile wallet to use their entire public transportation system and I know that SDMTS would greatly benefit from providing this option to riders.

I also pride myself on how much I use transit despite how much easier it is to get around town by car. In this experience, I have run this risk of having my phone die with no easily accessible way to reload my Pronto card to continue my journey. This issue would be solved by allowing open payments so that riders aren't required to keep money on their Pronto cards or keep their phones charged to continue using transit services.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Geoffrey Gonzalez

3946 Texas St, Apt 5, 92104

From: Evvan Burke <evvanpeafowl@gmail.com>
Sent: Wednesday, September 13, 2023 9:23 AM

To: ClerkoftheBoard

Subject: Support for Agenda Item 21 - Open Payments Upgrade

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

I recently took a trip with my parents to a Padres game. At my suggestion, we took the trolley to avoid parking downtown and help the environment. My parents had not used the trolley in quite a while, but were interested in doing so.

Unfortunately, I realized on the way that neither of them had the Pronto app set up. I spent the entire car ride to the station and our wait time for the trolley (about 30 minutes total) installing the app, setting them up with accounts, and loading money from their credit cards. They were eager to help, but despite being relatively savvy with technology for their age, they could not navigate anything without my assistance. In a twist of cruel fate, by the time the train arrived and I took out my own phone, I was horrified to realize that I had been logged out of my own app, and I couldn't get back in on time to scan my card and make the trolley, making the journey even longer.

Even though my parents now have accounts, they seem apprehensive about riding on their own (and outright refuse to attempt adding more money without my help).

Open Payments would not only have made this entire process simpler, it would have made their introduction smoother and would have saved us the trouble of missing a trolley just so I could reset my login information (a process that failed to work the first time I tried). I hope you are able to make the payment process smoother for everyone by following the suggestions of the community. Thank you.

--

Evvan Burke

From: Leif Gensert <leif@leif.io>

Sent: Wednesday, September 13, 2023 10:44 AM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

I am taking transit regularly and gotten used on how to scan the QR code. However I have seen multiple people struggling with the QR code and taking up time when boarding the bus. Additionally I often see people using cash to pay for the bus. While not everyone will switch over to contactless payments, I am certain that at least some of those will switch to tapping their debit/credit card and therefore speeding up the boarding process.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Leif Gensert From: Jayden Johnson <jayden13johnson@gmail.com>
Sent: Wednesday, September 13, 2023 12:42 PM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello Clerk of the Board – Can you please attach the following public comment to the Sep 14th board meeting Item 21 on Pronto fare collection system

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

I am a UCSD student who takes the trolley nearly every day during the school year. While I have a U-Pass which makes the fare process easy, I have had experiences where friends would come down for Padres games, for example, and seen them struggle with the pronto app. Having to make an account, load money, and do so with sometimes bad service is a very painstaking process for someone who is visiting and just wants to take the trolley one time.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Jayden From: Michael Rancourt <mrancourt@sdsu.edu>
Sent: Wednesday, September 13, 2023 1:01 PM

To: ClerkoftheBoard

Subject: Support for Agenda Item 21 - Open Payments Upgrade

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear MTS Board Clerk,

As a frequent rider of the trolley, I want to send a message supporting Agenda Item 21. I think we all know how difficult the transition to Pronto has been for new and old riders alike. I know I and members of my family have struggled to tap in with our phones (and cards were not available at my local station or the bus!), so there were times when I had to ride without paying. And that's for someone who loves MTS and wants to pay. What about all the visitors to our city who struggle to figure out how to pay and then just give up when it doesn't work? Let's make this system easier so that we can take the next little step along the way of making San Diego a fantastic city for mass transit.

Sincerely,

Mike Rancourt

Lecturer, Rhetoric and Writing Studies

From: Patrick Crowley <patrick@mokolabs.com>
Sent: Wednesday, September 13, 2023 2:00 PM

To: ClerkoftheBoard

Subject: Support for Item 21 - Pronto Fare Collection System Open Payments

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hello MTS Board,

I'm a resident of San Diego who wants it to be easy and fast to pay for public transit. It takes 191 clicks to sign up for the Pronto app, but it'd only take one tap of a contactless credit card, debit card, or mobile phone if you approve the plan for "open payments".

Reducing barriers to using public transit is important for boosting transit ridership, helping our climate, improving air quality, and building a better community. It's also needed to hit our climate action plans goal of mode shifting trips away from private cars.

When I first used the Pronto app, I was so excited, but, sadly, the current app is difficult and time-consuming to use. San Diegans deserve an app that makes buying fares on your phone quick and easy. Imagine trying to buy a coffee — but taking 191 clicks to do it. We can do better.

Please vote to support open payments to encourage transit adoption in San Diego.

Sincerely, Patrick



MTS STAFF USE ONLY
Public Comment
AI #: 21 Date: 9 / (4 / 23)
No. in queue: 41

IN - PERSON PUBLIC COMMENT

Agenda Item No.:	<u> </u>
Name:	Guffrey Goverage Telephone: 760 855 3082
Email:	gugan vales Egnail com
City of Residence:	Son Dugo
Remark Subject: Affiliated Organization:	In Support of open payment systems

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to two minutes per person, unless specified by the Chairperson. Please make your comment at the podium located on the right side of the dais. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard two-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD





MTS STAFF USE ONLY
Public Comment
AI #: 11 Date: 9 /14 /23
No. in queue: 2*

IN - PERSON PUBLIC COMMENT

Agenda Item No.:	21	[c.= X201/115
Name:	Manny Nodrigue 2 Telephone:	619 1788-6445
Email:	monny belogmail. Com	
City of Residence:	Den Vilyo	
Remark Subject: Affiliated Organization:		

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

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BOARD OF DIRECTORS MEETING

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MEETING RECORD





Public Comment
AI #: 21 Date: 9 /14 /23
No. in queue: ____3__

IN - PERSON PUBLIC COMMENT

Agenda Item No.:	21
Name:	Connor Proctor Telephone:
Email:	CPROCIR @gmail.com
City of Residence:	San Diego
Remark Subject:	Suffort for ofen payments
Affiliated Organization:	RIDESD

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

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MEETING RECORD





MTS STAFF USE ONLY
Public Comment
AI #: 21 Date: 9 / 14 / 23
No. in queue: 4

IN - PERSON PUBLIC COMMENT

	· ·
Agenda Item No.:	_21_
Name:	Zack Defazio Farrell Telephone:
Email:	Zackoridesd.org
City of Residence:	_ Sun Diego
Remark Subject:	PRONTO OPEN Payments
Affiliated Organization:	RidesD

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

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MEETING RECORD





Public Comment
AI #: 1 Date: 9 / 14 / 23
No. in queue: 5

IN - PERSON PUBLIC COMMENT

Agenda Item No.:	21 1111 Marco Talanhana: \$58-210-79
Name:	Will 1410016 Telephone.
Email:	wmoore @ circulate.org
City of Residence:	San Diego
Remark Subject: Affiliated Organization:	Eosy Prymont Circulate San Diego

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

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BOARD OF DIRECTORS MEETING

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MEETING RECORD





Truth, provided a public comment for agenda items #22. A paraphrased version of Truth's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to three minutes per person, unless specified by the Chairperson. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard three-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD

A paraphrased version of this comment will be included in the minutes. The full comment can be heard by reviewing the recording posted on the respective meeting website: https://www.sdmts.com/about/meetings-and-agendas.





The Original DRA, provided a public comment for agenda item #22. A paraphrased version of The Original DRA's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

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BOARD OF DIRECTORS MEETING

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MEETING RECORD

A paraphrased version of this comment will be included in the minutes. The full comment can be heard by reviewing the recording posted on the respective meeting website: https://www.sdmts.com/about/meetings-and-agendas.





Leif Gensert, provided a public comment for agenda item #21. A paraphrased version of Gensert's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

INSTRUCTIONS

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BOARD OF DIRECTORS MEETING

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MEETING RECORD

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Jason with Ride SD, provided a public comment for agenda item #21. A paraphrased version of Jason's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

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BOARD OF DIRECTORS MEETING

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MEETING RECORD

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Agenda Item No. 22

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Transit Security and Passenger Safety Department Expansion (Al Stiehler)

RECOMMENDATION:

That the San Diego Metropolitan Transit System (MTS) Board of Directors approve the addition of 34 new Code Compliance Inspectors (CCIs), six (6) Code Compliance Supervisors, one (1) Assistant Field Operations Manager, one (1) Administrative Support Professional and create five (5) Code Compliance Dispatcher positions.

Budget Impact

Salaries, benefits and recurring communications fees would cost approximately \$3,700,000 annually. Initial expenses for equipment, uniforms, etc. would be approximately \$540,000.

DISCUSSION:

At the May 18, 2023 Board of Directors meeting, the Board received a report on the recent public safety focus groups results. In 2022, the MTS Customer Satisfaction Survey indicated an overwhelming response noting concerns of safety and request for more security to improve the transit experience. The focus groups were conducted to better understand and define what "more security" means to passengers and to obtain a better understanding of perceptions of personal safety while using transit. The results and feedback of the focus groups included requests such as more visible security, more consistent application of MTS policies (such as fare evasion, inappropriate behavior, and loitering), improved awareness of Ride-Assured Program, and improvement of cleanliness and lighting.

After receiving this report, the Board of Directors discussed various concerns related to security and safety throughout the system. The Board directed staff to assess the cost of additional security staff for the potential expansion of the Transit Security and Passenger Safety Department. At the July 27, 2023 Board of Directors meeting, the Board received a report on the current size and structure of the department and estimated costs to expand. Based on the feedback received, staff has put together a proposal for official approval.



Agenda Item No. 22 September 14, 2023 Page 2 of 2

The additional requested CCI personnel would include 27 CCIs assigned to Train Teams, four (4) CCIs to the Passenger Safety Teams, two (2) CCIs to the Bus Enforcement Team, and one (1) CCI to the Homeless Outreach Team. The additional Code Compliance Supervisors, Assistant Field Operations Manager and Administrative Support Professional will be needed to manage, supervise and support the additional field positions. The creation of five (5) Code Compliance Dispatcher positions will allow the Transit Security and Passenger Safety Department to have professional dispatchers who will go through a California Peace Officer Standards and Training (POST) dispatcher course. The dispatchers will be full-time MTS employees rather than the current practice of contracted security officers working as minimally trained dispatchers.

/s/ Sharon Cooney
Sharon Cooney
Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, <u>Julia.Tuer@sdmts.com</u>



Transit Security and Passenger Safety Department Staffing Increase

Board of Directors



Staffing Increase

- 34 Inspectors and 6 supervisors
 - This would allow for additional train teams and the ability to create additional specialized teams (B.E.S.T, P.S.T., Outreach, etc.)
- 5 Dispatcher positions
 - Previously contracted position; now hired as MTS employees
- 1 Asst. Field Ops Manager
- 1 Admin Support Professional

 Cost: \$3,700,000 (total annual salaries and benefits for new personnel)



Equipment Cost

- Uniforms (shirts, pants, belts, body armor, duty belt, etc.)
- Radios
- Body worn cameras
- Workstations (computers, monitors, desks, chairs, etc.)
- Vehicles and accessories

• Cost: \$540,000



Hiring Process

- Career announcement / application review (3 weeks on MTS Employment website)
- Interview / selection process (2 weeks; 2-step process phone interview and in-person interview)
- Career offer from MTS (2 days)
- Employee on-boarding (2-3 weeks; DOT physical and drug test, Live Scan, HR forms)
- Given official hire date and scheduled for MTS / Transit Enforcement orientation



New Hire Training – Classroom

- 3 weeks (120 hours) of classroom training. Some areas of classroom training:
 - MTS policy and procedures
 - Department policy and procedures
 - Laws & powers of arrest
 - Tactical communication and de-escalation
 - Emotional intelligence
 - Crisis management
 - Excited delirium
 - Human trafficking
 - Narcan administration and laws
 - Use of force
 - Defensive tactics
 - Report writing
 - System geography





New Hire Training – Field Training

- 4 weeks (160 hours) of field training under the supervision of a Field Training Officer
 - Field training is broken into 2 phases with 2 Field Training Officers
 - Inspectors are evaluated daily by their Field Training Officer
 - Inspectors are evaluated on their ability to apply all knowledge, policy, and procedures from the classroom to real-world practical environments







- 34 Code Compliance Inspectors
 - 27 additional Inspectors assigned as Train Teams
 - Four (4) additional Inspectors assigned to the Passenger Safety Team
 - Provides ability for seven (7) day coverage
 - Two (2) additional Inspectors assigned to the Bus Enforcement Team
 - Allows for two (2) day watch / two (2) night watch
 - One (1) additional Inspector assigned to the Homeless Outreach Team
 - Provides ability for seven (7) day coverage

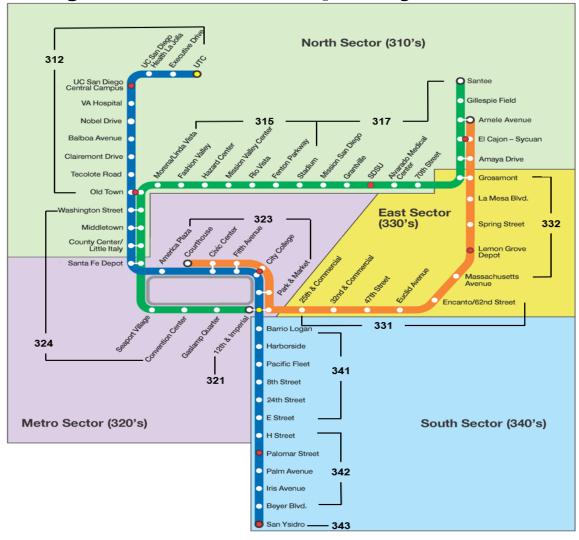


- 6 Code Compliance Supervisors
 - 5 additional Field Supervisors
 - 1 additional Passenger Safety Team Supervisor



- Code Compliance Inspectors are paired into a two (2) person team to create one (1)
 Train Team
 - Day Shift 2 Watches (3:30AM-2:00PM and 5:00AM-3:30PM)
 - Night Shift 2 Watches (2:00PM-12:30AM and 3:00PM-1:30AM)
 - 19 Train Teams are deployed seven days a week covering day and night shifts
 - One (1) CCI and one (1) TSO paired together and assigned as a station team at high ridership stations
 - One (1) Train Team assigned to 12th and Imperial
 - One (1) Train Team assigned to San Ysidro
 - Two (2) Train Teams assigned to Blue Line North, Blue Line South, Green Line, Orange Line, and Metro







Staff Recommendation

That the MTS Board of Directors approve the addition of 34 new Code Compliance Inspectors (CCIs), six (6) Code Compliance Supervisors, one (1) Assistant Field Operations Manager, one (1) Administrative Support Professional and create five (5) Code Compliance Dispatcher positions.



Questions/Comments





DEAKED INCODMATION (places print)

MTS STAFF USE ONLY
Public Comment
AI #: 12 Date: 9 /14 / 23
No. in queue: 1

IN - PERSON PUBLIC COMMENT

SPEAKER INFORM	ATION (please print)
Agenda Item No.:	22
Name:	DAVID RODGEN Telephone: 614 750 -3355
Email:	GOAPPROGNAIL.CON
City of Residence:	SAN DIEGO
Remark Subject: Affiliated Organization:	BEFORE SPEND MONEY FIX THE PROBLEM

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

INSTRUCTIONS

This meeting is offered both in an in-person and virtual format. In-person speaker requests will be taken first. Speaking time will be limited to two minutes per person, unless specified by the Chairperson. Please make your comment at the podium located on the right side of the dais. Members of the public are permitted to make general public comments at the beginning of the agenda or make specific comments on any item in the agenda at the time the Board/Committee is considering the item during the meeting. Requests to speak will not be taken after the public comment period ends, unless under the Chair's discretion.

BOARD OF DIRECTORS MEETING

General Public Comment at the beginning of the agenda will be limited to five speakers with the standard two-minute limit, unless otherwise directed by the Chair. Additional speakers with general public comments will be heard at the end of the meeting.

MEETING RECORD





MTS STAFF USE ONLY
Public Comment
AI #: _2_ Date: 9 / 14 / 23
No. in queue: __2_

IN - PERSON PUBLIC COMMENT

OI LAKEIY IN OKW	/ (Picase print)	
Agenda Item No.:	22	
Name:	JONAH GLASSON Telephone: 9	25-413-8292
Email:	jonah-glasson@sdmts.com	
City of Residence:	SAN DIEGO	
Remark Subject: Affiliated Organization:	SECURITY BUDGET MCREASE SDMTS TRANSIT OFFICERS ASSOCIATION)

PLEASE SUBMIT THIS COMPLETED FORM BACK TO THE CLERK

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BOARD OF DIRECTORS MEETING

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MEETING RECORD



CALL – IN PUBLIC COMMENT

Truth, provided a public comment for agenda items #22. A paraphrased version of Truth's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

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CALL – IN PUBLIC COMMENT

The Original DRA, provided a public comment for agenda item #22. A paraphrased version of The Original DRA's statement will be reflected in the minutes.

PUBLIC SPEAKER DISCLAIMER

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MEETING RECORD

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Agenda Item No. 23

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

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Grants Administration Report (Kena Teon and Julia Tuer)

INFORMATIONAL ONLY

Budget Impact

None.

DISCUSSION:

In April 2021, the San Diego Metropolitan Transit System (MTS) created a new Grants Team, which includes the following positions: Grants Administrator, Financial Analyst, Manager of Government Affairs, and Transit Asset Management Program Manager. The Grants Team manages all federal and state programs for both formula and competitive grants.

Staff will provide a report of all grant administration activities over the past year.

/s/ Sharon Cooney
Sharon Cooney
Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com



Grants Administration Report

Board of Directors



MTS Grants Team Introduction

- Team established in April 2021
- Comprised of two (2) areas: Administration and Finance
 - Administration:
 - Julia Tuer, Manager of Government Affairs
 - Kena Teon, Grants Administrator
 - Finance:
 - Eric Cheng, Transit Asset Management Program Manager
 - Etta Bowman, Financial Analyst



Overview of Grants Administration

The Grants Management responsibility is undertaken by the Grants Administrator and Financial Analyst who report directly to the Manager of Government Affairs and Transit Asset Management Program Manager.

