File No. 22013 **Item No.** 8

SUNSHINE ORDINANCE TASK FORCE
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Sunshine Ordinance Task Force **Date:** November 2, 2022

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Completed by: C. Leger **Date** 10/28/22

* An asterisked item represents the cover sheet to a document that exceeds 25 pages. The complete document is in the file on a disk

SUNSHINE ORDINANCE TASK FORCE

City Hall
1 Dr Carlton B. Goodlett Place, Room 244
San Francisco, CA 94102-4689
Tel. No. (415) 554-7724
Fax No. (415) 554-7854
TTD/TTY No. (415) 554-5227

ORDER OF DETERMINATION
(pending approval)

DATE DECISION ISSUED
September 7, 2022

CASE TITLE - File No. 22013

Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

HEARING AND ACTION ON THE COMPLAINT

On March 8, 2022, the Education, Outreach and Training Committee acting in its capacity to hear petitions/complaints heard the matter.

> Moved by Member Yankee, seconded by Member Padmanabhan, to find that the SOTF has jurisdiction, find that the requested records are public and to refer the matter to the SOTF for hearing with a recommendation to find no violation.

On September 7, 2022, the SOTF held a hearing to review the recommendation form committee and/or to review the merits of the petition/complaint.

> Moved by Member Schmidt, seconded by Member Wolfe, to find **no violation** with the caveat that the record would be public if it existed.
>
> The motion was passed by the following vote:
>
> Ayes: 9 - Schmidt, Wolfe, Wong, Neighbors, Hyland, Yankee, LaHood, Padmanabhan, Stein
> Noes: 0 - None
> Absent: 1 - Hill

Matt Yankee, Chair
Sunshine Ordinance Task Force

cc. Complainant)
Greg Colfax (Respondent)
Alison Hawkes, Custodian of Record (Respondent)

DRAFT

Sunshine Ordinance Task Force
Complaint Summary

File No. 22013

Yuli Huang vs Public Works

Date filed with SOTF: 2/22/22

Contact information (Complainant information listed first):
Yuli Huang (yulihuang@gmail.com (Complainant)
David Steinberg and Public Works (Respondent)

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Administrative Summary if applicable:

December 3, 2021, request for the following related to SF Standard Specification of Public Works, Part 7 – Excavation and Backfill, required the use of vibratory hammers to be approved by the Engineer. Request documents for the Sunset and Parkside Sewer and pavement Renovation Project which apparently used hammers for sheet-pile during construction:

1. Approval document by the Engineer.
2. Submitted calculation package that determines and supports the choice of hammering paraments and hammering operations plan including precautionary measures.

A Response was provided that the Complainant does find to be complete.

Complaint Attached.

Leger, Cheryl (BOS)

From: Google Forms <sfbdsupvrs@gmail.com>
Sent: Friday, February 18, 2022 6:35 PM
To: SOTF, (BOS)
Subject: New Response Complaint Form

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Your form has a new entry.
Here are the results.

Complaint against which Department or Commission	the San Francisco Department of Public Works
Name of individual contacted at Department or Commission	David A. Steinberg
Alleged Violation	Public Records
Please describe alleged violation	The San Francisco Department of Public Works provided a document responding to Public-Record Request #21-6702. I reviewed this document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf". I confirm that it is non-compliant with the request as justified as follows. I want to file a complaint and seek advice and help from the Sunshine Ordinance Task Force. The document is a digital file of the Bid Documents associated with the Invitation to Bid, a call to contractors to submit a proposal on the Sunset and Parkside Sewer and Pavement Renovation Project for a specific service. The Invitation to Bid has been publicly available at https://proposal-bid-notices.construction.com/bid/5984/city-county-of-san-francisco-san-francisco-public-works-. The digital file of the Bid Documents was available at http://www.sfpublicworks.org/biddocs. Public Works did

not release them in response to Request #21-6702.
After the publication of the Invitation to Bid, the Contractor submitted the bid with the bidding forms. The Contractor should have submitted drawings to scale indicating materials, details, and calculations for all permits in a format as required by the San Francisco Department of Public Works. Plans and calculations for the shoring system should have been submitted for review and approval by the City prior to trench excavation. As required by the Project Manual, the Contractor should have provided all engineering, including design, details and calculations, installation and construction of shoring, sheeting, and bracing necessary to support the sides of the excavation to prevent movement, which may damage adjacent pavements, utilities, or structures, damage or delay the Work, or endanger life and health as required by Cal-OSHA and other applicable governmental regulations and agencies. The Contractor should have proposed and submitted for approval, a suitable installation method, which will minimize noise and vibrations. The Contractor should have taken necessary precautions and implemented mitigation measures to prevent or reduce the release of pollutants in the form of dust, fume, mists, excessive noise and vibration into the air and surrounding environments. Details and calculations should have been signed and stamped by a California licensed Civil or Structural Engineer.
The Contractor produced submittal after the publication of the Invitation to Bid. The submittal by the Contractor must substantially differed from the digital file of the Bid Documents. Therefore, the document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf" is non-compliant with the request, and the documents demanded by Request #21-6702 have not been released by the San Francisco Department of Public Works.
The Contractor used excavator-mounted pile-driving harmers to install sheet piling into the sandy ground, generating soil movement and potentially damaging adjacent structures. The Contractor should have submitted the required documents to the City for review and approval. The San Francisco Department of Public Works should have reviewed and approved these documents prior to issuing the Notice to Proceed. Therefore, the request of the following items is reiterated:
1. The design and details of the sheet piling installation procedure.
2. The calculation package determined hammering parameters for sheet piling installation, including the maximum duration of continuous hammering events, the specified rated number of blows per minute, the specified energy per blow, the specified stroke length, the specified capacity and pressure of the compressor, and the specified vibratory frequency of the pile driver.
3. The design, calculations, and implementation details of mitigation measures to prevent damage to the adjacent structures.
The Public Records Act requires an agency to make available to any person a copy of an "identifiable record or records" in its possession, unless the record is specifically exempt from disclosure. (Please see California Government Code § 6253(b).) The City's obligation under the Sunshine Ordinance, like the Public Records Act, is to produce public records in its custody. (See San Francisco Administration Code § 67.20(b).)
There is no requirement that a department or officer construct a document to meet the specifications of the request. However, suppose the San Francisco Department of Public Works finishes conducting a diligent search and confirms that it finds no documents responsive to the request. In that case, it is considered a consensus that the documents requested and required by the Invitation to Bid and the associated Project Manual are not in its possession, which is, in turn, evident failure of the San Francisco Department of Public Works to review and approve a complete set of

required submittal prior to issuing the Notice to Proceed to the Contractor. It would be much appreciated if you could please advise how to proceed.

Date	02/18/2022
City	San Francisco
If anonymous, please let us know how to contact you. Thank you.	Yuli Huang, 408-874-5721, yulihuang@gmail.com

Sent via Google Form Notifications

Complainant/Petitioner's Document Submission

Leger, Cheryl (BOS)

From: Yuli Huang <yulihuang@gmail.com>
Sent: Tuesday, February 22, 2022 8:51 AM
To: SOTF, (BOS)
Subject: Re: New Response Complaint Form
Attachments: Request 21-6702 - NextRequest - Modern FOIA & Public Records Request Software.pdf; 1000015025-Project Manual 2 of 2.pdf

Hi Cheryl,

Thank you very much for your email.

The request and response are available at https://sanfrancisco.nextrequest.com/requests/21-6702 and enclosed in the attachment for your reference.

Best,
Yuli

On Tue, Feb 22, 2022 at 8:45 AM SOTF, (BOS) <sotf@sfgov.org> wrote:

Dear Mr. Huang: I am in receipt of and thank you for your google form below. In order to process your complaint, I need your initial request and any responsive records received. I have assigned file no. 22013 to your case so please refer to this number when corresponding with me. Thank you.

Cheryl Leger

Assistant Clerk, Board of Supervisors

Cheryl.Leger@sfgov.org

Tel: 415-554-7724

Fax: 415-554-5163

www.sfbos.org

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The Legislative Research Center provides 24-hour access to Board of Supervisors legislation, and archived matters since August 1998.

Disclosures: *Personal information that is provided in communications to the Board of Supervisors is subject to disclosure under the California Public Records Act and the San Francisco Sunshine Ordinance. Personal information provided will not be redacted. Members of the public are*

Request #21-6702

CLOSED

As of February 25, 2022, 3:30pm

Details

San Francisco Standard Specifications of Public Works, Part 7 - Excavation and Backfill, require the use of vibratory hammers to be approved by the Engineer.

I am writing to request the following documents for the Sunset and Parkside Sewer and Pavement Renovation Project, which apparently used hammers for sheet-pile during construction.

1. Approval document by the Engineer.

2. Submitted calculation package that determines and supports the choice of hammering

Read more

Received

December 3, 2021 via web

Departments

Public Works

Documents

1000015025-Project Manual 2 of 2.pdf

Staff

Point of Contact

David A. Steinberg

Timeline

External Message Public

Mr. Huang,

Public Works has located one potentially responsive document after a further search conducted after you filed a petition with the Supervisor of Records.

We are releasing this document to you now. Public Works is not withholding any documents responsive to your request.

Regards,

David A. Steinberg
Custodian of Records
San Francisco Public Works
February 16, 2022, 5:13pm by David A. Steinberg , Custodian of Records (Staff)

Document(s) Released Public

1000015025-Project Manual 2 of 2.pdf
February 16, 2022, 5:11pm

Request Closed Public

We have finished conducting a diligent search and found no documents responsive to your request.

The Public Records Act requires an agency to make available to any person a copy of an "identifiable record or records" in its possession, unless the record is specifically exempt from disclosure. (Please see California Government Code § 6253(b).) The City's obligation under the Sunshine Ordinance, like the Public Records Act, is to produce public records in its custody. (See San Francisco Administration Code § 67.20(b).) There is no requirement that a department or officer construct a document to meet the specifications of the request.

We now consider your request closed.

Regards,

David A. Steinberg
Custodian of Records
San Francisco Public Works
December 9, 2021, 10:42am

External Message Public

We received your public records request, dated Dec. 3. You have requested the following records:

RE: Sunset and Parkside Sewer and Pavement Renovation Project, which apparently used hammers for sheet-pile during construction.

1. Approval document by the Engineer.
2. Submitted calculation package that determines and supports the choice of hammering parameters and hammering operation plan including precautionary measures.

Our department will identify and compile the requested information. The Sunshine Ordinance requires departments to respond as soon as possible or within 10 calendar days from receipt of any records requests. Therefore, we will contact you as soon as the responsive documents are ready for you to view and will do so on or before Dec. 13, as permitted by San Francisco Administrative Code § 67.21(b) and California Government Code § 6253(c).

It is not necessary to create a NextRequest account to view responsive records. Once they have been released, a link, valid for 30 days, will be provided to view the records. Additionally, unless privacy concerns prevent it, Public Works makes all records requests visible to the public. You may search for requests at https://sanfrancisco.nextrequest.com/.

December 3, 2021, 10:18am by David A. Steinberg , Custodian of Records (Staff)

Department Assignment Public

Public Works

December 3, 2021, 9:57am

Request Opened Public

Request received via web

December 3, 2021, 9:57am

City and County of San Francisco
SAN FRANCISCO PUBLIC WORKS

SUNSET AND PARKSIDE STREETS PAVEMENT RENOVATION AND SEWER REPLACEMENT

SOURCING EVENT ID. 0000002288
CONTRACT NO. 1000015025
PW Sunset & Parkside Pave Reno

PROJECT MANUAL

VOLUME 2 OF 2

(Division 01 through 33)

OCTOBER 2019

THIS PROJECT IS FUNDED BY
SB1 – THE ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017
PO JK TAX DOLLARS AT WORK REBUILDING CALIFORNIA

Each Bid shall be enclosed in an envelope bearing the description:
"BID FOR SUNSET AND PARKSIDE STREETS PAVEMENT RENOVATION AND SEWER REPLACEMENT (San Francisco Public Works Contract No. 1000015025)".

Printed on 30% post-consumer recycled stock

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SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY

A. The work to be done under this contract consists of grinding, paving, localized base repair, curb ramp work, sewer replacement, speed hump restoration and traffic routing along various locations in San Francisco, California, all as shown on the drawings and as specified in these Specifications.

1.2 PROJECT DESCRIPTION

A. Paving Work to be performed under this contract is located at the following locations:
1. 16th Avenue from Taraval Street to Ulloa Street
2. 16th Avenue from Vicente Street to Wawona Street
3. 18th Avenue from Pacheco Street to Rivera Street
4. Ortega Street from 19th Avenue to 29th Avenue
5. Pacheco Street from 36th Avenue to 37th Avenue
6. Pacheco Street from 41st Avenue to 44th Avenue
7. Ulloa Street from 19th Avenue to 23rd Avenue
8. Ulloa Street from 24th Avenue to 29th Avenue
9. Wawona Street from 17th Avenue to 18th Avenue

B. Paving Work includes, but not limited to:
1. Mobilization and demobilization work;
2. Traffic routing work;
3. Excavating, removing and disposing of existing pavement, concrete base, parking strip, curb and sidewalk;
4. Supporting and working around existing utilities;
5. Handling all drainage or ground water;
6. Removing surplus material;
7. Cleaning project site;
8. Removing and disposing of all sand, vegetation, and objectionable materials from the project site as required to perform the Work set forth by these Project documents;
9. Preventing construction material, pavement, concrete, earth, paints, thinner, solvents, and other debris or toxic materials from entering a sewer or sewer structure including surface flow collection, such as catch basins and culverts through protection of the catch basins and storm drain inlets;
10. Furnishing and placing of backfill material;
11. Constructing or installing the following:
    a. 2-inch thick asphalt concrete wearing surface
    b. 8-inch thick concrete base
    c. 8-inch thick concrete pavement, gutter, or parking strip
    d. 4-inch or 6-inch wide concrete curb
    e. combined 6-inch wide concrete curb and 2-foot wide concrete gutter
    f. 3-½-inch thick concrete sidewalk
    g. exposed aggregate sidewalk
    h. HMA Speed Hump
    i. concrete curb ramps with concrete detectable surface tiles
12. Resetting existing brick sidewalk;
13. Installing pull boxes;

14. Adjusting City-owned manhole frame and cover to grade;
15. Adjusting City-owned catch basin frame and grating to grade;
16. Adjusting City-owned castings to grade;
17. Adjusting City-owned hydrant and water main valve box casting to grade;
18. Reconstructing City-owned hydrant and water main valve box casting to grade;
19. Furnish and Install Temporary Traffic Striping Tape;
20. Performing all related and incidental work, all where and as shown on the Drawings and in accordance with the Project Manual.

C. Sewer Work includes, but not limited to:
1. Mobilization and demobilization work;
2. Performing traffic routing and trench support work related to sewer and drainage work;
3. Constructing 12-inch, 15-inch, 18-inch and 21-inch diameter bell and spigot type extra strength vitrified clay pipe (VCP) on crushed rock bedding wrapped in geotextile fabric;
4. Constructing cast-in-place or precast concrete manholes;
5. Constructing 6-inch or 8-inch diameter side sewer connections
6. Constructing 10-inch diameter VCP culverts and catch basins with new frame and grating;
7. Televising existing active side sewers and culverts;
8. Repair, replacement or construction of 6-inch or 8-inch diameter side sewer and 10-inch diameter VCP culverts;
9. Plugging and filling existing sewer facilities with slurry grout as indicated on contract plans;
10. Furnishing and installing cast iron water trap for existing catch basins to remain, including cleanout caps within the contract limits;
11. Furnishing and installing connections to and between sewers, structures, and culverts;
12. Abandoning, removing and disposing existing sewers and related structures, where indicated on contract plans;
13. Post-construction TV inspection of newly constructed side sewers, and culverts;
14. Bypassing sewer flow from main sewers, side sewers, and culverts during construction;
15. Providing exploratory holes and potholes;
16. Saw cutting, removing and disposal of existing pavement;
17. Excavation, backfilling and compaction of trench;
18. Restoring concrete base inside and outside of sewer trench limit as necessary per San Francisco Excavation Regulations;
19. Handling, transportation and disposal of hazardous excavated materials and contaminated soils, if encountered and if disposal is necessary;
20. At conclusion of work, cleaning existing catch basins located within contract limits;
21. Performing necessary work due to unforeseen conditions;
22. Performing all related and incidental Work;
23. Supporting, working around and protecting certain San Francisco Water Department, Fire Department and other utility agency and company facilities in conjunction with the work under this contract; and all appurtenant work required in accordance with the Contract Documents and in accordance with San Francisco DPW Standard Specifications, dated November 2000.

D. The Work shall include providing all labor, tools, equipment, materials, transportation and services, and performing all operations necessary for and properly incidental to the construction and completion of the Work as indicated on the Contract Documents.

E. The Drawings indicate the location, extent, design, and details of the Work required to be performed. The Drawings are listed in the Index of Drawings. When reference is made to "plans" in the Contract Documents, it shall be understood that such reference refers to the Drawings.

1. The Drawings may refer to certain details of Work, which are shown on the Standard Plans of the City and County of San Francisco, Department of Public Works, Bureau of Engineering, dated April 2007. All such referenced details shall be incorporated into the Contract Documents by their reference.
2. Refer to Section 01 42 00 – References for availability of the DPW Standard Plans.

1.3 HAZARDOUS OR CONTAMINATED SOILS, DUST CONTROLS, & EXCAVATION LIMITATIONS

A. Work will involve working in contaminated soils and environments. The Contractor shall adhere to the following requirements as written in its specific section:

1. Health & Safety Criteria - Refer to Section 01 35 45.

2. Minimum Environmental Procedures – Refer to Section 01 35 49

3. Additional Environmental Procedures – Refer to Section 01 35 50

4. Regulatory Requirements - Refer to Section 01 41 00.

5. For stormwater, and erosion and sediment controls requirements - Refer to Section 01 57 13.

6. Excavation area limits (at any given time) that shall trigger additional requirements of the San Francisco Department of Public Health (SFDPH) Dust Control Ordinance - Article 22B, and the California Code of Regulations, Title 17, Section 93105 - Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations in areas of Serpentine containing Naturally Occurring Asbestos (NOA), and Cal/OSHA. Refer to Sections 01 35 50 and 02 81 10.

7. For environmental training, manifest requirements, stockpiling, re-use of excavated soils, import fill criteria - Refer to Section 02 81 10.

8. For handling, transportation and disposal of excavated materials and contaminated soils - Refer to Section 02 81 10.

9. The Contractor is alerted that soils containing Serpentine (Naturally Occurring Asbestos) may be encountered at the site during the excavation phase of this Contract. Refer to Sections 01 35 50, and 02 81 10.

10. For pre-excavation soil profiling, environmental training, manifest requirements, stockpiling, re-use of excavated soils, import fill criteria - Refer to Section 02 81 10.

11. This project is not located within the Air Pollutant Exposure Zone (APEZ) in San Francisco and is within 1,000 feet of a Sensitive Use, as set forth in Chapter 25 of the Environment Code and Section 6.25 of the Administrative Code.

B. The Contractor is strongly advised to familiarize itself as to the actual site conditions that may be encountered during construction by all means available to it including, but not limited to, the use of USGS geologic maps.

C. If the Contractor by its means and methods disturbs, grades or excavates more than one half acre surface area (21,780 sq ft) at any given time, then the Contractor shall submit a Site-Specific Dust Control Plan (including Air Monitoring Protocols) for the review and approval from the City Representative and the San Francisco Department of Public Health, prior to start of construction. The Contractor at its own cost shall then furnish all labor, equipment, and means required to conduct the ambient and perimeter air monitoring as required by the San Francisco Department of Public Health (SFDPH) Dust Control Ordinance - Article 22B, and the Air Quality Monitoring Guidelines for San Francisco Health Code (SFHC) Article 22B, Real Time Dust Monitoring and Reporting. Refer to Section 01 35 50.

D. If the Contractor by its means and methods disturbs, grades or excavates more than one acre (43560 sq ft) of the site at any given time in an area containing Serpentine/Naturally Occurring Asbestos (NOA), then the Contractor at its own cost shall then furnish all labor, equipment, and means to comply with the BAAQMD's requirements, terms of approval of the Asbestos Dust Mitigation Plan (ADMP) and California Code of Regulations, Title 17, Section 93105. Refer to Section 01 35 30.

E. Unforeseen hazardous/contaminated material work: In the event that unforeseen hazardous/contaminated material is discovered beyond the above referenced reports, the Contractor shall immediately notify the City Representative both verbally and in writing. In the event that unforeseen Hazardous material is discovered, all work in the affected area will stop pending further direction from the City Representative. Upon receipt of such notification, the City, at its sole option, may either

1. Stop all work in the affected area pending further direction from the City Representative

2. The City Representative shall determine whether the remediation/abatement and hazard removal process requires suspension of all, none or any part of the work under this Contract.

3. The City will perform the remediation/abatement work using its own forces or using an outside contractor specializing in remediation/abatement work or

4. Direct the Contractor to perform all or any part of the remediation/abatement and hazardous materials removal work.

5. If the City Representative directs the Contractor to perform the unforeseen remediation/abatement and removal of the hazardous materials, the City Representative will do so by change order, and the Contractor must promptly provide a properly licensed and insured subcontractor (with CSLB hazardous substance removal certification and C-22 license pertinent to the task as per applicable law) to perform remediation/abatement work.

6. Refer to Section 00 73 16 – Insurance Requirements for a description of the Contractor's required insurance.

F. All work that affects intact paint with any level of lead will be performed by the Contractor or its sub contractors under the Cal/OSHA Lead in Construction Standard 8 CCR 1532.1 as well as all Federal, State, and local regulations at no additional cost. If personal exposures to the workers exceed the 8-hr Permissible Exposure Level (PEL) of 50 micrograms/cubic meter, such worker(s) must have received training as a CDPH Certified Lead Worker (as per 17 CCR Division 1, Chapter 8).

1.4 COORDINATION WITH OTHER PROJECTS

A. Contractor is hereby informed of the following projects that may be in conflict with this Contract. Contractor shall coordinate and schedule its Work with the other Contractors prior to construction work in accordance with Paragraph 5.02 - Coordination of the General Conditions.

Project ID	Project Name	Agency	Location	Type of Work	Dates	Contact Information
31192451	Inner Parkside	PG&E	16th Ave/Ulloa St; 16th Ave: Taraval St to Ulloa St	Gas	1/1/2019 - 12/31/2020	Larry Ng at lxn8@pge.com
31370292	Relocate DR175 36th and Pacheco	PG&E	36th Ave/Pacheco St	Gas	6/1/2020 - 12/30/2020	Jesse Lee at 415-695-3258, jjlw@pge.com
DPW0001	PW 41st and 44th Aves Infrastructure Improvements	SFPW	41st Ave/Pacheco St; 44th Ave/Pacheco St	Roadway	9/19/2020 - 9/21/2021	Y La y.t.la@sfdpw.org
DPW0484	PW 19th Ave Infrastructure Improvements	SFPW	Ortega St:19th Ave to 20th Ave; Ulloa St:19th Ave to 20th Ave	Streetscape	3/28/2020 - 6/7/2022	Josef Munoz at josef.munoz@sfdpw.org
DPW0697	PW 15th and Wawona Flood Resiliency	SFPW	16th Ave/Ulloa St; 21st Ave/Ulloa St; 22nd Ave/Ulloa St; 23rd Ave/Ulloa St; 24th Ave/Ulloa St; 25th Ave/Ulloa St; 26th Ave/Ulloa St; 27th Ave/Ulloa St; 29th Ave/Ulloa St; 30th Ave/Ulloa St	Sewer	10/1/2020 - 3/15/2022	Saied Khan at saied.khan@sfdpw.org
DPW0740	Joint - SFMTA Lead - PW Taraval Street Improvement Project West Portal to Sunset Blvd	SFPW	16th Ave/Taraval St	Roadway	9/20/2019 - 8/19/2021	Calvin Gee at calvin.gee@sfdpw.org
PLN 1314-029	8" DIP Installation on 15th Ave. from Wawona to Riviera and Ulloa from 19th Ave. to Forest Side	SFPUC	16th Ave/Ulloa St	Water	11/1/2019 - 4/1/2021	CDD Engineering at 415-550-4994, cddengineering@sfwater.org
WPPAWSS-Segment A	Westside Potable Pipeline - Segment A	SFPUC	27th Ave/Ortega St; Ortega St: 27th Ave to 28th Ave; Ortega St: 28th Ave to 29th Ave	Water	3/1/2020 - 3/31/2021	Jesus Almaguer at jalmaguer@sfwater.org Or Roger Tam at 415-551-4875, rtam@sfwater.org

1.5 COORDINATION WITH LOCAL RESIDENTS, BUSINESSES AND VISITORS

A. Contractor is required to Coordinate Construction efforts and minimize impacts to the neighborhood residents, businesses and visitors. This shall be incidental to the Work, except graffiti removal within an approved and secured storage area may be compensable under a bid allowance, if explicitly included as a bid item.

1. No area within the public right of way (from property line to property line and including but not limited to streets, parking strips, bicycle lanes, gutters, curbs, paths and sidewalks) shall have restricted public access for more than five (5) calendar days, with the exceptions of areas of new curb ramp and bus pad construction if specified in Section 01 55 26. Contractor shall restore and reopen to the public any and all areas of the public right of way within these specified time limits.

2. Work shall not prevent pedestrians from entering operating businesses.

3. At any time that the Contractor occupies the sidewalk along any block, the Contractor shall coordinate with the businesses that are located on or require access through occupied area to maintain daily delivery access and access to garbage/recycling removal services. If the Contractor's activities prevent a business from placing its garbage or recycling on the curb for pickup, Contractor shall at its expense assist the business with handling and transport of garbage and recycling refuse to nearby designated garbage/recycling collection locations. The Contractor's attention is directed to the existing garbage/recycling collection times, which are typically at night or early morning.

4. Contractor shall coordinate with and assist businesses that receive deliveries at night or early morning to ensure that delivery areas, including sub-sidewalk access doors, are accessible.

5. Contractor shall daily remove all graffiti on all barricades, equipment, buildings and pavement in the Work area. Contractor shall no less than daily and as often as may be required by the Engineer to remove trash, litter, and debris from businesses along the alignment when Contractor is performing Work in front of or immediately adjacent to said businesses. Contractor is not expected to provide litter and trash removal services to the businesses not directly impacted by Contractor's immediate Work. However, Contractor shall take all reasonable measures to ensure that the business entrances and public areas immediately adjacent to where it is performing Work are to be kept, clean, orderly, and accessible to the public.

6. Contractor shall coordinate and provide access to businesses for window cleaning and if safe access is not available, the Contractor shall make safe access within 24 hours of request, which shall be incidental to the Work.

1.6 SUBMITTALS, PUBLIC NOTIFICATION, AND MEETINGS BEFORE NOTICE TO PROCEED (NTP)

A. Contractor shall submit the required Traffic Control Plans, EHASP, and Schedule as soon as possible after NTP in order to ensure said submittals are reviewed and approved by the City prior to start of field work. Contractor may request to submit after date of Award.

B. Contractor shall submit to the City for review and approval all 30-Day and 10-Day Public Notices prior to issuance as soon as possible after NTP, provided that said notices are sent out after NTP but no later than 60 calendar days before the start of Work. Refer to DPW Order No. 187,005, Regulations for Excavating and Restoring Streets in San Francisco, and Section 00 73 27 – Specific Project Requirements for more details.

C. The City Representative will schedule a Pre-Construction meeting as soon as possible after NTP in order to discuss schedules and sequence of operations with the Contractor.

1.7 SEQUENCING OF CONSTRUCTION

A. After award and certification of the contract, a pre-construction meeting will be scheduled with the Contractor to determine the official date for commencement of the work. No fieldwork can begin prior to the Contractor's receipt of written permission from the City Representative. The City shall have full jurisdiction and responsibility of the property until the commencement date for fieldwork.

B. Maximum durations within which to complete units of work in the field are identified below.

1. Curb Ramp: Each curb ramp is one unit. Four (4) calendar days per unit.

2. Bus Pad: Each bus pad is one unit. Eleven (11) calendar days per unit.

3. Bulb Out: Each bulb out is one unit. Four (4) calendar days per unit.

4. Concrete Sidewalk: Each flag is one unit. Seven (7) calendar days per unit.

5. Manhole or Other Structure: Each manhole or structure is one unit.

   a. Excavation, installation and/or repair complete within fourteen (14) calendar days per unit.

   b. Full restoration, including but not limited to backfill, compaction, base and repaving complete within one hundred twenty (120) hours after installation or repair of manhole or structure.

6. Buried utilities (e.g. sewer, water, electrical, etc.): Six hundred (600) lineal feet (inclusive of work through intersections, side sewers, servces, etc.) is one unit.

   a. Excavation, installation and/or repair complete within forty (40) calendar days per unit.

   b. Full restoration, including but not limited to backfill, compaction, base and repaving within one hundred twenty (120) hours after installation or repair of facilities.

7. All other units of work: Five (5) calendar days per unit.

C. Whenever completion is dependent on and delayed by work of others (e.g. SFWD connection, testing, etc.), additional time for completion will be allowed for this delay, provided the contractor complies with its requirements including but not limited to have work area ready and available, providing required notification and coordinating with all other parties. Should said work by others result in a critical path delay, any contract duration time extension would be non-compensable.

D. Failure to comply with maximum construction durations will result in liquidated damages per calendar day as shown in Specification Section 00 73 03 – Additional Liquidated Damages.

E. Once construction begins at a location, all work must be completed. Contractor may have multiple headings at one time, but each location is given a construction duration for the Contractor to complete all work continuously from start to final paving.

F. The maximum duration of construction work at each location shall not exceed the durations tabulated below. The duration shall include completion of Final Paving and completion of punch list for all work at the location. Maximum duration includes two weeks of time for the City to process, review and approve post construction videos.

G. Interim Milestones and Locations

No.	Locations	Maximum Continuous Construction Duration Calendar Day (CD)
1	Ortega Street from 19th Avenue to 29th Avenue	130
2	Pacheco Street from 36th Avenue to 37th Avenue Pacheco Street from 41st Avenue to 44th Avenue	60
3	Ulloa Street from 19th Avenue to 23rd Avenue Ulloa Street from 24th Avenue to 29th Avenue	180
4	16th Avenue from Taraval Street to Ulloa Street 16th Avenue from Vicente Street to Wawona Street Wawona Street from 17th Avenue to 18th Avenue	100
5	18th Avenue from Pacheco Street to Rivera Street	90

Failure to complete all construction at each location within the allotted time will result in liquidated damages. Refer to Section 00 73 02 – Contract Time and Liquidated Damages.

H. After notification of the commencement date, the Contractor shall be allowed ninety (90) calendar days for shop drawings submittal and approval, procurement and delivery of the custom fabricated site furnishings.

I. Contractor shall be familiar with the terms, conditions, and payment schedule required by suppliers prior to submitting bid. Any delays to the custom fabricated item procurement schedule caused by incomplete or inaccurate shop drawing submittals and/or failure to comply with these terms, conditions and payment schedule required by the material suppliers, shall be the responsibility of the Contractor.

1.8 WORK SCHEDULING

A. Refer to schedule, Temporary Street Closures, appended to this Section for traffic lane requirements that may affect the Contractor's schedule of operations.

B. The Contractor shall coordinate its operations with the City and shall incorporate in its Progress Schedule activities for all special events that will require the Contractor to suspend its operations at the project site.

C. The Contractor's working hours shall be as specified in Section 00 72 00 - General Conditions, subparagraph 1.01A.67, except as specified otherwise in these Specifications.

D. The Contractor shall not commence site work prior to receiving the Engineer's approval of the Construction Schedule. No Work shall commence prior to the approval of applicable traffic control plans, storage and parking plans, and flagger resumes and certificates. The Contractor will be levied damages, as specified in Section 00 73 03 - Additional Liquidated Damages for delay of Work.

E. The Contractor shall not commence any excavation in the public right-of-way without a valid excavation permit issued by the San Francisco Department of Public Works, Bureau of Street Use and Mapping. The Contractor shall submit a copy of the excavation permit.

1.9 TRAFFIC ROUTING WORK

A. The Contractor shall be responsible to provide incidental traffic routing work, such as described below, to ensure adequate protection of the general public and the Work.

B. The Contractor shall provide incidental traffic routing work in accordance with the requirements of the "Regulations for Working in San Francisco Streets (Blue Book)" by the San Francisco Municipal Transportation Agency (SFMTA), latest edition. Refer to the following website for the latest copy of the Blue Book: http://www.sfmta.com/services/streets-sidewalks/construction-regulations

C. The Contractor shall obtain the approval of the SFMTA for any required prohibition of stopping from the Traffic Bureau (415) 554-9928, at least 72 hours in advance of the effective date and time. The Contractor shall post the signs at least 72 hours in advance of the effective date and time.

D. In the event the Contractor occupies parking areas within the Public Right of Way including the sidewalk, the Contractor shall obtain the approval of, and pay for any required permits for occupation of the sidewalk and parking spaces from the SFMTA.

1.10 CONTRACTOR USE OF SITE

A. Use of Site: Limit use of the site for construction operations necessary to perform the Work indicated on the Drawings. Obtain prior written approval from the City for access to areas of the site occupied by the City. Protect and repair or restore to the existing condition surrounding areas damaged by the Contractor's operations.

B. Contractor's Work Area: The Contractor's work area is limited to the areas included within the limits of work as shown on the Contract Drawings and as adjusted by the temporary construction fencing.
   1. Refer to Section 01 50 00 - Temporary Facilities and Controls for work area maintenance requirements.

C. Parking and Storage Location Plan
   1. Only one storage location shall be used on the project at one time. If more than one parking and storage location is desired, Contractor must submit request for multiple locations. The City may require the Contractor to cease or modify parking and storage plans, even if previously approved, and may rescind approval of all parking and storage areas. Refer to Section 01 55 26-1.4.C for additional requirements.
   2. Tow Away / No Parking (TANS) zones are allowed only in area of approved parking and storage plans and/or as indicated on the applicable traffic control plan and only while the applicable work is being performed. Prior approval in writing of each instance of posting and tow away activation must be obtained from the City Representative. If prior written approval is not obtained, the City may remove signage and/or may deactivate tow away authorization. Refer to Section 01 55 26-3.9 for additional requirements.
   3. Do not utilize City streets for additional staging and storage areas.
   4. Do not enter upon or use any property not under control of the City until a written temporary construction easement agreement has been executed by the Contractor and the property owner, and a copy of said agreement furnished to the City Representative prior to said use. Neither the City nor the City

Representative shall be liable for any claims or damages resulting from the Contractor's unauthorized trespass or use of any such properties.