- Administration: Responsible for all day-to-day Grants Administration process
 - Kena Teon, Grants Administrator
- **Finance**: Responsible for all day-to-day financial aspects of the grant process
 - Etta Bowman, Financial Analyst



Formula Grants

- Formula funds are allocated to MTS annually based on a range of characteristics such as population, revenue miles reported to the National Transit Database, etc.
- Formula funds do not rely on a competitive process for allocating funds
- Formula grant funds are primarily used for preventive maintenance and capital projects, and are paid on a reimbursement basis
- Funding sources include:
 - Federal Transit Administration (Federal)
 - Caltrans (State)
 - Transit Security Administration (TSA)



Formula Grants

• Section 5307: \$58,911,715

Section 5337: \$42,787,023

Section 5339: \$4,146,276

Section 5311: N/A*

• LCTOP: \$8,103,037

State of Good Repair: \$5,095,907

 TSA – Nat'l Explosives Detection Canine Team Program: \$151,500

*No additional 5311 formula funds requested in FY22/23; utilizing existing federal stimulus funding for rural bus operations.

Grant Program	Granting Agency	Typical Funded Projects
Section 5307	FTA	Bus and Rail Preventive Maintenance, Bus Procurements
Section 5337	FTA	Bus and Rail Preventive Maintenance
Section 5339	FTA	ADA/Paratransit/Bus Procurements
Section 5311	FTA/Caltran s	Rural Bus Operations
Low Carbon Transit Operations Program (LCTOP)	Caltrans	Zero Emission Bus Procurements
State of Good Repair	Caltrans	Light Rail Vehicle Replacements
TSA - National Explosives Detection Canine Team Program	TSA	TSA Canine Team Reimbursement



Competitive Grants

- Competitive grants are "competitive" in nature and often have hundreds of applicants
- Priority list of projects are identified during approved annual CIP process
- Competitive grants have unique set of performance goals/criteria that must be met in order to be qualified
- Identification of priority project that fits within grant timeframe and criteria



Competitive Federal Grants (2022-2023)

Grant Program	Granting Agency	Award Requested	Status	Project
Areas of Persistent Poverty Program (2022)	FTA	\$850,000	No Award	San Ysidro transit Center Track Improvements
Innovative Coordinated Access Mobility (2022)	FTA	\$35,000	No Award	Travel Training and Assessment Center
Route Planning and Restoration Program (2022)	FTA	\$750,000	Awarded	Orange Line Improvements
Transit Security Grant Program (TSGP) (2022)	FEMA	\$68,450	No Award	Software Project
Strengthening Mobility and Revolutionizing	DOT	\$223,808	No Award	Bus: Improving Pass Ups; and
Transportation (SMART) (2022)				Rail: LRV Optical Data Transfer
5339(b) Bus and Bus Facilities (2022)	FTA	\$13,661,600	No Award	12 th & Imperial Transit Center Rehab*
5339(c) Low-No Emissions Grant Program (2022)	FTA	\$127,200,000	No Award	CTAC - Division 6
5311(f) Intercity Bus Program (2022)	FTA/Caltrans	\$273,466	Awarded	Rural Intercity Bus Operations - Route 894
5310 Specialized Transportation (STGP) Cycle 12 (2022)	FTA/SANDAG	\$952,861	Awarded	ADA Bus Procurement
Areas of Persistent Poverty Grant (2023)	FTA	\$1,000,000	No Award	ECMF Design ZEB Infrastructure
FY23Community Project Funding: Scott Peters (2023)	FTA	\$1,880,000	Awarded	IAD Charging Infrastructure
FY23Community Project Funding: Juan Vargas (2023)	FTA	\$1,000,000	Awarded	CTAC – Planning Phase
5339(b) Bus / 5339(c) Low-No Programs (2023)	FTA	\$109,210,500	No award	CTAC

^{*12&}lt;sup>th</sup> & Imperial Transit Center Rehab project subsequently funded via TIRCP award



Competitive State Grants (2022-2023)

Grant Program	Granting Agency	Award Requested	Status	Project
EnergIIZE – CEC and CalStart ZEV Incentive Program (2022)	CEC	\$377,420	No Award	Charger Management System
Clean CA Local Grant Program (2022)	Caltrans	\$1,400,000	No Award	Beyer Blvd Beautification Project
Clean CA Local Grant Program (2023)	Caltrans	\$1,604,000	Pending	Beyer Blvd Beautification Project
Transit and Intercity Rail Capital Program (TIRCP) – 2022	Caltrans	\$33,544,000	Awarded	Zero-Emission Transit Enhancements/Orange Line Upgrades
Transit and Intercity Rail Capital Program (TIRCP) - 2023	Caltrans	\$60,447,712	Awarded	Zero-Emission Transit Enhancements 2.0/Orange Line Upgrades
Affordable Housing and Sustainable Communities Program (AHSC)*	SGC	\$8,264,258	Pending	Alvarado Creek Apartments - \$ towards transit component of project
Affordable Housing and Sustainable Communities Program (AHSC)*	SGC	\$9,511,586	Pending	Mirka Towers - \$ towards transit component of project
Affordable Housing and Sustainable Communities Program (AHSC)*	SGC	\$9,000,000	Pending	Riverwalk/Wakeland Development - \$ towards transit component of project

^{*}Participated as a transportation partner in application



Housing & Community Development Partnerships

Affordable Housing and Sustainable Communities Program (Round 7)

- Final Application submitted April 7
- Award Announcement August 2023

Previous Rounds:

- Round 1 (2016): Cornerstone Place (El Cajon) Awarded
- Round 3 (2018): Keeler Court in Southcrest (San Diego) Awarded
- Round 5 (2020): Southwest, Grantville, Mt Etna (San Diego) No award
- Round 6 (2022) Mt. Etna in Clairemont Mesa (San Diego) No Award



Housing & Community Development Partnerships (Cont'd)

- Transformative Climate Communities (Round 5)
 - Final Application due August 2023
 - Award Announcements December 2023



Grant Reporting & Audits

- Federal Transit Administration (FTA) requires grantees to submit financial reports and narrative progress reports on a quarterly basis for all active, executed grants
 - Federal Financial Reports (FFR's) and Milestone Progress Reports (MPR's)
- Other federal, state, and local programs require periodic financial and narrative reporting to track grant activity
- Grant process generally consists of the following stages after an application has been submitted and successfully awarded:
 - Execution of Award; Periodic Financial and Narrative Reporting; Drawdowns and Monitoring; Grant Revisions and Amendments; and Closeout
- Transit held to high standards for safety, performance, cost efficiency
 - Participate in various audits to ensure proper use of grant funds
- 30 total open/active grants being managed



Upcoming Grant Opportunities: Project Priorities

- Clean Transit Advancement Campus (Division 6)
- Zero Emission Bus Charging Infrastructure at Bus Divisions
- Zero Emission Bus Vehicle Purchases
- Variable Message Sign (VMS) Replacements
- Bus Stop Improvements
- Grade Separation Projects
- Light Rail Vehicle Replacements



Questions/Comments





Agenda Item No. 24

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

MTS Access Services Overview (Michael Wygant and Jay Washburn)

INFORMATIONAL ONLY

Budget Impact

None at this time.

DISCUSSION:

"MTS Access" is the name used for MTS's Federal Transit Administration (FTA)-required complementary paratransit service. Complementary paratransit service is a shared ride service for passengers whose disability prevents them from riding fixed route service. Under FTA rules, paratransit service must be comparable to MTS fixed-route service.

MTS Access service deploys several types of vehicles, including minivans and smaller buses, taxicabs, and adaptive transportation network company vehicles. All passengers must be certified in order to utilize MTS Access services.

MTS staff will be providing an overview of MTS Access services.

/s/ Sharon Cooney
Sharon Cooney
Chief Executive Officer

Key Staff Contact: Julia Tuer, 619.557.4515, Julia.Tuer@sdmts.com





MTS Access Services Overview

Board of Directors



What is Access?

- Per Federal regulations 49 CFR Part 37 "...each public entity operating a fixed route system shall provide paratransit or other special service to individuals with disabilities that is comparable to the level of service provided to individuals without disabilities who use the fixed route system"
- Under the Americans with Disabilities Act (ADA) paratransit functions as a "safety net" for persons whose disabilities prevent them from using the regular fixed route system (bus or rail). (US DOT-FTA)
- MTS service area is 3240 sq. miles. MTS Access service extends to the entire coverage area of the bus and trolley system plus an additional ¾ of a mile from all stops and transit centers.
- Access provides transportation service to individuals who are not functionally able to utilize the fixed route system for physical or cognitive reasons as defined by the ADA and FTA.
- Access is used by riders for grocery shopping, medical services, recreation and any other purpose a rider desires. There are no limitations on its use.



Governing Regulations

ADA reg

 In crafting the Americans with Disabilities Act (ADA), Congress recognized that even when a fixed route transit system is fully accessible, there will be some individuals whose disabilities prevent them from using the system.

DOT regs

 The U.S. Department of Transportation (DOT) ADA regulations in 49 CFR Part 37 apply to complementary paratransit service in terms of required service criteria, types of service options, operational performance, and other factors.



Operating Standards

What does comparable mean?

- Service must be available the same days and hours as fixed route service
- Shared ride program
- All ride requests received by 5pm the day before must be honored within a 2 hour window of the requested time (negotiated)
- Riders must be picked-up in a 30 minute window
- Ride times must be comparable to the same trip if taken on fixed route
- 10 day prior reservations (changed from 2 days on June 1, 2023)
- Trips can be booked based on a pick-up time or an appointment time



Operating Standards (continued)

- Curb to curb or door to door service on request
- Riders can be identified as Do Not Leave Alone and cannot be left unsupervised.
- Fare free for Personal Care Attendants
- Current fare \$5- Cannot be more than twice fixed route fare (FTA)
- Average cost per trip \$58 compared to \$5.49 for fixedroute





Eligibility Certification

- Eligibility for complementary paratransit is directly related to the functional ability of individuals with disabilities to use fixed route transit services. Eligibility is not based on a diagnosis or type of disability. Individuals with the same diagnosis or disability can have very different functional abilities to use fixed route services.(FTA)
- Contracted with Medical Transportation Management (MTM)
 - Specially trained in paratransit eligibility assessment
- Functional Ability based
- Certification Categories
 - Unconditional, Conditional, Temporary, Visitor, Ineligible
- Two part application, includes medical verification
- In-person assessment at MTS facility
 - Free rides to/from eligibility appointment
 - Eligibility good for 3 years
- Appeal process available



Operations

- Contracted to First Transit (FT)
- Paratransit and Minibus operation
- Operated out of Copley Park division
- Facility and vehicles provided by MTS
- Turnkey operations includes Transportation, Vehicle Maintenance, Reservations, Scheduling, Dispatch, H/R, Safety, Finance, etc.
- Sub-contractors including Yellow Taxi Group and UZURV
- Vehicles types: Sedans, ADA accessible vans, Paratransit buses
- Driver Training and Certification Requirements
 - Commercial Drivers License
 - Verification of Transit Training (CHP)
 - Vehicle for Developmentally Disabled Person Certification (CHP)
- Ambulatory and wheelchair trips



Modes of Transportation









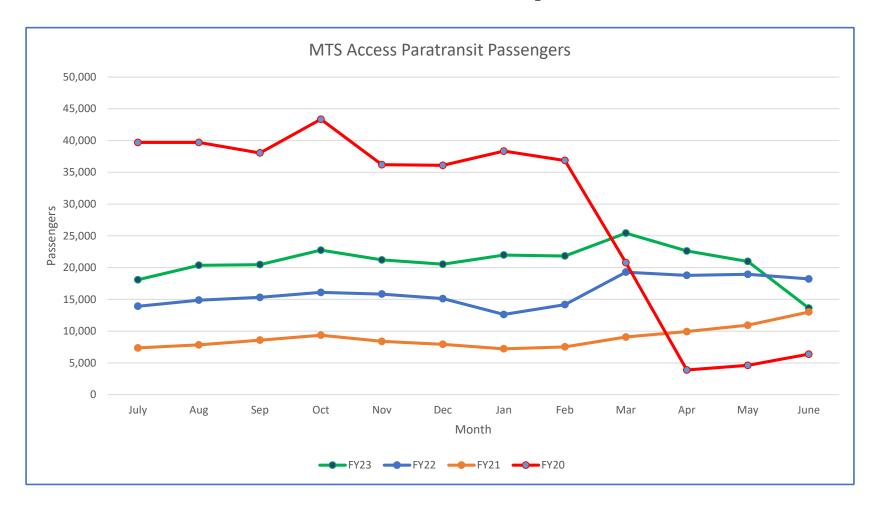


MTS Contract Oversight

- Certifications done on site at MTS facility-Imperial Avenue Division
- Daily performance monitoring
- Monthly on site inspections
- Oversight by MTS Maintenance, Safety, and Operations
- Monitored for compliance with ADA, DOJ, DOT, FTA,CHP, and contractual performance requirements
- Monthly and quarterly safety reviews with MTS executive staff and FT Safety Department
- Complaint review- all customer service complaints go directly to MTS and reviewed by MTS staff for response and corrective actions.
- Monitor for potential "Barriers to Access"
- Accessible Services Advisory Committee (ASAC)
- Deputy General Counsel-ADA compliance Officer



Ridership





Ridership

- Ridership is demand based
- Pre COVID Access transported approximately 40,000 passengers monthly or 500,000 annually
- In FY21 dropped 80% to approximately 100,000 passengers
- 26% of trips are wheelchair riders
- 21% of riders are do not leave alone
- 8% are door to door
- Cannot deny trip requests (2 hour window)



Bridging the Gap

COVID impact

- Ridership decline
- MTS executed a supplemental agreement with FT to help offset costs of maintaining assets and fixed costs.
- Implemented reduced PPH to ensure social distancing during the height of COVID
- Implemented single ride trips for social distancing
- Reduced Taxi use, to keep focus on FT as the primary contractor
- FT reduced workforce through attrition and had to furlough some personnel



Bridging the Gap Continued

Post COVID

- Ridership returning
- FY22 increased by 80% over FY21.
- Currently at 55% of Pre-COVID Passenger levels
- FY23 29% increase over FY22
- 21,000 passengers a month
- FY23 250,000 passengers





Bridging the Gap Continued

- All furloughed personnel were offered to return to work
- As ridership returned MTS implemented \$2 wage increase
- Re-implemented and increased taxi trips
- FT contracted with UZURV to assist with trips
- Implemented referral and hiring bonuses
- Local community hiring outreach program





Performance Levels

Pre-COVID (March 2019)

- OTP 90%
- OBT 90%
- Hold times in reservations 33 seconds
- Missed trips 42

Post COVID (April 2023)

- OTP 79%
- OBT 90%
- Hold times in reservations 94 seconds
- Missed trips 416

Post Strike (July 2023)

- OTP 90%
- OBT 89%
- Hold times in reservations 11 seconds
- Missed trips 81



Work Stoppage

- Dispute between First Transit and Teamsters Union
- 2 day support strike April 26th and 27th (El Centro)
- Local strike began May 22nd and ended June 28 (37 days)
- FT used subcontractors to provide para transit service
 - Taxi
 - UZURV
 - FACT
 - Care 7
 - Telekom
- Covered approx. 60% of daily service
- Robust communication program with riders
- Less than 2% driver loss from strike



Return to Work







Next Steps

- Operators back to work
- It's all about operators
- Continued use of subs to augment service level
- Turnover improvement
- Retention improving
- Class size increasing
- New management approach
- Increased HR staff
- Wage increase by MTS in December 2022
- Wage improvements June 2023





Innovations

- Automated phone notifications
- Reservation web portal
- Mobile application
- Cashless fare system (Summer 2023)
- Travel training Transit 101
- Automated Ride tracking through app
- Free rides for using the app/website (4-free)
- Extended reservation window to 10 days (June 2023)
- Extending certifications from 3 years to 5 years (October 2023)





Questions/Comments



CALL – IN PUBLIC COMMENT

Truth, provided a public comment for agenda items #24. A paraphrased version of Truth's statement will be reflected in the minutes.

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Agenda Item No. 26

MEETING OF THE SAN DIEGO METROPOLITAN TRANSIT SYSTEM BOARD OF DIRECTORS

September 14, 2023

SUBJECT:

Chief Executive Officer's Report

INFORMATIONAL

In accordance with Board Policy No. 52, "Procurement of Goods and Services", attached are listings of contracts, purchase orders, and work orders that have been approved within the CEO's authority (up to and including \$150,000) for the period July 19, 2023 – September 5, 2023.

CEO TRAVEL REPORT (since last Board meeting)

N/A

BOARD MEMBER TRAVEL REPORT (since last Board meeting)

N/A



	E	XPENSE CONTRACTS		
Doc#	Organization	Subject	Amount	Day
PWL354.0-22WAE22	MM	OM INSPECTIONS COPLEY	\$68,130.66	7/28/2023
G2414.2-21	WATTS & HARTMANN	EXERCISE OPT YEARS AND ADD EXHIBIT D	\$67,800.00	8/3/2023
G1947.0-17WOAAE1609	HDR	ADD FUNDS	\$17,825.45	8/8/2023
PWG347.0-22JOC347-16	ABCGC	J ST CMP EMERGENCY REPAIR	\$146,929.97	8/8/2023
PWL356.0-22W356AE32	PRE	ADD FUNDS AND TIME	\$7,411.65	8/9/2023
G2541.0-22W2541-AE21	BRI	ADD FUNDS	\$62,488.50	8/9/2023
PWL354.0-22W354AE131	MM	ADD FUNDS	\$18,115.58	8/11/2023
G2785.0-24	MCCS	CAREER AND EDUCATION FAIR	\$150.00	8/18/2023
G2755.0-23	MONMOUTH SOLUTIONS, INC	MOBILE TRAILERS	\$107,945.00	8/22/2023
PWG347.0-22JOC347-08	ABCGC	BL BRIDGE REPAIR	\$149,887.28	8/23/2023
PWL353.0-22WOAAE191	DOKKEN ENG	ADD TASK	\$16,813.67	8/29/2023
PWG324.01-21JOC324-3	ABCGC	NOBEL PKG BOLLARD REPAIR	\$9,813.47	9/5/2023
PWL337.4-21CCO 12	WEST COAST GENERAL	CCO12 OCS BACKBONE	\$66,397.32	9/5/2023
PWG324.0-21JOC324-32	ABCGC	PACKAGE UNITS BUILDING C AND RAIL YARD TOWER	\$130,035.44	9/5/2023

	RI	EVENUE CONTRACTS AND MOUs		
Doc#	Organization	Subject	Amount	Day
G2772.0-24	SPOILER MEDIA	COMIC CON RADIP ACTIVATION	\$0.00	7/20/2023
M6790.0-23	SD ZOO WILDLIFE ALLIANCE	TROLLEY FILMING ROE	\$0.00	7/25/2023
L5848.1-22	SDCRAA	SASSAFRAS CM ACTIVITIES JROE	\$750.00	7/26/2023
G2764.0-23	NCTD	DEL MAR THOROUGHBRED CLUB & MTS MOU	\$0.00	7/26/2023
G2669.0-23	SDSU	PRONTO COLLEGE PASS PROGRAM	\$0.00	7/27/2023
G2653.0-23	BRICEHOUSE	MASTER CONCESSIONAIRE SERVICES V2	\$0.00	8/2/2023
S200-23-823	SD COUNTY BICYCLE COALITION	ROE BIKE THE BAY 2023	\$750.00	8/18/2023
S200-24-828	RDZ	ROE PLUMBING SEWER REPAIR SY STATION	\$750.00	8/18/2023
L6839.0-24	SD DANCE THEATER	ROE TROLLEY DANCES 2023	\$0.00	8/18/2023
L6808.1-22	MCIM	257.2-257.3-0823-JROE TIME EXT	\$750.00	8/23/2023
G2683.2-23	SANDAG S964752	YOP AMENDMENT	\$11,548,300.00	8/24/2023
G0868.20-03	NCTD	COST SHARE FOR RTMS CP LICENSING	\$186,162.00	9/5/2023

4400002476 7/19/2023 ODP Business Solutions, LLC G200-OFFIC	OP TOOLS	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted
4400002476 7/19/2023 ODP Business Solutions, LLC G200-OFFIC			Aillouit	Amount
,	E CLIDDLIEC	\$ 554.43	-	-
4400002477 7/19/2023 ODP Business Solutions LLC G200_OFFIC	E SUPPLIES	\$ 20.04	-	-
G200-OFFIC	E SUPPLIES	\$ 91.14	-	-
4400002478 7/19/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 128.06	-	-
4400002479 7/20/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 59.23	-	-
4400002480 7/21/2023 ODP Business Solutions, LLC I110-INFORM	IATION TECH	\$ 3,437.67	-	-
4400002481 7/21/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 73.01	-	-
4400002482 7/21/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 698.21	-	-
	E SUPPLIES	\$ 421.85	-	-
4400002484 7/24/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 233.85	-	-
4400002485 7/24/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 107.74	-	-
4400002486 7/25/2023 Mcmaster-Carr Supply Co G150-FAS	STENERS	\$ 63.45	-	-
4400002487 7/26/2023 W.W. Grainger Inc G140-SHOF	SUPPLIES	\$ 227.23	-	-
4400002488 7/26/2023 Mcmaster-Carr Supply Co G140-SHOF	SUPPLIES	\$ 103.70	-	-
4400002489 7/26/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 67.87	-	-
4400002490 7/27/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 353.85	-	-
4400002491 7/27/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 86.63	-	-
4400002492 7/28/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 83.31	-	-
4400002493 7/28/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 180.44	-	-
4400002494 7/28/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 69.07	-	-
4400002495 7/31/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 311.15	-	-
4400002496 8/1/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 226.94	-	-
4400002497 8/2/2023 W.W. Grainger Inc F160-BLDG F	HVAC EQUIP	\$ 1,186.82	-	-
4400002498 8/3/2023 W.W. Grainger Inc G190-SAFETY/N	MED SUPPLIES	\$ 2,665.10	-	-
	E SUPPLIES	\$ 596.11	-	-
		\$ 59.77	-	-
4400002501 8/4/2023 Mcmaster-Carr Supply Co M140-WAYSI	IDE SIGNALS	\$ 1,054.90	-	-
		\$ 495.75	-	-
		\$ 183.34	-	-
		\$ 33.51	-	-
	SUPPLIES	\$ 135.62	-	-
4400002506 8/7/2023 W.W. Grainger Inc G120-SE	CURITY	\$ 47.69	-	-
4400002507 8/7/2023 ODP Business Solutions, LLC G200-OFFIC		\$ 775.31	-	-
	E SUPPLIES	\$ 1,195.22	-	-
4400002509 8/9/2023 ODP Business Solutions, LLC G200-OFFIC		\$ 318.50	-	-
4400002510 8/9/2023 ODP Business Solutions, LLC G200-OFFIC	E SUPPLIES	\$ 343.50	-	-
		\$ 937.91	-	-
	E SUPPLIES	\$ 226.26	-	-
	OP TOOLS	\$ 167.35	-	-
		\$ 602.64	-	-
		\$ 832.18	-	-
	E SUPPLIES	\$ 700.16	-	_
		\$ 320.17	-	
		\$ 79.30	-	
	MED SUPPLIES		-	-

			Purch	ase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4400002520		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 137.07	-	-
4400002521		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 326.10	-	-
4400002522		ODP Business Solutions, LLC		I110-INFORMATION TECH	\$ 468.70	-	-
4400002523		W.W. Grainger Inc		F130-VEH HOISTS, JACKS	\$ 134.93	-	-
4400002524		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 249.96	-	-
4400002525		W.W. Grainger Inc		M110-SUB STATION	\$ 65.68	-	-
4400002526		W.W. Grainger Inc		G130-SHOP TOOLS	\$ 106.76	-	-
4400002527		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 267.98	-	-
4400002528		W.W. Grainger Inc		G130-SHOP TOOLS	\$ 198.58	-	-
4400002529		W.W. Grainger Inc		M110-SUB STATION	\$ 1,070.94	-	-
4400002530		W.W. Grainger Inc		G130-SHOP TOOLS	\$ 1,226.63	-	-
4400002531		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 586.34	-	-
4400002532		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 520.67	-	-
4400002533		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 116.34	-	-
4400002534		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 322.18	-	-
4400002535		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 878.83	-	-
4400002536		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 350.18	-	-
4400002537		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 164.15	-	-
4400002538		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 401.71	-	-
4400002539		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 389.70	-	-
	8/31/2023	ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 539.95	-	-
4400002541	9/2/2023	W.W. Grainger Inc		T110-TRACK, RAIL	\$ 270.33	-	-
4400002542	9/2/2023	ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 386.66	-	-
4400002543	9/5/2023	ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 475.66	-	-
4400002544	9/5/2023	ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 618.00	-	-
4400002545	9/5/2023	ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 155.15	-	-
4400002546	9/5/2023	W.W. Grainger Inc		T110-TRACK, RAIL	\$ 2,601.48	-	-
4500055528	7/19/2023	Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$ 90.90	-	-
4500055529	7/19/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$ 2,496.39	-	-
4500055530		SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$ 2,916.05	-	-
4500055531		Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$ 792.19	-	-
4500055532		Kurt Morgan		G230-PRINTED MATERIALS	\$ 424.10	-	-
4500055533	7/19/2023	ColorID LLC	Small Business	G200-OFFICE SUPPLIES	\$ 703.07	-	-
4500055534	7/19/2023	Neyenesch Printers Inc	Small Business	G230-PRINTED MATERIALS	\$ 3,563.78	-	-
4500055535	7/19/2023	Robcar Corporation	Woman Owned Business	G110-BUS/TROLLEY SIGNAGE	\$ 479.49	-	-
4500055536	7/19/2023	Myers & Sons Hi-Way Safety Inc		M130-CROSSING MECHANISM	\$ 361.18	-	-
4500055537	7/19/2023	National Association of Government		P490-MANAGEMENT TRAINING	\$ 225.00	-	-
4500055538		Fastenal Company		G190-SAFETY/MED SUPPLIES	\$ 344.16	-	-
4500055539		Professional Contractors Supplies		G140-SHOP SUPPLIES	\$ 523.72	-	-
4500055540	7/19/2023	Reid and Clark Screen Arts Co		R120-RAIL/LRV CAR BODY	\$ 278.00	-	-
4500055541		Annex Warehouse Company, Inc		F120-BUS/LRV PAINT BOOTHS	\$ 2,862.35	-	
4500055542	7/19/2023	Applied Industrial		G170-LUBRICANTS	\$ 1,283.53	-	-
4500055543	7/19/2023	Gillig LLC		B130-BUS BODY	\$ 2,954.95	-	
4500055544		Harbor Diesel & Equipment, Inc		G170-LUBRICANTS	\$ 3,288.71	-	-
4500055545	7/19/2023	Cummins Inc		B250-BUS REPAIR PARTS	\$ 69.13	-	-

			Puro	hase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055546		Fehr Brothers Industries, Inc.		G140-SHOP SUPPLIES	\$ 69.24	-	-
4500055547		Motion Industries, Inc.		B120-BUS MECHANICAL PARTS		-	-
4500055548	7/19/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 3,086.17	-	-
4500055549	7/19/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 185.23	-	-
4500055550		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 151.00	-	-
4500055551		Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$ 190.17	-	-
4500055552		Muncie Reclamation and Supply Co		B120-BUS MECHANICAL PARTS		-	-
4500055553		Transit Holdings Inc		B140-BUS CHASSIS	\$ 3,495.30	-	-
4500055554		Transit Holdings Inc		B130-BUS BODY	\$ 274.06	-	-
4500055555		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 4,697.04	-	-
4500055556		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 67.52	-	-
4500055557		Motion Industries, Inc.		B120-BUS MECHANICAL PARTS		-	-
4500055558		ezCater, Inc		P440-CATERING SERVICES	\$ 895.36	-	-
4500055559		Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$ 32,758.16	-	-
4500055560		Asbury Environmental Services		B200-BUS PWR TRAIN EQUIP	\$ 1,842.53	-	-
4500055561		Hi-Tec Enterprises		G170-LUBRICANTS	\$ 14,303.82	-	-
4500055562		Knorr Brake Company, LLC		R160-RAIL/LRV ELECTRICAL	\$ 2,705.61	-	-
4500055563		Canada Ticket Inc.		G280-FARE MATERIALS	\$ 12,542.10	-	-
4500055564		Siemens Mobility, Inc.		M140-WAYSIDE SIGNALS	\$ 14,998.52	-	-
4500055565		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 3,174.10	-	-
4500055566	7/21/2023	Siemens Mobility, Inc.		R180-RAIL/LRV LIGHTING	\$ 411.52	-	-
4500055567		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$ 645.86	-	-
4500055569		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 2,631.47	-	-
4500055570	7/21/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$ 782.28	-	-
		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 22.79	-	-
4500055572	7/23/2023	Mouser Electronics Inc		G150-FASTENERS	\$ 1,384.64	-	-
		Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$ 374.14	-	-
4500055574	7/23/2023	Hi-Tec Enterprises		R160-RAIL/LRV ELECTRICAL	\$ 1,476.18	-	-
4500055575	7/23/2023	B & S Graphics Inc		B130-BUS BODY	\$ 21.55	-	-
4500055576		Vern Rose Inc		G160-PAINTS & CHEMICALS	\$ 514.13	-	-
4500055577	7/23/2023	CDW LLC		I110-INFORMATION TECH	\$ 3,954.91	-	-
4500055578		JKL Cleaning Systems	Small Business	F110-SHOP/BLDG MACHINERY	\$ 103.38	-	-
4500055579	7/23/2023	W.W. Grainger Inc		B120-BUS MECHANICAL PARTS	\$ 246.38	-	-
4500055580	7/23/2023	Mcmaster-Carr Supply Co		P540-MAINTENANCE TRAINING	\$ 95.53	-	-
4500055581	7/23/2023	Inland Kenworth (US) Inc		B200-BUS PWR TRAIN EQUIP	\$ 91.01	-	-
4500055582	7/23/2023	Muncie Reclamation and Supply Co		B130-BUS BODY	\$ 98.45	-	-
4500055583		AirSupply Tools, Inc		G140-SHOP SUPPLIES	\$ 34.21	-	-
4500055584	7/23/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 210.42	-	-
4500055585		San Diego Friction Products, Inc.		B250-BUS REPAIR PARTS	\$ 1,304.57	-	-
4500055586	7/23/2023	Mcmaster-Carr Supply Co		F110-SHOP/BLDG MACHINERY	\$ 185.17	-	-
4500055587	7/23/2023	R.S. Hughes Co Inc		G160-PAINTS & CHEMICALS	\$ 1,975.03	-	-
4500055588	7/23/2023	Gillig LLC		B250-BUS REPAIR PARTS	\$ 728.10	-	-
4500055589	7/23/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$ 251.23	-	<u>-</u>
4500055590		Mcmaster-Carr Supply Co		P540-MAINTENANCE TRAINING	\$ 364.15	-	-
4500055591	7/23/2023	W.W. Grainger Inc		B250-BUS REPAIR PARTS	\$ 88.77	-	-

			Purc	hase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055592		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	2,123.69	-	-
4500055593		TK Services Inc		B250-BUS REPAIR PARTS	\$	650.95	-	-
4500055594		W.W. Grainger Inc		G180-JANITORIAL SUPPLIES	\$	1,373.30	-	-
4500055595		Transit Holdings Inc		G130-SHOP TOOLS	\$	999.45	-	-
4500055596		W.W. Grainger Inc		F110-SHOP/BLDG MACHINERY	_	185.82	-	-
4500055597		Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	_	41.92	-	-
4500055598		Mcmaster-Carr Supply Co		P540-MAINTENANCE TRAINING	\$	97.50	-	-
4500055599		Kurt Morgan		G200-OFFICE SUPPLIES	\$	306.68	-	-
4500055600		Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$	2,135.00	-	-
4500055601		Transit Holdings Inc		P540-MAINTENANCE TRAINING	\$	999.45	-	-
4500055602		Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$	1,200.00	-	-
4500055603		Prochem Specialty Products Inc	Small Business	G180-JANITORIAL SUPPLIES	\$	1,718.62	-	-
4500055604		Transit Holdings Inc		B130-BUS BODY	\$	197.28	-	-
4500055605		San Diego Friction Products, Inc.		B110-BUS HVAC SYSTEMS	\$	281.62	-	-
4500055606		VGP Holdings LLC		B120-BUS MECHANICAL PARTS	\$	14,010.95	-	-
4500055607		Harbor Diesel & Equipment, Inc		G170-LUBRICANTS	\$	9,305.40	-	-
4500055608		Motion Industries, Inc.		G160-PAINTS & CHEMICALS	\$	114.53	-	-
4500055609		Cummins Inc		B120-BUS MECHANICAL PARTS	\$	6,383.57	-	-
4500055610		Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$	175.00	-	-
	7/24/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	473.24	-	-
4500055612		Transit Holdings Inc		B140-BUS CHASSIS	\$	3,220.55	-	-
4500055613		Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$	33.29	-	-
4500055614		Transit Holdings Inc		B140-BUS CHASSIS	\$	2,409.79	-	-
4500055615		Matthias Moos		M120-OVRHEAD CATENARY SYS	\$	4,011.54	-	-
4500055616		Transit Holdings Inc		B130-BUS BODY	\$	1,361.26	-	-
	7/24/2023	SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$	2,922.21	-	-
4500055618		Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE	\$	13,983.27	-	-
4500055619		San Diego Friction Products, Inc.		G140-SHOP SUPPLIES	\$	757.80	-	-
4500055620		Alpine Fence Inc.		F180-BUILDING MATERIALS	\$	2,219.66	-	-
	7/24/2023	Comfort Mechanical Inc	Small Business	M110-SUB STATION	\$	1,805.55	-	-
	7/24/2023	Staples Contract & Commercial LLC		P280-GENERAL SVC AGRMNTS	\$	352.34	-	-
4500055623		Fastenal Company		G150-FASTENERS	\$	67.89	-	-
	7/24/2023	Reid and Clark Screen Arts Co		P210-NON-REV VEH REPAIRS	\$	81.42	-	-
4500055625		Graybar Electric Co Inc		G140-SHOP SUPPLIES	\$	185.54	-	-
4500055626		Day Management Corp		P210-NON-REV VEH REPAIRS		275.00	-	-
4500055627		Raphael's Party Rentals Inc		P310-ADVERTISING SERVICES	\$	962.37	-	-
4500055628		Clarran Inc.	DBE	G150-FASTENERS	\$	82.28	-	-
4500055629		Reg-A-Car Inc		B250-BUS REPAIR PARTS	\$	300.00	-	-
4500055630		Dimensional Silk Screen Inc		G230-PRINTED MATERIALS	\$	206.88	-	-
4500055631		AirSupply Tools, Inc		G140-SHOP SUPPLIES	\$	324.59	-	-
4500055632		Gillig LLC		B120-BUS MECHANICAL PARTS	\$	245.98	-	-
4500055633				G170-LUBRICANTS	\$	3,430.76	-	-
4500055634		Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	18.77	-	-
4500055635		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	1,476.90	-	-
4500055636	7/25/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	3,947.21	-	-

			Purch	ase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055637		Transit Holdings Inc		B130-BUS BODY	\$	6,543.37	-	-
4500055638		Transit Holdings Inc		B130-BUS BODY	\$	610.56	-	-
4500055639		Custom Glass Solutions		R120-RAIL/LRV CAR BODY	\$	9,824.07	-	-
4500055640		Adios Pest Control, Inc.	Small Business	P280-GENERAL SVC AGRMNTS		150.00	-	-
4500055641	7/25/2023	Mohawk Mfg & Supply Co		B200-BUS PWR TRAIN EQUIP	\$	103.55	-	-
4500055642	7/25/2023	AirSupply Tools, Inc		G200-OFFICE SUPPLIES	\$	55.26	-	-
4500055643	7/25/2023	Clarran Inc.	DBE	G130-SHOP TOOLS	\$	202.93	-	-
4500055644	7/25/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$	3,705.53	-	-
4500055645	7/25/2023	Harbor Diesel & Equipment, Inc		B120-BUS MECHANICAL PARTS	\$	187.93	-	-
4500055646	7/25/2023	Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$	64.41	-	-
4500055647	7/25/2023	W.W. Grainger Inc		G170-LUBRICANTS	\$	91.53	-	-
4500055648	7/25/2023	Compressed Air Systems		F180-BUILDING MATERIALS	\$	1,982.61	-	-
4500055649	7/25/2023	Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	1,970.10	-	-
4500055650		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	3,340.25	-	-
4500055651	7/25/2023	Gillig LLC		B250-BUS REPAIR PARTS	\$	683.60	-	-
4500055652		Muncie Reclamation and Supply Co		B160-BUS ELECTRICAL	\$	16.68	-	-
4500055653		Cummins Inc		B120-BUS MECHANICAL PARTS	\$	165.77	-	-
	7/26/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$	33.29	-	_
4500055655		Transit Holdings Inc		B140-BUS CHASSIS	\$	1,699.95	-	-
4500055656		Transit Holdings Inc		B120-BUS MECHANICAL PARTS	_	438.98	-	_
	7/26/2023	Zen Industrial Services LLC	DBE	B160-BUS ELECTRICAL	\$	48.65	-	-
4500055658		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	1,874.20	_	-
4500055659		Transit Holdings Inc		B130-BUS BODY	\$	1,602.81	-	_
4500055660		Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$	846.92	_	_
	7/26/2023	Jamison Professional Services, LLC	DBE	G170-LUBRICANTS	\$	1,538.41	_	-
	7/26/2023	Siemens Mobility, Inc.	552	R160-RAIL/LRV ELECTRICAL	\$	61.96	_	_
	7/26/2023	Fastenal Company		G140-SHOP SUPPLIES	\$	2,139.66	_	
4500055664		Fastenal Company		G170-LUBRICANTS	\$	3,794.40	_	
4500055665		Simmons-Boardman Books, Inc.		P540-MAINTENANCE TRAINING	_	1,697.62	_	
	7/26/2023	Comfort Mechanical Inc	Small Business	M110-SUB STATION	\$	983.00		
	7/26/2023	Shilpark Paint Corporation	Offiail Busilless	G160-PAINTS & CHEMICALS	\$	130.71	_	
4500055669			Woman Owned Business		\$	484.88	_	
4500055670		Virginia Electronic & Lighting LLC	Woman Owned Business	M140-WAYSIDE SIGNALS	\$	1,912.57	-	-
	7/26/2023	Airgas Inc		G190-SAFETY/MED SUPPLIES	\$	506.91	_	
4500055672		Arizona Machinery LLC		A110-AUTO/TRUCK TIRES	\$	769.95	-	-
4500055673		Western-Cullen-Hayes Inc		M130-CROSSING MECHANISM		287.85	-	-
4500055674					_		-	-
4500055674		Schunk Carbon Technology LLC TK Services Inc		R190-RAIL/LRV PANTOGRAPH		1,022.64	-	-
				B110-BUS HVAC SYSTEMS	\$	67.82	-	-
4500055676		Professional Contractors Supplies		G140-SHOP SUPPLIES	\$	1,267.11	-	-
4500055677		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	3,469.74	-	-
4500055678		W.W. Grainger Inc		G140-SHOP SUPPLIES	\$	131.58	-	-
4500055679		Home Depot USA Inc	Min a nitra Occurs a al Decado	G180-JANITORIAL SUPPLIES	\$	987.69	-	-
4500055680			Minority Owned Business	R150-RAIL/LRV COMM EQUIP	\$	2,478.25	-	-
4500055681		Winzer Franchise Company		G150-FASTENERS	\$	528.69	-	-
4500055682	7/26/2023	Hitachi Rail STS USA, Inc.		M130-CROSSING MECHANISM	\$	837.87	-	-