D. Maintenance of Work Area: Maintain the work areas in a safe condition at all times. Remove all graffiti and accumulated rubbish and debris material deposited within the construction site at the end of each work day. The Contractor is responsible to maintain the project area for the entire duration of the Contract. Clean and restore the work site at completion of the work to the condition that existed prior to the start of work.

E. Security Of Contractor's Work Areas: Security of the Contractor's work areas and its property, equipment, construction materials and all other items contained in the Contractor's staging areas or elsewhere on the construction site shall be the Contractor's sole responsibility at all times.

1.11 SPECIAL INSTRUCTIONS

A. Refer to Section 01 55 26 - Traffic Control for other special instructions.

B. The Contractor's attention is directed to Article 37 of General Order 95 of the Public Utilities Commission State of California. CAL OSHA regulations require that any equipment that moves vertically must maintain a 10 feet radial clearance, and any other equipment must maintain a 6 feet clearance from MUNI overhead electric wires. The Contractor shall observe these regulations during the entire duration of the construction work unless isolation/re-energizing is provided in Section 01 55 26 – Traffic Control. The Contractor shall choose the appropriate construction means and methods to meet all CAL-OSHA rules and regulations while accommodating MUNI's operational and facility's requirements.

C. Unless provided in Section 01 55 26 – Traffic Control, relocating or isolating/re-energizing MUNI overhead wires will not be allowed for roadway related work, which includes, but is not limited to curb ramps, curbs, gutters, sidewalk, parking strips, paving, and adjustment of castings.

D. Initial Curb Ramps: The Contractor shall complete the construction of the initial curb ramps at two curb returns and have them inspected and approved by the City Representative prior to proceeding with construction of the other curb ramps. No additional curb ramps shall be constructed until the City Representative has approved the initial curb ramps. Inspection will include workmanship, color, finishes, and to verify that the curb ramps conform to the plans and specifications. The approved initial curb ramps shall be a standard of comparison for all curb ramps work.

E. The Contractor shall ensure that the existing fire hydrants on site are not removed or relocated prior to curb ramp layout. The existing fire hydrant and flange shall be removed prior to final curb ramp or concrete finishing.

F. The Contractor shall ensure there is proper coordination of new fire hydrant and water meter box locations with new curb ramp construction locations, so that new fire hydrants and water meter boxes do not negatively impact the curb ramp design requirements in accordance with SFDPW Standard Plans 102,854 thru 102,864.

G. The Contractor shall use proper equipment to prevent unnecessary damages to facilities at the project site such as no heavy equipment on the top of sidewalks.

H. The Contractor shall use temporary hot mix asphalt concrete to provide longitudinal and/or transverse transitions with a slope of 1:18 between the newly constructed concrete base, manhole, etc. and existing pavement (whenever the difference in the grade of the pavement and the concrete base, manhole, etc. exceeds 3/4 inch) by the end of the work

shift or before opening the lanes to traffic. Temporary hot mix asphalt paving shall conform to Section 211.01 of DPW Standard Specifications. Installing and removing temporary paving shall be considered incidental work.

I. Prior to the start of construction, the Contractor shall provide the Engineer with sufficient spray paint, at no cost to the City and as Incidental Work, for markings necessary for the Contract.

J. Five working (5) days prior to construction work, Contractor shall notify Mark Middleton of the San Francisco Public Utilities Commission at (415) 262-2144 or (415) 254-3538 to schedule removal of flow meters installed in sewer manholes, if encountered within the work scope.

1. Three days (3) after completion of sewer work, Contractor shall contact Mark Middleton for PUC to reinstall flow meters at affected locations.

K. Contractor is alerted to the possibility of encountering buried cable car facilities beneath the pavement during sewer utility work at the Intersection of Ulloa Street and 23rd Avenue. Bid Item SW-29 is available. If encountered alert City Representative immediately.

L. If completion of the Work will require temporary closure of the roadway,such closure shall be coordinated so that neighbors are as minimally impacted as possible in multiple phases of construction.

M. Through the City Representative, Contractor shall coordinate with Recology for neighborhood garbage collection andcontact Tom Lavazolli, Operations Manager for Recology at (415)330-1300.

N. Through the City Representative, Contractor shall coordinate with neighbors to allow for ingress and egress to properties during construction.

O. Contractor shall not have more than 0.5 acres open with active construction at any one time.

P. Contractor shall notify the MTA Meter Shop ten (10) business days prior to demolition work in areas with parking meters and once parking areas are reopened to the public. Refer to Specification Section 01 55 26 – Traffic Control for details.

Q. Contractor shall notify the MTA Meter Shop ten (10) business days in advance of new concrete sidewalk pours to coordinate the installation of parking meter sleeves in new concrete sidewalk areas. Refer to Specification Section 01 55 26 – Traffic Control for details.

R. Tree trimming, replanting and removal shall be coordinated with BUF (Bureau of Urban Forestry). Provide ninety (90) calendar day notice. Tree trimming and tree removal shall be part of incidental cost. Tree removal or relocation shall require a permit application and fee to BUF. Refer to Section 01 55 26-3.11 for additional requirements.

S. Contractor shall notify owners of sub-sidewalk basements in writing at least 30 days prior to performing any work within sub-sidewalk basements to coordinate access to the basements.

END OF SECTION

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Shuttles for Moscone West	Fri 10/11/19	5:45 AM	Fri 10/11/19	6:45 PM	4th Street (curbside lane) between Minna and Howard streets; Minna Street (curbside lane) between 4th and 5th streets
San Francisco Fleet Week Airshow	Fri 10/11/19	6:00 AM	Sun 10/13/19	8:00 PM	Jefferson street between Hyde Street and westerly terminus
American Academy of Opthamology Convention	Fri 10/11/19	6:00 AM	Tue 10/15/19	6:00 PM	Lane closures around Moscone Center on Howard and 4th streets
La Cocina Street Food Festival	Sat 10/12/19	12:01 AM	Sun 10/13/19	2:00 AM	23rd Street between Illinois Street and the eastern terminus; Humboldt Street between Illinois Street and the eastern terminus
Shuttles for Moscone West	Sat 10/12/19	5:45 AM	Sat 10/12/19	6:45 PM	4th Street (curbside lane) between Minna and Howard streets; Minna Street (curbside lane) between 4th and 5th streets
Ocean Beach Music & Art Festival	Sat 10/12/19	7:00 AM	Sat 10/12/19	8:00 PM	Noriega Street between 44th and 47th Avenues; 46th Avenue between Moraga and Ortega Streets; 45th Avenue between Moraga and Ortega Streets; Intersection: Noriega Street at 45th and 46th avenues (Local Access Allowed on 45th and 46th avenues via Moraga or Ortega)
Neighborfest Block Party	Sat 10/12/19	9:00 AM	Sat 10/12/19	6:00 PM	Quesada Avenue (northern roadway) between westerly terminus and Third Street
Neighborfest Block Party	Sat 10/12/19	9:00 AM	Sat 10/12/19	7:00 PM	Connecticut Street between 20th Street and Southerly Terminus
Neighborfest Block Party	Sat 10/12/19	9:00 AM	Sat 10/12/19	7:00 PM	Athens Street between Italy and France
Neighborhood Block Party	Sat 10/12/19	10:00 AM	Sat 10/12/19	6:00 PM	Surrey Street between Diamond and Castro streets
Neighborhood Block Party	Sat 10/12/19	11:00 AM	Sat 10/12/19	6:00 PM	Ellsworth Street between Crescent and Ogden avenues
El Corazon Award Ceremony	Sat 10/12/19	11:00 AM	Sat 10/12/19	9:00 PM	Parking lot on 24th Street between Lilac and Capp streets
Private Event on Maiden Lane	Sat 10/12/19	4:00 PM	Sat 10/12/19	11:59 PM	Maiden Lane between Stockton Street and Grant Avenue
Inner Sunset Sundays	Sun 10/13/19	7:00 AM	Sun 10/13/19	7:30 PM	Irving Street between 9th and 10th Avenues
San Francisco Italian Heritage Parade	Sun 10/13/19	6:00 AM	Sun 10/13/19	4:00 PM	same as previously
Shuttles for Moscone West	Sun 10/13/19	6:30 AM	Sun 10/13/19	6:45 PM	4th Street (curbside lane) between Minna and Howard streets; Minna Street (curbside lane) between 4th and 5th streets
Planned Parenthood Northern California Fundraiser	Sun 10/13/19	7:00 AM	Sun 10/13/19	3:00 PM	Rose Street between Gough and Market streets
Butchertown Jazz Festival	Sun 10/13/19	7:00 AM	Sun 10/13/19	7:00 PM	Lane Street between Dyke and Underwood avenues
Italian Heritage Day Celebration	Sun 10/13/19	8:00 AM	Sun 10/13/19	4:30 PM	Union Street between Stock Street and Columbus Avenue
Neighborhood Block Party	Sun 10/13/19	9:00 AM	Sun 10/13/19	6:00 PM	Joost Avenue between Gennessee Street and Ridgewood Avenue
Neighborhood Block Party	Sun 10/13/19	10:00 AM	Sun 10/13/19	6:00 PM	2nd Avenue between Lake and California streets
Neighborhood Block Party	Sun 10/13/19	12:00 PM	Sun 10/13/19	5:00 PM	Gold Mine Drive between Topaz Way and Onique Lane
Alcatraz Canoe Journey	Mon 10/14/19	3:00 AM	Mon 10/14/19	3:00 PM	Jefferson street between Hyde Street and westerly terminus
Shuttles for Moscone West	Mon 10/14/19	6:30 AM	Mon 10/14/19	6:45 PM	4th Street (curbside lane) between Minna and Howard streets; Minna Street (curbside lane) between 4th and 5th streets
Shuttles for Moscone West	Tue 10/15/19	6:30 AM	Tue 10/15/19	4:15 PM	4th Street (curbside lane) between Minna and Howard streets; Minna Street (curbside lane) between 4th and 5th streets
Neighborhood Block Party	Thu 10/17/19	4:00 PM	Thu 10/17/19	10:00 PM	10th Avenue between California and Lake streets
Creative Night Market	Fri 10/18/19	6:00 PM	Fri 10/18/19	2:00 AM	Stevenson Street between 6th and 7th streets
Wharf Fest	Sat 10/19/19	2:00 AM	Sat 10/19/19	10:00 PM	Little Embarcadero between Jefferson and Taylor Streets
Events at the Midway	Sat 10/19/19	5:00 AM	Sat 10/19/19	11:59 PM	Marin Street between Illinois Street and Easterly Terminus; Michigan Street between Cesar Chavez and Marin Street; Intersection: Michigan Street at Marin Street

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Potrero Hill Festival	Sat 10/19/19	6:00 AM	Sat 10/19/19	7:00 PM	20th Street between Wisconsin and Missouri Streets; Connecticut Street between 19th Street and Southerly Terminus; Missouri Street between 19th and 20th Streets; Intersections: Missouri and Connecticut Streets at 20th Street
Decompression	Sat 10/19/19	6:00 AM	Sun 10/20/19	6:00 AM	23rd Street between Illinois Street and eastern terminus
Neighborfest Block Party	Sat 10/19/19	7:00 AM	Sat 10/19/19	6:00 PM	Anza Vista Avenue between Barcelona and Encanto avenues
Neighborhood Block Party	Sat 10/19/19	8:00 AM	Sat 10/19/19	7:00 PM	45th Avenue between Judah and Kirkham streets
Neighborfest Block Party	Sat 10/19/19	9:00 AM	Sat 10/19/19	5:00 PM	20th Avenue between Lake and California streets
Neighborhood Block Party	Sat 10/19/19	9:00 AM	Sat 10/19/19	5:00 PM	17th Avenue between Lake and California streets
Neighborfest Block Party	Sat 10/19/19	9:00 AM	Sat 10/19/19	6:00 PM	Arlington Street between Miguel and Mateo streets
Neighborhood Block Party	Sat 10/19/19	10:00 AM	Sat 10/19/19	4:00 PM	Ulloa Street between Laguna Honda Boulevard and Sydney Way
Neighborhood Block Party	Sat 10/19/19	11:00 AM	Sat 10/19/19	5:00 PM	14th Avenue between Irving and Judah streets
Neighborhood Block Party	Sat 10/19/19	11:00 AM	Sat 10/19/19	7:00 PM	11th Avenue between Irving and Judah streets
Neighborhood Block Party	Sat 10/19/19	11:30 AM	Sat 10/19/19	4:30 PM	Beaver Street between Noe and Castro streets
Firefighters Stickball Tournament	Sun 10/20/19	8:00 AM	Sun 10/20/19	4:00 PM	Green Street between Columbus and Grant avenues
Neighborhood Block Party	Sun 10/20/19	9:00 AM	Sun 10/20/19	6:00 PM	Day Street between Castro and Noe streets
Sunday Streets Excelsior	Sun 10/20/19	10:00 AM	Sun 10/20/19	4:30 PM	Mission Street between Avalon and Geneva Avenues; Cotter St, Francis St, Santa Rosa Ave, Onondaga, and Seneca Ave between Mission Street and Alemany Avenue; Ocean Avenue between Persia and Mission Streets; Intersections: Amazon, Russia, Onondaga, Leo, Ruth, San Juan, Norton, Brazil, Harrington, Santa Rosa, Excelsior, Francis, and Cotter Streets at Mission Street
Neighborhood Block Party	Sun 10/20/19	10:00 AM	Sun 10/20/19	5:00 PM	Alvarado Street between Castro and Noe streets
Neighborfest Block Party	Sun 10/20/19	10:00 AM	Sun 10/20/19	6:00 PM	Arbor Street between Conrad Street and Hilleritas Avenue
Neighborhood Block Party	Sun 10/20/19	10:00 AM	Sun 10/20/19	6:00 PM	29th Avenue between Lake and California streets
Neighborhood Block Party	Sun 10/20/19	12:00 PM	Sun 10/20/19	7:00 PM	Laussat Street between Fillmore and Steiner streets
Conference at BGCA	Tue 10/22/19	6:00 PM	Thu 10/24/19	4:00 AM	Grove Street between Polk and Larkin streets
Internet Archive Anniversary Party	Wed 10/23/19	1:00 PM	Wed 10/23/19	11:59 PM	Funston Avenue between Clement Street and Geary Boulevard
SF SPCA and Animal Care & Control Partnership Celebration	Thu 10/24/19	5:00 AM	Thu 10/24/19	11:59 PM	Alabama Street between 15th and 16th streets
Clippers at Warriors	Thu 10/24/19	7:30 PM	Thu 10/24/19	10:30 PM	Chase Center
Critical Mass	Fri 10/25/19	6:00 PM	Fri 10/25/19	10:00 PM	Justin Herman Plaza to ?
Bayview Live	Sat 10/26/19	12:00 AM	Sat 10/26/19	11:59 PM	Egbert Avenue between Third to Jenning streets
Halloween Party at Great Northern	Sat 10/26/19	6:00 AM	Sun 10/27/19	9:00 PM	Utah Street between 16th and Alameda streets; 15th Street between Potrero and San Bruno avenues
CYC Events on Waverly	Sat 10/26/19	7:00 AM	Sat 10/26/19	7:00 PM	Waverly Place between Sacramento to Washington streets
American Indian Fashion Show	Sat 10/26/19	7:00 AM	Sat 10/26/19	7:00 PM	Fulton Street between Hyde and Larkins streets
Irving Fish Festival	Sat 10/26/19	8:00 AM	Sat 10/26/19	6:00 PM	Irving Street between 46th and 47th avenues
Neighborhood Block Party	Sat 10/26/19	9:00 AM	Sat 10/26/19	5:30 PM	Mirabel Avenue between Coso Avenue and Shotwell Street
Red Umbrellas Art Show	Sat 10/26/19	9:00 AM	Sat 10/26/19	6:00 PM	Maiden Lane between Stockton and Grant streets
Play Streets - Natoma	Sat 10/26/19	9:00 AM	Sat 10/26/19	6:00 PM	Natoma Street between 6th and 7th streets
Neighborfest Block Party	Sat 10/26/19	10:00 AM	Sat 10/26/19	4:00 PM	21st Avenue between Kirham and Judah streets
Neighborhood Block Party	Sat 10/26/19	10:00 AM	Sat 10/26/19	10:00 PM	12th Avenue between Judah and Kirkham streets
Neighborhood Block Party	Sat 10/26/19	11:00 AM	Sat 10/26/19	5:00 PM	17th Avenue between Wawona and Vicente streets
Glow in the Streets	Sat 10/26/19	11:30 AM	Sun 10/27/19	1:00 AM	Noe Street between Beaver and Market streets
Annual Balbooa Fright Fest 2019	Sat 10/26/19	12:00 PM	Sat 10/26/19	4:00 PM	39th Avenue between Balboa and Cabrillo streets
Neighborfest Block Party	Sat 10/26/19	12:00 PM	Sat 10/26/19	2:00 PM	Duncan Street between Church and Sanchez streets

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Faxon Halloween Party	Sat 10/26/19	12:00 PM	Sat 10/26/19	4:00 PM	Faxon Avenue between Ocean and De Montfort Avenue
Neighborfest Block Party	Sat 10/26/19	12:00 PM	Sat 10/26/19	8:00 PM	Los Palmos Drive between Foerster Street and Teresita Boulevard
Neighborhood Block Party	Sat 10/26/19	12:00 PM	Sat 10/26/19	11:00 PM	Cumberland Street between Dolores and Guerrero streets
UBI March [tentative - subject to change]	Sat 10/26/19		Sat 10/26/19		Civic Center Plaza to Market to Embarcadero Plaza [tentative - subject to change]
Fiesta on the Hill	Sun 10/27/19	6:00 AM	Sun 10/27/19	7:00 PM	Cortland Avenue between Folsom and Bocana Streets; Moultrie Street between Eugenia and Cortland streets; Ellsworth Street between Eugenia and Cortland streets; Intersections; Cortland Avenue at Gates, Ellsworth, Anderson, Moultrie, Andover, Wool and Bennington Streets
Neighborhood Block Party	Sun 10/27/19	9:00 AM	Sun 10/27/19	5:00 PM	37th Avenue between Moraga and Noriega streets
Neighborfest Block Party	Sun 10/27/19	9:00 AM	Sun 10/27/19	5:00 PM	7th Avenue between Lake and California streets
Neighborhood Block Party	Sun 10/27/19	9:00 AM	Sun 10/27/19	6:00 PM	15th Avenue between Irving Street and Lincoln Avenue
Neighborfest Block Party	Sun 10/27/19	10:00 AM	Sun 10/27/19	7:00 PM	34th Avenue between Fulton and Cabrillo streets
Neighborhood Block Party	Sun 10/27/19	11:00 AM	Sun 10/27/19	3:00 PM	Ewing Terrace between Masonic and Masonic Avenue
Neighborhood Block Party	Sun 10/27/19	11:00 AM	Sun 10/27/19	7:00 PM	Quintara between 10th Avenue and Easterly Terminus
Neighborfest Block Party	Sun 10/27/19	12:00 PM	Sun 10/27/19	5:00 PM	Waller Street between Webster and Fillmore streets
Neighborfest Block Party	Sun 10/27/19	1:00 PM	Sun 10/27/19	5:00 PM	Divesadero Street between Duboce and 14th street
Suns vs Warriors	Wed 10/30/19	7:30 PM	Wed 10/30/19	10:30 PM	Chase Center
NOPNA Halloween Block Party	Thu 10/31/19	3:00 PM	Thu 10/31/19	9:00 PM	Grove Street between Central and Baker streets; Lyon Street between Fulton and Hayes streets; Intersection: Lyon Street at Grove Street
Neighborhood Block Party	Thu 10/31/19	3:00 PM	Thu 10/31/19	10:00 PM	San Gabriel Avenue between Santa Rosa and Capistrano avenues
Neighborhood Block Party	Thu 10/31/19	4:00 PM	Thu 10/31/19	9:00 PM	Wawona Street between 14th and 15th avenues
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	Avila Street between Prado and Chestnut streets
Halloween Trick-or-Treat	Thu 10/31/19	4:00 PM	Thu 10/31/19	9:00 PM	43rd Avenue between Irving and Judah streets; 42nd Avenue between Irving and Judah streets; Irving Street between 42nd and 43rd avenues
Halloween Trick-or-Treat	Thu 10/31/19	4:00 PM	Thu 10/31/19	11:00 PM	Delano Avenue between Santa Ysabel and San Juan avenues
Juanita More Halloween	Thu 10/31/19	4:00 PM	Thu 10/31/19	11:00 PM	Fern Street bewteen Polk and Larkin streets
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	8:30 PM	Fair Oaks Street between 22nd and 26th streets
Halloween Block Party	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	Sunnydale Avenue between Hahn and Sawyer streets
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	Sanchez Street between 30th and Randall streets
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	Jordan Avenue between California Street and Geary Boulevard; Commonwealth Avenue between California Street and Geary Boulevard (no intersections closed)
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	28th Avenue between Lincoln and Irving streets
Halloween Trick-or-Treat	Thu 10/31/19	5:00 PM	Thu 10/31/19	9:00 PM	12th Avenue between Judah and Kirkham streets
Spurs at Warriors	Fri 11/1/19	7:30 PM	Fri 11/1/19	10:30 PM	Chase Center

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Golden Gate Half Marathon	Sat 11/2/19	4:00 AM	Sun 11/3/19	5:00 PM	Beach Street between Hyde Street and Westerly Terminus; Larkin Street between Beach Street and the Impark Parking lot Entrance; Van Ness Avenue (southbound traffic lanes only); Polk Street between Beach and North Point streets; North Point Street (access for EB buses) between Van Ness Avenue and Polk streets; Bay Street (westbound traffic lanes only) between Van Ness Avenue and Laguna Street; Laguna Street (northbound lanes only) between Beach and Bay Streets; Marina Boulevard (westbound lanes only) between Laguna Street and the Lyon Gate; Marina Boulevard (eastbound lanes) between Fillmore and Webster streets [for traffic valve]; Girard Road (westbound traffic lanes only) between Marina and Lincoln boulevards (101 on ramp closed)
UCSF Science Festival	Sat 11/2/19	9:00 AM	Sat 11/2/19	5:00 PM	Oracle Park; Terry Francois: 3rd to South
Hornets at Warriors	Sat 11/2/19	5:30 PM	Sat 11/2/19	8:30 PM	Chase Center
Neighborfest Block Party	Sat 11/2/19	10:00 AM	Sat 11/2/19	6:00 PM	Baker Street between Post and Sutter streets
Intergenerational Dance Party	Sun 11/3/19	6:00 AM	Sun 11/3/19	5:00 PM	Fulton Street between Larking and Hyde streets
The Commons on 1st Sunday	Sun 11/3/19	7:00 AM	Sun 11/3/19	6:00 PM	Fulton Street between Hyde and Larkins streets
Pawtrero's 13th Annual Dog Day Afternoon and Adoption Event	Sun 11/3/19	9:00 AM	Sun 11/3/19	4:00 PM	Brannan Street between Delancey Street and The Embarcadero
Neighborhood Block Party	Sun 11/3/19	10:00 AM	Sun 11/3/19	6:00 PM	3rd Avenue between Lake and California streets
Neighborhood Block Party	Sun 11/3/19	10:00 AM	Sun 11/3/19	7:00 PM	Gates Street between Cortland and Eugenia avenues
Trail Blazers at Warriors	Mon 11/4/19	7:30 PM	Mon 11/4/19	10:30 PM	Chase Center
School Event	Wed 11/6/19	8:00 AM	Wed 11/6/19	6:00 PM	Fulton Street between Larkin and Hyde streets
Neighborfest Block Party	Sat 11/9/19	10:00 AM	Sat 11/9/19	5:00 PM	Castenada Avenue between Magellan and Alton avenues
Red Umbrellas Art Show	Sat 11/9/19	9:00 AM	Sat 11/9/19	6:00 PM	Maiden Lane between Stockton and Grant streets
PlumpJack Foundation Party	Sat 11/9/19	9:00 AM	Sat 11/9/19	8:30 PM	Greenwich Street between Fillmore and Steiner streets
Music City Party	Thu 10/10/19	10:00 AM	Thu 10/10/19	9:00 PM	Fern Street bewteen Polk and Larkin streets
Veterans Alley Block Party	Sun 11/10/19	6:00 AM	Sun 11/10/19	8:00 PM	Shannon Street between Geary and O'Farrell streets
Jazz at Warriors	Mon 11/11/19	7:30 PM	Mon 11/11/19	10:30 PM	Chase Center
School Event	Wed 11/13/19	8:00 AM	Wed 11/13/19	6:00 PM	Fulton Street between Larkin and Hyde streets
Celtics at Warriors	Fri 11/15/19	7:30 PM	Fri 11/15/19	10:30 PM	Chase Center
Conga Connect West	Sat 11/16/19	6:00 AM	Fri 11/22/19	6:00 PM	Kaplan Lane between Clementina Street to Terminus
Salesforce Analytics at 111 Minna Gallery	Sun 11/17/19	12:00 AM	Fri 11/22/19	11:59 PM	Minna Street between New Montgomery and 2nd streets
Dreamforce 2019	Tue 11/19/19		Fri 11/22/19		Moscone Center
Concert at Oracle Park	Wed 11/20/19	6:00 PM	Wed 11/20/19	11:59 PM	Oracle Park
Red Umbrellas Art Show	Sat 11/23/19	9:00 AM	Sat 11/23/19	6:00 PM	Maiden Lane between Stockton and Grant streets
Neighborhood Block Party	Sat 11/23/19	11:00 AM	Sun 11/24/19	4:00 PM	Sunnydale Avenue between Hahn and Sawyer streets
Spartan Race	Sat 11/23/19		Sun 11/24/19		Oracle Park
Thunder at Warriors	Mon 11/25/19	7:30 PM	Mon 11/25/19	10:30 PM	Chase Center
Bulls at Warriors	Wed 11/27/19	7:30 PM	Wed 11/27/19	10:30 PM	Chase Center
Salvation Army Holiday Meal Delivery	Thu 11/28/19	5:30 AM	Thu 11/28/19	12:00 PM	Harrison Street (Southside parking and two most southerly traffic lanes only) between 9th Street and approximately 200 feet easterly
Thanksgiving Meal Delivery	Thu 11/28/19	6:00 AM	Thu 11/28/19	5:00 PM	Fairfax Avenue between Mendell and Keith streets
City Impact Thanksgiving Event	Thu 11/28/19	7:00 AM	Thu 11/28/19	5:00 PM	Jones Street between Eddy Street and Golden Gate Avenue; Taylor Street between Turk and Eddy streets
Thanksgiving	Thu 11/28/19		Thu 11/28/19		Advisory

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Macy's Holiday Tree Lighting Ceremony	Fri 11/29/19	5:30 PM	Fri 11/29/19	7:30 PM	Geary Street between Powell and Stockton streets; Post Street between Powell and Stockton streets
Critical Mass	Fri 11/29/19	6:00 PM	Fri 11/29/19	10:00 PM	Justin Herman Plaza to ?
St. Brendan School Boutique & Carnival	Fri 12/6/19	4:00 PM	Sat 12/7/19	7:30 PM	Ulloa Street between Waitham Way and Laguna Honda Boulevard
South End Rowing Club Holiday Party	Sat 12/7/19	6:00 AM	Sat 12/7/19	11:59 PM	Jefferson street between Hyde Street and westerly terminus
Red Umbrellas Art Show	Sat 12/7/19	9:00 AM	Sat 12/7/19	6:00 PM	Maiden Lane between Stockton and Grant streets
Santa Skivvies Run	Sun 12/8/19	6:00 AM	Sun 12/8/19	3:30 PM	Noe Street between Beaver and Market streets
SF Waldorf School Winter Fair	Sun 12/8/19	7:00 AM	Sun 12/8/19	6:00 PM	Washington Street between Broderick and Divisadero streets
Grizzlies at Warriors	Mon 12/9/19	7:30 PM	Mon 12/9/19	10:30 PM	Chase Center
GLIDE's Annual Holiday Grocery Bag Giveaway	Tue 12/10/19	7:00 PM	Wed 12/11/19	3:00 PM	Ellis Street between Leavenworth and Taylor streets; Jones Street between O'Farrell Eddy streets; Taylor Street (west side parking lane and most westerly traffic lane only) between Eddy and O'Farrell Streets; Intersection: Ellis Street at Jones Street
Knicks at Warriors	Wed 12/11/19	7:30 PM	Wed 12/11/19	10:30 PM	Chase Center
Verily Holiday Party	Fri 12/13/19	8:00 AM	Fri 12/13/19	11:59 PM	Stevenson Street between 5th and 6th streets
Twitter Holiday Party	Fri 12/13/19	3:00 PM	Sat 12/14/19	3:00 AM	12th Street between Market Street and South Van Ness Avenue
Private Holiday Event	Fri 12/13/19	5:00 PM	Fri 12/13/19	11:30 PM	John Maher Street between Front and Battery streets
MNHC Children's Christmas Party	Sat 12/14/19	7:00 AM	Sat 12/14/19	3:00 PM	Shotwell street between 16th and 17th streets
Neighborhood Block Party	Sat 12/14/19	2:00 PM	Sat 12/14/19	10:00 PM	De Haro Street between 23rd and 24th streets
Kings at Warriors	Sun 12/15/19	5:30 PM	Sun 12/15/19	8:30 PM	Chase Center
Pelicans at Warriors	Fri 12/20/19	7:30 PM	Fri 12/20/19	10:30 PM	Chase Center
Knights of Saint Francis' Live Nativity	Sun 12/22/19	8:00 AM	Sun 12/22/19	10:00 PM	Vallejo between Columbus and Grant avenues
Timberwolves at Warriors	Mon 12/23/19	7:30 PM	Mon 12/23/19	10:30 PM	Chase Center
Rockets at Warriors	Wed 12/25/19	2:00 PM	Wed 12/25/19	5:00 PM	Chase Center
Critical Mass	Fri 12/27/19	6:00 PM	Fri 12/27/19	10:00 PM	Justin Herman Plaza to ?
Suns at Warriors	Fri 12/27/19	7:30 PM	Mon 12/23/19	10:30 PM	Chase Center
Mavericks at Warriors	Sat 12/28/19	5:30 PM	Sat 12/28/19	8:30 PM	Chase Center
It's A New Day	Tue 12/31/19	5:00 AM	Thu 1/2/20	6:00 AM	Utah Street between Alameda and 16th streets; 15th Street between Potrero and San Bruno avenues; Alameda Street between Potrero and San Bruno avenues; San Bruno Avenue between 16th and alameda streets; Intersections: 15th Street and Alameda Avenue at Utah Street; San Bruno Avenue at 15th Street
Pistons at Warriors	Sat 1/4/20	5:30 PM	Sat 1/4/20	8:30 PM	Chase Center
Bucks at Warriors	Wed 1/8/20	7:30 PM	Wed 1/8/20	10:30 PM	Chase Center
Mavericks at Warriors	Tue 1/14/20	7:30 PM	Tue 1/14/20	10:30 PM	Chase Center
Nuggets at Warriors	Thu 1/16/20	7:30 PM	Thu 1/16/20	10:30 PM	Chase Center

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Chinatown Flower Fair	Fri 1/17/20	11:00 PM	Sun 1/19/20	11:00 PM	Grant Avenue between Broadway and Clay Street; Pacific Avenue between Stockton Street and Columbus Avenue; Jackson Street between Stockton and Kearny Streets; Washington Street between Stockton and Kearny Streets; Commercial Street between Grant Avenue and Kearny Street; Beckett Street between Pacific Avenue and Jackson Street; Ross Alley between Jackson and Washington Streets; Wentworth Place between Jackson and Washington Streets; Spofford Street between Washington and Clay Streets; Waverly Place between Washington and Clay Streets; Walter U. Lum Place between Washington and Clay Streets; Intersections: Pacific, Jackson, Washington, and Commercial Streets at Grant Avenue; Beckett and Wentworth at Jackson Street; Wentworth, Beckett, Spofford, Waverly and Walter U. Lum at Washington Street
Magic at Warriors	Sat 1/18/20	5:30 PM	Sat 1/18/20	8:30 PM	Chase Center
Jazz at Warriors	Wed 1/22/20	7:00 PM	Wed 1/22/20	10:00 PM	Chase Center
Pacers at Warriors	Fri 1/24/20	7:30 PM	Fri 1/24/20	10:30 PM	Chase Center
Choy Sun Doe Day	Sat 1/25/20	6:00 AM	Sat 1/25/20	6:00 PM	Grant Avenue between Broadway and Jackson Street
Neighborhood Block Party	Sat 2/1/20	12:00 PM	Sat 2/1/20	5:00 PM	48th Avenue between Moraga and Noriega streets
Kaiser Permanente Half Marathon	Sun 2/2/20	7:15 AM	Sun 2/2/20	12:00 PM	Oak Street between Stanyan and Broderick streets; Fell Street between Stanyan and Broderick streets; Baker Street between Hayes and Page streets; Masonic Street between Hayes and Page streets; Stanyan Street between Hayes and Page streets; Kezar Drive between Lincoln Way and Stanyan streets; Great Highway between Fulton & Skyline Boulevard
KTVU Broadcast of CNY Parade	Fri 2/7/20	5:00 AM	Sat 2/8/20	11:00 PM	Geary Street (most northerly lane only) between Stockton and Powell Streets; Stockton Street (westerly right turn lane only) between Post and Geary Streets; Geary Street (south side parking lane only) between Stockton and Powell Streets; Powell Street (most easterly lane only) from mid-block (bollards at ticket booth) to Geary Street; Geary Street (south side parking lane only between Parking Meter #s 440-03010 thru 440- 03110) between Powell Street and 130 feet westerly
Chinatown Community Fair	Fri 2/7/20	11:00 PM	Sun 2/9/20	11:00 PM	Grant Avenue between Broadway and Clay Street; Pacific Avenue between Stockton Street and Columbus Avenue; Jackson Street between Stockton and Kearny Streets; Washington Street between Stockton and Kearny Streets; Commercial Street between Grant Avenue and Kearny Street; Beckett Street between Pacific Avenue and Jackson Street; Ross Alley between Jackson and Washington Streets; Wentworth Place between Jackson and Washington Streets; Spofford Street between Washington and Clay Streets; Waverly Place between Washington and Clay Streets; Walter U. Lum Place between Washington and Clay Streets; Intersections: Pacific, Jackson, Washington, and Commercial Streets at Grant Avenue; Beckett and Wentworth at Jackson Street; Wentworth, Beckett, Spofford, Waverly and Walter U. Lum at Washington Street
KTVU Broadcast of CNY Parade	Sat 2/8/20	3:00 PM	Sat 2/8/20	11:00 PM	Geary Street between Stockton and Powell Streets
Chinese New Year Parade	Sat 2/8/20	5:00 PM	Sat 2/8/20	8:00 PM	Market to Kearny to Post to Sutter to Kearny
Lakers at Warriors	Sat 2/8/20	5:30 PM	Sat 2/8/20	8:30 PM	Chase Center
Heat at Warriors	Mon 2/10/20	7:30 PM	Mon 2/10/20	10:30 PM	Chase Center