			Purc	hase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055683		Hi-Tec Enterprises		R160-RAIL/LRV ELECTRICAL	\$	678.83	-	-
4500055684		Fastenal Company		G180-JANITORIAL SUPPLIES	\$	1,555.64	-	-
4500055685	7/26/2023	OneSource Distributors, LLC		G190-SAFETY/MED SUPPLIES	\$	970.43	-	-
4500055686	7/26/2023	Facility Solutions Group, Inc.		M140-WAYSIDE SIGNALS	\$	4,403.75	-	-
4500055687	7/26/2023	State of California		P450-PERSONNEL SVCS	\$	5,000.00	-	-
4500055688		Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	7,997.21	-	-
4500055689	7/26/2023	Willy's Electronic Supply Co Inc	Small Business	G270-ELECTRICAL/LIGHTING	\$	390.54	-	-
4500055690	7/26/2023	Brand Makers LLC	Small Business	G200-OFFICE SUPPLIES	\$	252.10	-	-
4500055691	7/26/2023	Clarran Inc.	DBE	G150-FASTENERS	\$	60.61	-	-
4500055692	7/26/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	6.86	-	-
4500055693	7/26/2023	Charter Industrial Supply Inc	Small Business	G150-FASTENERS	\$	155.65	-	-
4500055694	7/26/2023	Conisa Oropeza Enterprises Inc		G120-SECURITY	\$	401.89	-	-
4500055695	7/26/2023	R.S. Hughes Co Inc		G190-SAFETY/MED SUPPLIES	\$	230.96	-	-
4500055696	7/26/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	2,947.17	-	-
4500055697	7/26/2023	Carmine Bausone DVM Inc.		G120-SECURITY	\$	1,521.00	-	-
4500055698	7/26/2023	Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$	300.63	-	-
4500055699		Gillig LLC		G140-SHOP SUPPLIES	\$	53.76	-	-
4500055700		711 Print Enterprises Inc		G230-PRINTED MATERIALS	\$	2,153.93	-	-
	7/26/2023	Mcmaster-Carr Supply Co		R230-RAIL/LRV MECHANICAL	\$	210.66	-	-
4500055702		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	864.24	-	-
4500055703		Reid and Clark Screen Arts Co		M130-CROSSING MECHANISM	\$	2,203.38	-	-
4500055704		Total Filtration Services Inc		F120-BUS/LRV PAINT BOOTHS	_	183.82	-	-
4500055705		Facility Solutions Group, Inc.		G120-SECURITY	\$	1,551.34	-	-
4500055706		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	8,638.86	-	-
		San Diego Compressed Air Power LLC		F180-BUILDING MATERIALS	\$	646.51	_	_
4500055708		Muncie Reclamation and Supply Co		B130-BUS BODY	\$	14.82	_	-
	7/26/2023	Vern Rose Inc		G160-PAINTS & CHEMICALS	\$	145.51	_	-
	7/26/2023	Genfare, LLC		G290-FARE REVENUE EQUIP	\$	168.18	_	_
4500055712		Jamison Professional Services, LLC	DBE	G170-LUBRICANTS	\$	1,442.99	_	_
4500055713		Siemens Mobility, Inc.		R180-RAIL/LRV LIGHTING	\$	1,280.33	_	_
4500055714		Transit Holdings Inc		B130-BUS BODY	\$	2,526.25	_	-
4500055715		Transit Holdings Inc		B140-BUS CHASSIS	\$	808.03	_	_
4500055716		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	35.34	_	_
	7/27/2023	Cummins Inc		B120-BUS MECHANICAL PARTS	_	78.98	_	_
4500055718		San Diego Friction Products, Inc.		B140-BUS CHASSIS	\$	808.59	_	_
4500055721		Alliant Insurance Services, Inc.		P370-RISK MANAGEMENT	\$	19,204.00	_	_
4500055722		Public Risk, Innovation, Solutions,		P370-RISK MANAGEMENT	\$	76,807.00	_	_
4500055723		Transit Holdings Inc		B120-BUS MECHANICAL PARTS	_	27.80	-	-
4500055724		Cummins Inc		B250-BUS REPAIR PARTS	\$	64.01	_	_
4500055725		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	1,012.68	_	_
4500055726		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	1,752.50	_	<u> </u>
4500055727		Transit Holdings Inc		B120-BUS MECHANICAL PARTS	_	4,572.85	_	_
4500055728		Transit Holdings Inc		B120-BUS MECHANICAL PARTS		3,511.43	-	
4500055729		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	366.62		
4500055730		Transit Holdings Inc		B160-BUS ELECTRICAL	\$	3,337.07		<u>-</u>
+300033730	112012023	Transit Holdings Inc		D 100-DUS ELECTRICAL	Φ	3,33 <i>1</i> .0 <i>1</i>	-	-

			Purch	ase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
	7/28/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY		127.10	-	-
	7/28/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	\$	84.43	-	-
4500055733		M.A. Stewarr & Sons (USA) LTD.	Small Business	F110-SHOP/BLDG MACHINERY	\$	203.84	-	-
4500055734		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	63.33	-	-
4500055735	7/28/2023	Harbor Diesel & Equipment, Inc		B250-BUS REPAIR PARTS	\$	595.77	-	-
4500055736	7/28/2023	W.W. Grainger Inc		F110-SHOP/BLDG MACHINERY	\$	27.18	-	-
4500055737	7/28/2023	Gillig LLC		B130-BUS BODY	\$	2,684.85	-	-
4500055738	7/28/2023	Clarran Inc.	DBE	G150-FASTENERS	\$	120.53	-	-
4500055739		AirSupply Tools, Inc		G150-FASTENERS	\$	168.84	-	-
4500055740	7/28/2023	Mohawk Mfg & Supply Co		B200-BUS PWR TRAIN EQUIP	\$	155.03	-	-
4500055741		W.W. Grainger Inc		G170-LUBRICANTS	\$	66.78	-	-
4500055742	7/28/2023	Motion Industries, Inc.		B120-BUS MECHANICAL PARTS	\$	892.35	-	-
4500055743	7/28/2023	Genfare, LLC		B250-BUS REPAIR PARTS	\$	543.06	-	-
4500055744	7/28/2023	San Diego Community		P540-MAINTENANCE TRAINING	\$	26.94	-	-
4500055745	7/28/2023	Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	2,585.35	-	-
4500055746	7/28/2023	R.S. Hughes Co Inc		G200-OFFICE SUPPLIES	\$	800.00	-	-
4500055747	7/28/2023	Freeby Signs		B130-BUS BODY	\$	105.95	-	-
4500055748		B & S Graphics Inc		B130-BUS BODY	\$	393.83	-	-
4500055749	7/28/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	1,121.48	-	-
4500055750		Kenneth Place		G130-SHOP TOOLS	\$	2,733.09	-	-
	7/28/2023	Vinyard Doors, Inc.	Woman Owned Business		\$	2,988.00	-	-
4500055752		Muncie Reclamation and Supply Co		B120-BUS MECHANICAL PARTS		82.10	-	-
4500055753		Muncie Reclamation and Supply Co		B120-BUS MECHANICAL PARTS		82.10	-	-
	7/31/2023	Transit Holdings Inc		B110-BUS HVAC SYSTEMS	\$	18,112.25	-	-
4500055755		Transit Holdings Inc		B130-BUS BODY	\$	875.64	-	_
	7/31/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	428.66	_	_
	7/31/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	2.80	_	_
4500055758			Woman Owned Business		\$	894.33	_	_
4500055759		Jamison Professional Services, LLC	DBE	G170-LUBRICANTS	\$	407.30	_	_
4500055760		Siemens Mobility, Inc.	552	R220-RAIL/LRV TRUCKS	\$	18,297.03	_	_
	7/31/2023	Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	25,704.84	_	_
4500055762		Home Depot USA Inc		G130-SHOP TOOLS	\$	4,293.84	_	_
4500055763		Continental Locks		P120-BLDG/FACILITY REPRS	\$	170.00	_	_
4500055764		D's Kustom Sales & Services, LLC		T110-TRACK, RAIL	\$	3,954.90	_	_
4500055765		Charter Industrial Supply Inc	Small Business	R220-RAIL/LRV TRUCKS	\$	522.91	_	_
4500055766		Hani Toma	Ciriali Bacilloco	P280-GENERAL SVC AGRMNTS		1,521.63	_	_
4500055767		Home Depot USA Inc		G270-ELECTRICAL/LIGHTING		682.58	_	
4500055768		Transit Holdings Inc		B120-BUS MECHANICAL PARTS		8,727.14	-	
4500055769		Vern Rose Inc		G140-SHOP SUPPLIES	\$	406.60	-	-
4500055709		Gillig LLC		B150-BUS COMM EQUIP.	\$	3,061.24		<u>-</u>
4500055770		Wesco Distribution Inc		F110-SHOP/BLDG MACHINERY		358.81	-	-
4500055771		The Sherwin-Williams Company		B130-BUS BODY	\$		-	-
4500055772		Compressed Air Systems		F110-SHOP/BLDG MACHINERY	\$	231.49	-	-
4500055774		Muncie Reclamation and Supply Co			_	211.19	-	-
		Romaine Electric Corporation	Cmall Dusiness	B110-BUS HVAC SYSTEMS	\$	17.16	-	-
4500055775	113112023	Nomaine Electric Corporation	Small Business	B160-BUS ELECTRICAL	\$	3,359.90	-	-

PO Number PO Date Name				Purch	ase Orders			
450005777 731/2023 Professional Contractors Supplies G130-SHOP TOQLS \$ 211.11	PO Number	PO Date	Name		Material Group	PO Value		Subcontracted
					G200-OFFICE SUPPLIES	\$ 172.78	-	-
4500055778 731/2023 EDCO Disposal Corporation P280-GENERAL SVC AGRINNTS \$4,869.00 . . 4500055781 731/2023 Claran Inc. DBE G130-SHOP TOOLS \$258.60 . . 4500055781 731/2023 Claran Inc. DBE G130-SHOP TOOLS \$258.60 . . 4500055783 731/2023 SC Commercial LLC A120-MUTO/TRUCK GASQLINE \$1,285.84 . . 4500055783 731/2023 Supreme Oil Co. A120-MUTO/TRUCK GASQLINE \$1,285.39 . . 4500055783 731/2023 Supreme Oil Co. A120-MUTO/TRUCK GASQLINE \$1,4785.39 . . 4500055786 731/2023 Supreme Oil Co. A120-MUTO/TRUCK GASQLINE \$1,4785.39 . . 4500055786 731/2023 USSC Acquisition Corp B130-BUS BOPY \$625.53 . 4500055786 731/2023 USSC Acquisition Corp B130-BUS BOPY \$625.53 . 4500055787 731/2023 Cummins Inc B250-BUS REPARA PARTS \$3,435.2 . 4500055789 731/2023 Cummins Inc B250-BUS REPARA PARTS \$3,442.39 . 4500055790 731/2023 Cummins Inc G140-SHOP SUPPLES \$442.39 . 4500055791 731/2023 Mohask Mig & Supply Co B140-BUS CHASSIS \$3,110.2 . 4500055792 731/2023 Willy Electronic Supply Co Inc B140-BUS CHASSIS \$3,110.2 . 4500055792 731/2023 Willy Electronic Supply Co Inc B140-BUS CHASSIS \$1,340.24 . 4500055793 731/2023 Willy Electronic Supply Co Inc Small Business G270-ELECTRICAL/LIGHTING \$1,340.24 . 4500055794 731/2023 Willy Electronic Supply Co Inc R160-RNL/RV MECHANICAL \$3,350.68 . 4500055795 731/2023 Cummins Inc R230-RNL/RV MECHANICAL \$3,350.68 . 4500055796 731/2023 Cummins Inc R230-RNL/RV MECHANICAL \$3,50.68 . 4500055797 731/2023 Cummins Inc R230-RNL/RV MECHANICAL \$3,50.68 . 4500055798 731/2023 Milly Electronic Supply Co F110-SHOPPIBLO MACHINERY \$70.20 . 4500055799 731/2023 Milly Electronic Supply Co F110-SHOPPIBLO MACHINERY \$70.20 . 45000555790 731/2023 Milly Electronic Supply Co F110-SHOPPIBLO MACHINERY \$70.20 . 45000					G130-SHOP TOOLS		-	-
4500057878 7317023	4500055778	7/31/2023			B250-BUS REPAIR PARTS	\$ 1,439.14	-	-
ASD0055781 7/31/2023 Clarran Inc. DBE G130-SHOP TOOLS \$ 425.84			EDCO Disposal Corporation		P280-GENERAL SVC AGRMNTS	\$ 4,869.00	-	-
	4500055780	7/31/2023	AirSupply Tools, Inc		G130-SHOP TOOLS		-	-
4500055783 7731/2023 Supreme Oil Co. A120-AUTO/LICK GASOLINE \$ 14,785.39	4500055781	7/31/2023	Clarran Inc.	DBE	G130-SHOP TOOLS	\$ 425.84	-	-
4500055784 7731/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$.343.52	4500055782	7/31/2023	SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$ 3,033.18	-	-
A50005578 7/31/2023 Barry Sandler Enterprises G180_JANITORIA SUPPLIES 1,770.22	4500055783	7/31/2023	Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE	\$ 14,785.39	-	-
A500055787 7/31/2023 Barry Sandler Enterprises G18D_AMPIROLAL SUPPLIES 1,770.22	4500055784	7/31/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 343.52	-	-
A500055788 7/31/2023			USSC Acquisition Corp		B130-BUS BODY	\$ 625.53	-	-
A500055798 7/31/2023 W.W. Grainger Inc	4500055787	7/31/2023	Barry Sandler Enterprises		G180-JANITORIAL SUPPLIES	\$ 1,770.22	-	-
A500055792 7/31/2023	4500055788	7/31/2023	Cummins Inc		B250-BUS REPAIR PARTS			-
A500055791 7/31/2023 Cembre Inc	4500055789	7/31/2023	W.W. Grainger Inc		G140-SHOP SUPPLIES	\$ 442.38	-	-
A500055792 7/31/2023 Willy Electronic Supply Co Inc Small Business G270-ELECTRICAL/LIGHTING \$ 1.340.24	4500055790	7/31/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$ 311.62	-	-
A500055793 7/31/2023 TK Services Inc	4500055791	7/31/2023	Cembre Inc		G130-SHOP TOOLS	\$ 1,951.50	-	-
A500055798 7/31/2023 Knorr Brake Company, LLC R160-RAIL/LRY ELECTRICAL \$ 12,701.57	4500055792	7/31/2023	Willy's Electronic Supply Co Inc	Small Business	G270-ELECTRICAL/LIGHTING	\$ 1,340.24	-	-
A500055795 7/31/2023 Cummins Inc B250-BUS REPAIR PARTS 7,859.37 -	4500055793	7/31/2023	TK Services Inc		R170-RAIL/LRV HVAC	\$ 8,327.48	-	-
4500055796 7/31/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 7,859.37	4500055794	7/31/2023	Knorr Brake Company, LLC		R160-RAIL/LRV ELECTRICAL	\$ 12,701.57	-	-
A500055796 7/31/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 7,859.37	4500055795	7/31/2023	GMT International Corporation		R230-RAIL/LRV MECHANICAL	\$ 35,066.16	-	_
A500055797 7/31/2023 Motion Industries, Inc. B140-BUS CHASSIS \$ 205.85	4500055796	7/31/2023			B250-BUS REPAIR PARTS		-	_
A500055798 7/31/2023 Allied Refrigeration Inc F110-SHOP/BLDG MACHINERY \$ 762.07 -			Motion Industries, Inc.				-	-
4500055799 7/31/2023 Mcmaster-Carr Supply Co	4500055798	7/31/2023				\$ 762.07	-	-
4500055800 7/31/2023 Cart Mart Inc							-	-
4500055801 7/31/2023 ConstructConnect, Inc. I140-IT CAPITAL SOFTWARE \$ 530.00 - - -								-
A500055802 7/31/2023 Mott MacDonald Group Inc P280-GENERAL SVC AGRMNTS \$ 68,130.66 - \$ 59,416.75			ConstructConnect, Inc.					-
A500055803			,					\$ 59.416.75
A500055804 8/1/2023								-
A500055805 8/1/2023 Mohawk Mfg & Supply Co B140-BUS CHASSIS \$ 27.41			Cummins Inc					-
4500055816 8/1/2023 Muncie Reclamation and Supply Co B200-BUS PWR TRAIN EQUIP \$ 121.38							_	-
4500055807 8/1/2023 Transit Holdings Inc B140-BUS CHASSIS \$ 3,122.32 - - 4500055808 8/1/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 2,155.99 - - 4500055809 8/1/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 12.59 - - 4500055810 8/1/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 862.00 - - 4500055811 8/1/2023 Canada Ticket Inc. G280-FARE MATERIALS \$ 10,344.00 - - 4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 - - 4500055812 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 925.50 - - 45							_	-
4500055808 8/1/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 2,155.99 - - 4500055809 8/1/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 12.59 - - 4500055810 8/1/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 862.00 - - 4500055811 8/1/2023 Canada Ticket Inc. G280-FARE MATERIALS \$ 10,344.00 - - 4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 - - 4500055813 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 925.50 - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS 2,763.79 - 4500055817 8							_	-
4500055809 8/1/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 12.59 - - 4500055810 8/1/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 862.00 - - 4500055811 8/1/2023 Canada Ticket Inc. G280-FARE MATERIALS \$ 10,344.00 - - 4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 - - 4500055813 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS 925.50 - - 4500055817 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS 2,763.79 - - 4500055818 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH 3,474.00 - - <							-	_
4500055810 8/1/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 862.00 - - 4500055811 8/1/2023 Canada Ticket Inc. G280-FARE MATERIALS \$ 10,344.00 - - 4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 - - 4500055813 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS 925.50 - - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES 62.76 - -							_	-
4500055811 8/1/2023 Canada Ticket Inc. G280-FARE MATERIALS \$ 10,344.00 - - 4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 - - 4500055813 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS 925.50 - - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -			Ü	Woman Owned Business			_	_
4500055812 8/1/2023 La Mesa Glass, Inc. Small Business F110-SHOP/BLDG MACHINERY \$ 3,095.27 -			<u> </u>					_
4500055813 8/1/2023 Rambuilt Glass LLC P280-GENERAL SVC AGRMNTS \$ 1,550.00 - - 4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 925.50 - - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -				Small Business				
4500055814 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 433.70 - - 4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 925.50 - - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -								
4500055815 8/1/2023 Madden Construction Inc P280-GENERAL SVC AGRMNTS \$ 925.50 - - 4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -								-
4500055816 8/1/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 2,763.79 - - 4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -								
4500055817 8/1/2023 CBT Nuggets, LLC I110-INFORMATION TECH \$ 3,474.00 - - 4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -						•		-
4500055818 8/1/2023 Norman Industrial Materials Inc. G140-SHOP SUPPLIES \$ 62.76 - - 4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -								-
4500055819 8/1/2023 Home Depot USA Inc F110-SHOP/BLDG MACHINERY \$ 152.62 - - 4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64 - -								_
4500055820 8/1/2023 Gillig LLC B140-BUS CHASSIS \$ 537.64								-
			•					
190000000011 00000001 NEVERESCHEDINES III	4500055821	8/1/2023	Neyenesch Printers Inc	Small Business	G230-PRINTED MATERIALS	\$ 1,505.88		

			Puro	hase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055822	8/2/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 775.04	-	-
4500055823	8/2/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$ 1,486.15	-	-
4500055824	8/2/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$ 4,308.40	-	-
4500055825	8/2/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 26.70	-	-
4500055826	8/2/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 1,362.95	-	-
4500055827	8/2/2023	Neyenesch Printers Inc	Small Business	G230-PRINTED MATERIALS	\$ 2,355.00	-	-
4500055828	8/2/2023	SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$ 3,387.82	-	-
4500055829	8/2/2023	Carmine Bausone DVM Inc.		G120-SECURITY	\$ 1,241.38	-	-
4500055830	8/3/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$ 54.24	-	-
4500055831	8/3/2023	Transit Holdings Inc		B120-BUS MECHANICAL PARTS	\$ 3,817.40	-	-
4500055832	8/3/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 142.83	-	-
4500055833	8/3/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 2,344.56	-	-
4500055834	8/3/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 125.74	-	-
4500055835	8/3/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$ 1,476.14	-	-
4500055836	8/3/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 2,327.56	-	-
4500055837	8/3/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 22.79	-	-
4500055838	8/3/2023	Trolley Support LLC		B250-BUS REPAIR PARTS	\$ 4,509.34	-	-
4500055839	8/3/2023	Parts Authority, LLC		B160-BUS ELECTRICAL	\$ 22,475.90	-	-
4500055840	8/3/2023	The Janek Corporation		B250-BUS REPAIR PARTS	\$ 323.25	-	-
4500055841	8/3/2023	W. Baker Management Inc		R160-RAIL/LRV ELECTRICAL	\$ 15,822.01	-	-
4500055842	8/3/2023	Facility Solutions Group, Inc.		M140-WAYSIDE SIGNALS	\$ 37.58	-	-
4500055843	8/3/2023	Fastenal Company		G190-SAFETY/MED SUPPLIES	\$ 3,466.36	-	-
4500055844	8/3/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 4,155.09	-	-
4500055845	8/3/2023	Compressed Air Systems		F110-SHOP/BLDG MACHINERY	\$ 896.49	-	-
4500055846	8/3/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 34.65	-	-
4500055847	8/3/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	\$ 126.55	-	-
4500055848	8/3/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 215.45	-	-
4500055849	8/3/2023	Mohawk Mfg & Supply Co		B120-BUS MECHANICAL PARTS	\$ 110.95	-	-
4500055850	8/3/2023	W.W. Grainger Inc		G180-JANITORIAL SUPPLIES	\$ 180.48	-	-
4500055851	8/3/2023	R.S. Hughes Co Inc		G140-SHOP SUPPLIES	\$ 328.06	-	-
4500055852	8/3/2023	Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$ 66,176.00	-	-
4500055853	8/3/2023	Gillig LLC		B160-BUS ELECTRICAL	\$ 801.17	-	-
4500055854	8/3/2023	Waxie's Enterprises, LLC		G140-SHOP SUPPLIES	\$ 2,484.97	-	-
4500055855	8/3/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 4,004.11	-	-
4500055856				G200-OFFICE SUPPLIES	\$ 100.66	-	-
4500055857	8/3/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 70.53	-	-
4500055859	8/3/2023			F110-SHOP/BLDG MACHINERY	 2,009.17	-	-
4500055860	8/3/2023	Cembre Inc		G130-SHOP TOOLS	\$ 1,008.63	-	-
4500055861	8/3/2023	Mouser Electronics Inc		R150-RAIL/LRV COMM EQUIP	\$ 274.11	-	-
4500055863	8/3/2023	Norman Industrial Materials Inc.		R120-RAIL/LRV CAR BODY	\$ 148.16	-	-
4500055864	8/3/2023	ON-LINE STAMPCO INC	Small Business	G250-NOVELTIES & AWARDS	\$ 381.44	-	-
4500055865	8/3/2023	White Cap, LP		G140-SHOP SUPPLIES	\$ 194.37	-	-
4500055866	8/3/2023	Home Depot USA Inc		G140-SHOP SUPPLIES	\$ 447.12	-	-
4500055867	8/3/2023	AirSupply Tools, Inc		G150-FASTENERS	\$ 575.88	-	-
4500055869	8/4/2023	Transit Holdings Inc		B130-BUS BODY	\$ 1,987.88	-	-

			Purc	hase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055870	8/4/2023	Siemens Mobility, Inc.		R180-RAIL/LRV LIGHTING	\$	411.52	-	-
4500055871	8/4/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	6,379.74	-	•
4500055872	8/4/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$	20.51	-	-
4500055873	8/4/2023	Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	83.57	-	•
4500055874	8/4/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$	4,081.49	-	•
4500055875	8/4/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	127.84	-	-
4500055876	8/4/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	4,583.17	-	-
4500055877	8/4/2023	Norman Industrial Materials Inc.		G140-SHOP SUPPLIES	\$	1,350.43	-	-
4500055878	8/4/2023	Uline Inc		G140-SHOP SUPPLIES	\$	746.71	-	-
4500055879	8/4/2023	Winzer Franchise Company		G140-SHOP SUPPLIES	\$	635.73	-	-
4500055880	8/4/2023	Brady Industries of California, LLC		G180-JANITORIAL SUPPLIES	\$	444.79	-	-
4500055881	8/4/2023	United Laboratories, Inc.		G180-JANITORIAL SUPPLIES	\$	384.15	-	-
4500055882	8/4/2023	Fastenal Company		G170-LUBRICANTS	\$	409.88	-	-
4500055883	8/4/2023	Prochem Specialty Products Inc	Small Business	G180-JANITORIAL SUPPLIES	\$	859.31	-	-
4500055884	8/7/2023	Home Depot USA Inc		G130-SHOP TOOLS	\$	1,884.42	-	-
4500055885	8/7/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	2,631.47	-	-
4500055886	8/7/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	4,387.32	-	-
4500055887	8/7/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$	33.29	-	-
4500055888	8/7/2023	Transit Holdings Inc		B130-BUS BODY	\$	2,438.33	-	-
4500055889	8/7/2023	Madden Construction Inc		P280-GENERAL SVC AGRMNTS	\$	545.50	-	-
4500055890	8/7/2023	Madden Construction Inc		P280-GENERAL SVC AGRMNTS	_	329.25	-	-
4500055891	8/7/2023	Madden Construction Inc		P280-GENERAL SVC AGRMNTS		979.25	-	-
4500055892	8/7/2023	Taymark		G250-NOVELTIES & AWARDS	\$	843.82	-	-
4500055893	8/7/2023	Madden Construction Inc		P280-GENERAL SVC AGRMNTS		455.20	-	-
4500055894	8/7/2023	SAP Public Services, Inc.		I120-INFO TECH, SVCS	\$	648.00	-	_
4500055895	8/7/2023	Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	2,569.19	_	_
4500055896	8/7/2023	Clarran Inc.	DBE	G150-FASTENERS	\$	113.95	_	-
4500055897	8/7/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$	5,352.12	_	_
4500055898	8/7/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	_	118.72	_	_
4500055899	8/7/2023	Cummins Inc		B250-BUS REPAIR PARTS	\$	4,961.98	-	_
4500055900	8/7/2023	SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE		3,033.18	_	-
4500055901	8/7/2023	Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE	\$	14,652.15	_	_
4500055902	8/7/2023	W.W. Grainger Inc		G140-SHOP SUPPLIES	\$	103.18	_	_
4500055903	8/7/2023	Winzer Franchise Company		G150-FASTENERS	\$	237.53	_	_
4500055904		San Diego Seal, Inc.	Small Business	R220-RAIL/LRV TRUCKS	\$	1,177.67	_	_
4500055905	8/7/2023	Harbor Diesel & Equipment, Inc		B200-BUS PWR TRAIN EQUIP	\$	18,963.03	_	_
4500055906		Gillig LLC		B130-BUS BODY	\$	3,883.57	_	_
4500055907	8/7/2023	Emilia P. Ringpis		P160-EQUIPMENT RENTALS	\$	703.00	-	<u>-</u>
4500055908	8/7/2023	Cummins Inc		B120-BUS MECHANICAL PARTS		604.15	-	<u> </u>
4500055909		Romaine Electric Corporation	Small Business	B160-BUS ELECTRICAL	\$	3,608.55	-	<u> </u>
4500055910	8/7/2023	Muncie Reclamation and Supply Co	Omaii Dusiiless	B130-BUS BODY	\$	1,464.50	-	<u>-</u>
4500055910	8/7/2023	Fastenal Company		G190-SAFETY/MED SUPPLIES	\$	2,861.87	-	-
4500055911	8/7/2023	Annex Warehouse Company, Inc		F120-BUS/LRV PAINT BOOTHS		3,617.17	-	-
4500055912	8/7/2023	Airlex Warehouse Company, inc AirSupply Tools, Inc		G200-OFFICE SUPPLIES	\$	190.48	-	-
4500055913	8/7/2023	Mohawk Mfg & Supply Co		B160-BUS ELECTRICAL	\$	49.58	-	-
+3000033814	01112023	Widnawk Wily & Supply Co		D 100-DUS ELECTRICAL	φ	49.38	- 1	-

			Purch	ase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500055915	8/7/2023	W.W. Grainger Inc		G120-SECURITY	\$	2,900.26	-	-
4500055916	8/7/2023	Transit Holdings Inc		B130-BUS BODY	\$	1,542.08	-	-
4500055917	8/7/2023	Freeby Signs		B130-BUS BODY	\$	128.33	-	-
4500055918	8/8/2023	Cummins Inc		B250-BUS REPAIR PARTS	\$	387.51	-	-
4500055919	8/8/2023	Transit Holdings Inc		B130-BUS BODY	\$	6,743.71	-	-
4500055920	8/8/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	857.33	-	-
4500055921	8/8/2023	Transit Holdings Inc		B120-BUS MECHANICAL PARTS	\$	2,434.10	-	-
4500055922	8/8/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$	5,615.92	-	-
4500055923	8/8/2023	Gillig LLC		B160-BUS ELECTRICAL	\$	2,296.81	-	-
4500055925	8/9/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$	50.34	-	-
4500055926	8/9/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	4,183.89	-	-
4500055927	8/9/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	2,276.07	-	-
4500055928	8/9/2023	Muncie Reclamation and Supply Co		B160-BUS ELECTRICAL	\$	472.16	-	-
4500055929	8/9/2023	Transit Holdings Inc		G140-SHOP SUPPLIES	\$	705.30	-	-
4500055930	8/9/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	2,078.26	-	-
4500055931	8/9/2023	Siemens Mobility, Inc.		R220-RAIL/LRV TRUCKS	\$	3,103.20	-	-
4500055932	8/9/2023	Robcar Corporation	Woman Owned Business		\$	300.63	-	-
4500055933	8/9/2023	CTOS, LLC		P210-NON-REV VEH REPAIRS	\$	1,032.85	-	-
4500055934	8/9/2023	Shilpark Paint Corporation		G160-PAINTS & CHEMICALS	\$	380.90	-	-
4500055935	8/9/2023	Daniels Tire Service, Inc		P210-NON-REV VEH REPAIRS	\$	123.76	-	-
4500055936	8/9/2023	Shilpark Paint Corporation		G160-PAINTS & CHEMICALS	\$	208.65	-	-
4500055937	8/9/2023	Shilpark Paint Corporation		G160-PAINTS & CHEMICALS	\$	281.06	-	-
4500055938	8/9/2023	Cintas Corporation No 2		P280-GENERAL SVC AGRMNTS	\$	4,500.00	-	-
4500055939	8/9/2023	Cembre Inc		G130-SHOP TOOLS	\$	1,117.42	-	-
4500055940	8/9/2023	Simmons-Boardman Books, Inc.		P540-MAINTENANCE TRAINING	\$	380.55	-	-
4500055941	8/9/2023	Daniels Tire Service, Inc		P210-NON-REV VEH REPAIRS	\$	528.04	-	-
4500055942	8/9/2023	Kenneth Place		G130-SHOP TOOLS	\$	2,886.28	-	-
4500055943	8/9/2023	Radwell International LLC		M180-STATION ELECTRICAL	\$	873.68	-	-
4500055944	8/9/2023	Daniels Tire Service, Inc		A110-AUTO/TRUCK TIRES	\$	322.83	-	-
4500055945	8/9/2023	Carlos Guzman Inc		G160-PAINTS & CHEMICALS	\$	2,045.35	-	-
4500055946	8/9/2023	Winzer Franchise Company		G140-SHOP SUPPLIES	\$	183.04	-	-
4500055947	8/9/2023	Professional Contractors Supplies		G140-SHOP SUPPLIES	\$	784.58	-	-
4500055948	8/9/2023	Charter Industrial Supply Inc	Small Business	G130-SHOP TOOLS	\$	548.72	-	-
4500055949	8/9/2023	Access Professional Inc.	Small Business	M200-YARD FACILITIES	\$	6,087.00	-	-
4500055950	8/9/2023	Uline Inc		G210-OFFICE FURNITURE	\$	409.83	-	-
4500055951	8/9/2023	Mouser Electronics Inc		B160-BUS ELECTRICAL	\$	189.22	-	-
4500055952		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	1,070.97	-	-
4500055953		W.W. Grainger Inc		G180-JANITORIAL SUPPLIES	\$	1,611.98	-	-
4500055954		B&H Foto & Electronics Corp		G220-OFFICE EQUIPMENT	\$	32.31	-	-
4500055955		Annex Warehouse Company, Inc		F120-BUS/LRV PAINT BOOTHS	_	1,402.84	-	-
4500055956		Trentman Corp	Small Business	P280-GENERAL SVC AGRMNTS		1,168.45	-	-
4500055957		Transit Holdings Inc		B130-BUS BODY	\$	1,103.75	-	-
4500055958		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	2,423.58	-	-
4500055959		Transit Holdings Inc		B140-BUS CHASSIS	\$	2,879.93	-	-
4500055960		Transit Holdings Inc		B140-BUS CHASSIS	\$	416.29	-	-