Upcoming Temporary Street Closures

Event Name	Start Date	Start Time	End Date	End Time	Location
Rockets at Warriors	Thu 2/20/20	7:30 PM	Sat 2/29/20	10:30 PM	Chase Center
Pelicans at Warriors	Sun 2/23/20	5:30 PM	Sun 2/23/20	8:30 PM	Chase Center
RSA Conference	Mon 2/24/20		Fri 2/28/20		Moscone Center
Kings at Warriors	Tue 2/25/20	7:30 PM	Tue 2/25/20	10:30 PM	Chase Center
Lakers at Warriors	Thu 2/27/20	7:30 PM	Thu 2/27/20	10:30 PM	Chase Center
Chinatown YMCA Run	Sun 3/1/20	6:00 AM	Sun 3/1/20	11:00 AM	Walter E. Lum Place between Washington and Clay Streets
Chinatown YMCA Run	Sun 3/1/20	7:00 AM	Sun 3/1/20	9:30 AM	Grant Avenue between Pine Street and Pacific Avenue; Pacific Avenue between Grant Avenue and Stockton Street; Stockton Street (northbound traffic lane only) between Pacific Avenue and North Point Street; Northpoint Street (eastbound lane of traffic only) between Stockton Street and the Southbound Embarcadero; Southbound Embarcadero (bike lane and one lane of traffic only) between Northpoint and Washington Streets; Washington Street (one westbound lane of traffic only) between Southbound Embarcadero and Battery Street; Battery Street (most westerly lane of traffic only) between Washington Street and Pine Street; Pine Street (most northerly traffic lane only) between Battery Street and Grant Avenue; Kearny Street (most easterly parking and traffic lanes only) between Pine and Clay Streets
Wizards at Warriors	Sun 3/1/20	5:30 PM	Sun 3/1/20	8:30 PM	Chase Center
Raptors at Warriors	Thu 3/5/20	7:30 PM	Thu 3/5/20	10:30 PM	Chase Center
South End Rowing Club St. Patrick's Day Luncheon	Sat 3/7/20	6:00 AM	Sat 3/7/20	6:00 PM	Jefferson street between Hyde Street and westerly terminus
76ers at Warriors	Sat 3/7/20	5:30 PM	Sat 3/7/20	8:30 PM	Chase Center
Clippers at Warriors	Tue 3/10/20	7:30 PM	Tue 3/10/20	10:30 PM	Chase Center
Nets at Warriors	Thu 3/12/20	7:30 PM	Sat 3/21/20	10:30 PM	Chase Center
Hawks at Warriors	Wed 3/25/20	7:30 PM	Wed 3/25/20	10:30 PM	Chase Center
Thunder at Warriors	Sat 3/28/20	5:30 PM	Sat 3/28/20	8:30 PM	Chase Center
Spurs at Warriors	Sun 3/29/20	5:30 PM	Sun 3/29/20	8:30 PM	Chase Center
Nuggets at Warriors	Tue 3/31/20	7:00 PM	Tue 3/31/20	10:00 PM	Chase Center
Rock n Roll Half Marathon [setup and finish]	Sat 4/4/20	7:00 AM	Sat 4/4/20	6:00 PM	Beach Street between Polk and Hyde streets; Larkin Street between Beach and North Point streets; Jefferson Street from Hyde to westerly terminus
Rock n Roll Half Marathon	Sun 4/5/20	5:30 AM	Sun 4/5/20	11:30 AM	rolling closures: The Embarcadero - Mason - Bay - Laguna - Marina Blvd - Crissy Field
Google Cloud Next	Tue 4/7/20		Thu 4/9/20		Moscone Center
Cavaliers at Warriors	Wed 4/8/20	7:30 PM	Wed 4/8/20	10:30 PM	Chase Center
Trail Blazers at Warriors	Mon 4/13/20	7:30 PM	Mon 4/13/20	10:30 PM	Chase Center
Lesbians Who Tech Conference	Tue 4/21/20	6:00 AM	Sun 4/26/20	1:00 AM	Collingwood Street Lot and Castro Theatre Lot
Lesbians Who Tech Conference	Fri 4/24/20	12:01 AM	Sun 4/26/20	3:00 AM	18th Street between Castro and Collingwood streets
Neighborhood Block Party	Sat 4/25/20	9:00 AM	Sat 4/25/20	10:30 PM	6th Avenue between Judah and Kirkhan streets
Asian Art Museum Gala	Sat 5/2/20	6:00 AM	Sat 5/9/20	9:00 PM	Fulton Street between Hyde and Larkins streets
PGA Championship	5/11/2020		5/17/2020		Harding Park
Bay to Breakers	5/31/2020		5/31/2020		Advisory
ODC Theather Dance Festival	Thu 6/4/20	5:00 PM	Thu 6/4/20	10:00 PM	Shotwell Street between 17th and 18th streets
Escape from Alcatraz Triathlon	Sun 6/7/20	5:30 AM	Sun 6/7/20	1:00 PM	Marina Boulevard (westbound travel lanes only) between Scott and Lyon streets

Long-Term and Recurring Events

Event Name	StartDate	StartTime	EndDate	EndTime	Location	Notes
Castro Farmers' Market	Wed 3/6/19	2:00 PM	Wed 12/4/19	9:00 PM	Noe: Market to Beaver	Each Wednesday, 2 PM to 9 PM
Inner Sunset Farmers' Market	Sun 12/16/18	7:00 AM	Sun 12/8/19	3:00 PM	Irving Lot 2: 8th to 9th Avenues	Each Sunday, 7 AM to 3 PM
Divisadero Farmers' Market	Sun 1/27/19	8:00 AM	Sun 1/19/20	3:00 PM	Grove: Divisadero to Broderick	Each Sunday, 8 AM to 3 PM
Fillmore Farmer's Market	Sat 12/15/18	7:00 AM	Sat 12/7/19	2:00 PM	O'Farrell: Fillmore to Steiner	Every Saturday 7 AM to 2 PM
Mission Community Market	Thu 2/14/19	1:00 PM	Thu 11/14/19	9:30 PM	22nd St: Valencia to Mission; Bartlett: 21st to 22nd	Every Thursday 1 PM to 9:30 PM
La Pulguita Market	Sat 4/13/19	7:00 AM	Sat 3/28/20	4:00 PM	Julian Avenue between 14th and 15th streets	7 am to 4 pm each Saturday
Clement Street Farmers' Market	Sun 6/16/19	9:00 AM	Sun 6/21/20	2:00 PM	Clement: 2nd to 4th Avenues	Every Sunday 9 AM to 2:00 PM
Off the Grid: Minna	Wed 5/29/19	10:00 AM	Fri 6/5/20	3:00 PM	Minna: 5th to Mary	Each Wed & Friday, 10 AM to 3 PM
La Pulguita Market	Sat 8/31/2019	7:00 AM	7/21/2020	4:00 PM	Julian Avenue between 14th and 15th streets	7 am to 4 pm each Saturday

SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Procedures for preparation and submittal of Progress Payment Requests.

B. Related Sections:
1. Section 00 72 00 – General Conditions, Article 9, Payments and Completion.
2. Section 00 41 00 – Bid Form.
3. Section 01 29 73 – Schedule of Values.
2. Section 01 32 16 – Construction Progress Schedule.

1.2 SCOPE

A. Payment for the various items of the Schedule of Bid Prices, as further specified herein, shall include all compensation to be received by Contractor for furnishing all tools, equipment, supplies, and manufactured products, and for all labor, operations, overhead and profit, applicable taxes, and incidentals appurtenant to the items of Work being described, as necessary to complete the various items of work as specified and as shown on the Drawings. No separate payment will be made for any item that is not specifically set forth in the Schedule of Bid Prices, and all costs therefore shall be included in the prices named in the Schedule of Bid Prices for the various appurtenant items of Work.

B. Contract Prices shall be deemed to include all bonds and insurance, all appurtenances necessary to complete the required Work, including all costs for compliance with the regulations of public agencies having jurisdiction, including Health and Safety Requirements of the California Division of Industrial Safety and the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA), and including all costs for loss or damage arising from the Work, or from action of the elements, for any unforeseen difficulties which may be encountered, and for all risks of every description connected with the prosecution of the Work until Project Completion, also for all expenses incurred in consequence of the suspension or discontinuance of the Work as provided in the Contract.

C. Except as otherwise expressly stipulated in the Contract Documents, no payment shall be made for materials stored on or off site, and for materials not yet incorporated into the Work on site.

D. Neither the payment of any estimate nor of any retained percentage shall relieve Contractor of its obligation to make good all defective work or material.

1.3 BASIS OF PAYMENT

A. Unit Price Work
1. The City shall determine the quantities of Work to be paid for any item for which a unit price is fixed in the Contract.
2. Unless otherwise provided, determination of the number of units of Work so completed shall be based, as far as practicable, on the actual measurement or count made by the City Representative of the Work satisfactorily completed within the prescribed limits.

3. Measurement and computations shall be made by methods as the City may consider appropriate for the class of Work measured.
4. Should the actual quantities of Work performed under any unit price be greater or less than the estimated quantity stipulated on the Schedule of Bid Prices, or if an item of Work is deleted, the final Contract cost shall be adjusted by Change Order to reflect the actual quantities and actual costs including fixed costs for unit price items.

B. Lump Sum: When the estimated quantity for specific portions of Work is not indicated on the Schedule of Bid Prices and unit is designated as lump sum, payment will be on a lump sum basis for Work satisfactorily completed as set forth in the Specifications and shown on the Drawings.

C. Monthly payment requests shall be based upon information developed at monthly Application for Payment meetings and shall be prepared by Contractor. The approved Schedule of Values will be the basis for Contractor's payment requests.
1. No partial progress payment shall be made to Contractor until all cost information requested by the City is submitted and reviewed.
2. Submission of a progress schedule update in accordance with Section 01 32 16 for the same period of the progress payment application shall be a condition precedent to making the progress payment application.

1.4 APPLICATION AND SCHEDULE PROCEDURES

A. On the 25th of each month submit an itemized Application of Payment to the City Representative by email with all required supporting documents attached in PDF format or in other Windows file formats (except Certified Payrolls) covering the Work completed as of the date of the Application for Payment.
1. Submit a progress schedule update with each Application for Payment.
2. List each authorized Change Order executed prior to date of submission by Change Order Number and description, as for original items of work.
3. When the City requires substantiating data, Contractor shall submit suitable information with cover letter identifying Application of Payment number and date, line item by number and description.
4. Submit Certified Payrolls through the City's internet-based Project Reporting System. Refer to Paragraph 9.03M of the General Conditions.
5. Specify the desired Method of Payment, either electronic funds transfer or check.

B. Progress payments for the work performed under this Contract will be made in the manner described in Paragraph 9.03 of the General Conditions.
1. Progress payments will be based upon progress estimates by Contractor and verified by the City of the actual physical progress of the work, utilizing the Schedule of Values approved by the City.
2. Progress payments will be made on a monthly basis and no mid-monthly payments will be made regardless of the value of the work and material incorporated prior thereto.
3. Contractor shall certify its estimate of the quantities of the work completed, contained in the monthly progress payment estimate, by signing each such estimate prior to its submission.
4. Contractor shall submit Project Record Drawings as specified below under article "Project Record Drawings."
5. The City will make final determination if agreement cannot be reached on Contractor's progress payment request.

C. The City shall issue payments to Contractor through the City's electronic payment system. Contractor acknowledges and agrees to receive payment electronically through

this system. Contractor shall not be entitled to any additional cost or charge under this Contract for using or failing to use the electronic payment system. Nor shall Contractor be entitled to any additional cost or charge for delays or failures of the electronic payment system to complete a payment transaction.

D. Pursuant to California Public Contract Code Section 22300, Contractor may substitute securities for any money withheld by the City to insure performance under the Contract. Said securities shall be in a form and of a type acceptable to the City.
   1. At the request and expense of Contractor, securities equivalent to the amount withheld shall be deposited with City Controller or with a state or federally chartered bank as the escrow agent, who shall return such securities to Contractor upon satisfactory completion of the Contract.
   2. Securities eligible for investment under Public Contract Code Section 22300 shall be limited to those listed in Section 16420 of the Government Code and to bank or savings and loan certificates of deposit.
   3. Contractor shall enter into escrow agreement with City Controller for in-lieu construction payment retention provided by City, specifying amount of securities to be deposited, terms and conditions of conversion into cash in case of Contractor's default, and termination of escrow upon completion of Contract.
   4. Contractor shall be beneficial owner of securities substituted for monies withheld and shall receive any interest thereon.

1.5 PROGRESS ESTIMATES

A. Upon receiving Contractor's monthly progress payment application, the City will review progress breakdown and make adjustments to percent of completion of each item of Work.
   1. Monthly progress payments will be made based on the total value of Work items completed or partially completed, as determined by the City with participation of Contractor.
   2. Accumulated retainage will be shown as separate item in payment summary.

B. After approving the finalized Progress Payment Report, the City will commence payment processing electronically. The payments will be made in accordance with Contractor's specified Method of Payment.

1.6 PROJECT RECORD DRAWINGS

A. If requested by the City Representative, submit original and one (1) copy of the Project Record Drawings (As-Builts) with the monthly progress payments to the City Representative in the field for review. The original Record Drawings will be returned to the Contractor within fourteen (14) calendar days of submittal. The Contractor shall update the Record Drawings based on the City Representative's comments and resubmit the drawings for record. If the Record Drawings are not kept current or not furnished when specified herein, Progress Payments and if necessary the Final Payment will be withheld.

1.7 ELECTRONIC CERTIFIED PAYROLLS

A. In accordance with the requirements of Paragraph 9.03M of the General Conditions, Contractor shall submit certified payrolls to the City electronically via the City-selected Project Reporting System ("PRS"), an internet-based program. This submittal is required for Progress Payments as specified in this Section 01 20 00 - Price and Payment Procedures. In addition to data relating to weekly payroll information, the Contractor, Subcontractors and Suppliers shall enter in appropriate fields of the PRS information regarding new hires, including name and date hired of each new employee.

PART 2 – PAYMENT SCHEDULE

2.1 **Bid Item No. G-1: ALLOWANCE FOR CITY'S SHARE OF PARTNERING FACILITATION AND RELATED COSTS**

A. Refer to Section 01 21 00 – Allowances.

2.2 **Bid Item No. R-1: TRAFFIC CONTROL FOR ROADWAY WORK**

A. The contract lump sum price paid for traffic routing work includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals (including barricades, barriers, flag persons and other traffic control) and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing, and disposing of the components of the traffic routing work as shown on the plans; and doing all other work as specified in this Section 01 55 26 and applicable standards as referenced therein as specified in the applicable portions of the DPW Standard Specifications, and as directed by the City Representative. The traffic routing work satisfactorily performed will be paid for at the lump sum price bid therefore prorated over the duration of field construction, proportionally to the percentage of field construction completed to date.

2.3 **Bid Item No. R-2: TEMPORARY RETROFLECTIVE PAVEMENT MARKINGS**

A. All temporary tape traffic stripes and pavement markings including arrows, and word messages will be measured by linear feet as shown on the plans and/or as installed in the field. Four-inch (4") broken traffic stripes will be measured in linear feet including the gaps.

B. The four inch stripe will be the basis of measurement of wider temporary pavement markings such as 12-inches stop bars, 8-inches stripe, etc., and the total length will be measured as a four-inch stripe.

C. Temporary overlay pavement markers will be measured by the unit from the actual count layout in the field or ordered by the City Representative.

D. The contract unit price paid for temporary Traffic stripe, pavement markings and temporary overlay pavement markers shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing, replacing, maintaining, replacing, and removing temporary traffic stripes, markings, and markers.

E. Temporary stripe and temporary overlay markers furnished and satisfactorily installed will be paid for at the Contract unit prices for the computed quantities as determined by the measurement method specified above. Quantities may vary by more than 25%. No additional compensation will be paid in maintaining all temporary traffic stripes, and pavement markings.

2.4 **Bid Item No. R-3: FULL DEPTH PLANING PER 2-INCH DEPTH OF CUT**

A. Full Depth Planing Per 2-Inch Depth of Cut shall be measured for payment as follows:

1. Full depth planing per 2-inch depth of cut will be measured by square foot of roadway surface completed in place.

2. Areas will be determined by the limits shown on the drawings unless otherwise directed by the Engineer.

3. No deductions will be made from the Contractor's payment for the inlet or other casting area itself.

4. General Conditions Section 6.08, B & C shall not apply to Bid Item "Full Depth Planing Per 2-Inch Depth of Cut".

B. Full depth planing per 2-inch depth of cut, as specified in Section 32 01 16.71, will be paid for at the Contract unit price stated in the bid schedule for the computed quantities as determined by the measurement method specified above.

2.5 **Bid Item No. R-4: HOT MIX ASPHALT (Type A ½-Inch Maximum with Medium Grading)**

A. Hot Mix Asphalt paving shall be measured for payment as follows:

1. Furnish a certified daily summary weight sheet in addition to either a public weighmaster certificate or a private weighmaster's certificate showing the number of tons of hot mix asphalt placed.

2. Obtain the signature of the City Representative on the load tag for each load dumped on the job site and incorporated into the work. Payment will be made only on duplicate load slips delivered to the City Representative at the time of signature and delivery.

B. Hot Mix Asphalt (Type A, ½-Inch Medium Grading) installed and all necessary and/or required equipment and labor to install including trucking, as specified in Section 32 12 16, will be paid for at the Contract unit price stated in the bid schedule for the computed quantities as determined by the measurement method specified above.

2.6 **Bid Item No. R-5: 8-INCH THICK CONCRETE BASE**

A. 8-Inch Thick Concrete Base will be measured for payment by the actual area in square feet measured to the limits indicated on the Drawings, as specified in Section 32 13 13, and will be paid for at the Contract unit price per square foot stated in the Schedule of Bid Prices.

B. Saw cutting, removal and disposal of existing roadway base (concrete/asphalt/other), excavating, backfilling, preparation of subgrade to proper grade, compacting, and adjustment of manhole and catch basin frames and castings to new grade will be considered as Incidental Work.

C. The City Representative may determine exact locations of concrete base work and may increase or decrease measurements shown on the Drawings or establish new concrete base work in the field.

D. When concrete base is to be thickened at an edge in order to match the depth of a thicker adjacent pavement section, the thickened portion of the pavement shall be considered as Incidental Work.

2.7 **Bid Item No. R-6: HMA SPEED HUMP/CUSHION**

A. HMA Speed Hump/Cushion shall be measured for payment by the number of speed humps and/or speed cushions constructed.

B. HMA Speed Hump/Cushion includes full compensation for sawcutting and milling of existing pavement, placing materials, all equipment, labor, tools and incidentals to satisfactorily construct speed hump/cushion in place as specified in Section 32 17 19.

C. Separate payment is made for temporary pavement markings applied to speed hump/cushion.

2.8 **Bid Item No. R-7: 3 ½-INCH THICK CONCRETE SIDEWALK**

A. 3 ½-Inch Thick Concrete Sidewalk will be measured for payment by the square foot to the limits indicated on the plans, as specified in Section 32 13 13, will be paid for at the Contract unit price per square foot stated in the Schedule of Bid Prices.

B. Saw cutting and removal of existing concrete sidewalk, excavating, backfilling, preparing of subgrade to proper grade, compacting, removing tree roots as directed by the Bureau of Urban Forestry (BUF), installing reinforced steel bars in accordance with SFPW Standard Plan 96,608 revision 1, adjusting utility boxes in the sidewalk to finish grade, salvaging and reinstalling sidewalk plaques, grouting under and around street light poles and/or traffic signal poles shall be considered as Incidental Work. Waterproofing required for sub-sidewalk basements shall be installed as Incidental Work.

C. Restoration of building corners and stairways where the sidewalk elevation is lowered exposing the unpainted and unfinished building façade, including all Work and materials needed to match the existing surface in material and color, shall be considered as Incidental Work.

D. When concrete sidewalk is to be thickened at an edge in order to match the depth of a thicker adjacent pavement section or at the end of a sidewalk, the thickened portion of the pavement shall be considered as Incidental Work. Thickened concrete sidewalk at driveways shall be considered as Incidental Work.

2.9 **Bid Item No. R-8: 4-INCH OR 6-INCH WIDE CONCRETE CURB**

A. 6-Inch Wide Concrete Curb, including dropped curbs at driveways will be measured for payment by the actual length in linear feet of concrete curb measured along the face of curb indicated on the Drawings, as specified in Section 32 13 13, will be paid for at the Contract unit price per linear foot stated in the Schedule of Bid Prices.

B. 4-Inch Wide Concrete Curb, constructed at the back of sidewalk to keep existing landscape in-place, will be measured for payment by the actual length in linear feet of concrete curb measured along the face of curb indicated on the Drawings, and will be paid for at the Contract unit price per linear foot stated in the Schedule of Bid Prices.

C. Saw cutting, removal, and disposal of existing concrete curb, excavating, backfilling, form work, preparation of subgrade to proper grade, and compacting will be considered as Incidental Work. This Bid Item will not include the curb in combined curb and gutter.

D. The City Representative may determine exact locations of curb work, and may increase or decrease measurements shown on the Drawings or establish new curb work in the field.

2.10 **Bid Item No. R-9: COMBINED 6-INCH WIDE CONCRETE CURB AND 2-FOOT WIDE CONCRETE GUTTER**

A. Combined 6-Inch Wide Concrete Curb and 2-Foot Wide Concrete Gutter, including dropped curbs for curb ramps will be measured for payment by the actual length in linear feet measured to the limits along the face of curb indicated on the Drawings, as specified in Section 32 13 13, and will be paid for at the Contract unit price per linear foot stated in the Schedule of Bid Prices, even if the 6-Inch Wide Concrete Curb is poured separately.

B. Saw Cutting, removal and disposal of existing pavement and concrete curb, excavating, backfilling, survey work, form work, preparation of subgrade to proper grade, compacting, abandoning of existing catch basin, and adjustment of manhole and catch basin frames and castings to new grade as shown on the Drawings shall be considered as Incidental Work.

C. The City Representative may determine exact locations of combined curb and gutter work, and may increase or decrease measurements shown on the Drawings or establish new combined curb and gutter work in the field.

2.11 **Bid Item No. R-10: CONCRETE CURB RAMP WITH CONCRETE DETECTABLE SURFACE TILES**

A. Concrete Curb Ramp will be measured for payment by the number of each concrete curb ramp constructed, which includes the ramp, wings, warning bands, and cutting and installing concrete detectable surface tiles, as specified in Sections 32 13 13 and 32 17 34, will be paid for at the Contract unit price each stated in the Schedule of Bid Prices.

B. Saw cutting, removal and disposal of existing concrete sidewalk, curb and curb ramps for the construction and/or reconstruction of curb ramps, excavating, backfilling, survey work, form work, preparation of subgrade to proper grade, compacting, adjusting and/or tilting of catch basin frame and grating, relocating chain link fence, adjusting and/or rotating utility boxes in the sidewalk and/or gutter to finish grade, grouting under and around street light poles and/or traffic signal poles will be considered as Incidental Work.

C. Providing existing elevations at gutter conforms on the as-built drawings will be considered as Incidental Work.

2.12 **Bid Item No. R-11: RESET EXISTING BRICK SIDEWALK**

A. Reset Existing Brick Sidewalk will be measured for payment by the square foot to the limits indicated on the plans will be paid for at the Contract unit price per square foot stated in the Schedule of Bid Prices.

B. Saw cutting and removal of existing concrete sidewalk, excavating, backfilling, preparing of subgrade to proper grade, compacting, removing tree roots as directed by the Bureau of Urban Forestry (BUF), installing reinforced steel bars in accordance with SFPW Standard Plan 96,608 revision 1, adjusting utility boxes in the sidewalk to finish grade, salvaging and reinstalling sidewalk plaques, grouting under and around street light poles and/or traffic signal poles, and the moving and reinstalling of mail boxes shall be considered as Incidental Work. Waterproofing required for sub-sidewalk basements shall be installed as incidental work.

C. Only concrete sidewalk shown on the Drawings will be measured for payment. Concrete sidewalk required for pavement work for trench restorations not shown on the Drawings shall be considered to be Incidental Work.

D. Restoration of building corners and stairways where the sidewalk elevation is lowered exposing the unpainted and unfinished building façade, including all Work and materials needed to match the existing surface in material and color, shall be considered as Incidental Work.

E. When concrete sidewalk is to be thickened at an edge in order to match the depth of a thicker adjacent pavement section or at the end of a sidewalk, the thickened portion of the pavement shall be considered as Incidental Work. Thickened concrete sidewalk at driveways shall be considered as Incidental Work.

2.13 **Bid Item No. R-12: EXPOSED AGGREGATE SIDEWALK**

A. Exposed Aggregate Sidewalk will be measured for payment by the square foot to the limits indicated on the plans will be paid for at the Contract unit price per square foot stated in the Schedule of Bid Prices.

B. Saw cutting and removal of existing concrete sidewalk, excavating, backfilling, preparing of subgrade to proper grade, compacting, removing tree roots as directed by the Bureau of Urban Forestry (BUF), installing reinforced steel bars in accordance with SFPW Standard Plan 96,608 revision 1, adjusting utility boxes in the sidewalk to finish grade, salvaging and reinstalling sidewalk plaques, grouting under and around street light poles and/or traffic signal poles, and the moving and reinstalling of mail boxes shall be considered as Incidental Work. Waterproofing required for sub-sidewalk basements shall be installed as incidental work.

C. Only concrete sidewalk shown on the Drawings will be measured for payment. Concrete sidewalk required for pavement work for trench restorations not shown on the Drawings shall be considered to be Incidental Work.

D. Restoration of building corners and stairways where the sidewalk elevation is lowered exposing the unpainted and unfinished building façade, including all Work and materials needed to match the existing surface in material and color, shall be considered as Incidental Work.

E. When concrete sidewalk is to be thickened at an edge in order to match the depth of a thicker adjacent pavement section or at the end of a sidewalk, the thickened portion of the pavement shall be considered as Incidental Work. Thickened concrete sidewalk at driveways shall be considered as Incidental Work.

2.14 **Bid Item No. R-13: PULL BOX TYPE I (CONTINGENCY BID ITEM)****

A. Payment for furnishing and installing Pull Box Type I, including pavement restoration at pull box location and all incidental and related work will be made at the unit price bid therefor. Measured for payment per pull box satisfactorily installed in place. Refer to Section 26 05 00.

B. Removal and disposal of the existing pull box, and setting the new pull box to finished grade shall be considered as Incidental Work.

2.13 **Bid Item No. R-14: ADJUST CITY-OWNED MANHOLE FRAME AND COVER AND CATCH BASIN FRAME AND GRATE TO GRADE (CONTINGENCY BID ITEM)****

A. At locations of street resurfacing, the number and locations of manhole frames and catch basin and castings to be adjusted in the field will be as determined by a joint inspection of the Contractor and the City Representative before the start of milling operation.

B. Adjustment of existing manhole frames and catch basin and castings will be measured for each casting satisfactorily adjusted. Refer to Section 32 17 53.

C. At locations of street base, parking strip, gutter, sidewalk, catch basin, manhole, and curb ramp construction/reconstruction, adjustment of manhole frames and catch basin and castings to new grade will be considered to be Incidental Work, and the number of frames and castings to be adjusted will not be measured for payment.

D. This Bid Item will be paid for at the Contract unit price each stated in the Schedule of Bid Prices for the computed quantities as determined by the measurement method specified above.

2.14 **Bid Item No. R-15: ADJUST CITY-OWNED HYDRANT AND WATERMAIN VALVE BOX CASTING COVER TO GRADE (CONTINGENCY BID ITEM)****

A. At locations of street resurfacing, the number and locations of hydrant and water main valve box castings to be adjusted in the field will be as determined by a joint inspection of the Contractor and the City Representative before the start of milling operation.

B. Adjustment of existing hydrant and water main valve box castings will be measured for each casting satisfactorily adjusted. Refer to Section 32 17 53.

C. At locations of street base, parking strip, gutter, sidewalk, and curb ramp construction/reconstruction, adjustment of hydrant and water main valve box casting to new grade will be considered to be Incidental Work, and the number of castings to be adjusted will not be measured for payment.

D. This Bid Item will be paid at the Contract unit price each stated in the Schedule of Bid Prices for the computed quantities as determined by the measurement method specified above.

2.15 **Bid Item No. R-16: MOBILIZATION FOR PAVING WORK (Maximum 3% of the Sum of Bid Items R-1 through R-15)**

A. Refer to Section 01 21 53 - Mobilization/Demobilization Items.

2.16 **Bid Item No. R-17: DEMOBILIZATION FOR PAVING WORK (Maximum 2% of the Sum of Bid Items R-1 through R-15)**

A. Refer to Section 01 21 53 – Mobilization/Demobilization Items.

2.17 **Bid Item No. SW-1: TRAFFIC ROUTING FOR SEWER WORK**

A. The contract lump sum price paid for traffic routing work includes full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of the components of the traffic routing work as shown on the plans; and doing all other work as specified in this Section 01 55 26 and applicable standards as referenced therein as specified in the applicable portions of the DPW Standard Specifications, and as directed by the City Representative. Traffic routing work, satisfactorily performed, as specified, will be paid for at the lump sum price bid therefor, prorated over the duration of field construction, proportionally to the percentage of field construction completed to date.

2.18 **Bid Item No. SW-2: TRENCH AND EXCAVATION SUPPORT FOR SEWER WORK**

A. Trench and excavation support work, as specified, including adequate sheeting, shoring and bracing, dewatering (if necessary), etc., or equivalent method for the protection of life and limb, and conforming to applicable safety orders of OSHA and the State of California Division of Industrial Safety, will be paid for at the lump sum price bid therefor.

2.19 **Bid Item No. SW-3: STANDARD CONCRETE MANHOLE FOR 12-INCH TO 24-INCH DIAMETER SEWERS WITH FRAME AND COVER (PER SFDPW STANDARD PLAN 87,181)**

A. Concrete manhole with new frame and cover will be measured for payment by the number of each manhole satisfactorily constructed, complete in place, as specified in Section 33 33 00 and will be paid for at the unit price bid therefor.

2.20 **Bid Item No. SW-4: CLEAN AND MORTAR EXISTING MANHOLE**

A. Cleaning and mortaring existing manhole with 1-inch thick Calcium Aluminate Cementitious (CAC) Structural Rehabilitation Coating by the number of each satisfactorily completed in place as specified in Section 33 33 00 and 33 01 30.63 will be paid for at the unit price bid therefor.

2.21 **Bid Item No. SW-5, SW-6, SW-7 & SW-8: 12-INCH, 15-INCH, 18-INCH AND 21-INCH DIAMETER VCP SEWER ON CRUSHED ROCK BEDDING WRAPPED IN GEOTEXTILE FABRIC**

A. VCP sewer will be measured horizontally along the centerline as specified in Section 305.08 of SFDPW Standard Specifications for payment by the number of each linear foot satisfactorily constructed, complete in place, as specified in Section 33 33 00 and will be paid for at the price bid per linear foot.

2.22 **Bid Item No. SW-9: 6-INCH OR 8-INCH DIAMETER SIDE SEWER CONNECTION TO VCP MAIN SEWER (CONTINGENCY BID ITEM)****

A. Side sewer connections will be measured for payment by the number of each satisfactory side sewer connection, complete in place, as specified in Section 33 33 00, including all Incidental Work and will be paid for the unit price bid therefor.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.23 **Bid Item No. SW-10: TELEVISION INSPECTION OF EXISTING 6-INCH OR 8-INCH DIAMETER SIDE SEWERS AND 10-INCH DIAMETER CULVERTS LOCATED WITHIN LIMITS OF SEWER WORK (CONTINGENCY BID ITEM)****

A. Television inspection of existing side sewer and culvert located within main sewer work limits will be measured for payment by the number of each side sewer or culvert satisfactorily televised, as specified in Section 33 33 00, including all incidental work and will be paid for at the unit price bid therefor.

B. Pre-television inspection of existing side sewers or culverts is not required where replacement has been scoped on the SW-drawings. No payment will be made for pre-construction videotaping at these locations.

C. If the camera cannot be inserted through the existing side sewer vent or where vent does not exist, Contractor shall insert the camera into side sewer from main sewer trench. For accessing sewers to be lined, Contractor may need to deploy camera into side sewer internally from inside the main sewer.

D. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.24 **Bid Item No. SW-11: TELEVISION INSPECTION OF EXISTING 6-INCH OR 8-INCH DIAMETER SIDE SEWERS AND 10-INCH DIAMETER CULVERTS LOCATED OUTSIDE THE LIMITS OF SEWER WORK BUT WITHIN CONTRACT LIMITS (CONTINGENCY BID ITEM)****

A. Television inspection of existing side sewer and culvert located within the contract limits, but outside the limits of main sewer work will be measured for payment by the number of each side sewer or culvert satisfactorily televised, as specified in Section 33 33 00, including all incidental work and will be paid for at the unit price bid therefor.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.25 **Bid Item No. SW-12: CONSTRUCTION OR REPLACEMENT OF 6-INCH OR 8-INCH DIAMETER SIDE SEWER LOCATED WITHIN LIMITS OF MAIN SEWER WORK (CONTINGENCY BID ITEM)****

A. VCP side sewer construction or replacement located within main sewer work limits will be measured horizontally along the centerline as specified in Sections 306.07 & 307.07 of SFDPW Standard Specifications for payment by the number of each linear foot satisfactorily constructed, completed in place, as specified in Section 33 33 00 and will be paid for at the price bid per linear foot.

B. Mobilization, traffic routing work, earthwork, and restoration of T-trench related to this work shall be done as Incidental Work to this bid item.

C. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.26 **Bid Item No. SW-13: CONSTRUCTION OR REPLACEMENT OF 6-INCH OR 8-INCH DIAMETER SIDE SEWER LOCATED OUTSIDE THE LIMITS OF MAIN SEWER WORK BUT WITHIN CONTRACT LIMITS (CONTINGENCY BID ITEM)****

A. VCP side sewer construction or replacement located within contract limits, but outside the limits of main sewer work will be measured horizontally along the centerline as specified in Section 307.07 of SFDPW Standard Specifications for payment by the number of each linear foot satisfactorily constructed, completed in place, as specified in Section 33 33 00 and will be paid for at the price bid per linear foot.

B. Mobilization, traffic routing work, earthwork, and restoration of T-trench related to this work shall be done as Incidental Work to this bid item.

C. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.27 **Bid Item No. SW-14: 10-INCH DIAMETER VCP CULVERT (CONTIGENCY BID ITEM)****

A. VCP culvert replacement or construction located within the contract limits will be measured horizontally along the centerline as specified in Section 307.07 of SFDPW Standard Specifications for payment by the number of each linear foot satisfactorily constructed, completed in place, as specified in Section 33 33 00 and will be paid for at the price bid per linear foot.

B. Mobilization, traffic routing work, earthwork, and restoration of T-trench related to this work shall be done as Incidental Work to this bid item.

C. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.28 **Bid Item No. SW-15: CONCRETE CATCH BASIN WITHOUT CURB INLET AND WITH NEW FRAME AND GRATING (PER SFDPW STANDARD PLAN 87,188) (CONTINGENCY BID ITEM)****

A. Concrete catch basin with new frame, grating, and cast iron water trap per SFDPW standard plan 87,188 will be measured for payment by the number of each satisfactorily constructed, complete in place, as specified in Section 33 33 00 and will be paid for at the unit price bid therefor.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.29 **Bid Item No. SW-16: CAST IRON WATER TRAP FOR EXISTING CATCH BASIN INCLUDING CLEANOUT CAP (PER SFDPW STANDARD PLAN 87,194) (CONTINGENCY BID ITEM)****

A. Cast iron water trap will be measured for payment by the number of each cast iron water trap, satisfactorily furnished and installed, as specified in Section 33 33 00, including all Incidental Work will be paid for at the unit price bid therefor.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.30 **Bid Item No. SW-17: POST-CONSTRUCTION TELEVISION INSPECTION OF NEWLY CONSTRUCTED SIDE SEWERS AND CULVERTS (CONTINGENCY BID ITEM)****

A. Post-construction television inspection of newly constructed side sewers and culverts satisfactorily performed, as specified in Section 33 33 00, including all Incidental Work will be paid for at the unit bid price.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.31 **Bid Item No. SW-18: RECONSTRUCT PAVEMENT OUTSIDE OF SEWER T-TRENCH LIMIT AND OUTSIDE OF CONCRETE BASE WORK UNDER R-DRAWINGS WITH 8-INCH THICK CONCRETE BASE NECESSARY PER EXCAVATION CODE AS DIRECTED BY THE CITY REPRESENTATIVE (CONTINGENCY BID ITEM)****

A. 8-inch thick concrete base will be measured for payment by the square foot outside the sewer trench limit and outside of limits shown on R-drawings as required per "Regulations for Excavation and Restoring Streets in San Francisco" or as directed by the City Representative, and will be paid for at the price bid per square foot. Saw-cutting and removal of existing concrete base, excavating, backfilling, preparation of subgrade to the proper grade, and compacting shall be considered as Incidental Work.

B. Temporary ACWS is incidental to this item.

C. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00700, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.32 **Bid Item No. SW-19: EXPLORATORY HOLES OR POTHOLES (CONTINGENCY BID ITEM)****

A. After utility facilities have been field marked, Contractor shall pothole to locate possible conflicts prior to installing the new sewer facilities as incidental work and shall be compensated for additional potholes needed to 1) determine a new sewer alignment to avoid utility conflicts encountered through exploratory holes or to 2) locate underground facilities marked in the field that were not identified within the utility occupancy reference drawings.

B. Exploring holes or potholes for sewer work and as instructed by the City Representative will be measured for payment by the number of cubic yards of excavated material. Exploring hole or pothole dimensions are typically 4-feet by 4-feet by 6-feet, but may vary.

C. This Bid Item includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, required for demolition, excavation, earthwork, importing of backfill material as required, testing, restoration of existing surfaces, including concrete pavement and asphalt wearing course, and all incidental work required for providing test pits or potholes.

D. Payment for this Bid Item will be made at the Contract Unit Price per individual unit satisfactorily completed, as indicated in the Schedule of Bid Prices.

E. This bid item may be used to access side sewers for bypassing flow during main sewer lining work where no vent access is available.

F. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.33 **Bid Item No. SW-20: CONTROL DENSITY FILL BEDDING MATERIAL FOR SFWD FACILITIES ENCOUNTERED WITHIN THE SEWER TRENCH PRIOR TO BACKFILL (CONTINGENCY BID ITEM)****

A. Control Density Fill (CDF) bedding material, as directed by City Representative, will be measured for payment by the number of cubic yard, satisfactorily placed, as specified in Sections 33 11 28 and 31 23 33, including all incidental work will be paid for at the unit price bid therefor.

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.34 **Bid Item No. SW-21: DESIGN OF STRUCTURAL SUPPORT FOR SFWD FACILITIES ENCOUNTERED WITHIN SEWER TRENCH**

A. Structural support for San Francisco Water Department (SFWD) facilities encountered within the sewer trench, as specified in Section 33 11 28, including design and submittal, construction work and incidental work, will be paid for at the lump sum price bid therefor, prorated by the number of crossings supported under this bid item.

2.35 **Bid Item No. SW-22: TRANSPORTATION OF SURPLUS CALIFORNIA CLASS I (NON-RCRA) HAZARDOUS WASTE (SOILS) TO A CLASS I DISPOSAL FACILITY**

A. The transportation of surplus California Class I (non-RCRA) hazardous waste (soils) to a California Class I landfill or out-of-state equivalent for disposal, as specified in Section 02 81 10. Any excavated and surplus existing soil or excavated and unsuitable existing soil for reuse as backfill or other hazardous materials, found to be California Class I (non-

RCRA) hazardous waste shall be disposed of at a permitted a California Class I landfill or out-of-state equivalent.

B. Handling and transportation of existing soil within the project site or to the Contractor's intermediate staging area is incidental work and not covered by this bid item.

C. Transportation costs shall include all transportation, and other incidentals such as compliance with transportation regulations, scheduling, staging, loading and unloading times and fees, covering of trucks, preparation of hazardous waste manifests, multiple handling and loading, tractor and truck stand-by and idle times, transportation round trip times and rates, load charges, and delays or demurrage due to such scheduling.

D. Payment for this Bid Item will be made at the Contract Unit Price per US short ton as indicated in the Schedule of Bid Prices. For payment, the Contractor shall submit a copy of the fully signed hazardous waste manifests forms, as well as the weight tickets. If the final quantity varies by more or less than 25% of the estimated quantity specified, and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices shall apply to work under this bid item.

E. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be include in this bid item. The Contractor shall remove such materials prior to the transportation and disposal of soils.

F. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

G. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

2.36 **Bid Item No. SW-23: DISPOSAL OF SURPLUS CALIFORNIA CLASS I (NON-RCRA) HAZARDOUS WASTE (SOILS) TO A CLASS I DISPOSAL FACILITY**

A. The disposal of surplus California Class I (non-RCRA) hazardous waste (soils) to a California Class I landfill or out-of-state equivalent. Any excavated and surplus existing soil or excavated and unsuitable existing soil for reuse as backfill or other hazardous materials, found to be California Class I (non-RCRA) hazardous waste shall be disposed of at a permitted a California Class I landfill or out-of-state equivalent.

B. Disposal costs shall include all disposal costs such as the waste approval process, preparation of waste acceptance forms, weighing of the material, loading and unloading times, dump fees and taxes, profiling costs, landfill fees, and other incidentals.

C. Dump fees and taxes shall include (as applicable) all tipping fees, gate fees, county and local taxes, landfill recovery fee, landfill environmental & surcharge fee, and the CA Board of Equalization (BOE) Hazardous Waste Land Disposal fee. The CA Board of Equalization (BOE) Hazardous Waste generator fee (if applicable) will be paid by the City, and is not to be included in this bid item.

D. Payment for this Bid Item will be made at the Contract Unit Price per US short ton as indicated in the Schedule of Bid Prices. For payment, the Contractor shall submit a copy of the fully signed hazardous waste manifests forms, as well as the weight tickets. If the final quantity varies by more or less than 25% of the estimated quantity specified, and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices shall apply to work under this bid item.

E. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be include in this bid item. The Contractor shall remove such materials prior to the transportation and disposal of soils.

F. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

G. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

2.37 **Bid Item No. SW-24: TRANSPORTATION OF SURPLUS NON-HAZARDOUS SOILS (CLASS II & III) CALIFORNIA DESIGNATED WASTE (SOILS) TO A CLASS II & III DISPOSAL FACILITY**

A. Transportation of surplus non-hazardous soils (Class II & III) California Designated Waste (soils) at a permitted and certified landfill or an out-of-state equivalent, as specified in Section 02 81 10. Any excavated and surplus existing soil or excavated and unsuitable existing soil for reuse as backfill or other hazardous materials, found to be non-hazardous soils (Class II & III) California Designated Waste shall be disposed of at a permitted a California Class II & II landfill or out-of-state equivalent.

B. Handling and transportation of existing soil within the project site or to a Contractor's intermediate staging area is incidental work and not covered by this bid item.

C. Transportation costs shall include all handling, transportation, and other incidentals such as compliance with transportation regulations, scheduling, staging, loading and unloading times and fees, covering of trucks, preparation of non-hazardous waste manifests, multiple handling and loading, tractor and truck stand-by and idle times, transportation round trip times and rates, load charges, and delays or demurrage due to such scheduling.

D. Payment for this Bid Item will be made at the Contract Unit Price per US short ton as indicated in the Schedule of Bid Prices. For payment, the Contractor shall submit a copy of the fully signed non-hazardous waste manifests forms, as well as the weight tickets. If the final quantity varies by more or less than 25% of the estimated quantity specified, and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices shall apply to work under this bid item.

E. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be include in this bid item. The Contractor shall remove such materials prior to the transportation and disposal of soils.

F. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

G. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

2.38 **Bid Item No. SW-25: DISPOSAL OF SURPLUS NON-HAZARDOUS SOILS (CLASS II & III) CALIFORNIA DESIGNATED WASTE (SOILS) TO A CLASS II & III DISPOSAL FACILITY**

A. Disposal of surplus non-hazardous soils (Class II & III) California Designated Waste (soils) at a permitted landfill or an out-of-state equivalent, as specified in Section 02 81 10. Any

excavated and surplus existing soil or excavated and unsuitable existing soil for reuse as backfill or other materials, found to be non-hazardous soils (Class II & III) California Designated Waste shall be disposed of at a permitted a California Class II & III landfill or out-of-state equivalent.

B. Disposal costs shall include all disposal costs such as the waste approval process, preparation of waste acceptance forms, weighing of the material, loading and unloading times, dump fees and taxes, profiling costs, landfill fees, and other incidentals. Dump fees and taxes shall include (as applicable) all tipping fees, gate fees, county and local taxes, landfill recovery fee, and landfill environmental & surcharge fee.

C. Payment for this Bid Item will be made at the Contract Unit Price per US short ton as indicated in the Schedule of Bid Prices. For payment, the Contractor shall submit a copy of the fully signed non-hazardous waste manifests forms, as well as the weight tickets. If the final quantity varies by more or less than 25% of the estimated quantity specified, and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices shall apply to work under this bid item.

D. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be include in this bid item. The Contractor shall remove such materials prior to the transportation and disposal of soils.

E. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

F. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

2.39 **Bid Item No. SW-26: IMPORTED BACKFILL MATERIAL FOR SEWER WORK (CONTINGENCY BID ITEM)****

A. Contractor shall be paid for transporting imported backfill material to the work site related to the sewer work. Payment shall be made at the Contract Unit Price per unit cubic yard of backfill material

B. The final quantity may vary by more than 25% of the estimated quantity specified and General Conditions Document 00 72 00, Article 6.08 B & C with respect to adjustment of unit bid prices do not apply to work under this bid item.

2.40 **Bid Item No. SW-27: MOBILIZATION FOR SEWER AND DRAINAGE WORK (MAXIMUM 3% OF THE SUM OF BID ITEMS SW-1 THROUGH SW-26)**

A. Mobilization will be paid based on the entire contract, not individual locations. Excavation Permit Fee shall not be allowed to be included under this Bid Item.

B. Under mobilization, when the City Representative is satisfied that the Contractor is diligently pursuing commencement of work as stipulated in Section 01 21 53 will be paid 100% of the amount set aside in the Schedule of Bid Price.

C. Any extension of the Contract Time that may be granted will not of itself constitute grounds for a claim for additional payment under the Bid item

2.41 **Bid Item No. SW-28: DEMOBILIZATION FOR SEWER AND DRAINAGE WORK (MAXIMUM 2% OF THE SUM OF BID ITEMS SW-1 THROUGH SW-26)**

A. Demobilization will be paid based on the entire contract, not individual locations. Excavation Permit Fee shall not be allowed to be included under this Bid Item.

B. Under demobilization, when the City Representative is satisfied that the Contractor is diligently pursuing commencement of work as stipulated in Section 01 21 53 will be paid 100% of the amount set aside in the Schedule of Bid Price.

C. Any extension of the Contract Time that may be granted will not of itself constitute grounds for a claim for additional payment under the Bid item.

2.42 **Bid Item No. SW-29: ALLOWANCE TO REMOVE RAILROAD TRACKS, CABLE YOKES AND WOODEN TIES FROM WITHIN THE TRENCH IF ENCOUNTERED BENEATH THE PAVEMENT RELATED TO SEWER WORK**

A. Refer to Section 01 21 00 – Allowances.

2.43 **Bid Item No. SW-30: ALLOWANCE TO PERFORM NECESSARY WORK DUE TO UNFORESEEN CONDITIONS RELATED TO SEWER WORK AND DRAINAGE WORK**

A. Refer to Section 01 21 00 – Allowances.

2.44 **Bid Item No. SW-31: ALLOWANCE FOR UNFORSEEN ENVIRONMENTAL WORK**

A. Refer to Section 01 21 00 – Allowances.

2.45 **THE FOLLOWING WORK SHALL BE DONE AS INCIDENTAL WORK TO SEWER WORK:**

1. Investigating, locating by dye-testing, abandoning inactive side sewers, if any, and rodding of side sewers.
2. The channelization of cunette within the bottom of new and existing manholes.
3. Connections to and between sewers, structures and culverts.
4. Cleaning existing sewers by flushing with high velocity hydro-cleaning equipment prior to excavation and removal.
5. Cleaning and disposing of waste materials inside existing catch basins and storm water inlets that are located within the contract limits and will remain.
6. Furnishing and installing cleanout caps for new cast iron water traps in existing catch basins to remain.
7. Saw-cutting, removing and disposing of existing pavement, sewers and structures.
8. Street excavation, backfilling and compaction, satisfactorily performed.
9. Restoration of excavation in the landscaped areas, including backfilling and compaction.
10. Restoration of trench with temporary hot patch ACWS prior to resurfacing with final layer of asphalt concrete wearing surface.
11. Restoration of concrete base (T-trench restoration for all streets as detailed on SW-Drawing), parking strip, concrete curb, concrete sidewalk, median islands and landscaping within the sewer trench.
12. Restoration of pavement, speed bump, parking strip, curb, sidewalk, landscaping and driveway damaged by the Contractor or caused to be damaged due to the Contractor's defective shoring system will be done by the Contractor at own expense.
13. Furnishing and installing detection warning tape as detailed on SW-Drawing for trench restoration.

14. All cost of work in the remaining portions of Section 31 23 33, 32 12 16, 33 01 30.63, and 33 33 00 and shall be included as Incidental Work in the items of the bid schedule to which such work is appurtenant.
15. Prior to plugging and filling, provide a television inspection of existing sewer to locate active side sewers.
16. Plug and filling existing main sewer, sewer culverts and side sewers and/or removing existing manholes as indicated on contract plans.
17. Preparation of subgrade for paving to proper grade, including excavation, backfilling, and compacting shall be considered Incidental to the pavement restoration work.
18. Spray paint to be provided by Contractor to the City Representative to make all necessary markings at the project site.
19. Bypassing main sewer, side sewer, culvert, and storm drain line flow related to open-cut and pipe bursting work, if necessary.
20. Preserving Survey Monuments per City Order No. 187,005.
21. Re-establishing City Survey Monuments per City Order No. 187,005, if disturbed, and for which a bid item has not been provided.
22. Furnishing and installing AASHTO M288, Class 2, Non-Woven Geotextile Fabric.
23. Furnishing of television inspection DVD and log of existing side sewers and culverts.
24. Furnishing of post-construction television inspection DVD and logs for newly constructed main sewers, side sewers and culverts.
25. Furnishing of As-Built Drawings of the newly constructed and rehabilitated sewers.
26. Supporting and working around existing Governmental utilities, including but not limited to, San Francisco Water Department (SFWD), Auxiliary Water Supply System (AWSS), etc., encountered within the limits of the sewer trench.
27. Construction of cut-off walls.
28. Extension of side sewer connections to the new pipes within main sewer trench.
29. Furnishing and installing VCP stubs and knockout walls for future connections at newly constructed manholes.
30. Handling and transport of excavated materials on site.
31. Warning Tape

** Contingency Bid Items: For Contingency Bid Items, it is possible that none, some, all, or more of the estimated quantity provided on the Schedule of Bid Prices will be used. No adjustment in unit price will be made, and subparagraphs 6.08B and 6.08C of the General Conditions shall not apply regardless of actual quantities encountered. Bidder shall not use Contingency Bid Items, Allowances, or deletable Bid Items to fulfill the LBE subcontracting participation goal. However, Bidder shall calculate its proposed LBE subcontracting participation using the Total Bid Price (Base Bid), which includes contingency bid items and all other items that contribute to the base bid amount. Refer to CMD Attachment 1, Part III, for more details.

END OF SECTION

SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Allowances and procedures for doing allowance work.

1.2 PROJECT CONDITIONS

A. Allowances shall be done only when and as directed in writing by the City Representative.

B. Allowances shall cover the actual direct cost to Contractor of labor, materials and equipment delivered and installed at the site, required taxes and fees, less applicable trade discounts.

C. Contractor's costs for required on-site and off-site storage and security, loading and unloading, handling at the site, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in Contractor's Total Bid Price and not in the allowances unless indicated otherwise.

D. The amount given on Schedule of Bid Prices under each allowance item shall be the amount of funds set aside for each allowance. Said amounts shall be included in Contractor's Total Bid Price on the Schedule of Bid Prices.

E. Whenever costs are more than or less than allowances, the Contract cost will be adjusted by change order based on the difference between (1) actual costs and the allowances, and (2) changes in Contractor's costs. Contractor shall identify allowance item under which work is done on Contractor's progress schedule and application for payment.

F. Contractor's mark up for overhead and profit on allowance work shall be limited to 5%.

PART 2 - SCHEDULE OF ALLOWANCES

2.1 **Bid Item No. G-1: ALLOWANCE FOR CITY'S SHARE OF PARTNERING FACILITATION AND RELATED COSTS**

A. An allowance as shown in the Schedule of Bid prices will be used to reimburse the Contractor for the City's share of the costs associated with the partnering process in accordance with Section 01 31 33, Partnering Requirements and as directed by the City Representative.

B. The Contractor shall provide a cash allowance in the amount of **$10,000** for this work.

2.2 **Bid Item No. SW-28: ALLOWANCE TO PERFORM NECESSARY WORK DUE TO UNFORESEEN CONDITIONS RELATED TO SEWER WORK**

A. An allowance of **$50,000** as shown in the Schedule of Bid Prices will be paid as directed by the City Representative for performance of work necessary due to unforeseen conditions related to sewer work and drainage work. No mark ups and administrative costs will be included in this allowance. It is possible that some or all of the preset allowance amount may be used.

2.3 **Bid Item No. SW-29: ALLOWANCE FOR UNFORSEEN ENVIRONMENTAL WORK**

A. A preset allowance of **$50,000** as shown in the Schedule of Bid Prices will be paid as directed by the City Representative. It is possible that some or all of the preset allowance amount may be used.

B. This allowance is for work associated with the discovery unforeseen hazardous materials and its additional environmental testing, other unforeseen environmental work, and the transportation and disposal of surplus contaminated soils and excavated materials beyond bid quantities (that is not covered by the Contract as determined by the City Representative only).

C. The unused portion of the cash allowance shall be credited to the City. Mark up and profit for all tiers of sub-contracted work shall be limited to 5% each, with a maximum of two-tiers, and as approved by the City Representative.

D. Any unforeseen excavated and contaminated surplus existing soil or excavated and contaminated unsuitable existing soil for reuse as backfill shall be properly transported and disposed of at a permitted landfill or out-of-state equivalent, or a reuse facility and will be measured and paid based on the unit US ton.

E. Disposal costs shall include all disposal costs such as the waste approval process, preparation of waste acceptance forms, treatment of the material, weighing of the material, loading and unloading times, dump fees and taxes, profiling costs, landfill fees, and other incidentals. For payment, the Contractor shall submit copies of the fully signed non-hazardous or hazardous waste manifests forms, as well as the weight tickets.

F. Dump fees and taxes shall include (as applicable) all tipping fees, gate fees, county and local taxes, landfill recovery fee, landfill environmental & surcharge fee, and the CA Board of Equalization (BOE) Hazardous Waste disposal fee. The CA Board of Equalization (BOE) Hazardous Waste generator fee (if applicable) will be paid by the City, and is not to be included in this bid item.

G. Transportation costs shall include all handling, transportation, and other incidentals such as compliance with transportation regulations, scheduling, staging, loading and unloading times and fees, covering of trucks, preparation of hazardous or non-hazardous waste manifests, multiple handling and loading, tractor and truck stand-by and idle times, transportation round trip times and rates, load charges, and delays or demurrage due to such scheduling.

H. Handling, stockpiling, and transportation of excavated soil within the project site or to the Contractor's intermediate staging area is incidental work and not covered by this bid item.

I. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be include in this bid item. The Contractor shall remove such materials prior to the transportation and disposal of soils.

J. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

K. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 01 21 53

MOBILIZATION / DEMOBILIZATION ITEMS

PART 1 - GENERAL

1.1 SUMMARY OF WORK

A. This Specification Section outlines the Contractor's responsibilities for both mobilization and demobilization.

B. The work under the Mobilization Bid Item consists of preparatory work including, but not limited to, work necessary for the mobilizing and furnishing at the site, equipment, materials, supplies and incidentals; cost for pre-paid bonds and insurances; and for all other work and operations which must be performed or costs incurred to begin work on the various Bid Items at the project site. Compensation for mobilization includes, but is not limited to, the following principal items:

1. Permits: Refer to Section 00 73 00 - Supplementary Conditions; including Bureau of Street Use and Mapping (BSM) Excavation Permit and Bureau of Urban Forestry (BUF) Tree Removal or Relocation Permit.
2. Moving onto the site of all Contractors' equipment required for operations.
3. Installing temporary construction power and wiring.
4. Developing and installing construction water supply.
5. Providing all on-site communication facilities, including telephones.
6. Providing on-site sanitary facilities and potable water facilities.
7. Arranging for and erection of Contractor's work and storage yard(s), and installation of temporary construction fence.
8. Obtaining and paying for all required bonds and insurances including the bond required by Article 2.4 of the Public Works Code.
9. Having the Contractor's superintendent at the job site full time, whenever construction is in progress.
10. Submitting a Schedule of Values in accordance with Section 01 29 73 – Schedule of Values.
11. Preparation of plan and schedule for work affected by operations and events as required by Section 01 31 13 – Project Coordination.
12. Submitting preconstruction submittals, including Construction Schedule as specified in Section 01 32 16 – Construction Progress Schedule.
13. Photographic or video documentation of existing historic details prior to demolition as required by Section 01 32 33 – Photographic Documentation.
14. Preparation of Site-Specific Health and Safety Plan as required by Section 01 35 45 – Health and Safety Criteria.
15. Complying with Section 01 35 48 – Additional Clean Construction Requirements and preparation of all submittals required.
16. Complying with and submittals as required by Section 01 35 49 - Minimum Environmental Procedures.
17. Complying with and submittals as required by Section 01 35 50 – Additional Environmental Procedures.
18. Fabrication and erection of Project Signs as required by Section 01 50 00 – Temporary Facilities and Controls.

19. Conducting the pre-construction property survey required by Section 01 71 33 – Protection of Adjacent Construction.
20. Excavating, handling and management of site contaminated and hazardous soils, groundwater and storm water controls, environmental mitigation controls, imported backfill, and preparation of all submittals as required by Section 02 81 00 / 02 81 10 – Environmental Management of Excavated Materials.
21. Preparation of Dewatering as required by Section 31 23 19.
22. Complying with Section 33 24 00 - Groundwater Wells and preparation of all submittals required in this Section.
23. Posting all OSHA-required notices and establishing safety programs.
24. Complying with all applicable Cal/OSHA training requirements including the OSHA Certified 30-Hour Construction Training for the Project Safety Representative (PSR).
25. Developing, submitting, implementing, maintaining, and enforcing of a site-specific health and safety program and Injury and Illness Prevention Program (IIPP), designating a Project Safety Representative (PSR), and preparation of all submittals required as Section 01 35 45 - Health and Safety Criteria.
26. Determining and complying with all applicable health and safety requirements in accordance with applicable laws, rules, and regulations. The Contractor's responsibility for the health and safety, training, personal protective equipment (PPE), and monitoring and protection from exposure risks of its employees and subcontractors, as per federal, state and local statutes, laws and regulations.
27. Complying with the applicable provisions of current laws, regulations, codes, safety rules, and permits of the City and County of San Francisco, the State of California, the Federal Government, governing utility districts, and any other applicable authorities having jurisdiction over construction and completion of the Work, including but not limited to, the State Fire Marshall, Cal/OSHA and the State Construction Safety Orders, and the California Labor Code. Complying with regulatory criteria as per Section 01 41 00 Regulatory Requirements.
28. Complying with all applicable Federal, State, and local regulations in regard to Stormwater Pollution Prevention Controls, Stormwater Best Management Practices (BMP's), and erosion and sediment controls. Preparation and implementation of Stormwater Best Management Practices (BMP) stormwater, and erosion and sediment controls at construction site as required by as per Section 01 57 13 – Temporary Erosion and Sediment Controls (ESCP).
29. Implementing and complying with the Environmental Mitigation Measures for maintenance of the work area and debris/spill control, sewer pollution control, air pollution controls, clean construction requirements, construction dust requirements, Naturally Occurring Asbestos (NOA), noise controls, and water for construction usage. Implementation of all mitigation measures as per Section 01 35 50 – Additional Environmental Procedures and preparation of all submittals required in this Section.
30. Mandatory training in HAZWOPER, Cal/OSHA Asbestos Class II asbestos operations, Silica, and other environmental training covered in the above-mentioned Sections.

C. Demobilization work shall include, but not be limited to, the following principal items:

1. Demobilizing and removal of the Contractor's facilities and equipment.
2. Removing all project signs from project site, and removing all construction area signs, traffic handling and detour signs, and temporary traffic control devices from project vicinity.

3. Furnishing all required equipment installation certification forms, warranty documents and Operations and Maintenance (O&M) data and manuals and spare parts, special tools and keys.
4. Performing all required training sessions.
5. Performing and submitting all manufacturer installation checkouts.
6. Furnishing all information and completing all forms required by the San Francisco Contract Monitoring Division (CMD).
7. Reconcile any outstanding payroll issues with the Office of Labor Standards Enforcement (OLSE).
8. Reconcile any outstanding local hire issues with Office of Economic and Workforce Development (OEWD).
9. Preparing and submitting all final documents, including certified payroll, and other records of payments to suppliers and subcontractors, and lien releases/claims waivers required to close the contract within the time requirements.
10. Furnishing the Contractor's Final Updated Construction Drawings (Record Drawings).
11. Finishing all punch list work within the time requirements.
12. Furnishing all post-construction pipeline TV DVDs and logs.
13. Performing final site cleanup and restoration as required.
14. Providing signoffs from affected property owners and permitting agencies confirming that their requirements have been met.
15. Completing all specified close-out requirements per Specification Section 01 77 00 – Closeout Procedures.
16. Requesting final payment.

1.2 RELATED SECTIONS

A. Section 01 33 00 – Submittal Procedures

B. Section 01 50 00 – Temporary Facilities and Controls

C. Section 01 77 00 – Closeout Procedures

1.3 SUBMITTALS

A. Contractor shall submit drawings to scale indicating materials, details, and calculations for all permits in a format as required by the San Francisco Department of Public Works.

1.4 PAYMENT PROCEDURES

A. Payment for "Mobilization" shall be the fixed amount shown in the Schedule of Bid Prices and will be paid as a lump sum payment over the course of the project based on a percentage of completion.

Percentage Bid Item Mobilization	Percentage Project Completion
25%	2%
50%	5%
75%	10%
100%	20%

B. The retention of funds provisions in Paragraph 9.06 – Withholding Payment of the General Conditions apply to the sum of all the contract work done, including that under the Schedule of Values Bid Items "Mobilization & Demobilization."

C. Any extension of the contract time that may be granted will not of itself constitute grounds for a claim for additional payment.

D. Payment for "Demobilization" shall be the fixed amount shown in the Schedule of Bid Prices and will be paid upon completion of all items specified in section 1.1.C. No partial payments for demobilization will be made.

END OF SECTION

SECTION 01 25 13

PRODUCT SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Administrative and procedural requirements for handling requests for substitutions.

B. Related Sections:
1. Section 00 49 18 - Request For Product Substitution Form
2. Section 01 42 00 - References.

1.2 DEFINITIONS

A. Substitution: The proposed change by Contractor of a product, equipment, or service required by the Contract Documents is considered to be a request for substitution. The following are not considered to be requests for substitution:
1. Substitutions requested during the Bid period, and accepted by Addendum prior to opening of bids, are included in the Contract Documents and are not subject to the requirements specified in this Section.
2. Revisions to the Contract Documents requested by the City.
3. Specified options of products and construction methods included in the Contract Documents.
4. Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

1.3 REQUIREMENTS

A. Contractor's Total Bid Price for the work of this Contract shall be based on products, equipment items, or services listed by manufacturer's or supplier's name in the Technical Specifications.

B. For a product or manufacturer which is not specifically named, submit request for substitution. Where the terms "or equal", or "or approved equal," or similar references are used, submit request for substitution for product or manufacturer not specifically indicated or named in the Specifications.

C. Deviations from the Plans or Specifications shall not be the basis for any extra charges above the original Bid Price for the work. Substitution requests shall not be the basis for extra charges above Contractor's Bid Price for the work.

D. Contractor shall bear the cost of making all mechanical, electrical, structural, utility, or other changes required to accommodate the proposed substitution.

E. Substitutions described in this Section shall not be construed as submittals as described in Section 01 33 00 - Submittal Procedures.

1.4 SUBSTITUTIONS BY CONTRACTOR

A. Not later than 10 calendar days before the bid opening, or within 10 calendar days after the date of Award, the Contractor shall submit a complete typewritten list of proposed substitutions including the substituted manufacturer's name, trade name, and model

number (use Section 00 49 18). During the above time period, the City will consider formal requests for proposed substitutions only under the following conditions:

1. The burden of proof as to the type, function, and quality of proposed substitutions shall be upon the Contractor.
2. The City will determine the quality and utility of the Contractor's proposed substitutions. The City's decision shall be final.
3. The City may require the Contractor to furnish at the Contractor's expense, a special performance guarantee, or other surety with respect to any substituted product, equipment item, or service.
4. After the 10 calendar day period, requests will be considered only when a product becomes unavailable due to no fault of the Contractor. In such cases, all provisions of this Section shall continue to apply.
5. The City's costs for reviewing substitution requests submitted after the 10 calendar day period shall be deducted from progress payments due the Contractor. This charge will not apply in cases where the product, equipment item, or service has become unavailable due to no fault of the Contractor.
6. With respect to all cost savings afforded by Contractor's proposed substitution, if it should be necessary (due to product unavailability) to make a substitution of any product, equipment item or service after the 10 day limit described in Article 1.4, A, then fifty percent (50%) of such savings shall revert to the City and fifty percent (50%) shall revert to Contractor. All such savings shall be shown as a credit upon final negotiation of the actual Contract Lump Sum Price. Provide manufacturer's pricing information to document actual costs of the original and the substituted product(s).

B. Supporting Data: Provide complete data similar to that required for the product originally specified, including drawings, samples, literature, or detailed information sufficient to demonstrate that the proposed substitution is equal in quality and utility to the product or equipment originally specified.

1. Provide information regarding the effect of the substitution, if any, on the construction schedule.
2. Name and address of similar projects on which the substituted product or equipment has been used, and date of installation.
3. Complete breakdown of costs, indicating the amount to be deducted from the Contract Sum if the proposed substitution is accepted.
4. Signed statement that the proposed substitution is in full compliance with the Contract Documents and applicable regulatory requirements.
5. List of other work, if any, which may be affected by the substitution.
   a. Contractor shall be responsible for the effect of a substitution upon related work, and pay the additional costs generated thereby, including the City design services associated therewith.
6. Information on availability of maintenance service and source of replacement materials.
7. Sample of manufacturer's standard form of warranty or guarantee for the proposed substitution.
8. Where required, itemize comparison of proposed substitution with product or equipment specified and list significant variations.
9. Submit data relating to changes in contract schedule.
10. Include accurate cost data comparing proposed substitution with product or equipment indicated or specified and amount of net change in Contract Sum.
    a. Include costs to other Contractors and costs for revisions to Drawings, Details, or Specifications.
11. Provide complete details regarding changes in requirements for power or other support facilities, auxiliary equipment or structural modifications.

C. Manufacturer's Product Modifications: Submit a request for substitution in accordance with the above if the specified product or equipment model has been modified or improved by the manufacturer. If approved, the substitution shall be at no additional cost to the City, and all cost savings shall be credited to the City.

D. Substitutions will not be considered for acceptance when:
1. They are indicated or implied on submittals without a formal request from Contractor.
2. They are requested directly by a subcontractor or supplier.
3. It is specifically stated: "No Substitutions".