PO Number PO Date Name Prime Business Material Group PO Value DBE Subcontracted Subcon				Purc	hase Orders				
\$500055981 & 10/2023	PO Number	PO Date	Name		Material Group		PO Value		Non DBE Subcontracted Amount
## ## ## ## ## ## ## #			Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	205.49	-	-
4500055968 8/10/2023 Siemens Mobility, Inc. R160-RAIL/RV ELECTRICAL \$ 37.17 - 4500055968 8/10/2023 Siemens Mobility, Inc. B250-BUS REPAR PARTS \$ 2,484.61 - 4500055968 8/10/2023 Southern Counties Oil Co. LP A120-AUTO/TRUCK GASOLINE \$ 35,371.69 - 4500055968 8/10/2023 Home Depot USA Inc F110-SHO/PBLDG MACHINERY \$ 148.29 - 4500055969 8/10/2023 Transit Holdings Inc B250-BUS REPAR PARTS \$ 1,580.96 - 4500055970 8/10/2023 Transit Holdings Inc B250-BUS REPAR PARTS \$ 1,580.96 - 4500055970 8/10/2023 Transit Holdings Inc B250-BUS REPAR PARTS \$ 1,713 - 4500055971 8/10/2023 Uline Inc F110-SHO/PBLDG MACHINERY \$ 1,333.35 - 4500055972 8/10/2023 Harbor Dissel & Equipment, Inc B250-BUS REPAR PARTS \$ 17,191.66 - 4500055972 8/10/2023 W.W. Grainger Inc B250-BUS REPAR PARTS \$ 17,191.66 - 4500055973 8/10/2023 W.W. Grainger Inc B160-BUS REPAR PARTS \$ 17,191.66 - 4500055976 8/10/2023 W.W. Grainger Inc B160-BUS REPAR PARTS \$ 17,591.66 - 4500055976 8/10/2023 W.W. Grainger Inc B160-BUS REPAR PARTS \$ 1,287.99 - 4500055976 8/10/2023 W.W. Grainger Inc B160-BUS REPAR PARTS \$ 3,206.83 - 4500055976 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 3,206.83 - 4500055978 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 1,206.25 - 44500055998 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 1,206.25 - 44500055998 8/10/2023 Gilliq LLC B250-BUS REPAR PARTS \$ 1,206.25 - 44500055998 8/10/2023 Gilliq LC B150-BUS PARTS \$ 1,206.25 - 4,					C130-CONSTRUCTION SVCS	\$		-	-
A500055976 B/10/2023 Suthern Countles Oil C.O. LP	4500055964	8/10/2023	Annex Warehouse Company, Inc		F120-BUS/LRV PAINT BOOTHS	\$	8,810.43	-	-
A500055978 8/10/2023 Southern Counties Oil Co., LP	4500055965	8/10/2023	Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$	37.17	-	-
150005598 8/10/2023	4500055966	8/10/2023	Gillig LLC		B250-BUS REPAIR PARTS	\$	2,484.61	-	-
A500055996 8/10/2023	4500055967	8/10/2023			A120-AUTO/TRUCK GASOLINE	\$	35,371.69	-	-
	4500055968	8/10/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	\$	148.29	-	-
	4500055969	8/10/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	1,580.56	-	-
	4500055970	8/10/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	197.13	-	-
4500055978 8/10/2023 W.W. Grainger Inc B160-BUS ELECTRICAL \$ 135.39 -	4500055971	8/10/2023			F110-SHOP/BLDG MACHINERY	\$	1,333.35	-	-
## ## ## ## ## ## ## #	4500055972	8/10/2023	Harbor Diesel & Equipment, Inc		B250-BUS REPAIR PARTS	\$	17,191.66	-	-
A500055976 B/10/2023 Waxle's Enterprises, LLC G140-SHOP SUPPLIES \$2,870.90 -	4500055973	8/10/2023	Fox Medical Case Management PC		G260-MEDIA	\$	66,181.50	-	-
A500055976 8/10/2023 Gillig LLC B250-BUS REPAIR PARTS \$ 3,206.83 -	4500055974	8/10/2023			B160-BUS ELECTRICAL	\$		-	-
A500055977 81/10/2023 Mohawk Mfg & Supply Co	4500055975	8/10/2023	Waxie's Enterprises, LLC		G140-SHOP SUPPLIES	\$	2,870.90	-	-
A500055977 81/10/2023 Mohawk Mfg & Supply Co	4500055976	8/10/2023			B250-BUS REPAIR PARTS	\$	3,206.83	-	-
A500055978 8/10/2023 R.S. Hughes Co Inc G160-PAINTS & CHEMICALS 732.04 -	4500055977	8/10/2023			B110-BUS HVAC SYSTEMS	\$	44.88	-	-
4500055980 8/10/2023 Staples Contract & Commercial LLC G200-OFFICE SUPPLIES \$ 2,190.74 -				DBE		\$		-	-
A500055980 8/10/2023 Staples Contract & Commercial LLC G200-OFFICE SUPPLIES \$ 2,190.74	4500055979	8/10/2023	R.S. Hughes Co Inc		G160-PAINTS & CHEMICALS	\$	732.04	-	-
4500055981 8/10/2023 Siemens Mobility, Inc. R160-RAIL/LRV ELECTRICAL \$ 6,962.00 -	4500055980	8/10/2023						-	-
4500055982 8/10/2023 Genfare, LLC B190-BUS FARE EQUIP \$ 127.87 - 4500055983 8/10/2023 Fastenal Company R230-RAIL/LRV MECHANICAL \$ 3,585.92 - 4500055984 8/10/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 264.92 -	4500055981	8/10/2023				\$		-	-
A500055983 8/10/2023 Fastenal Company R230-RAIL/LRV MECHANICAL \$ 3,585.92 -	4500055982	8/10/2023				\$		-	-
4500055984 8/10/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 264.92 -			Fastenal Company			\$		-	-
4500055985 8/10/2023 Jacobs Engineering Group Inc C120-SPECIALTY CONTRACTOR \$ 937.20 -						\$		-	-
4500055986 8/11/2023 TK Services Inc B250-BUS REPAIR PARTS \$ 518.61 - 4500055987 8/11/2023 Cummins Inc B200-BUS PWR TRAIN EQUIP \$ 1,543.25 - 4500055988 8/11/2023 Cummins Inc B200-BUS PWR TRAIN EQUIP \$ 1,090.51 - 4500055998 8/11/2023 Transit Holdings Inc B140-BUS CHASSIS \$ 1,900.76 - 4500055990 8/11/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 186.80 - 4500055991 8/11/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 252.94 - 4500055992 8/11/2023 Siemens Mobility, Inc. R190-RAIL/LRV PANTOGRAPH \$ 5,445.15 - 4500055993 8/11/2023 Siemens Mobility, Inc. R200-RAIL/LRV SEATING \$ 7,202.01 - 4500055994 8/11/2023 Siemens Mobility, Inc. R160-RAIL/LRV ELECTRICAL \$ 310.32 - 4500055998 8/11/2023 Gillig LLC B110-BUS HVAC SYSTEMS \$ 712.21 - 4500055998 8/11/2023 Home Depot USA In			Jacobs Engineering Group Inc					-	-
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4500056004 8/14/2023 Cummins Inc B200-BUS PWR TRAIN EQUIP \$ 2,215.36 -			ÿ			-		_	_
4500056005 8/14/2023 Muncie Reclamation and Supply Co B140-BUS CHASSIS \$ 5.45 -						_		_	_
4500056006 8/14/2023						_		_	_

PO Number F							
	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056007 8		Cummins Inc		B160-BUS ELECTRICAL	\$ 12,241.34	-	-
4500056008 8		Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$ 387.15	-	-
4500056009 8		Transit Holdings Inc		B140-BUS CHASSIS	\$ 2,660.30	-	-
4500056010 8		Transit Holdings Inc		B110-BUS HVAC SYSTEMS	\$ 4,544.19	-	-
4500056011 8		Trolley Support LLC		B250-BUS REPAIR PARTS	\$ 3,006.23	-	-
4500056012 8	3/14/2023	Synco Chemical Corporation		G170-LUBRICANTS	\$ 16,426.27	-	-
4500056013 8		U.S. Train Products LLC		R120-RAIL/LRV CAR BODY	\$ 12,445.13	-	-
4500056014 8		Siemens Mobility, Inc.		M130-CROSSING MECHANISM	\$ 464.51	-	-
4500056015 8	3/14/2023	Hi-Tec Enterprises		R140-RAIL/LRV DOORS/RAMP	\$ 143,949.69	-	-
4500056016 8	3/14/2023	Canada Ticket Inc.		G280-FARE MATERIALS	\$ 13,281.20	-	-
4500056017 8	3/14/2023	W.W. Grainger Inc		M120-OVRHEAD CATENARY SYS	\$ 229.18	-	-
4500056018 8		Hi-Tec Enterprises		R160-RAIL/LRV ELECTRICAL	\$ 1,357.65	-	-
4500056019 8	3/14/2023	SMC Electrical Products Inc		M110-SUB STATION	\$ 5,333.63	-	-
4500056020 8	3/14/2023	CDW LLC		R160-RAIL/LRV ELECTRICAL	\$ 112.55	-	-
4500056021 8	3/14/2023	Sid Tool Co., Inc.		R230-RAIL/LRV MECHANICAL	\$ 7,359.75	-	-
4500056022 8	3/14/2023	Sid Tool Co., Inc.		G130-SHOP TOOLS	\$ 456.17	-	-
4500056023 8	3/14/2023	Dimensional Silk Screen Inc		G230-PRINTED MATERIALS	\$ 109.91	-	-
4500056024 8	3/14/2023	Conisa Oropeza Enterprises Inc		G120-SECURITY	\$ 300.86	-	-
4500056025 8	3/14/2023	BriceHouse Outdoor Inc.		G230-PRINTED MATERIALS	\$ 3,600.00	-	-
4500056026 8	3/14/2023	Custom Glass Solutions		R120-RAIL/LRV CAR BODY	\$ 9,824.07	-	-
4500056027 8	3/14/2023	The Carpenter Group		M120-OVRHEAD CATENARY SYS	\$ 3,313.32	-	-
4500056028 8	3/14/2023	City Treasurer		G120-SECURITY	\$ 282.00	-	-
4500056029 8	3/14/2023	Constant Contact, Inc.		G260-MEDIA	\$ 3,612.00	-	-
4500056030 8	3/14/2023	Ace Uniforms LLC	Small Business	C120-SPECIALTY CONTRACTOR	\$ 433.14	-	-
4500056031 8		W.W. Grainger Inc		R170-RAIL/LRV HVAC	\$ 2,132.10	-	-
4500056032 8	3/14/2023	The Sherwin-Williams Company		F120-BUS/LRV PAINT BOOTHS	\$ 377.78	-	-
4500056033 8		SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$ 3,088.67	-	-
4500056034 8		W.W. Grainger Inc		G130-SHOP TOOLS	\$ 2,194.96	-	_
4500056035 8		Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE	\$ 15,129.96	-	-
4500056036 8		Ace Uniforms LLC	Small Business	C120-SPECIALTY CONTRACTOR	235.98	-	-
	3/14/2023	Professional Contractors Supplies		G160-PAINTS & CHEMICALS	\$ 992.78	-	-
4500056038 8		Dimensional Silk Screen Inc		G230-PRINTED MATERIALS	\$ 4,777.64	-	_
4500056039 8		Home Depot USA Inc		G160-PAINTS & CHEMICALS	\$ 2,359.23	-	-
4500056040 8		Virginia Electronic & Lighting LLC		M140-WAYSIDE SIGNALS	\$ 2,020.32	-	-
4500056041 8		RS Americas, Inc.		R160-RAIL/LRV ELECTRICAL	\$ 829.68	-	_
4500056042 8		Airgas Inc		R160-RAIL/LRV ELECTRICAL	\$ 1,961.74	-	-
4500056043 8		Sunbelt Rentals, Inc		P160-EQUIPMENT RENTALS	\$ 1,498.79	-	-
4500056044 8		CRH California Water, Inc.		M140-WAYSIDE SIGNALS	\$ 21.00	-	-
4500056045 8		Home Depot USA Inc		G130-SHOP TOOLS	\$ 4,282.29	-	-
4500056046 8		Knorr Brake Company, LLC		G130-SHOP TOOLS	\$ 976.22	-	-
4500056047 8		Behlman Electronics Inc.		M140-WAYSIDE SIGNALS	\$ 9,563.90	_	_
4500056048 8		TK Services Inc		R170-RAIL/LRV HVAC	\$ 949.54	_	_
4500056049 8		Winzer Franchise Company		G140-SHOP SUPPLIES	\$ 84.05	_	_
4500056050 8		Charter Industrial Supply Inc	Small Business	B140-BUS CHASSIS	\$ 1,233.36	_	_
4500056051 8		Cummins Inc	2a 240111000	B250-BUS REPAIR PARTS	\$ 7,859.37	_	_

PO Number PO Date Name Prime Business Certification B110-BUS HVAC SYSTEMS \$ 845.14	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056053 8/14/2023 B & S Graphics Inc B130-BUS BODY \$ 64.65 4500056054 8/14/2023 Motion Industries, Inc. R160-RAIL/LRV ELECTRICAL \$ 452.27 4500056055 8/14/2023 Annex Warehouse Company, Inc G160-PAINTS & CHEMICALS \$ 4,424.77 4500056056 8/14/2023 Allied Refrigeration Inc B250-BUS REPAIR PARTS \$ 73.38 4500056057 8/14/2023 Kurt Morgan G200-OFFICE SUPPLIES \$ 475.88 4500056058 8/14/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 3,236.92 4500056059 8/14/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 323.31 4500056060 8/15/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,947.02 4500056061 8/15/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 866.12 4500056062 8/15/2023 Momentive Inc G230-PRINTED MATERIALS 721.93 4500056064 8/15/2023 SANDAG C120-SPECIALTY CONTRACTOR 5,000.00 4500056066 8/15/2023 ISC Applied Systems Corp R	- - - - - - -	- - - - -
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4500056060 8/15/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,947.02 4500056061 8/15/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 866.12 4500056062 8/15/2023 Momentive Inc G260-MEDIA \$ 372.00 4500056063 8/15/2023 Pressnet Express Inc G230-PRINTED MATERIALS \$ 721.93 4500056064 8/15/2023 SANDAG C120-SPECIALTY CONTRACTOR \$ 5,000.00 4500056065 8/15/2023 ISC Applied Systems Corp R150-RAIL/LRV COMM EQUIP \$ 19,125.63 4500056066 8/15/2023 Prochem Specialty Products Inc Small Business G180-JANITORIAL SUPPLIES \$ 1,718.62 4500056067 8/15/2023 Flyers Energy LLC G170-LUBRICANTS \$ 9,011.59	-	-
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4500056064 8/15/2023 SANDAG C120-SPECIALTY CONTRACTOR \$ 5,000.00 4500056065 8/15/2023 ISC Applied Systems Corp R150-RAIL/LRV COMM EQUIP \$ 19,125.63 4500056066 8/15/2023 Prochem Specialty Products Inc Small Business G180-JANITORIAL SUPPLIES \$ 1,718.62 4500056067 8/15/2023 Flyers Energy LLC G170-LUBRICANTS \$ 9,011.59	- - -	-
4500056065 8/15/2023 ISC Applied Systems Corp R150-RAIL/LRV COMM EQUIP \$ 19,125.63 4500056066 8/15/2023 Prochem Specialty Products Inc Small Business G180-JANITORIAL SUPPLIES \$ 1,718.62 4500056067 8/15/2023 Flyers Energy LLC G170-LUBRICANTS \$ 9,011.59		-
4500056066 8/15/2023 Prochem Specialty Products Inc Small Business G180-JANITORIAL SUPPLIES \$ 1,718.62 4500056067 8/15/2023 Flyers Energy LLC G170-LUBRICANTS \$ 9,011.59	-	
4500056067 8/15/2023 Flyers Energy LLC G170-LUBRICANTS \$ 9,011.59	-	-
		-
	-	-
4500056068 8/15/2023 W.W. Grainger Inc G140-SHOP SUPPLIES \$ 77.58	-	-
4500056069 8/15/2023 R.S. Hughes Co Inc B250-BUS REPAIR PARTS \$ 1,302.74	-	-
4500056070 8/15/2023 Gillig LLC G140-SHOP SUPPLIES \$ 2,187.06	-	-
4500056071 8/15/2023 San Diego Friction Products, Inc. B110-BUS HVAC SYSTEMS \$ 171.53	-	-
4500056072 8/15/2023 Waxie's Enterprises, LLC G170-LUBRICANTS \$ 873.58	-	-
4500056073 8/15/2023 Clarran Inc. DBE G150-FASTENERS \$ 72.41	-	-
4500056074 8/15/2023 San Diego Friction Products, Inc. B120-BUS MECHANICAL PARTS \$ 131.22	-	-
4500056075 8/15/2023 Gillig LLC R120-RAIL/LRV CAR BODY \$ 7,019.74	-	-
4500056076 8/15/2023 County of San Diego P130-EQUIP MAINT REPR SVC \$ 180.00	-	-
4500056077 8/15/2023 Transit Finance Learning Exchange P400-FINANCIAL & AUDIT \$ 1,200.00	-	-
4500056078 8/15/2023 Cummins Inc B160-BUS ELECTRICAL \$ 648.44	-	-
4500056079 8/15/2023 NantaMedia Holdings LLC G230-PRINTED MATERIALS \$ 1,368.09	-	-
4500056080 8/15/2023 Adios Pest Control, Inc. Small Business P280-GENERAL SVC AGRMNTS \$ 300.00	_	-
4500056081 8/15/2023 NantaMedia Holdings LLC G230-PRINTED MATERIALS \$ 1,143.60	-	-
4500056082 8/16/2023 Cummins Inc B200-BUS PWR TRAIN EQUIP \$ 3,694.69	-	-
4500056083 8/16/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 1,820.27	-	-
4500056084 8/16/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 67.52	_	-
4500056085 8/16/2023 Cummins Inc B200-BUS PWR TRAIN EQUIP \$ 657.28	_	-
4500056086 8/16/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 2,238.76	-	-
4500056087 8/16/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 435.19		-
4500056088 8/16/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 894.33		_
4500056089 8/16/2023 Sunbelt Rentals, Inc F190-LANDSCAPING MAT'LS \$ 407.04	_	-
4500056090 8/16/2023 SANDAG C120-SPECIALTY CONTRACTOR \$ 30,000.00	_	-
4500056091 8/16/2023 Ahlee Backflow Service, Inc Small Business P280-GENERAL SVC AGRMNTS \$ 410.84	_	-
4500056092 8/16/2023 Siemens Mobility, Inc. R230-RAIL/LRV MECHANICAL \$ 50,896.73	-	-
4500056093 8/16/2023 Bakers Man DBE G260-MEDIA \$ 20,375.00		_
4500056094 8/16/2023 Transit Holdings Inc B130-BUS BODY \$ 3,880.24	-	-
4500056095 8/16/2023 Duncan Bolt Co Small Business G140-SHOP SUPPLIES \$ 142.95		_
4500056096 8/16/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 1,753.40		_