E. Substitutions required by inability to obtain products or equipment specified will not be acceptable grounds for increase in Contract Sum or time for completion of the Contract.

F. Substitute products, equipment, or services shall not be ordered without written acceptance by the City.

G. Notify the City at the time of request for substitution where use of substituted products, equipment, or services indicated or specified would delay completion of the Contract.

1.5 QUALITY ASSURANCE

A. Certify with each substitution request that Contractor:
1. Has investigated the proposed substitution and determined that it is equal to or superior in all respects to the product or equipment indicated or specified.
2. Will furnish the same warranty/guarantee or bond for the proposed substitution as for the product or equipment indicated or specified.
3. Will coordinate the installation of an accepted substitution into the Work and make such other changes as required to complete the work in accordance with the Contract Documents and applicable regulatory requirements.
4. Waives claims for additional costs associated with the substitution which may subsequently become apparent.
5. Will pay costs of changes to Contract Documents required by accepted substitutions.

1.6 PROJECT CONDITIONS

A. The City will receive and consider Contractor's request for substitutions only under the following conditions as determined by the City. If the following conditions are not satisfied, the City will return the request without action except to record noncompliance with the requirements.
1. The burden of proof as to the type, function, and quality of proposed substitutions shall be upon Contractor.
2. The City will determine the quality and utility of Contractor's proposed substitutions. The City's decision shall be final.
3. The City may require Contractor to furnish at Contractor's expense, a special performance guarantee, or other surety with respect to any substituted product, equipment, or service.
4. Extensive revisions to the Contract Documents are not required.
5. The substitution requested is consistent with the general intent of the Contract Documents.
6. The request is timely, fully documented, and properly submitted.
7. The specified product or equipment cannot be provided within the Contract Time as substantiated by written documentation from the supplier or vendor. The City will not consider the request if the product or equipment cannot be provided as a result of failure to execute the Work promptly or coordinate activities properly.

8. The specified product or equipment cannot receive necessary approval by a governing authority, and the requested substitution can be approved by the governing authority.
9. The specified product or equipment cannot be coordinated with other specified products or materials, and where Contractor certifies that the proposed substitution can be coordinated.

B. Failure of Contractor to provide substitution requests in a timely manner shall be sufficient cause for rejection by the City of any substitutions proposed.

C. Contractor's submittal and the City's acceptance of shop drawings, product data, or samples for work not conforming to the requirements of the Contract Documents shall not constitute an acceptable or valid request for substitution, nor do they constitute approval.

1.7 THE CITY'S ACTION

A. All substitutions shall require written approval by the City.

B. The City's approval of any substitution shall not relieve Contractor from compliance with all other requirements of the Contract Documents and for adequacy of the substituted items.

C. It shall be understood that:
1. The City will determine whether or not a product, equipment, or service is equal for the purpose intended in quality and utility to that specified. The City's acceptance of substitutions shall not be construed as relieving Contractor of its responsibility to comply with the requirements of the Contract Documents.
2. The decision of the City on all such questions of equality and acceptability of proposed substitutions shall be final.
3. No claim of any sort shall be made or allowed against the City, its agents or sub-consultants as a result of any final decision to accept or reject any proposed substitute product, equipment, or service.
4. Use the specified product or equipment if the proposed substitution is not accepted or if the City's decision is not received within the time specified above.

D. If necessary, the City will request additional documentation for evaluation within one week of receipt of a substitution request. Promptly provide the additional documentation requested. The City will notify Contractor of acceptance or rejection of proposed substitutions within 2 weeks of receipt of the additional documentation.

E. Contractor shall be responsible for all resultant changes and all additional costs which the accepted substitution requires in Contractor's work, the work of its subcontractors of all tiers and of other Contractors, and shall effect such changes without cost to the City.

F. If a proposed substitution is not accepted, use the product, equipment, or service originally specified or indicated.

1.8 DESIGN INTENT

A. In preparing these Specifications, the City has named those products which to his knowledge can meet the Specifications and are equivalent in construction, functional efficiency, and durability.

B. The first-named manufacturer is the basis for the project design and the use of alternative named, second-named, or unnamed manufacturers' products may require modifications in the project design and construction. If such alternatives are proposed by the

Contractor and are favorably reviewed by the City, the cost of all modifications including utilities and support systems will be borne entirely by the Contractor.

1.9 CONTRACTOR'S REPRESENTATION

A. Requests for substitution(s) constitute a representation that the Contractor:
1. Has investigated the proposed substitution and determined that it is equal to or superior in all respects to the product indicated or specified.
2. Will furnish the same warranty/guarantee or bond for the proposed substitution as for the product indicated or specified.
3. Will coordinate the installation of an accepted substitution into the Work and make such other changes as required to complete the work in accordance with the Contract Documents and applicable regulatory requirements.
4. Waives claims for additional costs associated with the substitution which may subsequently become apparent.
5. Will pay costs of changes to Contract Documents required by accepted substitutions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - General

1.1 SUMMARY

A. Section Includes: General procedural requirements for changes, modifications, and extras.

B. Related Sections:
1. 00 72 00 – General Conditions, Article 6
2. 01 20 00 – Price and Payment Procedures: Application Procedures
3. 01 31 13 – Project Coordination: Requests for Information
4. 01 33 00 – Submittal Procedures: Construction Schedule
5. 01 78 39 – Project Record Documents

1.2 MINOR CHANGES

A. Clarifications: The City will advise of minor changes in the Work not involving an adjustment to Contract Sum or Contract by issuing written interpretations or clarifications of the Contract Documents as the City deems necessary such as supplemental instructions on Request for Information (RFI) Form or by a written field order by the City Representative.
1. Refer to Section 01 31 13 – Coordination for procedures for requesting information or clarifications on Contract Documents.
2. Pursuant to Paragraph 6.03, Change Order Requests and Proposed Change Orders, of the General Conditions, such written interpretations and clarifications shall be binding on the City and Contractor. Promptly execute the work required by the City's written interpretation or clarification.

B. Notification: If Contractor believes that a written interpretation or clarification justifies an adjustment in the Contract Sum or Time, submit to the City Representative a request for Change Order therefore before beginning the work required by the written interpretation or clarification or within seven calendar days from the date of the City's response.

1.3 DOCUMENTATION

A. Document each quotation for a change in cost or time with sufficient data to allow evaluation of the quotation.

B. On request and within a reasonable period of time, provide additional data to support computations:
1. Quantities and type of products.
2. Labor breakdown by trade classification, wage rates, and estimated hours.
3. Equipment breakdown by type, size, rental rates, and equipment hours.
4. Taxes, insurance and bonds.
5. Mark-ups, including overhead and profit.
6. Justification for any change in Contract Time, including a schedule analysis identifying critical progress schedule activities delayed by the PCO.
7. Credit for deletions from Contract and work estimates of subcontractors, similarly documented.

C. Support each claim for additional costs, and for work done on a force account basis, with additional information:

1. Origin and date of claim.
2. Date of authorization for extra work by the City Representative as per Force Account Change Order issued to Contractor.
3. Dates and times work was performed, and by whom.
4. Time records and wage rates paid.
5. Invoices and receipts for products, equipment, and subcontracts, similarly documented.

D. Failure to properly document or provide supporting documents related to additional work or credit of a claim shall invalidate such claims or upon decision of the City, proceed with the City's best cost estimate of disputed additional work or credits.

E. Documentation, data preparation, and administration of change orders shall be considered as incidental work and no additional payment will be made therefore.

1.4 CHANGE PROCEDURES

A. The City may issue a Proposed Change Order (PCO) Memorandum which includes a detailed description of a proposed change with supplementary or revised Drawings and Specifications, and a change in Contract Time for executing the change if necessary.
1. Prepare and submit a cost proposal estimate to the City Representative for approval upon receiving a PCO within the number of calendar days per General Conditions Paragraph 6.03D, furnishing a complete breakdown of costs of both credits and extras, itemizing materials, labor, taxes, and mark-up for overhead and profit. Subcontract work shall also be indicated on the same form as for Contractor's breakdown.
2. Limit Contractor's and subcontractor's mark-ups to the maximum percentages as specified for force account work under Paragraph 6.06, Cost of the Change Order Work, of the General Conditions. Contractor's mark-up on work performed by a subcontractor shall be in accordance with Paragraph 6.06C of the General Conditions. No additional payment will be made by reason of performance of additional work by a subcontractor.
3. All requests for time extensions pursuant to Paragraph 7.02, Delays and Extensions of Time, of the General Conditions or claims for damages for delay caused by the City's processing of Change Orders will be reduced by the additional time in excess of that allowed for Contractor to submit a PCO cost proposal as provided herein, provided that the activity was shown on the critical path on the base line schedule.
4. Submit additional data as specified under Article "Documentation" as requested by the City Representative.
5. The City will review Contractor's cost proposal estimate and will negotiate the final terms of Change Order with Contractor.
6. Upon approval of PCO by the City, the City will issue Change Order directing Contractor to proceed with the change in the work.

B. Contractor may propose a change by submitting a request for a PCO number to the City, describing the proposed change and its full effect on the Work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation and a statement describing the effect on the Work schedule and operations.
1. Document any requested substitutions in accordance with Section 01 25 13.
2. Contractor's RFI submittal shall not constitute a request for change.

1.5 UNILATERAL CHANGE ORDER

A. When time does not allow for the Change Order to be negotiated through the PCO process, or when the City and Contractor are unable to agree on the cost or time required to

complete the change in the Work described in a PCO, the City may issue a document instructing the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order based on the City's estimate of costs, if any.

B. The document will describe changes in the Work, and will indicate the City's determination of any change in cost.

C. Promptly execute the change in Work.

D. If Contractor disagrees with the City's estimate of cost and time or other conditions of a Unilateral Change Order, Contractor shall submit a written protest in accordance with Paragraph 6.05, Unilateral Change Orders, of the General Conditions within 15 calendar days of its receipt and before proceeding with the required work.
   1. After the written protest has been filed and within 7 calendar days of completing said disputed work, submit a notice of potential claim for the cost differential between Contractor's actual cost and the City's estimate included in the Unilateral Change Order.
   2. Within 30 calendar days of the date of said notice of potential claim submit to the City Representative a claim with written documentation as specified under Article "Documentation".

1.6 FORCE ACCOUNT WORK

A. All Force Account work shall be witnessed, documented and approved in writing by the City on the day that the work is performed. No Force Account work that is not so reported to the City Representative will be paid by the City. The Contractor shall notify the City Representative in writing at least 24 hours in advance of its schedule before proceeding with the Force Account work. See also Section 00 73 00 - 1.5

B. Force account charges, a definite price for which has not been agreed on in advance, shall be recorded daily upon a Daily Force Account Report Form obtained from the City Representative.
   1. Contractor or authorized representative shall complete and sign Form.
   2. The Form shall provide an itemized account and supporting data and shall be countersigned by the City Representative.

1.7 EXECUTION OF CHANGE ORDERS

A. Execution of Change Orders: The City will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

B. The City shall have the right to audit all records in possession of Contractor relating to activities covered by Contractor.

1.8 CORRELATION OF CONTRACTOR SUBMITTALS

A. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.

B. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust time for other items of work affected by the change, and resubmit.

C. Promptly enter changes in Project Record Documents.

1.9 CONTINUING WORK DURING DISPUTES

A. The Contractor shall carry on and prosecute the work and maintain the progress schedule during all disputes and disagreements with the City. Time is of the essence. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as the City Representative and the Contractor may otherwise agree in writing.

B. The Contractor shall notify the City Representative at the beginning of each single day, shift, or phase before performing the disputed work. Failure to notify the City Representative at the beginning of each day, shift or phases will result in no verification of any work performed under dispute or disagreement. The Contractor and the City Representative shall agree upon the size and number of manpower, equipment, and materials for documentation at the end of every day, shift or phase until resolution or completion of the disputed work.

C. Submit a Disputed Work Report Form, obtained from the City Representative, on the day that work is performed if the City and Contractor disagree as to the City's determination of said work. See also Section 00 73 00 – 1.5

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 29 73

SCHEDULE OF VALUES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Submittal requirements, coordination, review and acceptance of the schedule of values for evaluating progress payment applications.

B. Related Sections:
1. 00 72 00 – General Conditions, Article 9, Payments and Completion
2. 01 20 00 – Price and Payment Procedures

1.2 SUBMITTAL REQUIREMENTS

A. Submit within 15 calendar days after the Notice to Proceed date but in no event later than 7 days before Contractor's initial application for payment, a schedule of values covering the lump sum items.

B. The schedule of values shall consist of a detailed cost breakdown of Contractor's Bid covering the Lump Sum Work and Lump Sum Items of Work by classification, in accordance with the Construction Specifications Institute's MasterFormat® (2010 Update) as represented by the Specifications Table of Contents.

C The specific format and detail shall be acceptable to the City Representative for estimating and evaluating progress payments, as follows:
1. An unbalanced schedule of values providing for overpayment of Contractor on items of work that would be performed first will not be accepted.
2. The sum of the individual costs listed in the schedule of values shall equal the lump sum price bid under the Bid Item in the Schedule of Bid Prices for the Work activity.
2. Provide breakdown in sufficient detail to facilitate continued evaluation of progress payment applications.
3. Show the total cost of each item of work including all labor, material, equipment, fixed cost elements, incidental expenses, and overhead and profit.
4. Overhead and profit shall not be listed as separate items.
5. Identify separate line items for temporary items, mobilization, final cleaning, operations and maintenance manuals, and start-up, adjusting and testing.
6. Coordinate the preparation of the schedule of values with Contractor's progress schedule.

1.3 REVIEW AND ACCEPTANCE

A. The City Representative will review and return Contractor's schedule of values with comments within 7 days of its receipt. Contractor shall make corrections requested by the City Representative and resubmit for approval within 3 days.

B. Final acceptance by City Representative shall indicate only consent to the schedule of values as a basis for preparation of applications for progress payments, and shall not constitute an agreement as to the value of each indicated item.

END OF SECTION

SECTION 01 31 13

PROJECT COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Provisions of coordination of the Work of the Contract and requesting clarifications and interpretations of the Contract Documents.

B. Related Sections:
1. 01 31 19 – Project Meetings.
2. 01 33 00 – Submittal Procedures.

1.2 GENERAL COORDINATION

A. Contractor shall be responsible for all project coordination.

B. Coordinate scheduling, submittals, and work of various sections to assure efficient and orderly sequence of installation of interdependent construction elements.

C. Coordinate the requirements for operation and maintenance data with suppliers and manufacturers of equipment and systems and the City to ensure timely delivery of required submittals in accordance with Section 01 33 00.

1.3 SUBCONTRACT COORDINATION

A. Coordinate the Work and do not delegate responsibility for coordination to any Subcontractor.

B. Anticipate the interrelationship of all Subcontractors and their relationship with the Work.

C. Resolve differences or disputes between Subcontractors, and other contractors concerning coordination, interference, or extent of work between sections of the specifications including assigned Contract work. Contractor's decisions, if consistent with the Contract Document requirements, shall be final.

D. Coordinate the work of Subcontractors so that their portions of the work are performed in a manner that minimizes interference with the progress of the Work.

1.4 ADMINISTRATION

A. General: Prepare a written memorandum on required coordination activities. Include such items as required notices, reports and attendance at meetings. Distribute this memorandum to each trade performing work at the project site. Prepare similar memorandum for separate contractors where interfacing of their work is required.

B. Coordination Meetings: Conduct general project coordination meetings with Subcontractors at least weekly at regularly scheduled times convenient for all parties involved. These meetings are in addition to specific meetings held for other purposes, such as regular project meetings and special preinstallation meetings. Request representation at each meeting by every party currently involved in coordination or planning for the work of the entire project. Keep the City informed about coordination meetings. Conduct meetings in a manner which will resolve coordination problems.

Record results and minutes of each meeting and distribute copies to everyone in attendance and to the City.

C. Submittals shall be submitted to the City using the City provided Submittal Control Form using the City numbering system. Requests for Information (RFI) shall be submitted to the City using the City RFI Form and numbered sequentially. All other Contract deliverables shall be submitted via sequentially numbered and dated transmittal. After Notice to Proceed, all other Contract required written communication shall be provided to the City via sequentially numbered letter.

Examples of communication to be provided via sequentially numbered letter include but are not limited to: notice of unforeseen or differing conditions, change order requests, notification before proceeding with force account work, notice of potential, anticipated, and/or actual delay, notification that Contractor considers work substantially complete and request for inspection, notification that Contractor considers work complete and request for certificate of acceptance, designation of responsible competent person, notice of potential claims, and contract claims.

All written communications including but not limited to Submittals, RFIs, transmittals, and letters shall include the Contractor's wet signature. Such written communications may be transmitted as attachments via email to the City Representative, provided wet signature originals are received by the City immediately following and no later than 7 calendar days from date of email.

1.5 REQUEST FOR INFORMATION (RFI)

A. Requirement: It is Contractor's responsibility to review Contract Documents a minimum of 30 days in advance of the work to be executed, and to request for information so that the City will have sufficient time to respond to Requests for Information prior to the start of actual construction of that part of the Work to which the RFI relates.

B. Form:
1. When an interpretation or clarification of the Contract Documents is required from the City, make the request on Form obtained from the City Representative.
2. Fill in all applicable information on the form.
3. Use one form for each request; limit the subject to one design discipline to expedite reply. Attach supplementary information where necessary.
4. The City will reply or give summary of reply on the same form and include supplementary information where necessary.
5. The completed form shall be the written record of each RFI.
6. Do not use any other RFI form on this Project.

C. Uses:
1. The RFI form shall be used for interpretation or clarification of the Contract Documents only.
2. Do not use the RFI form for the following; the City will not reply and will reject the RFI:
   a. Product or material substitution.
   b. Questions relating to construction means, methods, techniques, sequences, procedures or safety precautions. (These are Contractor's responsibilities exclusively.)
   c. Questions relating to construction schedule, coordination between trades, or division of work among subcontractors. (These are also Contractor's responsibilities exclusively.)
   d. Questions on contract administration procedural matters, unless they require interpretation or clarification of the Contract Documents.

e. Dimensions or quantities which are shown on the Contract Documents, or which can be measured from the building, or calculated from the information contained in the Contract Documents.
f. Confirmation of interpretations or clarifications previously provided by the City.
g. The City will reject requests for interpretations or clarifications of the Contract Documents which can reasonably be derived from a review of the Contract Documents.

D. Reply:
1. The City will endeavor to reply to all RFI's promptly, generally no later than 15 days from the day received.
2. When an RFI involves a complex subject, extensive research or development, or substantial input from other governmental agency, the City will inform Contractor and request additional time to prepare the reply. Contractor shall cooperate and agree to a reasonable time extension.
3. The reply shall be a clarification or an interpretation of the Contract Documents; the reply is not an authorization of change in the Contract Sum or Time.
4. Such written interpretation or clarification will be binding on Contractor and City. If Contractor believes that a written interpretation or clarification justifies an adjustment in the Contract Sum or Time, then Contractor shall make a written claim therefore as provided in Paragraph 6.03, Change Order Requests and Proposed Change Orders, of the General Conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 31 19

PROJECT MEETINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements and procedures for pre-construction and other project meetings to ensure quality of work.

1.2 GENERAL

A. The City Representative will arrange project meetings after consultation with Contractor and will inform the Contractor of the meeting time and location.

B. The Contractor's attendance is required at all meetings.

C. The City Representative will be responsible for taking the meeting minutes and providing the Contractor with a copy. The Contractor shall duplicate them and distribute the meeting minutes to the other participants of the meeting. There will be a fifteen-day limit for protesting items recorded in the minutes.

1.3 PRE-CONSTRUCTION CONFERENCE

A. Prior to commencement of Work, the City Representative will schedule and conduct a preconstruction conference.

B. Contractor shall be prepared to review and discuss the construction schedule and sequence of operations. The conference will be held at a time and location selected by the City Representative.

1.4 PROGRESS MEETINGS

A. The City Representative will schedule, prepare agenda, and administer meetings throughout progress of the Work at weekly intervals or more frequently, as required by the City Representative.

B. Attendance Required: Job superintendent, major Subcontractors and suppliers, as appropriate to agenda topics for each meeting.

C. Location: Project field office, unless otherwise notified.

D. Contractor shall provide a 3-Week Look Ahead Schedule.

1.5 PRE-INSTALLATION CONFERENCES

A. When required in individual specification Sections, Contractor shall convene a pre-installation conference at work site prior to commencing work of the Section.

B. Contractor shall require attendance of parties directly affecting, or affected by, work of the specific Specification Section.

C. Contractor shall notify City Representative four days in advance of meeting date.

D. City Representative will prepare agenda, preside at conference, record minutes, and distribute copies within two days after conference to participants, with two copies to Contractor.

E. Contractor shall review conditions of installation, preparation and installation procedures, and coordination with related work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 31 33

PARTNERING REQUIREMENTS

PART 1 - GENERAL

1.1 PARTNERING LEVEL

A. This Project shall incorporate the required partnering elements for **Partnering Level 1**.

1.2 SUMMARY

A. This Document specifies the requirements for establishing a collaborative partnering process. The partnering process will assist the City and Contractor to develop a collaborative environment so that communication, coordination, and cooperation are the norm, and to encourage resolution of conflicts at the lowest responsible management level.

B. The partnering process is not intended to have any legal significance or to be construed as denoting a legal relationship of agency, partnership, or joint venture between the City and Contractor.

C. This specification does not supersede or modify any other provisions of the Contract, nor does it reduce or change the respective rights and duties of the City and Contractor under the Contract, or supersede contractual procedures for the resolution of disputes.

1.3 DEFINITIONS

A. **Partnering Charter ("Charter"):** The Charter is the guiding focus for the Project Team. It documents the team's vision and commitment to work openly and cooperatively together toward mutual success during the life of the project. The charter helps to maintain accountability and clarity of agreements made and allows for broader communication of the team's distinct goals and partnering process. The partnering charter includes the following elements:

1. Mutual goals
2. Partnering maintenance and close-out plan
3. Dispute resolution plan with Escalation Resolution Ladder
4. Team commitment statement and signatures

B. **Collaborative Partnering:** A structured and scalable process made up of elements that develop and grow a culture (value system) of trust among the parties of a construction contract. Together, the combination of elements including the Partnering Charter, Executive Sponsorship, partnering meetings, an accountability tool for the Project Team (Scorecards), and a Facilitator, if employed, create a collaborative atmosphere on each project.

C. **Core Team Partnering:** On Level Four or greater construction projects, a core team is identified from those Project Team members who are a part of the project for its duration, including the following (not in order of hierarchy):

City:	Contractor:
Resident Engineer	Building Superintendent
Project Manager	Project Executive
Construction Manager	Jobsite Supervisor
Engineer, Architect	Project Engineer
Division Manager	Subcontractors
Construction Engineer	Key suppliers
Inspectors	Senior Management (e.g. Area Manager, Operations Manager, VP, President, Owner)
Client Department representative	
Critical third parties: stakeholders, other agencies, utilities, etc., or anyone who could potentially stop or delay the project.	

D. **Executive Partnering Team:** The senior leaders of the City and Contractor who may form a project board of directors and are charged with steering the project to success.

E. **Executive Sponsorship:** Commitment to and support of the partnering process from the senior most levels of the City and Contractor organizations.

F. **Field-Level Decision Making:** Decisions made by those who are running the day-to-day work in the field – this is typically the inspector or resident engineer.

G. **Internal Facilitator**: A trained employee or representative of the City who provides partnering facilitation services for Level 1, 2 or 3 projects.

H. **Kick-off Partnering Workshop:** The initial partnering session where the team develops their initial partnering Charter and officially starts the partnering process.

I. **Multi-Tiered Partnering** (Executive - Core Team - Stakeholder): Quarterly partnering workshops can be divided into multiple sessions including an Executive Session, Core Team Session and Stakeholder Session. For very large projects, a best practice is to use the Executive Team as a "project board of directors" who provide vision and steer the project. The Core Team is the central group of key individuals who are on the project throughout the duration.

J. **Partnering Level**: The desired level of engagement in the partnering process may vary depending on a Contract's size or a construction project's complexity, location or other risk factor. If a project encounters any of the following risk factors, the City may consider elevating the partnering process to the next higher level.

Level	Estimated Construction Amount	Complexity	Political Significance	Relationships
5	$200 million +	Highly technical and complex design & construction	High visibility/ oversight; significant strategic project	New project relationships; high potential for conflict (strained relationship, previous litigation, or high probability of claims)
4	$50 - $200 million	High complexity – schedule constraints, uncommon materials, etc.	Probable	New contractors or CM, new subs
3	$20 - $50 million	Increased complexity	Likely, depending on the location and other project characteristics	Established relationships; new CM, subs, or other key stakeholders
2	$5 - $20 million	Moderate complexity	Unlikely, unless in a place of importance	Established relationships; new subs, new stakeholders
1	$100,000 - $5 million	Standard complexity	Unlikely, unless in a place of importance	Established relationships; new subs, new stakeholders

K. **Partnering Meetings:** Formalized meetings focused on developing a collaborative culture among the Project Team. Teams use these meetings to, among other tasks, set project goals, define project commitments and attend joint training sessions.

L. **Professional Neutral Facilitator**: The mutually agreed upon experienced professional neutral facilitator whose business is providing partnering services for construction projects.

M. **Project Scorecards:** An accountability tool that allows project teams to measure how well they are doing at following through on commitments made to one another. Typically the scorecard is a confidential survey prepared and submitted to the team by the partnering facilitator, if any. The facilitator then compiles the responses into a report which is then sent out to the Project Team for review.

N. **Project Stakeholders:** Any person or entity that has a stake in the outcome of a construction project. Examples include the end users, neighbors, vendors, special interest groups, those who must maintain the facility, those providing funding, and those who own one or more of the systems.

O. **Project Team:** Key members from the City and Contractor organizations responsible for the management, implementation, and execution of the Project, and will participate in the Partnering process.

P. **Resolution Ladder:** A stepped process that formalizes the negotiation between the parties of a construction project. While actual titles may differ, the intent of this ladder is to provide a process that elevates issues up the chain of command between the parties involved in an issue. The objective is to resolve issues at the lowest practical level and to not allow individual project issues to disrupt project momentum. When an issue is escalated one level, it is expected that a special meeting focusing on the negotiated settlement for that issue will be called with the goal of settling as quickly as possible. A Sample escalation resolution ladder is shown below. A project resolution ladder will be developed during the Kick-off Partnering Workshop.

	Level	Awarding City Department	Contractor	Time to Elevate
Sample Resolution Ladder	I	Inspector or Resident Engineer	Foreman/ Superintendent	1 day
	II	Project Manager	Project Manager	1 week
	IIII	Program Manager	Area Manager	1 week
	IV	Division Manager	Operations Manager	2 weeks
	V	Deputy Department Director	Owner; President	2 weeks

Q. **Self-Directed Partnering:** The Project Team leads themselves through all of the Collaborative Partnering elements.

R. **Special Task Forces:** A subset of the Project Team that is assigned to take on a particular issue or opportunity for the good of the overall project.

S. **Stakeholder Team** (as in Multi-tiered Partnering): Those people who have a stake in the outcome of a construction project.

T. **Stakeholder on-boarding/off-boarding**: As a project progresses various systems and processes will be the focus. Stakeholders will participate when the systems or processes they are involved with are the focus. The stakeholders will step back when that system or process is no longer the focus. This on-boarding and off-boarding may occur throughout the duration of the Contract.

U. **Subcontractor on-boarding/off-boarding**: At the various stages of construction various key subcontractors (trades) as determined by City and Contractor will roll in and roll out as their work comes available and is completed.

V. **Third-Party Facilitator Agreement**: An agreement, appended to this Specification, to which the Professional Neutral Facilitator, the City and the Contractor are parties, which establishes a budget for fees and expenses of the Facilitator and workshop site costs, if any, and the terms of the Facilitator's role for this Project consistent with the requirements of this Specification.

1.4 PURPOSE/GOALS

A. The goals of project partnering are to:

1. Use early and regular communication with involved parties;

2. Establish and maintain a relationship of shared trust, equity and commitment;

3. Identify, quantify, and support attainment of mutual goals;

4. Develop strategies for using risk management concepts and identify potential project efficiencies;

5. Implement timely communication and decision-making;

6. Resolve potential problems at the lowest possible level to avoid negative impacts;

7. Hold periodic partnering meetings and workshops throughout the life of the project to maintain the benefits of a partnered relationship;

8. Establish periodic joint evaluations of the partnering process and attainment of mutual goals.

1.5 COSTS

A. The fees and expenses of the Facilitator and workshop site costs, if any, shall be shared equally by the City and the Contractor as set forth in the Third Party Agreement.

B. The Contractor shall pay the invoices of the Facilitator and/or workshop site costs after approval by both parties. Upon receipt of satisfactory evidence of payment of the invoices of the Facilitator by the Contractor, the City will then reimburse the Contractor for 50% of such invoices from a fixed cash allowance included as a bid item in the Bid Prices. No mark-up, overhead or other fees shall be added to the partnering costs. If the total cost of the partnering differs from the allowance amount, the Contract Sum shall be adjusted by Change Order for the difference between the total actual cost and the amount included in the Bid, as an additional amount due the Contractor or a credit to the City, as appropriate. If the Contractor fails or refuses to pay the Facilitator invoices, the City may pay such invoices and deduct the Contractor's portion from any amount that is due or may become due under the Contract.

C. With the exception of the Facilitators fees and workshop site costs described in subparagraph A above, all costs associated with the Partnering workshops and sessions, partnering evaluation surveys, or partnering skills trainings are deemed to be included in the Bid Prices.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PARTNERING INITIATION

A. The City Representative after award of Contract, but in no case longer than 30 days following Notice to Proceed, shall send Contractor a written invitation to enter into a partnering relationship. If a Professional Neutral Facilitator will be retained, the City and Contractor shall cooperatively and in good faith select a Facilitator as specified in subparagraph 3.3 below.

3.2 PARTNERING ELEMENTS

A. The required partnering elements for all levels of partnering include:

1. **Internal or External Professional Neutral Facilitator**. City and Contractor shall retain either an Internal Facilitator or a Professional Neutral Facilitator according to the process listed in subparagraph 3.3 below for the partnering meetings or workshops. If an Internal or External Professional Neutral is employed, the Facilitator shall be mutually agreed to by the City and Contractor.

2. **Kick-off Partnering Workshop**. The City, Contractor, and Facilitator if any, shall meet to mutually develop a strategy for a successful partnering process and to develop their initial partnering charter.

3. **Partnering Charter and/or mission statement.** The City and Contractor shall agree to create a partnering charter that includes:

(a) Mutual goals, including core project goals and may also include project-specific goals and mutually-supported individual goals. The required core project goals relate to project schedule, budget, quality, and safety.

(b) Partnering maintenance and close-out plan, including partnering session attendees and frequency of meetings.

(c) Dispute resolution plan that includes an Escalation Resolution Ladder.

(d) Team commitment statement and signatures.

4. **Minimum Two Partnering Workshops or Sessions** (including Kick-off Workshop). The partnering team may participate in additional workshops or sessions during the life of the project as they mutually agree is necessary and appropriate.

5. **Executive Sponsorship**. Commitment to and support of the partnering process from the senior most levels of the City and Contractor organizations.

6. **Resolution Ladder**. The City and Contractor shall mutually develop a project resolution ladder.

B. For Level 2 Projects add the following elements:

1. **Internal or External Professional Neutral Facilitator**. City and Contractor shall retain either an Internal Facilitator or a Professional Neutral Facilitator according to the process listed in subparagraph 3.3 below for the partnering meetings or workshops. If an Internal or External Professional Neutral is employed, the Facilitator shall be mutually agreed to by the City and Contractor.

2. **Minimum Two Project Scorecards**. City and Contractor shall participate in periodic partnering evaluation surveys to measure progress on mutual goals and short-term key issues as they arise.

C. For Level 3 Projects add the following elements:

1. **Professional Neutral Facilitator for Kick-off and Quarterly Partnering Sessions**. City and Contractor will retain a Professional Neutral Facilitator according to the process listed in subparagraph 3.3 below for the Kick-off partnering workshop and quarterly partnering meetings. Additional meetings, workshops, or sessions may be facilitated by a mutually agreed internal facilitator or may be self-directed.

2. **Quarterly Partnering Sessions**. The partnering team shall convene partnering sessions quarterly throughout the duration of Contract.

3. **Quarterly Project Scorecards**. City and Contractor shall participate in minimum quarterly partnering evaluation surveys (monthly recommended).

D. For Level 4 Projects add the following elements:

1. **Professional Neutral Facilitator**. City and Contractor will retain a Professional Neutral Facilitator according to the process listed in subparagraph 3.3 below.

2. **Multi-tiered Partnering (Executive – Core Team – Stakeholder)**. Partnering team will divide into smaller groups and convene multiple sessions including an Executive Session, Core Team Session and Stakeholder Session.

3. **Monthly Project Scorecards**. City and Contractor shall participate in monthly partnering evaluation surveys.

4. **Stakeholder On-Boarding/Off-Boarding**. Various key stakeholder groups will be invited to participate in partnering sessions as necessary throughout the duration of the project.

5. **Key Subcontractor On-Boarding/Off-Boarding**. Key subcontractors will be invited to participate in the partnering sessions as necessary as determined by City and Contractor as their participation in the project work becomes relevant.

E. For Level 5 Projects add the following elements:

1. **Monthly Partnering Sessions**. The partnering team will hold professionally facilitated monthly partnering sessions throughout the duration of project.

2. **Special Task Forces.** The partnering team may task a subset of the team to work on a particular issue or opportunity for the good of the overall project.

3.3 SELECTION OF A PROFESSIONAL NEUTRAL FACILITATOR

A. If a Professional Neutral Facilitator will be retained, the City and Contractor shall meet as soon as practicable after award of Contract, but in no case later than 30 days after the Notice to Proceed (NTP), to mutually select a Facilitator. The City and Contractor shall also schedule the Kick-off Workshop, determine the workshop site and duration, and agree to other administrative details.

B. The City, the Contractor, and the selected Facilitator shall execute a Third-Party Facilitator Agreement within 30 days of NTP.

C. The Facilitator shall lead the Kick-Off Partnering Workshop and other partnering sessions as necessary or required.

3.4 FACILITATOR QUALIFICATIONS AND REQUIREMENTS; EVALUATIONS

A. The Facilitator shall be trained in the recognized principles of partnering.

B. The Facilitator shall have the following professional experience and qualifications:

1. At least 3 years experience in partnering facilitation with a demonstrated track record, including public sector construction for a city or other municipal agency; and,

2. Skill set that may include construction management, negotiations, labor-management mediation, and/or human relations.

C. The Facilitator shall be evaluated by the partnering team: (1) at the end of the Kick-off Partnering Workshop; and (2) at the project close-out partnering session.

END OF SECTION

SECTION 01 31 34

APPENDIX A: THREE-PARTY FACILITATOR AGREEMENT

THIS AGREEMENT, dated for convenience as of the _____day of _____, 20___, is between the City and County of San Francisco (the "City"), acting by and through its Department of Public Works, _____ (the "Contractor"), and the following individual: _____, _____ _____(the "Facilitator").

Recitals

A. The City, by and through its Department of Public Works, has awarded to the Contractor public work Contract No. _____ (the "Contract") for the construction of a public work known as _____ (the "Project").

B. Included as part of the Contract is Section 01 31 33, Partnering Requirements, implementing a Partnering Facilitation procedure for the Project (the "Partnering Specification").

C. The Partnering Facilitator has been selected in conformance with the Partnering Specification.

Agreement

NOW THEREFORE, the City, the Contractor, and the Facilitator hereby agree as follows:

1. Compliance with Specification. The Facilitator agrees to be bound by the terms of the Partnering Specification and to perform the required duties strictly as set forth in the Partnering Specification. The Partnering Specification is incorporated here by reference as if fully set forth.

2. Compensation. The City and the Contractor agree that the Facilitator shall be compensated for his/her individual services as Facilitator at a billing rate of $_____ per hour. Compensation shall be paid at the stated billing rate, applied to travel time and reasonable study/consultation time and time spent in Partnering Workshops. Included in the billable rate shall be routine office expenses, such as secretarial, administrative, report preparation, telephone, computer, and internet connections.

3. Additional Compensation. Not included in the billable rate, and considered additional compensation, shall be any travel expenses, outside reproduction costs, and postage costs. Travel expenses must be approved in writing by both the City and the Contractor prior to being incurred. Outside reproduction and postage expenses may be billed at cost.

4. Invoices. The Facilitator shall submit to the Contractor invoices for work completed (a) not more often than once per month; (b) based on the agreed billing rate and conditions and on the number of hours expended, together with direct, non-salary expenses including an itemized listing supported by copies of original bills, invoices, and expense accounts; and (c) accompanied by a description of activities performed daily during the invoice period.

5. Confidentiality. The Facilitator shall not divulge any information acquired during Partnering activities without obtaining prior written approval from the City and the Contractor.

6. Recordkeeping. The Facilitator shall maintain cost records pertaining to this Agreement for inspection by the City or the Contractor for a period of three years following the end or termination of this Agreement.

7. Assignment. No party to this Agreement shall assign any duty established under this Agreement or the Partnering Specification.

8. Termination. This Agreement may be terminated only by mutual agreement of the City and the Contractor at any time upon not less than 10 days written notice to the Facilitator. If the Facilitator resigns, is unable to serve or is terminated, he/she will be replaced within four weeks in the same manner as he/she was originally selected under the Partnering Specification. This Agreement shall be amended to indicate the member replacement.

9. Legal Relations. The parties to this Agreement expressly acknowledge that the Facilitator, in the performance of his or her duties under this Agreement and the Partnering Specification, is acting in the capacity of an independent agent and not as an employee of the City or the Contractor. The Facilitator shall not participate in any dispute proceedings relating to the Contract or the Project. The City and Contractor release the Facilitator from any and all liability, claims, demands, actions and causes of action arising out of or resulting from partnering for the project. The release set forth above excludes any and all liability, claims, demands, actions and causes of action arising out of or resulting from fraud or willful misconduct by the Facilitator.

10. Jurisdiction and Venue. Disputes among the City, the Contractor, and the Facilitator arising out of this Agreement shall be brought in the California Superior Court, County of San Francisco. The Agreement shall be interpreted in accordance with the laws of the State of California. The Facilitator hereby consents to the personal jurisdiction of the California Superior Court, County of San Francisco.

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

[CONTRACTOR]

BY: _____
Name:
Title:

FACILITATOR

BY: _____

Approved as to form:
DENNIS J. HERRERA
City Attorney

BY: _____
Deputy City Attorney

END OF SECTION

SECTION 01 32 16

CONSTRUCTION PROGRESS SCHEDULES - CPM

PART 1 - GENERAL

1.1 SUMMARY

A. Scheduling of Work under the Contract shall be performed by Contractor in accordance with requirements of this Section.
   1. Development of Schedule Submittals shall employ computerized Critical Path Method (CPM) scheduling.
   2. The Baseline Schedule and Project Schedule Updates shall be cost and resource loaded based on the Schedule of Values as approved by the City.

1.2 RELATED SECTIONS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-01 Specification Sections, apply to this Section.

1.3 GENERAL REQUIREMENTS

A. CPM Schedule Submittals: Contractor shall submit the digital file with a .XER or .XML extension for all reviews, including but not limited to, the Baseline Schedule, Progress Schedule, Recovery Schedule, Notices of Delay, Time Impact Analysis, and all Claims.

B. Contractor is required to involve all subcontractors in the development, implementation, and updating process of its schedule.

C. Acceptance or approval of the CPM Schedule Submittals is of general nature only. Failure by Contractor to include any element of work required for the performance of this contract shall not excuse the Contractor from completing all work required within any applicable completion date, notwithstanding the City approval of the CPM diagrams. Items missing from the schedule after City approval are assumed to be incidental work, and at not cost to the city the Contractor may submit a revised schedule to include these items. The revised schedule is subject to review and approval by the City as described in "Revised Schedule" clause. No extension of time will be granted because of errors or omissions on the schedule. It is Contractor's responsibility to incorporate all necessary activities to cover the work required by the Contract Documents.

D. The Baseline Schedule and analysis when approved by the City shall constitute the official project work schedule throughout the construction period. No alteration of the logic, duration of activities, etc. will be allowed without the approval of the City.

1.4 SUBMITTALS

A. The Baseline Schedule, Progress Schedule Update, Revise Schedule, Recovery Schedule, and reports prepared by Contractor shall be used for planning, organizing, directing, controlling, and reporting all work required by the Contract Documents.

B. The CPM Schedule Submittals shall be at a minimum of three (3) hard copies and a CD-ROM in a case, or other acceptable digital format. Digital submittal shall be the original and editable file with a .xer or .xml file extension.

C. The timely submission of the following is required:

1. Digital copy and three (3) hard copies of the Baseline Schedule fourteen (14) calendar days prior to commencing the Work of the Contract;
2. Progress Schedule Update including written narrative as per specifications on a monthly basis;
3. Activity Schedule on a weekly basis at the weekly progress meetings;
4. Revised schedule within ten (10) working days when requested by the City;
5. Resubmittal of any rejected Baseline Schedule, Progress Schedule Update, or revised schedule within five (5) working days after receipt of the returned schedule marked "RESUBMIT," if necessary;
6. Daily Construction Reports, per section 1.11 of this specification.

D. Failure to comply with timely submission of any schedule will be just cause to withhold the progress payment of any portions thereof by the City and will trigger liquidated damages listed in Section 00 73 02.

E. Schedule Reviews: Unless otherwise stated, the City will review and respond to scheduling submittals within ten (10) working days after the submittal is received. If the schedule is not accepted, Contractor shall re-submit within five (5) working days after receipt of the City's response if changes or additional information is requested. This review and resubmittal cycle will repeat until the schedule has been accepted by the City.

1.5 PLAN OF OPERATION

A. At the Pre-Construction Conference, the Contractor shall submit for the City's review a Plan of Operation for the first 60 days of the Contract commencing after the Notice to Proceed. This schedule shall serve the project schedule needs until the Baseline Schedule has been accepted. Sufficient detail shall be included for the identification of submittals, permits, equipment procurement, construction activities.

1.6 CPM SCHEDULE SUBMITTALS

A. The CPM Schedule shall be prepared by Contractor using the precedence method of network diagramming.

B. Time Scaled Graphic network diagram showing the critical path shall not be larger than 24" x 48".

C. Activity Description: Each Activity shall have a unique narrative description consisting of a work function and location.

D. All submittals that require City review and approval shall be incorporated in the CPM Schedules.

E. All Activities shall have succeeding Activities except Work completion. At least one successor shall be a FF or FS relationship.

F. Contractor shall disclose in detail how weather delays, as specified in the General Provisions of the Contract, will be incorporated into the Baseline Schedule. Contractor must keep a current "weather delay registry" that would be reviewed and agreed to by both parties during the Monthly Schedule Update submittal process.

G. Contractor shall furnish the following computer-generated reports with the project identification, schedule and run date, and sort-type on the first page of each report.

1. List of all activities sorted by total float including ES, LS, EF, LF, and Total Float duration.
2. List of all activities sorted numerically including ES, LS, EF, LF, and Total Float duration.
3. List of all activities sorted numerically including ES, LS, EF, LF, Total Float duration, and Predecessor/Successor information of precedence network.
4. List of all activities sorted by responsibility including ES, LS, EF, LF and Total Float duration.
5. List of activities on the critical path sorted numerically including ES, LS, EF, and LF.
6. List of near critical activities (activities with total float less than ten (10) working days) sorted numerically including ES, LS, EF, and LF.

H. All CPM activity time duration in working days shall be specified in five (5) day work weeks excluding holidays to be identified by Contractor, unless specifically allowed by the Contract.

I. A maximum of fifteen (15) days duration shall be given to each CPM construction activity. Any activity in excess of the fifteen (15) days shall be broken down in detail so that each detail activity will not exceed the fifteen (15) days maximum.

1.7 BASELINE SCHEDULE

A. Fourteen (14) calendar days prior to start of Work, Contractor shall furnish a Baseline Schedule showing in detail the proposed sequence of activities. The City will not process any progress payments until the required schedule is submitted and accepted by the City.

B. The Baseline Schedule shall be calendar-based, using a precedence method network diagram in the CPM format indicating the critical path for the execution of the work utilizing the entire contract time.

C. Baseline Schedule shall include the following tabulated information for each Activity:

1. Activity beginning and ending event numbers
2. Estimated duration in working days
3. Trade code (responsibility code including Contractor, all Subcontractors, Supplier, and Owner)
4. Early start date (ES) and early finish date (EF) (calendar dated).
5. Late start date (LS) and late finish date (LF) (calendar dated).
6. Print the total and free float for each activity.

D. The network diagram(s) level of detail shall include but not be limited to:

1. Required approvals, permits, notices, etc. necessary for Contractor's execution of the proposed work.
2. Preparation of shop drawing and working drawing submittals.
3. Administrative activities, procedures, and subsidiary actions that will affect the critical path, such as submittal and review of shop drawings, substitutions, alternative construction methods or alternative designs, and submittal to and review by the City and all utility companies involved including a schedule for coordination of all utility relocation work necessitated by Contractor's operations.
4. Procurement of materials and equipment including ordering, fabrication, and delivery.
5. Construction activities and sub activities tasks, including all activities shown on the Schedule of Values.
6. Order and delivery of long lead items.

7. Approvals and permits required by regulatory agencies or other third parties.
8. Schedules for Subcontractor's Work, including engineering and design services.
9. Actual tests, submission of test reports and approval of test results.
10. Testing, training and assistance required under the Contract.
11. Punchlist and final cleanup.
12. Scheduled completion date shall be as specified within the time allowed.

E. The Baseline Schedule shall provide a practical schedule of activities performed within the specified contract completion time and within the contract bid price to complete the Work. A schedule extending beyond the contract completion date will not be accepted.

F. Contractor shall incorporate all Milestones into the Baseline Schedule. These include, but are not limited to Substantial Completion and Milestones. These are unique zero (0) duration Activities containing corresponding dates and logic ties. Designate these Activities as start or finish Milestones. If necessary, utilize constraints of "start on or after" or "finish on or before" for Contract requirements. The use of float suppressing date constraints including "start on," "finish on," "mandatory start," and "mandatory finish" are not allowed.

G. In preparing the Baseline Schedule, Contractor shall consider the nature and complexity of each submittal and shall allow ample time for review, revisions or corrections. Under no circumstances will an extension of time be given for any submittal for which a re-submittal is required and a re-submittal time was not included in the Baseline Schedule.

H. Time impacts resulting from submittals and re-submittals of shop drawings are Contractor's responsibility.

I. All constraints, dates, and lags will require the City's approval. All activities shall have succeeding activities except project completion. Contractor shall demonstrate the necessity of having any dummy activities.

J. Negative float will not be allowed on the Baseline Schedule on the initial submittal. Initial Baseline Schedule with negative floats shall be rejected immediately. Contractor shall provide sufficient manpower (multiple crews) and maximize working hours (extended hours and /or weekend work) to perform the required work within the specified completion time and contract bid price.

K. The Baseline Schedule's critical activities shall not exceed fifteen percent (15%) of the total number of activities. Critical activities are those which have the least float.

L. Submit a written narrative with the Baseline Schedule that discusses basic assumptions, productivity and installation rates, construction staging plans, maintenance of traffic quantities, manpower and crew development, construction equipment planned, and other element related to developing the schedule.

1. Explain Activity durations and describe Contractor's approach for meeting Contract Milestone dates. Include as a minimum: basis and assumptions used in preparing the schedules, including crew sizes, equipment requirements, and anticipated delivery dates; restraints; critical path activities; production rates; Activities requiring overtime or additional shifts; holidays, City-specific events; potential problem areas; permits; coordination; required with SFMTA, railroads, utilities and other parties; and long lead delivery items requiring more than thirty (30) days from order to delivery. Identify Work items that may be expedited by use of overtime or additional shifts. Identify and explain sequencing and other constraints such as manpower, material and equipment.

2. All constraints, dates, and lags will require City's approval and shall be clearly identified and explained in the narrative.
3. Description and analysis of the Critical Path.

1.8 PROGRESS SCHEDULE UPDATE

A. The Baseline Schedule shall be updated monthly by Contractor and submitted to the City for review as a Progress Schedule Update. It shall not have any change in the logic of the network or in the duration of activities.

B. Each Progress Schedule Update shall continue to show all work activities including those already completed. Computer calculations of the updated schedule will be made starting from the current date to the end of the project. Work completed shall be shown with actual start and finish dates for each activity. Work in progress shall be shown with the actual start date and the percentage completed for each activity.

C. Progress Schedule Updates shall include the requirements stated above and the additional requirements:

1. Include resource requirement as required.
2. Actual start and completion dates of completed activities.
3. Actual start dates and percent completion of activities in progress.
4. Print the total and free float for each activity.
5. Project percentage completed.

D. The Progress Schedule Update shall, at all times, represent the actual history of accomplishment of all activities as well as Contractor's current projected plan for orderly completion of the work. Contractor shall, at monthly intervals, evaluate work progress with the City by reviewing the actual accomplishments since the previous update.

E. In conjunction with each monthly Progress Schedule Update, Contractor shall submit to the City a written narrative report of the status of the Project as specified herein.

F. Contractor's monthly written narrative of the critical path analysis shall include the following:

1. Description of critical path and progress on Contract Milestones with explanations for any lack of work on critical path activities planned to be performed during last month;
2. Anticipated completion time of entire work;
3. Description of problem area;
4. Current and anticipated delaying factors and their impacts;
5. Explanation of corrective action taken or proposed to bring project back on schedule if delays have occurred;
6. Description of critical activities scheduled to be performed next month;
7. Discuss the incorporation of any approved Change Orders. Identify a proposed schedule Change Orders submitted during the last reporting period.
8. Status of major material and equipment procurement.

G. Progress Schedule Update reports, and the information contained therein, shall not be construed as claims, notice of claims, notice of delay, or requests for changes or compensation.

H. Actual start and finish date and Work in progress shall not be automatically updated by default mechanisms that may be included in CPM scheduling software systems. Actual start and finish dates shall be updated manually and shall represent actual history and

match daily reports. Work in progress shall be shown with the actual start date, the remaining duration will represent the current expected completion date, and the physical percent completed for each activity. The remaining Activities should represent Contractor's current projected plan for orderly completion of the Work.

I. This Progress Schedule Update shall not have any change in the logic of the network or in the duration of activities.

J. Contractor during the course of the construction desires to make changes in its method of operating and scheduling, it shall notify the City in writing stating the reasons for the change. Any change to the schedule in the logic, order, or sequence of work, duration activities, etc. shall constitute a revised schedule. A revised schedule will not be in effect until it is approved by the City.

K. If a COR for a schedule adjustment in the Contract duration is approved, the logic revisions and their relationship to other activities shall be reflected on the Progress Schedule Update.

L. The Progress Schedule Update for the same period as the Application for Payment shall be submitted showing all work completed as of that date as a precedent to making progress payment Applications.

1.9 ACTIVITY SCHEDULE

A. Contractor shall present and discuss the Activity Schedule at the progress meetings, or as directed by the City.

B. The Activity schedule shall be in the bar chart format and include the following:

1. Completed activities for last week.
2. Scheduled activities for the succeeding two weeks.
3. Correlation to appropriate Baseline Schedule including Activity ID, description, start and finish, duration, responsible party performing the Work and pertinent remarks on Activity status.

1.10 REVISED SCHEDULE

A. Contractor shall submit to the City a revised critical path schedule with a description and justification of the changes within ten (10) working days whenever a schedule revision is requested or any of the following occurs:

1. A change order affects the completion date or the sequence of the activities;
2. Progress of any critical activity falls significantly behind schedule;
3. Delay on a non critical activity changes the course of the critical path; or
4. Contractor elects to change any sequence of activities affecting the critical path.

B. The revised schedule shall be submitted in writing to the City Representative for review and approval. The submission of a revised schedule shall not relieve the Contractor of the responsibility for the notification required by Section 6.22H.2.d of the San Francisco Administrative Code and as required by subparagraph 7.02.D – Notice of Delay of the General Conditions.

1.11 DAILY CONSTRUCTION REPORTS

A. On a daily basis, Contractor shall submit to the City a Daily Construction Report for each working day, including weekends and holidays, when worked. Include in report:

1. Project name and Contract number
2. Contractor's name and address
3. Weather, temperature, and any unusual site conditions.
4. Brief description and location of the day's scheduled activities and any special problems and accidents, including Work of Subcontractors. Descriptions shall be referenced to CPM scheduled activities.
5. Worker quantities, names, and labor classifications for its own Work force and for Subcontractors of any tier.
6. Equipment, other than hand tools, utilized by Contractor and Subcontractors by description and number.

B. Failure to submit a copy of the Daily Construction Report by the end of the next working day will result in an assessment of $100.00 for liquidated damages per report to be deducted from the Progress Payment.

1.12 LIQUIDATED DAMAGES

A. Failure to submit any one of the above schedules will result in an assessment of two hundred dollars ($200) per calendar day as liquidated damages per schedule to be deducted from the contract until the required submittals are provided by Contractor.

B. Liquidated damages are in addition to any remedies taken by the City under the Supplementary Conditions of this Contract.

1.13 APPROVED STANDARD

A. CPM, as required by this section, shall be interpreted to be generally as outlined and defined in "CPM in Construction Management" by James O'Brien, McGraw-Hill Company, latest issue, Chapters 1 through 7.

B. Free float is defined as the amount of time that any activity can be delayed without adversely affecting any succeeding activity for the project completion.

C. Total float is defined as the amount of time that an activity can be delayed without adversely affecting the overall time for the project completion.

1.14 ADJUSTMENT OF THE CONTRACT TIME AND CHANGE ORDER

A. Adjustments of the contract time due to delays, additional work, or any other cause will only be issued through a contract change order and only for causes specified in the Contract Documents.

1. In the event that the Contractor requests an adjustment of the contract time, it shall submit a Change Order Request (COR) with such justification and supporting evidence as the City may deem necessary for a determination as to whether or not the Contractor is entitled to an adjustment of time under the provisions of the Contract.
2. The latest version of the Progress Schedule Update shall clearly indicate that Contractor has used, in full, all the float time available for work involved in the request.
3. Total and free float are not for the exclusive use of benefit of either the City or Contractor, but is a resource available to both parties on a first needed basis. Contractor shall not be entitled to additional compensation due to schedule impacts for change order work that extends the contract beyond the scheduled completion date, but not beyond the contract completion date.

4. The City determination as to the adjustment of the contract time will be based upon the latest version of the Progress Schedule Update accepted at the time of the alleged delay, and all other relevant information.
5. Actual delays in activities which, according to the Progress Schedule Update, do not affect the critical path work will not be the basis for an adjustment to the Contract time.
6. No contract time extensions will be allowed for contract change orders for which there are concurrent contract work delays, unless the excusable delays affect the critical path in the schedule and after all available float has been used.

B. Contractor shall include, as part of each COR for which it is requesting an adjustment in the Contract duration, a sub network showing logic revisions, duration changes, and cost changes for the work in question and its relationship to other activities on the Progress Schedule Update. Contractor shall incorporate each Change Order into the revised schedule.

C. The City will, within ten (10) working days after receipt of such request and supporting evidence, review the facts and issue to the Contractor a written merit determination accepting or rejecting the COR in whole or in part.

D. The new revised schedule, if accepted by the City shall be in compliance with the requirements under "Revised Schedule" as defined within this section.

E. Where the City has not yet made a final determination as to the adjustment of the contract time, and the parties are unable to agree to the amount of the adjustment to be reflected in the Progress Schedule, the current schedule will be in effect and be updated regularly every month until a revised schedule is agreed and approved by the City.

1.15 EARLY COMPLETION SCHEDULE

A. Contractor may submit a Monthly Schedule Update which contains a Milestone or Substantial Completion dates earlier than the dates specified in the Contract. Contractor agrees to the following:

1. The time difference between the Contractor's early scheduled completion date and the Contract completion date will be considered as absolute float.
2. The absolute float is not for the exclusive use of benefit of either the City or Contractor, but is a resource available to both parties on a first needed basis.
3. Contractor's original bid has included all cost for the full duration of the Project from the date of NTP through the official Contract completion date. Specifically, Contractor has provided through its bid the overhead, construction equipment and facilities cost including overhead, field office, home office, other off-site yard, and extended overhead cost for the duration of the Project in its Bid Items on the Schedule of Bid Prices or Bid Proposal as specified.
4. If the City requires additional work through a Change Order, which shall be done after the early proposed Substantial Completion Date, but prior to the Contract Time Substantial Completion Date, then no additional money will be paid to the Contractor for extended overhead.
5. Contractor waives any and all claims or right of action against the City for damages, loss of profit or other additional compensation based on the Engineer's rejection or approval of a proposed Early Completion Schedule.

1.16. RECOVERY SCHEDULE

A. Submit a Recovery Schedule within seven (7) Days, if the Monthly Schedule Update, reflects negative float of minus fourteen (-14) Days or more for a Contract Milestone Activity.

B. Use a fragnet showing Activities that delayed the Contract Milestones Date. Submit a similar fragnet showing Contractor's plan to mitigate delay or disruption and subsequent impacts to schedule. Provide the digital schedule files, as well as, hard copies of the analysis. Provide a written narrative describing circumstances, extent of delay or disruption, and the methodology used to determine extent of delay or disruption. Submission of such fragnet does not constitute permission to proceed with plan.

C. Addition of equipment or construction forces, increasing Work hours or other methods, manner, or procedures to return to the Contract completion date shall not be justification for a Change Order, nor shall it be treated as compensable acceleration where the need for a recovery schedule is due to or arises from any action of Contractor and/or its Subcontractors or Suppliers, at any tier.

D. Contractor shall implement the Recovery Schedule after acceptance from the Engineer without additional cost to City and provide for completion of the Work in accordance with the remaining Milestone dates without a time extension. Should the logic and/or durations of the Recovery Schedule not receive acceptance of the Engineer, Contractor is responsible to use concurrent operations, additional manpower, additional shifts, overtime, etc., as required to put the Project back on schedule at no additional cost to the City.

1.17 TIME IMPACT ANALYSIS SCHEDULE (TIA)

A. Prepare a Time Impact Analysis (TIA) Schedule: When unforeseen conditions or delays are experienced by Contractor and a time extension is requested. Contractor shall submit a written TIA illustrating the influence of each change or delay on the Contract Milestone completion date to the level of detail that the Engineer may require to determine whether Contractor is entitles to an extension of time.

B. Actual delays in activities, which according to the Progress Schedule Update do not affect the Critical Path work, shall not be the basis for an adjustment to the contract time.

C. To prepare the TIA, Contractor shall use the most recent version of the Progress Schedule Update that has been accepted by the City at the time of the alleged delay. Contractor shall use a sub network or fragnet of the Activities with the proposed delay. The impacted fragnet will show new Activities for the work in question and its relationship to other activities in the schedule. Provide the electronic schedule files as well as hard copies of the analysis. Provide a written narrative describing the time impact analysis and all other relevant information.

D. After the City's review and acceptance of the TIA, Contractor shall incorporate it into the Progress Schedule Updates and Revised Baseline Schedules.

E. Because float within Progress Schedule Updates is jointly owned, delays to the Work that are outside the control of Contractor may be offset by time savings realized

1.18 AS-BUILT SCHEDULE

A. The last Monthly Progress Schedule update with all dates actualized will be considered the As-Built Schedule. This schedule will have incorporated all actual start and finish dates and all the accepted Change Orders, Contract Modifications and TIAs. Schedule and approval of the Schedule will be a condition precedent to reduction/release of final Contract retention.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 32 33

PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

A. General: This Section specifies administrative and procedural requirements for construction photographs.

1.2 RELATED SECTIONS

A. Section 01 20 00 – Price and Payment Procedures

B. Section 01 33 00 – Submittal Requirements

1.3 SUBMITTALS

A. General: Refer to Division-1 Section "Submittals" for general requirements for submitting photographs. Binders and photos shall be kept by the City and are non-returnable.

1. Pre-construction photographs: Submit pre-construction photographs in digital format no later than 5 working days after receipt of Notice to Proceed and prior to the start of Work. Photos shall survey the site with sufficient detail to depict the site and building (exterior and interior) condition prior to start of Work. Contractor shall provide photographs from both the exterior of the building as well as the interior spaces.
   a. Photographs shall be delineated by the use of numbering or lettering indicating the location on a site plan and floor plans as well as a roof plan, see additional requirements below.
2. Construction Photographs: Submit construction photographs as described herein.

B. Format: Unless otherwise directed by City Representative, photographs shall be submitted in digital format as high resolution images showing the date and time photographs were taken, transmitted on a CD, DVD, USB drive, or other medium as acceptable to the City Representative.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

A. Digital Images: Provide images in uncompressed TIFF or JPEG format, produced by a digital camera with a minimum sensor size of 10.0 megapixels and at an image resolution of not less than 3072 by 2304 pixels. The City shall have all rights as owners of photographs to include use of and publishing images.

PART 3 - EXECUTION

3.1 PHOTOGRAPHIC REQUIREMENTS

A. General: Take photographs using the maximum range of depth of field and that are in focus to clearly show the Work. Photographs with blurry or out of focus areas will not be accepted.
   1. Maintain a key plan with each set of construction photographs that identifies each photographic location.

B. Construction Photographs
   1. Frequency: Take photographs as necessary to show progress of work, as a minimum coinciding with the 1st and fifteenth of every month and/or mid-point and cutoff date associated with each Application for Payment.
   2. The Contractor shall take photos, including those for each bid item, showing different areas of work in progress. Photographs shall be taken such that the item or location being photographed shall be determinable from within the set of photographs.
   3. Contractor shall provide a location plan indicating the view point from which the above photographs were taken and what they were taken of for each photograph. It is preferred when possible to take the photographs from the same location to provide a history of work progression.

C. Completion Photographs
   1. Take photographs of each major phase or component of Work, as requested by the City and as a minimum at both Substantial Completion and Final Completion. Each major phase shall be established once the CPM Schedule has been approved by the City.

D. Additional Photographs: The City Representative may issue requests for additional photographs, in addition to periodic photographs specified. Additional photographs will be paid for by Change Order, and are not included in the Contract Sum or an Allowance.
   1. The City Representative will give the Contractor 3 days notice, where feasible.
   2. Circumstances that could require additional photographs include, but are not limited to:
      a. The City request for special publicity photographs.
      b. Special events planned at project site.
      c. Immediate follow-up when on-site events result in construction damage or losses.
      d. Extra record photographs after time of final acceptance.

END OF SECTION

SECTION 01 33 00

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: This section specifies the general procedures and requirements for submission of shop drawings, product data and samples by Contractor to the City for review. See Technical Specifications for specific submittals.

1.2 DEFINITIONS

A. "Shop drawings" are drawings, diagrams, schedules and other data specially prepared for the Work by Contractor or a subcontractor, sub–subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work. Shop drawings shall not be reformatted Contract Documents.

B. "Product data" are illustrations, specifications, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by Contractor to illustrate materials or equipment for some portion of the Work.

C. "Samples" are physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

D. Shop drawings, product data, samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required the way Contractor proposes to conform to the requirements of the Contract Documents.

E. The term "manufactured" applies to standard units usually mass–produced. The term "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements.
   1. Shop drawings shall establish the actual detail of manufactured or fabricated items, indicate proper relation to adjoining Work, and amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure.

F. "Manufacturer's instructions" shall mean the manufacturer's written instructions on the use or application of the product under conditions similar to those at the job site.

G. "Work description" is a detailed description of the means, methods, tools, equipment, materials, sequence, and any other pertinent information about performance of work.

H. "Subcontractor qualifications" is a detailed statement of the subcontracting entity or personnel scheduled to perform work including general description of qualifications, representative list of applicable projects, number of years experience, and references complete with telephone numbers and contact persons. Refer to Section 00 72 00 – General Conditions for requirements regarding Subcontractor qualifications prior to award of the contract.

I. "Field sample" is a sample at the project site to demonstrate the final technique, finish, and construction quality by which the Work will be judged.

J. A Submittal is defined as any drawing, calculation, specification, product data, samples, manuals, requests for substitutes, spare parts, photographs, survey data, demolition plans, record drawings, bonds, or similar items required to be submitted to the City Representative under the terms of the Contract.

K. "Certificate of Compliance" is defined as a certificate signed by the manufacturer of materials stating that the materials involved comply in all respects with the requirements of the specifications.

1.3 REQUIREMENTS

A. The Contractor shall be responsible for distributing approved submittals as required for constructions and for fabricating, furnishing, and constructing work in accordance with approved submittals. The Contractor shall keep one copy of reviewed submittals at the site at all times.

B. The Contractor shall not use unacceptable submittals nor submitted materials without the City Representative's review stamp for reference in doing work. Submittals returned DISAPPROVED shall be revised by the Contractor and resubmitted to the City Representative for approval; the Contractor shall revise submittals returned APPROVED EXCEPT AS NOTED before proceeding with the subject work.

C. Approval of submittals shall not relieve the Contractor of the responsibility for errors or omissions in the submittals or from deviations in the Contract Documents unless such deviations were specifically called to the attention of the City Representative in the Submittal Control Form for the submittal.

D. The Contractor shall be responsible for the correctness of the submittals, for shop fits and field connections, and for the results obtained by use of such submittals. The City Representative will review submittals for conformance with the design concept of the project and for conformance with the requirements of the Contract Documents.

E. Wherever submittals are required herein, all submittals shall be submitted by Contractor to the City through the City Representative for recording and reviewing by the City.
1. Submittals received from sources other than Contractor will be returned to Contractor without the City's review.

F. The Contractor shall schedule submittals, enough in advance of scheduled installation dates, to allow time for review or revision.
1. Review and coordinate submittal with other submittals, the construction schedule, testing, procurement, fabrication, delivery and similar sequential activities.
2. Contractor shall be responsible for changes made necessary by Contractor's failure to coordinate submittals in a complete and timely manner.

G. Make submittals in groups containing all associated items as complete packages of information for review. The City will reject partial submittals.
1. Provide submittal package in a three–ring binder, with table of contents and tab sheet for each system. Tab sheet shall include a list of material and equipment furnished and shall provide ample space for City's review stamp and comments.
2. The City reserves the right to withhold action on submittals requiring coordination with other submittals until related submittals are furnished.

H. Submittals shall be reviewed, stamped, and approved by Contractor prior to forwarding them for City's review.

1. By approving and submitting shop drawings, product data, and samples, Contractor represents that it has determined and verified dimensions, materials, field measurements, and related field construction criteria, and that it has checked and coordinated the information contained within such submittals with the requirements of the work and of the Contract Documents.
2. When professional certification of performance criteria of materials, systems or equipment is submitted, submittal shall be stamped and signed by the responsible design professional with license number and expiration date representing that the City could rely upon the accuracy and completeness of such calculations and certifications.

I. No portion of the Work requiring submission of a shop drawing, product data, or sample shall commence until the submittal has been reviewed and accepted by the City. All such portions of the Work shall be executed in accordance with accepted submittals.
   1. No portion of the Work requiring submission of work description, subcontractor qualification or field sample shall commence until the submittal has been reviewed and accepted by the City. All such portions of the Work shall be executed in accordance with accepted submittals.

J. No change shall be made by Contractor in any submittal after it has been accepted by the City.

K. If the submittal shows any variation from the Contract requirements because of standard shop practice or other reasons, Contractor shall make specific mention of each variation in its submittal.

L. The City will review Contractor's submittals only for general conformance with the design concept of the Project and general compliance with the requirements of the Contract Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of Contractor as required by the Contract Documents.

M. The City's review of Contractor's submittals shall not relieve Contractor of the obligations to comply with the requirements of the Contract Documents. The City's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences or procedures. The City's acceptance of a specific item shall not indicate acceptance of an assembly of which the item is a component.

N. If Contractor makes a submittal which is not required to be submitted, the City will not review such submittal. Contractor shall execute the Work in accordance with the Contract Documents.

O. Adequate quantities submitted are required for review. No submittal will be processed unless the specified quantities are furnished.

P. Contractor's submittal packages shall include a digital copy of each Submittal on CD-ROM.

1.4 SUBMITTAL SCHEDULE

A. The time of submission of a shop drawings, product data, samples, work description, subcontractor qualifications and field samples by Contractor and their processing and returning by the City is a matter which shall be jointly agreed upon by both parties in order that the submittals will be available when needed by the construction process and so that each party can plan its workload in an orderly manner. Allow sufficient review time

so that installation will not be delayed as a result of the time required to process submittals, including time for resubmits.

1. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The City Representative will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
2. If an intermediate submittal is necessary, process the same as the initial submittal.
3. Allow two weeks for reprocessing each submittal.
4. No extension of Contract Time will be authorized because of failure to transmit submittals to the City Representative sufficiently in advance of the Work to permit processing.