			Puro	hase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056097		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 1,449.08		•
4500056098		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 42.76		•
4500056099		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 1,993.00	-	•
4500056100		Superior Cleaning Equipment, Inc.		P280-GENERAL SVC AGRMNTS			-
4500056101		Clarran Inc.	DBE	G150-FASTENERS	\$ 88.02		-
4500056102		Gillig LLC		B250-BUS REPAIR PARTS	\$ 111.24		-
4500056103		Inland Kenworth (US) Inc		B250-BUS REPAIR PARTS	\$ 1,928.51	-	-
4500056104		Kaeser & Blair, Inc		G260-MEDIA	\$ 2,419.28	-	-
4500056105		MCI Carrillo Inc	Small Business	P210-NON-REV VEH REPAIRS	\$ 44.20		-
4500056106		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 262.48	-	-
4500056107		Transit Holdings Inc		B160-BUS ELECTRICAL	\$ 1,726.77		-
4500056108		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 902.78		-
4500056109		Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$ 46.93		-
4500056110		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 349.53		-
4500056111		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 611.06		-
4500056112		Day Management Corp		R150-RAIL/LRV COMM EQUIP	\$ 4,302.26		-
4500056113		Day Management Corp		R150-RAIL/LRV COMM EQUIP	\$ 1,861.75		-
4500056114		ODP Business Solutions, LLC		G200-OFFICE SUPPLIES	\$ 246.08		-
4500056115		Keys & Engraving Inc		G140-SHOP SUPPLIES	\$ 431.00		•
4500056116		Alpine Fence Inc.		F190-LANDSCAPING MAT'LS	\$ 414.29	-	-
4500056117		Facility Solutions Group, Inc.		R180-RAIL/LRV LIGHTING	\$ 117.90	-	-
4500056118	8/17/2023	Aztec Global Solutions, Inc.		M140-WAYSIDE SIGNALS	\$ 2,275.49	-	•
4500056119	8/17/2023	Staples Contract & Commercial LLC		P280-GENERAL SVC AGRMNTS	\$ 46.97	-	•
4500056120		W.W. Grainger Inc		P280-GENERAL SVC AGRMNTS	\$ 19.12	-	•
4500056121		San Diego Hydraulics, Inc.		P210-NON-REV VEH REPAIRS	\$ 250.00	-	•
4500056122	8/17/2023	National Carwash Solutions Inc		G160-PAINTS & CHEMICALS	\$ 1,933.75	-	•
4500056123	8/17/2023	Romaine Electric Corporation	Small Business	B160-BUS ELECTRICAL	\$ 3,608.55	-	-
4500056124	8/17/2023	Southern Counties Lubricants LLC		G170-LUBRICANTS	\$ 4,601.40	-	•
4500056125	8/17/2023	Brady Industries of California, LLC		G180-JANITORIAL SUPPLIES	\$ 2,442.34	-	•
4500056126	8/17/2023	Freeby Signs		B130-BUS BODY	\$ 78.44	-	-
4500056127	8/17/2023	AirSupply Tools, Inc		G140-SHOP SUPPLIES	\$ 681.03	-	-
4500056128	8/17/2023	San Diego Friction Products, Inc.		B110-BUS HVAC SYSTEMS	\$ 137.22	-	-
4500056129	8/17/2023	Fastenal Company		G190-SAFETY/MED SUPPLIES	\$ 420.23	-	-
4500056130	8/17/2023	W.W. Grainger Inc		G140-SHOP SUPPLIES	\$ 1,097.78	-	-
4500056131	8/17/2023	Mohawk Mfg & Supply Co		B110-BUS HVAC SYSTEMS	\$ 433.30	-	-
4500056132	8/17/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 38.94	_	-
4500056133	8/17/2023	Gillig LLC		B160-BUS ELECTRICAL	\$ 196.20	-	-
4500056134	8/17/2023	American Battery Corporation	Small Business	P280-GENERAL SVC AGRMNTS	\$ 2,344.85	j -	-
4500056135	8/17/2023	ABC General Contractor, Inc.		C110-GENERAL CONTRACTORS		-	\$ 85,865.87
4500056136	8/17/2023	The Gordian Group, Inc.		C130-CONSTRUCTION SVCS	\$ 2,865.13	-	-
4500056137	8/17/2023	Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$ 7,750.00		-
4500056138	8/17/2023	Harbor Diesel & Equipment, Inc		G170-LUBRICANTS	\$ 6,203.60		-
4500056139	8/17/2023	Vern Rose Inc		G140-SHOP SUPPLIES	\$ 252.14	-	-
4500056140	8/17/2023	Allied Refrigeration Inc		F110-SHOP/BLDG MACHINERY	\$ 641.12	_	_
4500056141	8/17/2023	Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$ 817.07	-	-

			Puro	hase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056142		Transit Holdings Inc		B160-BUS ELECTRICAL	\$	1,385.25	-	-
4500056143		Aztec Fire & Safety, Inc.		G140-SHOP SUPPLIES	\$	3,879.00	-	•
4500056144		Kurt Morgan		G200-OFFICE SUPPLIES	\$	321.48	-	-
4500056145	8/17/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	321.21	-	•
4500056146	8/17/2023	Romaine Electric Corporation	Small Business	B160-BUS ELECTRICAL	\$	3,608.55	-	-
4500056147	8/17/2023	Muncie Reclamation and Supply Co		B120-BUS MECHANICAL PARTS	\$	210.12	-	-
4500056148	8/17/2023	Delphin Computer Supply	Small Business	G200-OFFICE SUPPLIES	\$	363.98	-	-
4500056149	8/17/2023	Genfare, LLC		B190-BUS FARE EQUIP	\$	296.05	-	-
4500056150	8/17/2023	Compressed Air Systems		F180-BUILDING MATERIALS	\$	1,713.23	-	-
4500056151	8/17/2023	Mcmaster-Carr Supply Co		B160-BUS ELECTRICAL	\$	23.52	-	-
4500056152	8/17/2023	Trentman Corp	Small Business	P280-GENERAL SVC AGRMNTS	\$	1,435.56	-	-
4500056153	8/18/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	1,904.46	-	-
4500056154	8/18/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	1,835.95	-	-
4500056155	8/18/2023	Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$	66.59	-	-
4500056156		Transit Holdings Inc		B140-BUS CHASSIS	\$	3,556.91	-	-
4500056157		Transit Holdings Inc		B140-BUS CHASSIS	\$	1,539.56	-	-
4500056158		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	107.83	-	-
4500056159		Transit Holdings Inc		B120-BUS MECHANICAL PARTS		138.03	-	-
4500056160		Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	1,481.57	-	-
4500056161		Siemens Mobility, Inc.		M130-CROSSING MECHANISM	\$	2,733.40	-	-
4500056162		Ace Uniforms LLC	Small Business	C120-SPECIALTY CONTRACTOR	_	60.35	-	-
4500056163		General Signals Inc		M130-CROSSING MECHANISM		6,341.75	-	-
4500056164		Dimensional Silk Screen Inc		G230-PRINTED MATERIALS	\$	3,293.93	-	-
4500056165		Dimensional Silk Screen Inc		G230-PRINTED MATERIALS	\$	2,751.60	_	-
4500056166		Sunbelt Rentals, Inc		P160-EQUIPMENT RENTALS	\$	2,974.79	-	_
4500056167		Marine Corps Comm. Srvcs.		P450-PERSONNEL SVCS	\$	150.00	_	_
4500056168		Docker, Inc		I120-INFO TECH, SVCS	\$	120.00	_	_
4500056169		Genfare, LLC		G290-FARE REVENUE EQUIP	\$	365.44	_	_
4500056170		Genfare, LLC		B250-BUS REPAIR PARTS	\$	326.00	_	_
	8/20/2023	Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$	8,110.44	_	_
4500056171		TK Services Inc		B250-BUS REPAIR PARTS	\$	1,307.65	_	
4500056172		Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	201.71	_	
4500056174		Fastenal Company		G150-FASTENERS	\$	3,477.35	-	-
4500056174		Ababa Bolt		G130-SHOP TOOLS	\$	109.67	-	<u> </u>
4500056176		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	13,249.78	_	<u> </u>
4500056177		Transit Holdings Inc		B130-BUS BODY	\$	1,635.25	_	<u> </u>
4500056177		Zen Industrial Services LLC	DBE	B160-BUS ELECTRICAL	\$	41.70	-	<u> </u>
4500056178		Cummins Inc	DDL	B200-BUS PWR TRAIN EQUIP	\$	4,761.15		-
		Muncie Reclamation and Supply Co		B140-BUS CHASSIS	\$	405.18	-	-
		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	4,204.23	-	-
4500056181					_		-	-
4500056182 4500056183		White Cap, LP Daniels Tire Service, Inc		G130-SHOP TOOLS	\$	1,813.87	-	<u>-</u>
4500056183		SC Commercial, LLC		P210-NON-REV VEH REPAIRS A120-AUTO/TRUCK GASOLINE	\$	386.06	-	-
		Supreme Oil Co.			_	3,088.67	-	-
4500056185		Linde Gas & Equipment Inc.		A120-AUTO/TRUCK GASOLINE		15,066.25	-	-
4500056186	0/21/2023	Linue Gas α Equipment inc.		G140-SHOP SUPPLIES	\$	463.88	-	-

PO Number PO Date Name Prime Business Certification Po Value DES Subcontract Amount	Non DBE Subcontracted Amount
4500056188 8/21/2023 Professional Contractors Supplies G180_JANITORIAL SUPPLIES \$ 1,525.57 - 4500056190 8/21/2023 SC Commercial, LLC A120-AUTO/TRUCK GASOLINE \$ 3,144.15 - 4500056190 8/21/2023 Clarran Inc. DBE G150-FASTENERS \$ 3,45.33 - 4500056191 8/21/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 4,347.26 - 4500056193 8/21/2023 VGP Holdings Inc B120-BUS MECHANICAL PARTS \$ 7,783.86 - 4500056193 8/21/2023 Siemens Mobility, Inc. R120-RAIL/LRV CAR BODY \$ 1,680.90 - 4500056193 8/21/2023 W.W. Grainger Inc G180-JANITORIAL SUPPLIES \$ 380.02 - 4500056195 8/21/2023 R.S. Hughes Co Inc G180-JANITORIAL SUPPLIES \$ 2,888.09 - 4500056196 8/21/2023 Compressed Air Systems F110-SHOP/BLDG MACHINERY \$ 498.89 - 4500056196 8/21/2023 Compressed Air Systems F110-SHOP/BLDG MACHINERY \$ 498.89 - 4500056196 8/21/2023 Staples Contract & Commercial LLC P280-GENERAL SVC AGRMNTS \$ 169.29 - 4500056198 8/21/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 577.09 - 4500056200 8/22/2023 Mohawk Mfg & Supply Co B140-BUS BODY \$ 436.58 - 4500056200 8/22/2023 Transit Holdings Inc B130-BUS BODY \$ 1,228.57 - 4500056204 8/22/2023 Transit Holdings Inc B130-BUS BODY \$ 1,228.57 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 94.28 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 94.28 - 4500056206 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056207 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$	_
A500056198 8/21/2023 SC Commercial, LLC A120-AUTO/TRUCK GASOLINE \$ 3,144.15 - 4500056190 8/21/2023 Clarran Inc. DBE G150-FASTENERS \$ 345.33 - 4500056191 8/21/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 4,347.26 - 4500056191 8/21/2023 VGP Holdings LLC B120-BUS MECHANICAL PARTS \$ 7,783.86 - 4500056193 8/21/2023 Siemens Mobility, Inc. R120-RAIL/LRV CAR BODY \$ 1,680.90 - 4500056194 8/21/2023 W.W. Grainger Inc G180-JANITORIAL, SUPPLIES \$ 380.02 - 4500056195 8/21/2023 R.S. Hughes Co Inc G140-SHOP SUPPLIES \$ 2,888.09 - 4500056196 8/21/2023 Compressed Air Systems F110-SHOP/BLDG MACHINERY \$ 498.89 - 4500056196 8/21/2023 Staples Contract & Commercial LLC P280-GENERAL SVC AGRMNTS \$ 169.29 - 4500056198 8/21/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 577.09 - 4500056198 8/21/2023 Transit Holdings Inc B130-BUS BODY \$ 436.58 - 4500056200 8/22/2023 Mohawk Mfg & Supply Co B140-BUS CHASSIS \$ 10.08 - 4500056200 8/22/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 1,900.35 - 4500056204 8/22/2023 Transit Holdings Inc B130-BUS BODY \$ 1,228.57 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 94.28 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,427.20 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS PWR TRAIN EQUIP \$ 1,427.20 - 4500056216 8/22/2023 Transit Holdings Inc B250-BU	
AS00056190	-
4500056191 8/21/2023	-
4500056192 8/21/2023	-
4500056193 8/21/2023 Siemens Mobility, Inc. R120-RAIL/LRV CAR BODY \$ 1,680.90 -	-
4500056194 8/21/2023 W.W. Grainger Inc G180-JANITORIAL SUPPLIES \$ 380.02 - 4500056195 8/21/2023 R.S. Hughes Co Inc G140-SHOP SUPPLIES \$ 2,888.09 - 4500056196 8/21/2023 Compressed Air Systems F110-SHOP/BLDG MACHINERY \$ 498.89 - 4500056197 8/21/2023 Staples Contract & Commercial LLC P280-GENERAL SVC AGRMNTS \$ 169.29 - 4500056198 8/21/2023 Cummins Inc B250-BUS REPAIR PARTS \$ 577.09 - 4500056198 8/21/2023 Transit Holdings Inc B130-BUS BODY \$ 436.58 - 4500056200 8/22/2023 Mohawk Mfg & Supply Co B140-BUS CHASSIS \$ 10.08 - 4500056200 8/22/2023 Transit Holdings Inc B160-BUS ELECTRICAL \$ 1,900.35 - 4500056203 8/22/2023 Transit Holdings Inc B130-BUS BODY \$ 1,228.57 - 4500056206 8/22/2023 Transit Holdings Inc B250-BUS REPAIR PARTS \$ 94.28 - 4500056206 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 1,135.79 - 4500056206 8/22/2023 Jamison Professional Services, LLC DBE G170-LUBRICANTS \$ 1,538.41 - 4500056207 8/22/2023 W.W. Grainger Inc G140-SHOP SUPPLIES \$ 81.33 - 4500056201 8/22/2023 CDW LLC LI11-INFORMATION TECH \$ 1,427.20 - 4500056210 8/22/2023 CDW LLC LI11-INFORMATION TECH \$ 1,427.20 - 4500056211 8/22/2023 Staples Contract & Commercial LLC G200-OFFICE SUPPLIES \$ 88.21 - 4500056214 8/22/2023 Gilig LLC B250-BUS REPAIR PARTS \$ 100.98 - 4500056216 8/22/2023 Memaster-Carr Supply Co F110-SHOP/BLDG MACHINERY \$ 30.73 - 4500056216 8/22/2023 Memaster-Carr Supply Co F110-SHOP/BLDG MACHINERY \$ 49.36 - 4500056216 8/22/2023 Inland Kenworth (US) Inc B250-BUS REPAIR PARTS \$ 49.36 - 4500056216 8/22/2023 Inland Kenworth (US) Inc B250-BUS REPAIR PARTS \$ 49.36 - 4500056216 8/22/2023 Inland Kenworth (US) Inc B250-BUS REPAIR PARTS \$ 49.36 - 4500056216 8/22/2023 Inland Kenworth (US) Inc F110-SHOP/BLDG MACHINERY \$ 49	-
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1.450005621918/22/20231	-
4500056220 8/22/2023 Dimensional Silk Screen Inc G230-PRINTED MATERIALS \$ 15,898.83 -	_
4500056221 8/22/2023	_
4500056222 8/22/2023 Luminator Technology Group Global R120-RAIL/LRV CAR BODY \$ 3,238.56 -	_
4500056223 8/22/2023	-
4500056224 8/22/2023 Clarran Inc. DBE G150-FASTENERS \$ 24.30 -	-
4500056225 8/22/2023 TK Services Inc B110-BUS HVAC SYSTEMS \$ 64.17 -	
4500056226 8/23/2023 Transit Holdings Inc B140-BUS CHASSIS \$ 502.01 -	_
4500056227 8/23/2023	_
4500056228 8/23/2023 Transit Holdings Inc B130-BUS BODY \$ 1,053.27 -	_
4500056229 8/23/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 252.94 -	_
4500056230 8/23/2023 Monmouth Solutions, Inc. C120-SPECIALTY CONTRACTOR \$ 107,945.00 -	_
4500056231 8/23/2023	-
4500056232 8/23/2023 Transit Holdings Inc B200-BUS PWR TRAIN EQUIP \$ 2.20 -	-
4500056233 8/23/2023 Vehicle Maintenance Program, Inc. Woman Owned Business B140-BUS CHASSIS \$ 894.33 -	-

			Purch	ase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056234		AEP California, LLC		G120-SECURITY	\$	475.00	-	-
4500056235		Siemens Mobility, Inc.		M110-SUB STATION	\$	526.90	-	-
4500056236		Duncan Bolt Co	Small Business	G140-SHOP SUPPLIES	\$	125.88	-	-
4500056237		Gillig LLC		B250-BUS REPAIR PARTS	\$	19.61	-	-
4500056238	8/23/2023	Trentman Corp	Small Business	P280-GENERAL SVC AGRMNTS	\$	886.20	-	-
4500056239		Continental Locks		A140-AUTO/TRUCK REPAIR	\$	145.00	-	-
4500056240	8/23/2023	Mouser Electronics Inc		R160-RAIL/LRV ELECTRICAL	\$	202.61	-	-
4500056241	8/23/2023	OneSource Distributors, LLC		G190-SAFETY/MED SUPPLIES	\$	222.00	-	-
4500056242	8/23/2023	Willy's Electronic Supply Co Inc	Small Business	G140-SHOP SUPPLIES	\$	1,317.78	-	-
4500056243	8/23/2023	Schunk Carbon Technology LLC		R190-RAIL/LRV PANTOGRAPH	\$	1,022.64	-	-
4500056244	8/23/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$	2,680.67	-	-
4500056245	8/23/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	742.91	-	-
4500056246	8/23/2023	Gillig LLC		B160-BUS ELECTRICAL	\$	713.90	-	-
4500056247	8/23/2023	Quality Logo Products, Inc.		G250-NOVELTIES & AWARDS	\$	1,920.20	-	-
4500056248	8/23/2023	Fastenal Company		G190-SAFETY/MED SUPPLIES	\$	1,382.99	-	-
4500056249	8/23/2023	Professional Contractors Supplies		G190-SAFETY/MED SUPPLIES	\$	180.63	-	-
4500056250	8/23/2023	Shilpark Paint Corporation		F180-BUILDING MATERIALS	\$	180.32	-	-
4500056251		Clarran Inc.	DBE	G150-FASTENERS	\$	206.35	-	_
4500056252	8/23/2023	R.S. Hughes Co Inc		G190-SAFETY/MED SUPPLIES	\$	586.85	-	_
4500056253	8/23/2023	W.W. Grainger Inc		B160-BUS ELECTRICAL	\$	423.36	-	-
4500056254		Mouser Electronics Inc		R160-RAIL/LRV ELECTRICAL	\$	1,934.90	-	_
4500056255		Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$	91.26	-	_
4500056256		Siemens Mobility, Inc.		R230-RAIL/LRV MECHANICAL	\$	19,356.21	-	-
	8/24/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	1,393.06	_	-
4500056258		Transit Holdings Inc		B140-BUS CHASSIS	\$	1,445.73	_	-
4500056259		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	14.01	_	-
4500056260		DS Services of America, Inc.		G200-OFFICE SUPPLIES	\$	3,072.69	_	-
4500056261		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	473.24	_	_
4500056262		Muncie Reclamation and Supply Co		B250-BUS REPAIR PARTS	\$	1,299.40	_	-
4500056263		Transit Holdings Inc		B160-BUS ELECTRICAL	\$	3,605.77	_	-
	8/24/2023	Clear Sign & Design Inc	Small Business	P280-GENERAL SVC AGRMNTS		738.75	_	-
4500056265		Freeby Signs	Oman Basiness	B130-BUS BODY	\$	82.75	_	_
4500056266		Gillig LLC		B250-BUS REPAIR PARTS	\$	279.94	_	_
4500056267		Gillig LLC		B250-BUS REPAIR PARTS	\$	52.91	_	_
4500056268					\$	8,638.86	_	_
		Recaro Automotive North America Inc		R200-RAIL/LRV SEATING	\$	23,455.03	_	_
4500056270				C140-CONSTRUCTION MGT SRV	_	131,568.88	_	\$ 91,900.86
4500056271		Transit Products and Services		B130-BUS BODY	\$	6,896.00	-	ψ 31,300.00 -
4500056271		AirSupply Tools, Inc		G200-OFFICE SUPPLIES	\$	350.09	_	<u> </u>
4500056272		Airgas Inc		G200-OFFICE SUPPLIES	\$	274.23	-	
4500056274		W.W. Grainger Inc		G140-SHOP SUPPLIES	\$	821.08	-	<u> </u>
4500056274		Veterans Solutions Inc	Minority Owned Rusings	C120-SPECIALTY CONTRACTOR		19,039.04		-
4500056277		Transit Holdings Inc	willionly Owned Dusiness	B200-BUS PWR TRAIN EQUIP	_	10,740.87	-	-
4500056278		Prochem Specialty Products Inc	Small Business	G180-JANITORIAL SUPPLIES	\$	1,718.62	-	-
4500056278		Reid and Clark Screen Arts Co	סווומוו טעסוווכסס		_		-	-
4000000279	0/23/2023	Reiu aliu Clark Screen Arts Co		M130-CROSSING MECHANISM	ф	909.95	-	-