B. Prepare the Submittal Schedule in the format acceptable to the City, integrating it with or as a by–product of the Construction Schedule, and shall submit it to City 15 calendar days prior to the submission of the first such submittals or simultaneously with the CPM Schedule, whichever is earlier. No submittals will be processed before the Submittal Schedule has been reviewed and accepted by the City.

C. In preparing the Submittal Schedule, the Contractor shall first determine from the Construction Schedule the date the particular item related to a particular system is needed for the Work. Working backwards, the Contractor shall add the required number of days for processing the submittal, shipment, fabrication, delivery of operation and maintenance manuals, and similar activities to determine the date of the submittal.

1. Contractor shall allow minimum 21 calendar days for the City's review of the submittal and shall anticipate that incomplete, inadequate, or incorrect submittal will require resubmission.
2. Contractor shall include a minimum 21 calendar days of float in the construction schedule for each submittal activity to allow for resubmissions.
3. If more than one resubmittal is required, the costs of reviewing the extra resubmittals will be deducted from progress payments due Contractor. Such costs shall include the City's costs and the City's consultant fees.

D. Adjust the Submittal Schedule monthly with the Construction Schedule to produce an orderly, even workload, without peak loads if possible, and yet able to meet the needs of the review and construction processes. Submit two copies of the Submittal Schedule after it is completed and each time it is updated by Contractor.

E. Contractor shall be solely responsible for scheduling of submittals. No extension of Contract Time will be granted for untimely submittals or required resubmittals.

F. Delays caused by the need for resubmittal shall not constitute a basis for an extension of Contract Time.

G. Delays in the work caused by an incorrect submission or insufficient data will not constitute reason for an extension of Contract Time.

1.5 PROCEDURES

A. Submittal cover sheet will be provided by the City. The following information will be provided by the Contractor:

1. Identification of the project, Contractor, subcontractor, major supplier.
2. Identify pertinent Drawing sheet and detail number, and Specification section number as appropriate.
3. Identify deviations from Contract Documents.
4. Submittals shall be sequentially numbered by the Contractor.

5. Provide space for the Contractor's approval and City Representative's review stamps on submittals.

B. Transmit each submittal to the City with a Submittal Control Form to be supplied by the City Representative. Deliver submittals to the City Representative at the address to be provided at the preconstruction meeting.

C. Transmittal Form: Use Submittal Record forms available from the City at no cost to Contractor. Consecutively number the transmittal forms. Resubmittals shall have original number with a numbered suffix. Fill in information as applicable.

D. Identification: Identify submittals with the following information:
1. Project name and location.
2. Contractor's, Subcontractor's, supplier's, or manufacturer's name, address, and telephone number.
3. Submittal number.
4. Product identification or shop drawing title, number, revision, and date as applicable. Where product data contain more than one product, model, selection, etc., clearly mark and identify the information intended to be reviewed by City.
5. Reference to (Contract) Drawing or Specification Section as applicable.
6. Apply Contractor's stamp, signed or initialed, certifying that review, verification of products required, field dimensions, adjacent construction work, and coordination of information are in accordance with the requirements of the Work and Contract Documents.
7. Provide space for City's review stamp. Space shall be minimum 4" x 6".
8. Where multiple Specification Sections govern any portion of the work or where multiple trades are involved in any portion of the work (e.g., steel, mechanical and electrical items embedded in concrete), indicate all pertinent Specification Sections in its submittal identification.
9. Revise any resubmittals as required and identify all changes made since previous submittal.

E. Packaging of Submittals:
1. Submittals shall be wrapped or packaged to prevent damage during delivery.
2. Reproducible drawings shall be rolled and not folded.

1.6 SHOP DRAWINGS

A. Submit in the form of one reproducible and 6 copies. The reproducible of drawings greater than 11" x 17" shall be unbound white paper.

B. Shop drawings shall be submitted only by Contractor. Submittal of incomplete or unchecked shop drawings will not be acceptable.

C. When the shop drawings have been reviewed by the City, two copies and one marked-up reproducible will be returned to Contractor appropriately stamped.

D. If the shop drawings are not accepted, five copies will be returned to Contractor with the City's review comments indicated.

E. Resubmit shop drawings in the same manner and quantity as specified for the original submittal.

F. Clearly identify and provide explanation of changes made by Contractor on the resubmitted shop drawings.

G. Each shop drawing submitted shall be sized as follows:
   1. Maximum sheet size: 34"x 22" ("D"-size) with a 1" border and a 2" binding edge to the left of the border on the short side of the sheet.
   2. Minimum sheet size: 8-1/2" x 11" with 1/4" border on three sides and 1/2" binding edge on the long side.

H. Catalog sheets meeting the specific requirements may be substituted for the required drawings.

1.7 PRODUCT DATA

A. The submittal requirements shall be as follows:
   1. Submit six (6) copies of product data. After review, two will be returned to Contractor.
   2. Mark each copy to identify applicable products, models, options and other data. Supplement manufacturer's standard data to provide information unique to this project.

B. Product data and manufacturers' standard drawings submitted for review shall show only the pertinent information.
   1. Identify the pertinent information by circling it with black ink pen or by crossing out the inapplicable information with black ink pen.
   2. Any submittal which contains information not clearly identified for review will be rejected and returned to Contractor for resubmission.

1.8 SAMPLES

A. Submit samples to illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

B. Submit samples of finishes in custom colors selected, textures, and patterns for the City's selection.

C. Include identification on each sample, with full Project information.

D. Furnish three (3) samples in the following sizes, unless otherwise specified; after review one (1) sample will be returned to Contractor.
   1. Flat or Sheet Products: Minimum 6 inches square, maximum 12 inches square.
   2. Linear Products: Minimum 6 inches long, maximum 12 inches long.
   3. Bulk Products: Minimum one pint, maximum one gallon for liquids; minimum one pound, maximum three pounds or minimum one cubic foot, maximum one cubic yard, as applicable for solids.

1.9 MANUFACTURER'S INSTRUCTIONS

A. When required by individual Specification Sections or by the City during submittal reviews, submit six (6) copies of manufacturers' printed instructions for delivery, storage, assembly, installation, start-up adjusting, field testing and finishing.

B. Identify conflicts between manufacturers' instructions and Contract Documents.

C. Maintain copies of manufacturers' installation instructions and recommendations in Contractor's field office for review, regardless of whether such submittals are requested.

1.10 MANUFACTURER'S CERTIFICATES

A. Submit certificates, in duplicate.

B. Submit on 8-1/2" by 11" white paper.

C. The City will retain certificates; no approval reply is intended.

D. The certificate shall state that:
   1. The equipment or system has been:
      a. installed in accordance with the manufacturer's recommendations,
      b. inspected by a manufacturer's authorized representative, and
      c. serviced with the proper initial lubricants.
   2. Applicable safety equipment has been properly installed.
   3. The proper electrical and mechanical connections have been made.
   4. The equipment is ready for startup.

1.11 CERTIFICATE OF COMPLIANCE

A. The Contractor shall submit, to the City, Certificates of Compliance for all applicable materials as specified in the table of Materials Accepted by Certificate of Compliance of the current edition of the Construction Manual published by the California Department of Transportation (Caltrans) and available for download at http://www.dot.ca.gov/hq/construc/constmanual/construction_manual.pdf (Table 6-2.3 in September 2014 Edition).

B. Certificates of Compliance shall contain the following information:
   1. Name of company.
   2. Lot number traceable to a specific lot.
   3. A statement naming the applicable type and brand, and that the materials meet the requirements of the Contract specifications.
   4. Contract number.
   5. Signature of responsible officer of the company.
   6. Any other information required by the table of Materials Accepted by Certificate of Compliance in the Construction Manual referenced in Part A.

C. The City will retain certificates; no approval reply is intended.

1.12 ACTION AND DISTRIBUTION

A. The City will return the submittals stamped "NO EXCEPTIONS TAKEN," "MAKE CORRECTIONS NOTED," "SUBMIT SPECIFIED ITEM(S)," "REVISE AND RESUBMIT" or "REJECTED."
   1. When "NO EXCEPTIONS TAKEN" is indicated, Contractor is advised that fabrication, manufacturer, or construction may proceed, providing it complies with the Contract Documents.
   2. When "MAKE CORRECTIONS NOTED" is indicated, Contractor is advised that fabrication, manufacture, or construction may proceed, providing it complies with the City's notations and the Contract Documents.
   3. Submittals returned with stamps as per Item 1 or 2 above shall be considered as acceptable submittals.
   4. When other notation is indicated, Contractor is advised that no work shall be fabricated, manufactured, or constructed. Contractor shall make a new submission in accordance with the procedures specified.

B. Contractor shall make additional copies of the accepted submittals and shall within 3 calendar days from date of receipt distribute one copy to its subcontractors, vendors, or manufacturers as applicable. Copies shall be made from the accepted copy bearing the City's stamp of acceptance.

C. Contractor shall be responsible for recording work completed in accordance with approved submittals on the Record Drawings in accordance with the requirements of Section 01 78 39, Project Record Drawings.

1.13 USE OF SUBMITTALS

A. Work shall be fabricated, constructed, and furnished in accordance with the acceptable submittals. One copy of such acceptable submittals shall be kept at the job site.

B. Contractor shall not use unacceptable submittals or submittal materials in the work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 35 45

HEALTH AND SAFETY CRITERIA

PART 1: GENERAL

1.1 SUMMARY

A. The Contractor shall be solely and fully responsible for compliance with regulatory requirements applicable to the health and safety of persons during the performance of the Work. In any action arising from a Site or Work safety claim, violation of law, or other action, Contractor shall fully assume the defense of, indemnify and hold harmless the City and its representatives, as provided in the General Conditions of this Contract.

B. **The Contractor shall not start site work without the acceptance by the City Representative of its Health and Safety Plan (HASP).**

C. Contractor shall bear all costs of implementing, maintaining, and enforcing safe Work and Site safety programs and plan, and all costs associated with compliance with federal, State, and local safety requirements, including but not limited to the impacts of meeting Site and Work safety requirements on the efficient production of the Work. All costs arising from Site and Work safety are Incidental Costs that are included Contractor's Bid (Contract Amount).

D. Contractor's Responsibility: The Contractor and not the City, shall be solely and fully responsible for:

1. Complying with the terms of this Section.

2. Developing, submitting, implementing, maintaining, and enforcing a site-specific Health and Safety Plan (HASP).

3. Posting all OSHA-required notices and establishing a safety program for the Work.

4. Complying with all applicable Cal/OSHA training, safety device, reporting, Work performance requirements.

5. Determining and complying with all applicable health and safety requirements, in accordance with applicable laws, rules, and regulations.

6. The defense of, indemnity of and holding harmless the City and its representatives.

7. Determination and implementation of construction means, methods, techniques, sequences, and procedures (except as otherwise specified in approved design documents), including all safety precautions, training and programs taken in connection with the Work, as well as coordinating all portions of the Work.

8. The health and safety of Contractor's employees and Subcontractors' employees.

9. Implementing, maintaining, and enforcing all safety precautions and programs concerning the Work.

10. Conducting air monitoring at the Site for its personnel and subcontractors' personnel, as required by federal, State and local laws. The City will conduct ambient air monitoring as it deems necessary.

11. Any and all fines, penalties or damages which result from the Contractor's failure to so comply with applicable health and safety laws and regulations during performance of the Work.

D. The health and safety requirements set forth in this Section is not a comprehensive or an all-inclusive list of safety requirements that may apply to Work under this Contract. In addition, some of the specified requirements may not apply to the Work under this Contract, depending on the type and scope of the Work.

E. The City will neither assume the administration of nor direct, control or otherwise assume any responsibility for the implementation and enforcement of the Contractor's health and safety program.

F. The Contractor shall be solely responsible and shall assume all liability for compliance with the safety orders, regulations and requirements of:

1. Work Hours and Safety Standards Act (40 U.S.C. 327 et seq.)

2. Construction Safety Orders (8 CCR, subchapter 4 et seq.)

3. Federal OSHA.

4. Cal/OSHA.

5. California Public Utilities Commission (CPUC).

6. State of California Public Utilities Commission, General Order No. 172, Rules and Regulations Governing the Use of Personal Electronic Devices by Employees of Rail Transit Agencies and Fixed Guideway Systems.

7. The State of California Wireless Communications Device Law (effective January 1, 2009) makes it an infraction to write, send, or read text-based communication on an electronic wireless communications device, such as a cell phone, while driving a motor vehicle.

8. California Vehicle Code.

9. Local regulations pertaining to Work practices, protection of workers and visitors to the site.

G. Nothing contained in this Contract shall relieve Contractor, or any Subcontractor or Supplier, from the obligations set forth above and obligations as required by applicable laws, rules, or regulations. If a provision of this Document conflicts with any applicable provision of this Contract or any federal, state, or local safety regulations, the more stringent requirements that maintain a greater level of safety shall apply.

H. The Contractor shall ensure that all tiers of its field personnel, employees, agents and subcontractors:

1. Are provided the proper notifications, training, and procedures as required by the Contractor's Health & Safety plan and procedures, including but not limited to the handling of unidentified hazardous waste.

2. Follow safe practices and minimize their exposure when dealing with unanticipated and unidentified hazardous wastes and contamination.

3. Minimize potential risks during Project construction by having all construction personnel follow its Health & Safety procedures.

4. Provide and maintain personnel safety training and medical examinations in accordance with all applicable Federal, State, and local safety and health standards, rules, regulations, and orders.

I. The Contractor shall conduct any required personal air monitoring of its workers, at its own expense. The Contractor shall be responsible for providing its employees with all levels of training and personal protective equipment (PPE) necessary to perform the Work, including personal air monitoring if required. This includes areas where hazardous and contaminated soils and waste is encountered. The City will not pay any additional compensation to the Contractor this training and PPE.

J. For Work in this Contract, the Contractor shall have taken into account the productivity losses, if any, arising from the use of respirators and PPE.

K. All work in this Section shall be incidental work to mobilization.

1.2 JOB CONDITIONS

A. The Contractor is alerted to the fact and include in its bid that the work of this Contract will involve working in environments that may be hazardous, contaminated, and non-hazardous. Serpentinite and other ultramafic rocks that contain Naturally Occurring Asbestos may be present within on-site earthen materials.

B. Such hazardous, contaminated, and non-hazardous environments include, but are not limited to; hazardous and non-hazardous materials, soils, groundwater and storm water, heavy metals, petroleum hydrocarbons, polynuclear aromatic hydrocarbons, organic compounds, asbestos, serpentinite and other ultramafic rock that contains naturally occurring asbestos (NOA), respirable crystalline silica, naturally occurring hazardous materials, lead based paint materials, railroad ties, sewage, sludge, debris, grit, sewer gases, oxygen deficiency, bacterial/biological contamination, odors from petroleum hydrocarbons andother volatile/semi-volatile organic compounds and confined spaces.

C. Lead Hazards: All Work or materials that contain any level of lead will be performed by the General Contractor or its subcontractors in accordance with Cal/OSHA Lead in Construction Standard, 8 CCR 1532.1 and all applicable Federal, State, and Local regulations, which shall be Incidental Work.

D. The Contractor is advised that Work in this Contract may include, but is not limited to, the following activities that may pose safety and health hazards to Contractor and subcontractor personnel:

1. Working around live, high voltage lines and wires, switches, moving vehicles and other potential hazards specific to a City yard, facility, or operating rail line.

2. Working around live utilities.

3. Entering or working in confined spaces.

4. Working around and inside shafts.

5. Working within an underground excavation and construction environment using mechanized equipment and structural temporary shoring support equipment.

6. Working within an underground tunnel environment using mechanized equipment.

7. Working with soils that may be hazardous or contaminated, or both.

8. Working around and in open trenches.

9. Working in spaces or areas where employees may be exposed to asbestos and lead.

10. Welding, painting or other potentially hazardous Work, or working in the vicinity of such activities.

11. Working in a public right-of-way with vehicular traffic moving around or through the Site.

12. Working in rail right of way with light rail vehicles moving around and through the Site.

E. The Contractor shall protect the public from hazards including surface irregularities, un-ramped grade changes in pedestrian sidewalks or walkways, and trenches or excavation in roadways. The Contractor shall ensure safe routing of vehicular and pedestrian traffic around the Site, in compliance with American's with Disabilities Act (ADA) requirements.

F. The Contractor shall construct/finish, and at all times maintain satisfactory and substantial ramping, guard rails, warning flags and signs at appropriate heights, temporary chain link fencing, solid fencing, railings, barricades, steel plates or bridging as applicable at all openings, obstructions, or other hazards in streets, sidewalks, and the like. All such barriers shall have adequate warning lights as necessary or required for public safety. The Contractor shall divert traffic by use of traffic cones, barriers, flagmen, flags, and signs adequate to the Site conditions and task at hand. All temporary and permanent safety features shall be installed before beginning commencing Work at the Site.

G. The Contractor shall administer an Early Return to Work Program that allows injured workers to perform alternative Work consistent with the restrictions outlined by the treating physician. The Contractor is responsible for working with the affected employer to identify and/or design modified duty for all injured workers who are capable of performing Work activities which do not impede the healing process.

1.3 SUBMITTALS

A. The Contractor shall submit the following Submittals as required by the Contract and no case later than ten (10) working days prior to commencement of Work at the Site. No construction Work shall start prior to Contractor's submission and City's

acceptance of submittals listed below. Each Submittal listed below shall be a separate document and shall not combined within one another.

1. Site-specific Health and Safety Plan (HASP) prepared, signed and stamped by a Certified Industrial Hygienist (CIH).

2. Injury and Illness Prevention Programs (IIPP) and Code of Safe Practices (CSP), in accordance with the California Code of Regulations (CCR), Title 8.

3. Templates for all safety forms and reports:

   a. The PSR's daily inspection form shall accommodate twice daily inspections of their field work area(s) covering date, work area checked, employees present in the work area, PPE, work equipment being used in each area, workplace conditions, physical facility safety, and employee work practices. The form shall also accommodate any deficiencies and corrective actions.

   b. The Safety Meeting Attendance sheet of the "toolbox" safety meetings conducted per CAL/OSHA standards.

   c. Activity Hazard Analysis (AHA) or Job Hazard Analysis (JHA).

   d. Incident or Near-Miss Incident Investigation Reports.

   e. Corrective Actions Report.

4. Completed Activity Hazard Analysis (AHA) or Job Hazard Analysis (JHA) submitted with the HASP using the AHA/JHA template for all significant activities and tasks with a high-risk potential, describing the job steps, hazards associated with each job step, and the controls used to remove or minimize the associated hazards

5. SDS (Safety Data Sheet) for all chemicals and other hazardous materials used in the Work.

6. If Serpentine is present Contractor shall have Cal/OSHA 40-hour asbestos training for the Competent Person overseeing Serpentine/ Naturally Occurring Asbestos (NOA) disturbance activities and managing personal air monitoring for asbestos.

B. Experience Statement. The apparent low Bidder and any other Bidder so requested shall submit to the Contract Administration Division within **seven (7) working days** after the date of the City's notification of the lowest Bidder sufficient information on completed Experience Statement forms (Section 00 49 12), and additional sheets as necessary, to demonstrate to the satisfaction of the City the qualifications and experience of the it's Project Safety Representative (PSR) as specified in this Section 01 35 45 – Health and Safety Criteria.

1. Documentation and Certification (current and valid) of the Project Safety Representative (PSR):

   a. The name of the designated Project Safety Representative (PSR).

   b. OSHA Certified 30-Hour Construction Training.

   c. The 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training Program.

d. First Aid/CPR certification.

e. Documentation demonstrating a minimum of three (3) years recent experience in conducting and supervising safety and health programs on construction projects similar to the Work of this Contract.

C. The Contractor shall submit the following throughout the course of construction as per specification.

1. Daily inspection reports (as per Part 1.8, B8 of this Section) signed by the PSR documenting twice daily inspections of their field work area(s) covering date, time visisted, work area checked, employees present in the work area, PPE, work equipment being used in each area, workplace conditions, physical facility safety, and employee work practices. Any deficiencies and corrective actions shall also be documented. The daily inspection reports shall be submitted by transmittal to the City Representative on a daily basis by the next day. If the daily inspection reports are not kept current, or are not furnished as specified above, then progress payments, and if necessary, final payment will be withheld. Furnishing of daily inspection reports shall be done as incidental work.

2. Records of topics and Safety Meeting Attendance sheet of the "toolbox" safety meetings conducted per CAL/OSHA standards.

3. Incident or Near-Miss Incident Investigation Reports and Corrective Action Reports – Submitted to the City Representative within 24 hours of the Project Incident or Near-Miss Incident.

4. Final Incident or Near-Miss Incident Investigation Reports and Final Corrective Action Reports – Submitted to the City Representative within 48 hours of the Project Incident or Near-Miss Incident.

5. HASP modification requests, and approved modifications to the appended HASP – Submitted to the City Representative for review (if applicable).

6. Monthly Project Safety Statistics Report.

7. Respiratory Protection Program, records and documentation (if applicable to the Work).

8. Hot Work permit (if applicable to the Work).

9. IIPP and CSP modification requests and approved modifications to the appended IIPP and CSP.

10. OSHA's Form 300A "Summary of Work-Related Injuries and Illnesses" annual form. (Contractor shall submit the Form 300A each year and whenever it is updated.)

C. Upon receiving a written request from the Engineer, the Contractor shall submit to the SFMTA any document relating to health and safety within five (5) Days from the date of such request.

1.4 REFERENCES

Work performed shall be consistent with the following guidelines and references and in compliance with all applicable regulations and standards, including those listed below. In the case that these requirements are conflicting, the one which offers the greatest level of safety shall be followed.

A. California Code of Regulations (CCR), Title 8

   2. Industrials Relations

   3. Construction Safety Orders

   4. General Industry Safety Orders

B. Cal/OSHA Occupational Safety and Health Administration (OSHA) Regulations.

   1. CCR Title 8 Standards (All)

   2. CCR Title 8 Tunnel Safety Orders (8403-8552)

C. National Institute for Occupational Safety and Health (NIOSH) Publications.

D. U.S. Environmental Protection Agency (USEPA) Publications.

E. American Conference of Governmental Industrial Hygienists (ACGIH) Publications.

F. Work Hours and Safety Standards Act (40 U.S.C. 327 et seq.).

G. Code of Federal Regulations (CFR), Title 29 – Labor.

H. Federal Railroad Administration Roadway Protection Rule (49 CFR Part 214C).

I. State of California, Health and Safety Code.

J. California Department of Industrial Relations, DOSH Mining and Tunneling Unit, Underground Classification dated March 16, 2009.

K. State of California, Public Utilities Commission, General Order No. 95, "Rules for Electric Line Construction".

L. State of California, Public Utilities Commission, General Order No. 128, "Construction of Underground Electric Supply and Communication System".

M. State of California, Public Utilities Commission, General Order No. 172, "Rules and Regulations Governing the Use of Personal Electronic Devices by Employees of Rail Transit Agencies and Fixed Guideway Systems".

N. State of California, Public Utilities Commission, General Order No. 175-A, "Rules and Regulations Governing Roadway Worker Protection Provided by Rail Transit Agencies and Fixed Guideway Systems".

O. Bay Area Air Quality Management District, Regulations 1-13.

P. San Francisco Health Code.

1.5 THE SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY (SFMTA) HEALTH AND SAFETY REQUIREMENTS:

A. The Contractor shall comply with the following requirements as applicable and at no additional cost to the City, as this job is under the jurisdiction of the San Francisco Municipal Transportation Agency (SFMTA) affects its bus/train routes.

B. The Contractor shall obtain all the necessary City and SFMTA permits, trainings, clearances, and shall schedule any necessary SFMTA support at least two weeks prior to mobilization.

C. The Contractor, its employees and its subcontractors who will perform Work within 72 inches (measured transversely) of MUNI rail tracks shall first receive "Roadway Worker Protection" training and certification from the SFMTA, at least two weeks prior to mobilization. The Contractor shall schedule "Roadway Worker Protection" training by contacting Charles D. Kesecker from the SFMTA at (415) 646-2506 or charles.kesecker@sfmta.com. Contractor shall sign a Hold Harmless Agreement with SFMTA with respect to the safety training.

D. In addition, and at least two weeks prior to mobilization, the Contractor shall obtain a "Track Access Clearance Permit" from the Muni's Operations Control Center (OCC) before working within 72 inches of the rail tracks. The Track Access Clearance meeting is held every Tuesday at 10:00am at 1 South Van Ness, San Francisco, Conference Room 8104, where the permit application process may be discussed. The Contractor shall schedule the "Track Access Clearance Permit" training by contacting SFMTA.

E. All Contractor personnel performing Work along a trackway or adjacent to a trackway shall comply with any instruction given by SFMTA Operations Control Center (OCC).

F. The Contractor is alerted to the presence of the Overhead Contact System (OCS). The overhead contact system is above each trolley coach route and track, and adjacent to each platform. This is a HIGH VOLTAGE SYSTEM operating in excess of 600 volts DC. The Contractor's attention is directed to Article 37 of the California Public Utilities Comission General Order 95. Cal/OSHA regulations require that any boom type equipment that moves vertically must maintain 10 feet radial clearance and any other equipment must maintain a 6 feet clearance from OCS. The Contractor shall use only fiberglass ladders when working around the OCS. The Contractor shall obtain "clearance to start work" from the SFMTA facility's supervisor when working within 10 feet of the OCS, at least two weeks prior to performing that Work.

G. Contractor shall comply with California Public Utilities Commission's General Order 175-A and the SFMTA "Roadway Worker Protection" training when performing any work on or near Muni trackways.

H. The Contractor shall provide proof of health and safety training required by CCR, Title 8, Subsection 3203 (a)(7) and Muni Procedures SY.PR.034 – Contractor Safety Program and SY.PL.003 – Roadway Worker Protection (RWP) Plan, for each employee, including employee name or other identifiers, training dates, type(s) of training and training provider. These documents are available for review and inspection at One South Van Ness Ave., 3rd Floor, San Francisco, CA 94103. Please call Mr. Shahnam Farhangi at (415) 701-4284 to schedule an appointment to view these documents.

I. The Contractor shall during the course of the Work regularly provide tail-gate trainings to all employees working in and around tracks, track switches, overhead catenary system, train signal system, and other Project specific hazards, as required by Cal-OSHA regulations and other applicable laws and as topics related to safe permornace of the Work and maintenance of Site safety come to the attention of the Contractor.

J. The Contractor shall ensure that its employees, agents, and subcontractors provide and maintain personnel safety training and medical examinations in accordance with all applicable Federal, State, and local safety and health standards, rules, regulations, and orders.

K. The Contractor shall acquire all the proper permits, trainings, clearances, and schedule any SFMTA support as necessary, at least two weeks prior to mobilization.

L. The Contractor shall sign an Assumption of Risk/Waiver of Claims/Hold Harmless Agreement with SFMTA with respect to the operational and safety training.

M. Cost for all the above requirements, permits, training, and clearances is incidental and inclusive of the base bid.

1.6 HEALTH AND SAFETY PLAN (HASP)

A. The Contractor shall submit a Site-specific Health and Safety Plan (HASP) in accordance with this Specification, CFR Title 29, CCR Title 8 and other applicable regulations, which shall cover all aspects and scope of Work. The HASP shall remain in effect for the term of the Contract and a copy of the HASP must be on-Site at all times.

B. The Contractor's Site-specific HASP shall shall set forth the policies and procedures to be followed by all Contractor personnel at the Site. The HASP shall describe the safety requirements for the Work, and the means and methods by which the Contractor will implement and enforce those safety requirements. The HASP shall describe, in detail, the protocols necessary for the identification, evaluation, mitigation and control of all hazards associated with the Work and each task performed by the Contractor and all subcontractors. The HASP shall identify the Contractor representatives responsible for Site safety and enforcing safe practices in performing the Work.

C. The HASP shall be prepared, signed, and stamped by a Certified Industrial Hygienist (CIH). The HASP shall also be reviewed and signed by the Project Safety Representative (PSR), whose review will be limited to general scope and completeness. The Contractor shall at all times be solely and entirely responsible for the safety of the Site and its personnel, subcontractors' personnel, persons working at or visiting the Site (including City representatives, employees and consultants), and persons passing through the Construction Area. The Contractor shall be solely responsible for the content, implementation and enforcement of its HASP. The Contractor shall not perform any Work at the Site until the HASP has been submitted to and accepted by the City.

D. The City will not review the HASP for its content, nor will the City be liable for the Contractor's failure to have an adequate HASP or implement it. Submission to and receipt of the HASP to the City and regulatory agencies neither constitutes to the legality of the HASP nor does it incur liability. Submission, acceptance, and receipt of the HASP to the City, or any review of the HASP by the City, shall not be construed as approval of the adequacy of the Contractor's PSR, the Contractor's HASP or any safety measures taken in or near the construction site.

E. Any changes or modifications to the Contractor's HASP must be signed by the Contractor's PSR and submitted to the City Representative. The modification shall be appended to the Contractor HASP. All personnel working on the Site shall be fully informed of the modifications of the HASP and any required actions arising from those HASP modifications before performing any of the Work that mat be impacted by those modifications.

F. The HASP shall be divided into two parts. Part One shall address the Environmental Health aspect of safety. Part Two shall address Construction Safety.

Part One of HASP - Environmental Health:

1. Identification and description of the responsibility of those individuals who control each phase of operations and are responsible for employee and public safety. The HASP shall set forth in writing the policies and procedures to be followed by all personnel. The HASP shall include the designation and resume of an overall Project Safety Representative (also referenced as health/safety officer). The PSR shall have full authority to correct any unsafe conditions at the Site or unsafe means or methos of performing the Work. The PSR shall have the authority to stop any construction activity or modify Work practices, meand or methods that do not accord with the HASP or that are necessary to protect workers, property, and the surrounding community. This requirement shall apply throughout the term of the Contract and is not limited to working hours.

2. Hazard Communication Plan: Information identifying and delineating all workplace hazards that has been identified or is generally associated with the proposed Work phases and how this information is communicated to employees (e.g., tailgate/toolbox safety meetings, monthly safety meetings, and daily job briefings). Hazardous material communication standards can be found in 29 CFR 1910.120 & 8 CCR 5194. Hazardous waste information can be found in 29 CFR 1910.1200 & 8 CCR 5192. Local hazardous material/waste information can be found in Articles 21, 21A, 22 and 22A of the San Francisco Health Code.

3. Mitigation measures to identify, monitor, and control worker and general public exposure to any identified hazard. The Contractor shall determine the need to conduct and monitor its personnel for contaminant exposure so as to maintain the proper level of personal protection, including the action level.

4. Personnel: Provision of sufficient personnel properly trained to handle, remove, excavate and dispose of hazardous waste and contaminated waste that may be encountered or generated by the Work. The HASP shall specify the general training required for all Contractor personnel, and any specialized training required for personnel identified to manage and/or handle hazardous metrials, including but not limited to:

   a. Asbestos training that meets the Cal/OSHA Work Activity Level for naturally occurring asbestos (NOA) as per the Cal/OSHA Construction Asbestos Standard, 8 CCR all applicable Sections and Section 1529.

   b. Lead, petroleum hydrocarbons, volatile and semi-volatile organic compounds (VOC's and SVOC's) awareness training.

   c. Naturally occurring hazardous materials (including but not limited to naturaly occurring asbestos and silica) in accordance with Cal/OSHA

and BAAQMD requirements and applicable Federal, State and local regulations.

d. The 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training Program.

e. It's associated 8-hour refresher training in accordance with 29 CFR 1910.120, and 8 CCR 5192.

f. Respiratory Protection: The Contractor shall assess potential exposures to hazardous materials and conditions and comply with Cal/OSHA Regulations included in 8 CCR Sections 1529, 1532.1, and 5144, ANSI Standard Z88.2 - "Practices for Respiratory Protection", and 29 CFR 1926.62 (f). Workers shall wear appropriate respiratory protection during lead, asbestos and any other hazards work, unless negative exposure assessment testing verifies that employee exposures are below the PEL or Action levels. Respirable Crystalline Silica OSHA Regulation in accordance with 29 CFR 1926.1153

g. Other Site-specific or Project specific hazards requiring safety training.

The above training shall be required for all Contractor and subcontractor personnel who will come in contact with or operate equipment that handles contaminated materials. The HASP shall include records establishing the subject matter, dates, tines, and attendees of all safety trainings. The Contractor shall maintain training records as required by Cal-OSHA and applicable regulations.

5. The Contractor shall be responsible for the following:

a. Medical surveillance programs. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel.

b. Code of Safe Practices and Injury and Illness Prevention Programs (IIPP), i.e., SB 198, 8 CCR and CAL/OSHA, GISO 3203, Section 5192 and 1509.

c. Personnel air monitoring according to 29 CFR and 8 CCR.

d. The Construction Standard (29 CFR 1926).

e. Federal and California Lead Standards for the Construction Industry (29 CFR, Part 1926.62 and 8 CCR, Section 1532.1, respectively)

f. Asbestos OSHA Regulation 29 CFR Part 1926.1101 & 8 CCR 1529.

g. Workers' Right to Know (29 CFR 1910.120).

h. Section 6360-99 of the California Labor Code (Hazard Communication).

i. The American with Disabilities Act (ADA).

6. Engineering controls, specific Work practices, air monitoring for contaminants (e.g., dust, natural occurring asbestos (NOA), lead, volatile organic, and hydrocarbons), and personal protective equipment (8 CCR

5144) to protect Contractor personnel, City personnel on the Site, and the public impacted by the Work.

7. Methods to be used to decontaminate equipment and personnel.

8. Sanitation facilities to be provided for personal hygiene. Portable toilets and discharge of their waste products into sanitary sewers shall comply with local codes.

9. Contingency /Emergency Response Plan procedures for emergencies including fire, spillage of hazardous/toxic wastes and liquids (with special emphasis to clean up of spillage due to fuel/oil from Contractor's equipment), traffic accident, personal accident, power failure, or any event that may require modification or abridgment of site control and decontamination procedures.

Part Two of HASP—Construction Safety:

1. The Contractor shall include an organizational structure in the HASP that sets forth lines of authority, responsibility, and communication, including a description of Contractor's organization and Project responsibilities of key personnel.

2. The Contractor shall inform its employees, supervisory personnel and visitors (invitees) to the Site of known Site hazards.