			Purc	hase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056280		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 36.55		1
4500056281		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 3,250.84		1
4500056282		Zen Industrial Services LLC	DBE	B160-BUS ELECTRICAL	\$ 34.75		1
4500056283		Brady Industries of California, LLC			\$ 775.80	-	•
4500056284	8/25/2023	Laird Plastics, Inc		P280-GENERAL SVC AGRMNTS	\$ 2,559.17	-	1
4500056285		Charter Industrial Supply Inc	Small Business	R230-RAIL/LRV MECHANICAL	\$ 324.07	-	•
4500056286	8/25/2023	Citywide Auto Glass Inc		P280-GENERAL SVC AGRMNTS	\$ 1,044.41	-	•
4500056287		W.W. Grainger Inc		G140-SHOP SUPPLIES	\$ 286.50	-	•
4500056288	8/25/2023	Flyers Energy LLC		G170-LUBRICANTS	\$ 9,011.59	-	•
4500056289	8/25/2023	Waxie's Enterprises, LLC		G140-SHOP SUPPLIES	\$ 3,980.16	-	•
4500056290	8/25/2023	Compressed Air Systems		F180-BUILDING MATERIALS	\$ 2,608.63	-	-
4500056291	8/25/2023	Cummins Inc		B250-BUS REPAIR PARTS	\$ 1,124.99	-	-
4500056292	8/25/2023	Muncie Reclamation and Supply Co		B140-BUS CHASSIS	\$ 47.20	-	-
4500056293	8/25/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$ 4,291.72	-	-
4500056294	8/25/2023	Kurt Morgan		G200-OFFICE SUPPLIES	\$ 1,645.90	-	-
4500056295	8/25/2023	Home Depot USA Inc		G130-SHOP TOOLS	\$ 123.06		-
4500056296		Fastenal Company		G180-JANITORIAL SUPPLIES	\$ 1,447.52	-	-
4500056297		Airgas Inc		G140-SHOP SUPPLIES	\$ 607.90	-	-
4500056298	8/25/2023	Gillig LLC		B130-BUS BODY	\$ 4,848.75		-
4500056299		Clarran Inc.	DBE	G150-FASTENERS	\$ 16.00	-	-
4500056300		Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$ 651.35	-	-
4500056301		Home Depot USA Inc		G140-SHOP SUPPLIES	\$ 1,948.72	-	-
4500056302		W.W. Grainger Inc		G140-SHOP SUPPLIES	\$ 454.34	_	-
4500056303		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 205.75	_	-
4500056304		Mohawk Mfg & Supply Co		B140-BUS CHASSIS	\$ 33.29	_	-
4500056305		Transit Holdings Inc		B140-BUS CHASSIS	\$ 2,212.25		_
4500056306		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 14.76		-
4500056307		Jamison Professional Services, LLC	DBE	G170-LUBRICANTS	\$ 1,442.99		_
4500056308		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 3,363.12	_	_
4500056309		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$ 1,736.21	_	-
4500056310		Siemens Mobility, Inc.		R230-RAIL/LRV MECHANICAL	\$ 2,675.70	_	-
4500056311		IFE North America, LLC		R140-RAIL/LRV DOORS/RAMP	\$ 2,004.15		_
4500056312		Carlos Guzman Inc		R120-RAIL/LRV CAR BODY	\$ 47,456.50	_	_
4500056313		W.W. Grainger Inc		F110-SHOP/BLDG MACHINERY	\$ 64.63	_	-
4500056314		Day Management Corp		R150-RAIL/LRV COMM EQUIP			_
4500056315		SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE			_
4500056316		Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE			_
4500056317		Home Depot USA Inc		F110-SHOP/BLDG MACHINERY			-
4500056318		Clarran Inc.	DBE	G150-FASTENERS	\$ 118.10		<u> </u>
4500056319		Transit Holdings Inc	UUL	B130-BUS BODY	\$ 319.59		
4500056320		Charter Industrial Supply Inc	Small Business	G150-FASTENERS	\$ 429.82		-
4500056321		Barry Sandler Enterprises	Oman Dusiness	G180-JANITORIAL SUPPLIES	\$ 1,011.55		
4500056322		R.S. Hughes Co Inc		B130-BUS BODY	\$ 1,011.33		
4500056323		Cummins Inc		B130-BUS BODY	\$ 262.76		-
4500056324		Ascendancy Corp					-
45000050324	0/20/2023	Ascendancy Corp		R230-RAIL/LRV MECHANICAL	\$ 3,511.90	-	-

			Purc	hase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056325		Gillig LLC		B160-BUS ELECTRICAL	\$	539.19	-	-
4500056326				G200-OFFICE SUPPLIES	\$	172.78	-	-
4500056327		W.W. Grainger Inc		G170-LUBRICANTS	\$	499.42	-	-
4500056328		Fastenal Company		G190-SAFETY/MED SUPPLIES	\$	4,098.39	-	-
4500056329		CDW LLC		I110-INFORMATION TECH	\$	3,046.22	-	-
4500056330		Winzer Franchise Company		G130-SHOP TOOLS	\$	403.13	-	-
4500056331		Continental Locks		P120-BLDG/FACILITY REPRS	\$	95.00	-	-
4500056332		117		B250-BUS REPAIR PARTS	\$	56.03	-	-
4500056333		Siemens Mobility, Inc.		R120-RAIL/LRV CAR BODY	\$	384.67	-	-
4500056334		Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	2,550.30	-	-
4500056335		Transit Holdings Inc		B160-BUS ELECTRICAL	\$	821.90	-	-
4500056336		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	67.52	-	-
4500056337	8/29/2023	San Diego Convention & Tourist Bure		G260-MEDIA	\$	1,133.00	-	-
4500056338	8/29/2023	Neyenesch Printers Inc	Small Business	G230-PRINTED MATERIALS	\$	1,331.40	-	-
4500056339	8/29/2023	Kaeser & Blair, Inc		G260-MEDIA	\$	754.25	-	-
4500056340		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	1,593.81	-	-
4500056341	8/29/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	3.37	-	-
4500056342	8/29/2023	W.W. Grainger Inc		I110-INFORMATION TECH	\$	1,254.34	-	-
4500056343	8/29/2023	Reid and Clark Screen Arts Co		P210-NON-REV VEH REPAIRS	\$	70.86	-	-
4500056344	8/29/2023	Carlos Guzman Inc		R120-RAIL/LRV CAR BODY	\$	47,456.50	-	-
4500056345	8/29/2023	APD Incorporated		G140-SHOP SUPPLIES	\$	487.03	-	-
4500056346	8/30/2023	Carmine Bausone DVM Inc.		G120-SECURITY	\$	138.76	-	-
4500056347	8/30/2023	San Diego Community		P490-MANAGEMENT TRAINING	\$	69.00	-	-
4500056348	8/30/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	144.14	-	-
4500056349	8/30/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$	3,401.17	-	-
4500056350	8/30/2023	Donald Bengel		P440-CATERING SERVICES	\$	2,175.00	-	-
4500056351		Romaine Electric Corporation	Small Business	B160-BUS ELECTRICAL	\$	6,719.81	-	-
4500056352		El Tigre Enterprise Inc		P160-EQUIPMENT RENTALS	\$	2,750.00	-	-
4500056353		Home Depot USA Inc		G130-SHOP TOOLS	\$	4,282.29	-	-
4500056354	8/30/2023	Shilpark Paint Corporation		G160-PAINTS & CHEMICALS	\$	800.03	-	-
4500056355		DIRECTV, LLC		P280-GENERAL SVC AGRMNTS		749.81	-	-
4500056356	8/30/2023	SiteOne Landscape Supply Holding		F190-LANDSCAPING MAT'LS	\$	1,600.22	-	-
	8/30/2023	JKL Cleaning Systems	Small Business	F110-SHOP/BLDG MACHINERY	\$	200.00	-	-
4500056358		Mouser Electronics Inc		R160-RAIL/LRV ELECTRICAL	\$	93.14	-	-
		Recaro Automotive North America Inc		R200-RAIL/LRV SEATING	\$	178.87	-	-
4500056360				F180-BUILDING MATERIALS	\$	85.24	-	-
4500056361		Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	-	578.35	-	-
4500056362		El Tigre Enterprise Inc		P440-CATERING SERVICES	\$	850.00	-	-
4500056363		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	4,705.03	-	-
4500056364		Mcmaster-Carr Supply Co		B250-BUS REPAIR PARTS	\$	131.45	-	-
4500056365		Inland Kenworth (US) Inc		B250-BUS REPAIR PARTS	\$	42.96	-	-
4500056366		Clarran Inc.	DBE	G150-FASTENERS	\$	328.30	_	_
4500056367		Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$	49,047.84	_	_
4500056368		Gillig LLC		B160-BUS ELECTRICAL	\$	972.83	_	_
4500056369		AirSupply Tools, Inc		G130-SHOP TOOLS	\$	12.55	_	_

			Purch	ase Orders				
PO Number	PO Date	Name	Prime Business Certification	Material Group		PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056370		Motion Industries, Inc.		B120-BUS MECHANICAL PARTS		1,477.96	-	-
	8/30/2023	R.S. Hughes Co Inc		G190-SAFETY/MED SUPPLIES	\$	258.60	-	-
4500056372		D's Kustom Sales & Services, LLC		T110-TRACK, RAIL	\$	1,354.96	-	-
4500056373		W.W. Grainger Inc		R180-RAIL/LRV LIGHTING	\$	6,716.33	-	-
4500056374		W.W. Grainger Inc		G180-JANITORIAL SUPPLIES	\$	848.55	-	-
4500056375		Fastenal Company		G140-SHOP SUPPLIES	\$	551.04	-	-
4500056376		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	2,223.09	-	-
4500056377	8/30/2023	Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$	103.65	-	-
4500056378	8/30/2023	Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$	500.00	-	-
4500056379	8/30/2023	Professional Contractors Supplies		G130-SHOP TOOLS	\$	853.77	-	-
4500056380	8/30/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	275.02	-	-
4500056381	8/30/2023	Init Innovations in Transportation		B190-BUS FARE EQUIP	\$	425.00	-	-
4500056382	8/31/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	3,174.10	-	-
4500056383	8/31/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	2,631.47	-	-
4500056385	8/31/2023	Transit Holdings Inc		B140-BUS CHASSIS	\$	1,476.40	-	-
4500056386	8/31/2023	Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	428.66	-	-
4500056387			Woman Owned Business	B140-BUS CHASSIS	\$	517.20	-	-
4500056388		Siemens Mobility, Inc.		R160-RAIL/LRV ELECTRICAL	\$	122.06	-	-
4500056389		Transit Holdings Inc		B160-BUS ELECTRICAL	\$	5,913.67	-	-
4500056390		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	67.52	-	-
	8/31/2023		Woman Owned Business	F110-SHOP/BLDG MACHINERY		952.00	-	-
4500056392		Transit Holdings Inc		B250-BUS REPAIR PARTS	\$	5,360.97	-	-
4500056393		Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	_	85.37	-	-
4500056394		Uline Inc		P540-MAINTENANCE TRAINING		86.20	-	-
4500056395		San Diego Hydraulics, Inc.		F110-SHOP/BLDG MACHINERY	_	249.04	-	-
4500056396		Waxie's Enterprises, LLC		G180-JANITORIAL SUPPLIES	\$	1,870.25	_	_
4500056397		Clarran Inc.	DBE	G150-FASTENERS	\$	47.44	-	_
4500056398		Transit Holdings Inc		B110-BUS HVAC SYSTEMS	\$	62.92	_	_
4500056399		W.W. Grainger Inc		G170-LUBRICANTS	\$	886.80	-	_
4500056400		Gillig LLC		B250-BUS REPAIR PARTS	\$	1,635.01	_	_
4500056401	9/1/2023	Transit Holdings Inc		B130-BUS BODY	\$	827.81	_	_
4500056402	9/1/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$	6,126.00	_	_
4500056403	9/1/2023	Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	7.87	_	_
4500056404	9/1/2023	Transit Holdings Inc		B160-BUS ELECTRICAL	\$	1,411.30	_	_
4500056405		Transit Holdings Inc		B200-BUS PWR TRAIN EQUIP	\$	93.88	_	_
4500056406	9/1/2023	San Diego Friction Products, Inc.		B140-BUS CHASSIS	\$	808.59	_	_
4500056407	9/1/2023	Kenneth Place		F190-LANDSCAPING MAT'LS	\$	108.60	_	_
4500056408	9/1/2023	Home Depot USA Inc		G130-SHOP TOOLS	\$	814.12		-
4500056409	9/5/2023	Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	9.65		-
4500056410		Parts Authority, LLC		B160-BUS ELECTRICAL	\$	3,210.84	-	-
				G170-LUBRICANTS	_			-
4500056411 4500056412	9/5/2023 9/5/2023	Maintex Inc Muncie Reclamation and Supply Co		B200-BUS PWR TRAIN EQUIP	\$	1,230.27 88.96	-	-
	9/5/2023	Transit Holdings Inc			_		-	-
4500056413		ÿ		B120-BUS MECHANICAL PARTS		365.81	-	-
4500056414 4500056415	9/5/2023 9/5/2023	Transit Holdings Inc Staples Contract & Commercial LLC		B130-BUS BODY	\$	8,299.08	-	-
4000000415	9/3/2023	Staples Contract & Commercial LLC		G200-OFFICE SUPPLIES	\$	437.50	-	-

			Purc	hase Orders			
PO Number	PO Date	Name	Prime Business Certification	Material Group	PO Value	DBE Subcontracted Amount	Non DBE Subcontracted Amount
4500056416	9/5/2023	Freeby Signs		B250-BUS REPAIR PARTS	\$ 84.10	-	-
4500056417	9/5/2023	Gillig LLC		B250-BUS REPAIR PARTS	\$ 94.80	-	-
4500056418	9/5/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 2,862.78	-	-
4500056419	9/5/2023	Transit Holdings Inc		B250-BUS REPAIR PARTS	\$ 892.42	-	-
4500056420	9/5/2023	Fastenal Company		R230-RAIL/LRV MECHANICAL	\$ 3,585.92	-	-
4500056421	9/5/2023	Brown & Bigelow Inc		G250-NOVELTIES & AWARDS	\$ 545.22	-	-
4500056422	9/5/2023	Brown & Bigelow Inc		G250-NOVELTIES & AWARDS	\$ 2,055.11	-	-
4500056423	9/5/2023	Home Depot USA Inc		F110-SHOP/BLDG MACHINERY	\$ 20.91	-	-
4500056424	9/5/2023	Clarran Inc.	DBE	G150-FASTENERS	\$ 147.34	-	-
4500056425	9/5/2023	Gillig LLC		B160-BUS ELECTRICAL	\$ 3,654.81	-	-
4500056426	9/5/2023	W.W. Grainger Inc		G190-SAFETY/MED SUPPLIES	\$ 1,292.35	-	-
4500056427	9/5/2023	SC Commercial, LLC		A120-AUTO/TRUCK GASOLINE	\$ 3,193.47	-	-
4500056428	9/5/2023	Supreme Oil Co.		A120-AUTO/TRUCK GASOLINE	\$ 12,535.50	-	-
4500056429	9/5/2023	R.S. Hughes Co Inc		B130-BUS BODY	\$ 552.00	-	-
4500056430	9/5/2023	Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$ 5,250.00	-	-
4500056431	9/5/2023	Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$ 9,000.00	-	-
4500056432	9/5/2023	Albertsons Companies, Inc.		P440-CATERING SERVICES	\$ 99.98	-	-
4500056433	9/5/2023	Neyenesch Printers Inc	Small Business	G230-PRINTED MATERIALS	\$ 3,040.32	-	-
4500056434	9/5/2023	Block, Inc.		I110-INFORMATION TECH	\$ 768.00	-	-
4500056435	9/5/2023	Init Innovations in Transportation		G290-FARE REVENUE EQUIP	\$ 7,860.50	-	-
4500056437	9/5/2023	Fastenal Company		G140-SHOP SUPPLIES	\$ 1,905.45	-	-
4500056438	9/5/2023	Transit Holdings Inc		G150-FASTENERS	\$ 1,013.70	-	-
4500056439	9/5/2023	Hector Genaro Solano Ramirez		P160-EQUIPMENT RENTALS	\$ 845.00	-	-
4500056440	9/5/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 411.45	-	-
4500056441	9/5/2023	Mohawk Mfg & Supply Co	_	B160-BUS ELECTRICAL	\$ 339.87	-	-
4500056442	9/5/2023	BriceHouse Outdoor Inc.		G230-PRINTED MATERIALS	\$ 1,800.00	-	-
4500056443	9/5/2023	National Carwash Solutions Inc		G180-JANITORIAL SUPPLIES	\$ 1,458.90	-	-
4500056444	9/5/2023	The Sherwin-Williams Company		F120-BUS/LRV PAINT BOOTHS	\$ 686.78	-	
4500056445	9/5/2023	TK Services Inc	_	B160-BUS ELECTRICAL	\$ 138.66	-	-
4500056446	9/5/2023	Madden Construction Inc		P280-GENERAL SVC AGRMNTS	\$ 995.95	-	-
4500056448	9/5/2023	Cummins Inc		B200-BUS PWR TRAIN EQUIP	\$ 207.42		