3. Contractor shall take necessary precautions and implement mitigation measures to prevent or reduce the release of pollutants in the form of dust, fume, mists, excessive noise and vibration into the air and surrounding environments.

4. Contractor shall ensure at least one individual on each job site at all times has current CPR/First Aid/AED training.

5. The Contractor shall employ a Project-specific hard hat insignia (sticker) program which identifies workers that have successfully completed the Project safety training.

6. Information identifying and delineating all workplace safety hazards and how this information is communicated to employees (e.g., tailgate/toolbox safety meetings, monthly safety meetings, daily job briefing).

7. The Contractor shall at all time be responsible for providing its employees with the proper level of personal protective equipment (PPE), that shall be appropriate to the type of work being performed by the individual employee. At a minimum, the Contractor and subcontractor's personnel shall wear hardhats, ANSI class 2 vests, and safety glasses with side shields at the work site. Hardhats shall show company name.

5. Safety Action Measures: For Work requiring Cal/OSHA permits, special training and/or use of designated competent persons to oversee the Work, the Contractor shall prepare Safety Action Measures, to address these Work activities. The Safety Action Measures shall include detail information needed to perform the activity safely, verify that the persons involved in the Work are properly trained or certified, the equipment used is inspected and suitable for the Work, the proper permits have been obtained.

6. The format for all safety forms and reports shall be developed by the Contractor and submitted as part of the Contractor HASP.

7. Periodic safety performance reviews and procedures on safety inspections. A sample daily inspection form shall be provided in Contractor's HASP and shall include date, Work area checked, employees present in the Work area, PPE, Work equipment being used in each area, safety and health issues, notes.

8. Procedures in handling non-compliance/violations of safety requirements, e.g. deficiency correction reports, stop Work orders, disciplinary actions, etc.

9. Communication and reporting requirements, including the immediate reporting of injury accidents and submittal of corrective action reports.

10. Requirements concerning, distribution, and maintenance of personal protective equipment and safety tools.

11. Measures and procedures to be used to report, monitor and control exposure of Contractor personnel and public to any identified safety hazards. Contractor shall monitor Site personnel for contaminant exposure and ensure appropriate PPE is used.

12. Provision for all personnel to be properly and regularly trained in construction safety and emergency response. The level of training required for all or specified Contractor or Subcontractor personnel, including, but not limited to the following:

    a. Heat stress

    b. Fire prevention and protection plan

    c. Fall protection and prevention program

    d. Confined Space Entry

    e. Special Equipment

    f. Ergonomics

    g. Contingency Plan for emergency including fire, earthquake, etc.

13. Site Access Control Plan covering Contractor and City Site personnel, consultants, and representatives, the public, and Site visitors.

14. The Contractor's alcohol and substance abuse program shall describe the measures that Contractor will implement to ensure that all Contractor personnel working on the Project comply with the drug and alcohol restrictions stated in the Contract and in the Contractor's Corporate Policy and Program. Contractor's and subcontractor's personnel shall not use any alcohol or controlled substance when performing the Work, and Contractor shall not allow any person on the Site who is under the influence of any alcohol or controlled substance, including any prescription the negatively affects alertness or performance.

15. Completed Activity Hazard Analysis (AHA) or Job Hazard Analysis (JHA) submitted with the HASP using the AHA/JHA template for all significant activities

and tasks with a high-risk potential, describing the job steps, hazards associated with each job step, and the controls used to remove or minimize the associated hazards.

Activity Hazard Analysis (AHA):
https://www.navfac.navy.mil/content/dam/navfac/NAVFAC%20Atlantic/NAVFAC%20Southeast/PDFs/Safety/se_sf_activity_hw_trn.pdf

Job Hazard Analysis (JHA) Form:
https://www.osha.gov/Publications/osha3071.pdf

G. The City reserves the right to require that Contractor modify the HASP to address Site safety issues. However, the City's action or lack thereof on the HASP shall not be construed to mean approval, or acceptance of Contractor's responsibility for compliance with the applicable laws and regulations.

1.7 INJURY AND ILLNES PREVENTION PROGRAM (IIPP) AND CODE OF SAFE PRACTICES (CSP)

A. The Contractor shall submit an Injury and Illness Prevention Programs (IIPP) and Code of Safe Practices (CSP) in accordance with this specification, CCR Title 8 and other applicable regulations. A copy of all applicable IIPP and CSPs must be on-Site at all times.

B. The City will not review IIPPs or CSPs for their content, nor will the City be liable for the Contractor's failure to have adequate IIPPs/CSPs or implement them. Submission to and receipt of IIPPs/CSPs to the City and regulatory agencies neither constitutes to the legality of the IIPPs/CSPs nor does it incur liability. Submission and receipt of IIPPs/CSPs to the City, or any review of the IIPPs/CSPs by the City, shall not be construed as approval of the Contractor's IIPPs/CSPs or any safety measures taken in or near the construction site.

C. Any changes or modifications to the Contractor's IIPP/CSP must be submitted to the City Representative. The modification shall be appended to the appropriate IIPP/CSP. All on-site personnel shall be fully informed of the modifications, changes, and required actions prior to conducting any additional work activities.

1.8 REQUIREMENTS OF THE CONTRACTOR'S PROJECT SAFETY REPRESENTATIVE

A. The Contractor shall designate in writing a responsible competent person at the Site as Project Safety Representative (PSR) whose principal duties shall be the prevention of accidents and the maintenance and supervision of safety precautions and programs in accordance with the requirements of applicable laws and regulations. The PSR is also a qualified person having the necessary training to be knowledgeable in the identification, control, and management of the hazardous materials encountered onsite.

B. The Contractor's Project Safety Representative (PSR) shall:

1. Be readily available (within 30 minutes of City request) to consult with the City Representative at the site during all Project working hours and shall be available 24 hours a day, 7 days a week by telephone or other approved means.

2. Have completed a 30-hour OSHA Certified Construction Safety training session and must submit documentation of such training to the City Representative.
3. Have completed the 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training Program
4. If more than one Project site working shift is initiated, the Contractor will have to ensure that provisions are made to have a qualified PSR to cover all Work shifts
5. Be knowledgeable with the safety provisions of Federal OSHA, Cal/OSHA and the requirements of this section.
6. Be currently certified in First Aid/CPR and be able to use an automatic external defibrillator (AED).
7. Possess qualifications, which include a minimum of three (3) years recent experience in conducting and supervising safety and health programs on construction projects similar to this Contract.
8. Be capable of performing safety inspections and accident investigations.
9. Perform twice daily inspections of their active field Work area(s) covering workplace conditions, physical facility safety, and employee Work practices. Any deficiencies and corrective actions shall be documented. The daily inspection reports shall be submitted by transmittal to the City Representative on a daily basis, by the next day. If daily inspection reports are not kept current, or are not furnished as specified above, then progress payments, and if necessary, final payment will be with held. Furnishing of daily inspection reports shall be done as incidental work.
9. Administer and enforce the site-specific Health and Safety Plan, Injury and Illness Prevention Plan (IIPP), and Code of Safe Practices (CSP).
10. Advise subcontractors, vendors, and visitors to the job site of potential hazards and the requirements of Health and Safety practices and rules.
11. Coordinate subcontractor's Work regarding hazardous material procedures and controls (as required).
12. Establish and maintain restricted Work Areas.
13. Enforce proper use of personal protective equipment.
14. Communicate approved modified safety requirements to Site personnel as well as visitors to the site.
15. Notify to and coordinate with the City Representative for the immediate assessment and remediation Work for unforeseen hazardous materials conditions discovered in the course of the Work.
16. Have "Stop Work Authority" – the ability to stop Work without any adverse consequences when unsafe conditions are present.

1.9 TRENCHING AND SHORING

A. Trench Safety: Contractor shall comply with all shoring and excavation requirements set out in Federal OSHA (29 CFR 1926.650-652), Cal/OSHA (Construction Safety Order 1539-1544), the California Labor Code, and the Contract Documents.

B. Federal and State Safety regulations requires

1. Safe Exits; A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are 4 feet or more in depth so as to require no more than 25 feet of lateral travel for employees.

2. Shoring is required for trenches at 5 feet depth or greater, and must be designed to prevent cave-ins. Shoring may be required for trenches less than 5 feet in depth unless excavations are made entirely in stable rock or examination of the ground by a competent person provides no indication of a potential cave-in.

3. Keep excavated materials at least 2 feet or greater from the side of the excavation.

1.10 CONFINED SPACE ENTRY

A. Contractor shall provide all equipment and assistance to make the confined space safe for entry by Contractor's personnel, the City representatives, and its consultants in accordance with the California Code of Regulations, Title 8, General Industry Safety Orders, "Confined Spaces."

B. If any activities associated with confined space entry become necessary, the Contractor shall be required to consult the City for guidance and prepare an appropriate Permit-Required Confined Space Entry Plan.

1.11 ELECTRICAL LOCKOUT/TAGOUT PROCEDURES

A. Training of Contractor's employees in procedures for locking out and tagging out of electrical equipment that must be de-energized to accommodate the Work.

1. The lockout/tag out of electrical energy sources shall occur at the circuit disconnect switch in all cases.

2. The Contractor shall furnish locks used for this purpose.

3. Contractor shall furnish tags, locks, and lock box(s) that are compatible with electrical distribution equipment to be de-energized.

B. Contractor shall attach white "DANGER" tags to locked switches to indicate that the circuit must not be energized.

C. Red "DANGER" tags shall be used to indicate that Contractor personnel are actively working on equipment or lines connected to the locked switch. If the task that requires locking the switch has not been completed at the end of a shift or workday, the Contractor shall leave the switch lock in place, remove its Red Tag, but leave the White Tag in place on the locked circuit. When Contractor resumes that Work, the Contractor will again attach a Red Danger tag to the locked switch

1.12 CONSTRUCTION EQUIPMENT AND TOOLS

A. Contractor shall only use construction equipment and tools designed and intended by the manufacturer for the Work. All Contractor equipment shall conform to Cal/OSHA requirements.

B. Contractor shall not use and remove from the Site at it's expenses any equipment that the City determines is unsafe, not intended for the Work, or that does not meet Cal-OSHA requirements.

1.13 PERSONAL PROTECTIVE EQUIPMENT (PPE)

A. Contractor shall define task-specific PPE requirements for all personnel in compliance with applicable laws, rules, and regulations. PPE shall be worn at all times on the Site, including travel within the Site when starting or ending shifts. Minimum requirements include:

1. Hard hats are required at all times at the Site. Hardhats shall show company name.

2. Appropriate eye and face protection that complies with ANSI Z87 shall be worn at all times.

3. Safety glasses with side shields are required at the Site.

4. Sensible and safe Work clothing and closed-toe shoes must be worn at the Site.

5. No canvas/leather sneakers or sandals will be worn in the project work areas.

6. Appropriate hearing protection shall be worn at the Site where sound levels exceed Cal/OSHA standards.

7. Suitable gloves must be worn to protect the hands from injury as required by Cal/OSHA.

8. High visibility warning vests (ANSI class 2 vests) or other suitable garments marked with or made of reflection or high-visibility material must be worn at all times at the Site.

9. Within a Cal/OSHA asbestos Regulated Areas, suitable protective clothing and respiratory protection in accordance with 8 CCR § 1529 as prescribed by the Asbestos Competent Person (ACP).

B. The Contractor's PSR and/or ACP shall establish additional appropriate levels of protection for each Work task in accordance with Cal/OSHA standards.

C. If respiratory protection is utilized, the Contractor shall implement a Respiratory Protection Program in caccordance with Cal/OSHA requirements. The Contractor will also provide the following to the City Representative prior to beginning any portion of Work that requires respiratory protections:

1. Copies of the Respiratory Program

2. Respirator training records

3. Fit-testing and medical approval documentation

4. Annual documentation for training, fit testing and medical evaluations

D. Contractor shall provide appropriate respiratory equipment to its personnel and visitors. Contractor shall inspect and maintain equipment in accordance with Cal-OSHA regulations.

E. Where "Hot Work" is involved, a Hot Work permit must be submitted to the City Representative prior to commencing that Work. Personnel performing Hot Work must wear clothing that provides therman protection. Contractor shall erect welding screens where welding operations may expose its personnel or the public to welding sparks, light and other hazards.

F. Safety harnesses must be worn by personnel in manlifts and when working at heights, in accordance with OSHA requirements in manlifts.

G. Workers must wear a safety harness with their safety lanyard secured to a separate lifeline while working from swing scaffolds, boatswain's chairs, or other suspended Work platforms that present a fall hazard.

1.14 EMERGENCY EQUIPMENT

A. The Contractor shall provide emergency and first aid equipment required by Cal-OSHA and other applicable regulations and necessary for the Project. The following items, at a minimum, shall be maintained at the Site and available for immediate use:

1. First aid equipment and supplies, including first aid kits and eyewash station per Cal/OSHA standards

2. Spill control materials and equipment, including multi-purpose absorbent materials, poly bags, brooms and shovels and drums (if applicable)

3. Fire extinguishers with a minimum rating of 2A-10B:C and as required by Cal/OSHA standards for scope of Work requirements

4. Emergency rescue equipment including SCBA and tripod/extraction equipment for confined space rescue; backboard/basket for transport of injured personnel, air horns/bull horns for emergency signaling and communications (as applicable to the Work).

5. All Contractor's boats and vessels used on the project shall comply with the U.S. Coast Guard and Cal/OSHA and all applicable regulations for working in/around water and waterways.

1.15 HAZARDOUS MATERIALS ENCOUNTERED AT THE SITE

A. Proposition 66 Warning: Many of the materials and items at the Site contain materials known to the State of California to be either carcinogenic, reproductive toxins, or that may be otherwise toxic or hazardous.

B. The Contractor shall ensure that all personnel, including subcontractors' personnel, receive appropriate training and orientation concerning toxic and hazardous materials that will prevent inadvertent or unauthorized disturbance of hazardous materials present at the Site.

C. The Contractor shall comply with all applicable requirements of the California Code of Regulations, Title 8, Section 1532.1, "Lead in Construction".

D. The Contractor shall take necessary precautions to prevent the release of lead and/or asbestos in the form of dust, fumes or mists from lead-containing and asbestos-containing materials into the air or into surrounding environments.

E. The Contractor shall inform all workers, supervisory personnel and authorized visitors to the Site of the potential hazards of lead and asbestos and of necessary precautions and housekeeping procedures to reduce the potential for exposure in areas where lead or asbestos is known to be present.

1.16 HAZARDOUS MATERIALS THAT MAY BE INCORPORATED INTO THE WORK

A. The Contractor shall maintain copies of Safety Data Sheets (SDS) for all substances used at the Site or incorporated into the Work.

B. The Contractor shall be responsible for coordinating the exchange of SDS or other hazard communication information that is required to be made available to or exchanged between subcontractors at the site.

C. The Contractor shall notify the City if a specified product or piece of equipment, or the intended use of such product or equipment is unsafe, prior to ordering such items or incorporating such items into the Work.

D. The Contractor shall be responsible for complying with all BAAQMD regulations regarding the use, documentation and notification procedures related to asbestos-related construction Work, use of aerosol products and products that are with the limits for Volatile Organic Compounds (VOC's) and other limits for compounds regulated by BAAQMD.

1.17 MEETINGS

A. The Contractor shall conduct regular trainings for its personnel, including but not limited to "toolbox/tailgate" safety meetings, in accordance with Cal/OSHA requirements. Contractor shall document the date, time, subject addresses, and names of persons who attended any training meetings using the Safety Meeting Attendance sheet, which Contractor shall submit to the City Representative.

B. The Contractor's Project Manager, Superintendent(s), and PSR shall attend City Representative meetings (as required) to review the project's Immediately Dangerous to Life and Health (IDLH) activies, stop Work activities, incidents, and incident investigations.

1.18 LOGS, REPORTS, AND RECORDKEEPING

A. Contractor shall maintain Project safety audits, employee training records and certifications, equipment safety inspection logs, incident reports, and all reports covering the implementation of Contractor HASP at the Site for review upon request by the City Representative.

B. Contractor shall submit Monthly project safety statistical report to City Representative, which shall include Project safety inspections, hours worked by Contractor, OSHA Recordable Incidents, Incident Rates, Lost Work Day Cases, Total Project Lost Work Days, Days Away from Work Rate, First Aid Cases, and Property Damage Incidents.

C. Contractor shall provide the Engineer access to the Site, and to all logs and records concerning the Work. The City's review of Contractor's logs and records documenting its safety performance shall not be construed as approval or waiver of the adequacy of any safety measures taken in, on, or near the Site or Construction Area. The City's reivew of Contractor's logs and records shall not relieve the Contractor of its responsibilities of performing and enforcing health and safety inspections/audits, monitoring, or any other components of the Project safety requirements or Contractor's HASP, and any liability that may arise from Contractor's performance or failure to perform safety Work.

1.19 REMEDIAL ACTION

A. The City Representative will issue a notice of non-compliance if City personnel observe any condition at the Site that poses an immediate and serious risk to the life or health of persons at the Site, or if City personnel observe that Contractor has failed to timely correct violations of health or safety standards. The notice will document the facts and circumstances of non-compliance and will require the Contractor to immediately remedy and correct the non-compliance and confirm in writing within 24 hours of receipt of the notice that the non-compliant conditions described in the notice have been corrected.

B. If Contractor repeatedly fails to comply with applicable health and safety laws, rules, regulations, and orders, the City reserves the authority to have the necessary Work performed by others and deduct corresponding costs from Contractor's progress payment(s); suspend progress payments; or terminate the contract for cause.

C. The Contractor's non-compliance with applicable health and safety laws, rules, regulations, orders, and contract safety requirements may be deemed breach of contract, for which the City Representative may suspend the Work, and dismiss from the Work any employee of the Contractor, Subcontractor, or Supplier responsible for the non-compliance, as provided in the General Provisions. The Contractor shall bear all costs arising from such suspension of Work or dismissal of employee(s).

D. The Contractor shall not create any condition that endangers the safety of any person on the Site or in the Consruction Area, including City employees, City subcontractors, City consultants, and the public. If City personnel observe such a condition, the Engineer is authorized to suspend the Work until the condition is corrected. Such order to suspend the Work shall not impose on the City any obligation, penalty, additional costs or assumption of liability of any kind. Contract Time shall not be extended by such suspension, and the Contractor shall be solely responsible for and the City shall not compensate Contractor for any delay caused by a suspension of the Work due to unsafe conditions. Any suspension of Work due to unsafe conditions shallnot relieve the Contractor of its control of the Site or responsibility for safety on the Site during the period the Work is suspended.

1.20 INCIDENT REPORTING AND INVESTIGATION

A. Contractor personnel who are involved in or witness an unsafe condition at the Site or a Reportable Incident (as defined by Cal-OSHA) shall immediately report the condition or incident to the Contractor's Site supervisor or foreman, who in turn shall immediately notify the City Representative.

B. Contractor personnel who are involved in or witness a near-miss incident must report it to the responsible Site supervisor or foreman within a reasonable time frame, not to exceed 24 hours, who in turn shall immediately notify the City Representative.

C. Contractor will allow City Representative to participate and review all Project incident or near-miss investigations.

D. Contractor's foremen, superintendants, and managers shall not decline to accept or relay a report of injury or significant near-miss incident from ay person.

E. All incidents and significant near-miss incidents shall be investigated immediately by the Contractor's designated Project Safety Representative (PSR).

F. Contractors must investigate incidents or near-miss incidents and submit an initial investigation report to the City Representative using a Contractor Incident or Near-Miss Incidents Investigation Report form within 24 hours of learning about the incident or near-miss incident. Contractor shall submit a Final Incident or Near-Miss Incidents Report identifying all causes of the incident within 48 hours of the occurance of the incident.

G. Contractor shall submit a Corrective Actions Report for the incident or near-miss incident which address all causes to the City Representative. Contractor shall not perform Work in the area of incident or near-miss incident until the Corrective Action Report is submitted, all corrective actions are fully implemented, and job site hazards and behaviors that caused the incident or near-miss incident are corrected by the Contractor.

1.21 ACCIDENT DOCUMENTATION AND REPORTING

A. If an incident causes death, serious injury, or serious property damage, Contractor shall immediatley report the incident to the City Representative by telephone, text message or email and to appropriate authorities (for example, Cal-OSHA). In addition, the Contractor shall promptly report in writing to the City Representative all reportable incidents and near-miss incidents in Part 1.20 above whatsoever arising out of or in connection with, the performance of the Work whether on occurring on the Site or in the Construction Area, stating details of the facts and circumstances of the cause and nature of the incident including statements of witnesses.

B. Contractor shall make positive contact with City representative. Voicemail does not constitute "positive contact." Contractor shall escalate from inspector, to Assistant Resident Engineer (ARE), to Resident Engineer (RE), to Contruction Manage (CM), to Section Manager, to Deputy Bureau Manager until positive contact is made immediately following an incident.

C. The Contractor shall provide to the City Representative within five working days of an incident written incident and near-miss incident reports. A significant accident is defined to include events where personal injury is sustained, or property loss of

substance is sustained, or where the event posed a significant threat of loss or personal injury.

D. If any person lodges a claim against the Contractor or any subcontractor alleging injury or property damage arising from the Work, the Contractor shall promptly report the claim and al relevant facts concerning the clain in writing to the City Representative.

E. The Contractor is responsible for all documentation and reporting obligations of any accident and near-miss incidents in accordance with as per federal, State and local laws and regulations.

1.22 CITY SAFETY REPRESENTATIVE

A. The City may at any time and without notice enter the Site and inspect the Site and the Work, observe Contractor's means and methods of performing the Work and maintenance of the Site, and review Contractor's compliance with applicable safety requirements, regulations and laws, including but not limited to the requirements of this Contract and Cal-OSHA regulations. The purpose of the City's inspections and observations is to confirm that Contractor is to safeguard City personnel and property.

B. If the City's representative observes an unsafe Site condition or unsafe means or methods of performing Work, the City's representative will so inform the Contractor's Site superintendent of safety manager, who shall take whatever actions Contractor deems necessary to immediately remedy the unsafe Site condition or unsafe work practice, or unsafe means or methods in which the Work is peformed. Contractor shall within 24 hours of taking such remedial action submit a report to the Engineer describing the unsafe Site condition or work practice, and how Contractor remedied that unsafe condition, unsafe work practice, or unsafe means and methods of performing the Work.

C. The City's inspection of the Site and the Work, the City's observation of Contractor's means and methods, and the City's requiring the Contractor remedy an unsafe Site condition, unsafe work practice, or unsafe means and methods of Work shall not in any way relieve Contractor of control of and responsibiliity for the Site, and does not relieve Contractor of its responsibility for the safety of all persons on the Site.

PART 2 – PRODUCTS
(Not used)

PART 3 - EXECUTION
(Not used)

END OF SECTION

SECTION 01 35 49

MINIMUM ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes minimum provisions for compliance with City, state, and federal laws and regulations for environmental protection, and notes to which Standard Construction Measure (SCM) the section refers.

1. Geotechnical Considerations (SCM-1): For projects involving excavation in the public right-of-way, Contractor is directed to Article 2.4 of the San Francisco Public Works Code, "Excavation in the Public Right-of-Way" and San Francisco Public Works Order No. 187,005, "Regulations for Excavating and Restoring Streets in San Francisco." It is unlawful for any person to make or to cause or permit to be made any excavation in any public right-of-way that is under the jurisdiction of the Public Works without first obtaining from Public Works a permit authorizing such excavation.
2. Air Quality (SCM-2): For execution, see 3.1 of this section.
3. Water Quality (SCM-3). For execution, see 3.2 of this section.
4. Traffic (SCM-4): For execution, see 3.3 of this section.
5. Noise (SCM-5): For execution, see 3.4 of this section.
6. Hazardous Materials (SCM-6)
   (a) Refer to applicable Divisions 01 and 02 Hazardous Materials-related specifications.
7. Bird Protection (SCM-7): For execution, see 3.5 of this section.
8. Tree Conservation (SCM-7): For execution, see 3.6 of this section.
9. Environmentally Sensitive Area (SCM 7, SCM-9): For execution, see 3.7 of this section.
10. Construction Staging (SCM-8): For execution, see 3.8 of this section.
11. Archaeological and Paleontological Discovery (SCM-9): For execution, see 3.9 of this section.

B. This section is to be understood as follows:

1. **1.4(B) Regulatory Requirements**, supplemented by the **1.2 References** section, list the state, federal, and City requirements addressed by this section.
2. **1.6 Project Conditions** contains determinations as to what factors determining means of environmental compliance with state, federal, and City requirements are present for the project.
3. **3 Execution** provides specific execution requirements for compliance, some of which are conditional and triggered by the conditions listed **in 1.6 Project Conditions.**
4. Submittals triggered by conditional execution requirements are noted as such in **1.4 Submittals**.

C. Related Sections:

1. Section 00 41 00 Bid Form
2. Section 01 35 50 Additional Environmental Procedures
3. Section 01 41 00 Regulatory Requirements
4. Section 01 31 19 Project Meetings
5. Section 01 57 13 Stormwater Best Management Practices (BMPs)
6. Section 01 57 26 Temporary Protection of Catch Basins and Storm Drain Inlets
7. Section 02 81 10 Environmental Management of Excavated Materials

1.2 REFERENCES

A. Refer to the following references:

1. American National Standards Institute (ANSI). 2008. *American National Standard for tree care operations – Tree Shrub and Other Woody Plant Maintenance – Standard Practices (A300 Part 1): Pruning.* New York, NY
2. American National Standards Institute (ANSI). 2006. *Safety Requirements for arboricultural Operations (Z133).* New York, NY
3. Asbestos Airborne Toxic Control Measure For Construction, Grading, Quarrying, And Surface Mining Operations (California Code Of Regulations Title 17, Section 93105)
4. Bald and Golden Eagle Protection Act, 16 USC § 668
5. Bay Area Air Quality Management District, "Current Rules". Available at http://www.baaqmd.gov/rules-and-compliance/current-rules
6. Bay Area Air Quality Management District, *California Environmental Quality Act Air Quality Guidelines.* May, 2017. Available at http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa
7. Berglund, B. *Guidelines for Community Noise - A complete, authoritative guide on the effects of noise pollution on health.* World Health Organization, Geneva, 1999
8. California Code of Regulations, Title 8 Sec. 1592
9. California Department of Food and Agriculture, 2014. *Plant Quarantine Manual*, 3700. Oak Mortality Disease Control.
10. California Department of Transportation, *Storm Water Quality Handbooks Construction site Best Management Practices Manual.* Available at http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm
11. California Fish and Game Code §§ 3503, 3513, and 3800
12. California State Water Resources Control Board, Construction General Permit Order
13. California Storm water Quality Association, *Construction Best Management Practice Online Handbook.* Available at https://www.casqa.org/resources/bmp-handbooks
14. City and County of San Francisco Municipal Transportation Agency, 2012. *Regulations for Working in San Francisco Streets*, 8th ed.

15. City of San Francisco, June 27, 2006. "Pruning Standards for Trees". Available at http://sfdpw.org/sites/default/files/FileCenter/Documents/234-SF_Pruning_Stds_6.27approved.pdf
16. Federal Migratory Bird Treaty Act (16 USC § 703–711, 50 CFR 10)
17. Geological Features & Special Permits (California Public Resources Code Section 4307 and Section 4309)
18. National Historic Preservation Act of 1966, (16 U.S.C. 470)
19. Native American Historic Resource Protection Act; Archaeological, Paleontological, and Historical sites; Native American Historical, Cultural, and Sacred sites (California Public Resources Code Section 5097-5097.993)
20. Nuru, M. "Standard Construction Measures for all Public Works Projects". San Francisco Public Works, July 1, 2017
21. San Francisco Department of Public Health, "Monitoring Guidelines for SFHC Article 22B"
22. San Francisco Industrial Waste Ordinance #19-92
23. San Francisco Planning Department, "Consultant & Sponsor Resources". http://sf-planning.org/consultant-sponsor-resources
24. San Francisco Police Code, Article 29, Ordinance #274-72 ("Noise Ordinance")
25. San Francisco Public Health Code, Article 22B
26. San Francisco Public Utilities Commission, "Re: Application of the Storm water Design Guidelines Requirements to the Public Right-of-Way", Rev. September 2013. Available at http://www.sfwater.org/modules/showdocument.aspx?documentid=4228.
27. San Francisco Public Utilities Commission, *Construction Best Management Practices Handbook*. Available at http://sfwater.org/index.aspx?page=235
28. San Francisco Public Works Code, Article 4.1 Sewer Use Ordinance
29. San Francisco Public Works Code, Article 4.2 Sewer System Management Ordinance
30. San Francisco Public Works Code, Ordinance No. 260-13, Construction site Runoff Ordinance
31. San Francisco Public Works Dust Control Order (DPW Order No. 171,378)
32. San Francisco Public Works Order No. 158,170, "Wastewater discharges into the City sewerage system"
33. San Francisco Public Works Order No. 178.940, "Regulations for Excavating and Restoring Streets in San Francisco"

1.3 DEFINITIONS

A. For the purposes of this Section, the following definitions apply:

1. Air Pollutant Exposure Zone: A zone having a substantially greater than average concentration of air pollutants as defined in Health Code Section 3804.
2. "ALERT" sheet: Single-page flyer produced by the San Francisco Planning Department and provided to the contractor by the City Representative, containing a notification that the project site may be located in an archaeologically sensitive area.

3. Alternative Fuels: Any transportation fuel that is less polluting than gasoline or petroleum diesel fuel, as determined by the California Air Resource Board and that is shown to have lower lifecycle carbon emissions than gasoline or petroleum diesel. Alternative Fuels may include, but are not limited to: natural gas; propane; biofuels from low carbon, sustainable and preferably local sources; hydrogen produced from low carbon and/or renewable sources; and electricity.
4. Alternative Sources of Power: Utility-based electric power or other power sources other than diesel engines.
5. ARB: The California Air Resources Board.
6. Archaeological resources: Remains of past human activity, including historic and prehistoric material such as tools and tool fragments, hearth and food remains, structural remains, and human remains.
7. Bridge: A structure that carries a utility or railroad or vehicle, pedestrian, or other traffic over, under, or around obstructions or waterways.
8. Building: A building as defined in the San Francisco Planning Code Section 102, "Definitions".
9. Clean Construction: The performance of all work required to be performed under a Public Works contract meeting the requirements in Sections 2504, 2505 and 2506 of the Environment Code, as applicable.
10. Construction Activities means the performance of all work involved in or required for Construction, except for the issuance or obtaining of a site permit for a project.
11. Construction means building, demolition, excavation, grading or foundation work, whether or not the work requires a City permit.
12. Construction Phase: A particular construction activity over a certain period of time. Construction phases may include, but are not limited to, demolition, site preparation, grading, building construction, architectural coatings, and paving. Multiple Construction Phases of a single project may take place at the same time.
13. DPH: The San Francisco Department of Public Health.
14. Environmentally sensitive area: Area within or near construction limits where access is prohibited or limited in order to protect environmental resources.
15. Equipment Type: A category of off-road equipment. Types of off-road equipment include bore/drill rigs, cranes, crawler tractors, excavators, graders, off-highway tractors, off-highway trucks, other construction equipment, pavers, paving equipment, rollers, rough terrain forklifts, rubber-tired dozers, rubber-tired loaders, scrapers, skid steer loaders, surfacing equipment, tractors/loaders/backhoes, and trenchers.
16. Feasible: When applied to an action required of the Contractor, that action, in the opinion of the City Representative, can be accomplished without resorting to extraordinary means and measures.
17. Inactive nests: Nests that do not contain eggs, chicks, or raptors displaying reproductive behavior.
18. Land disturbance: Any movement of earth or a change in the existing natural soil cover or existing topography that may result in soil erosion from wind, or water, and the moving of sediments into or upon waters, lands or public rights-of-way within the City of County of San Francisco, including, but not limited to building

demolition, clearing, grading, grubbing, filling, stockpiling, excavating and transporting over land.

19. Major Construction Project: A public work to be performed within the geographic limits of the City that uses off-road equipment and that is estimated to require 20 or more cumulative days of work, including non-consecutive days, to complete.

20. Most Effective Verified Diesel Emission Control Strategy (VDECS): a device, system or strategy that is verified, pursuant to Division 3, Chapter 14, of Title 13 of the California Code of Regulations, to achieve the highest level of pollution control tram an off-road vehicle.

21. Nesting Season: The City anticipates nesting or attempted nesting by migratory and non-game birds from February 15 to August 31.

22. Off-Road Engine: A non-road engine as defined in Title 40 of the Code of Federal Regulations, Section 89.2.

23. Off-Road Equipment: Equipment with an off-road engine having greater than 25 horsepower and operating for more than 20 total hours over the entire duration of Construction Activities.

24. On-Road Equipment: A heavy-duty vehicle as defined in Title 40 of the Code of Federal Regulations, Section 86.1803-01.

25. Paleontological resources: Fossils and the deposits in which they are found. Fossils are evidence of ancient life preserved in sediments and rock. Examples of paleontological resources are the remains of (1) animals, (2) animal tracks, (3) plants, and (4) other organisms. Archaeological resources are not paleontological resources. Fossils found within an archaeological resource are generally considered archaeological not paleontological resources.

26. Plant species that may harbor Phytophthora: The City considers host species to include: Coast Live Oak (Quercus agrifolia), Canyon Live Oak (Quercus chrysolepis), California Black Oak (Quercus kelloggii), Shreve's Oak (Quercus parvula var. shrevei), Tanoak (Notholithocarpus densiflorus), California bay laurel (Umbellularia californica), Rhododendron (Rhododendron species), and Camellia (Camellia species).

27. Portable Diesel Engine: A diesel engine that is portable as defined in 71 California Code of Regulations, Section 93116.2(bb).

28. Rain event: A rain event is a forecast for the project area by the National Weather Service of a 50 percent chance of occurrence within the following 72 hours of an amount of precipitation of 0.50 inch or greater.

29. Rainy season: Refer to General Conditions, Section 00 72 00 of the Project Manual for the dates of the rainy season.

30. Sensitive receptor (air quality): Means residence, school, childcare center, hospital or other health-care facility or group living quarters.

31. Sensitive receptor (noise): Any environment listed in *Guidelines for Community Noise - A complete, authoritative guide on the effects of noise pollution on health* (World Health Organization, Geneva, 1999). Table 4.1, for which the recommended noise levels are low, as low as possible, or a maximum LA_{eq}[dB] <70. These include:
    (a) Outdoor living areas
    (b) Dwellings, indoors
    (c) Inside bedrooms
    (d) Outside bedrooms (window open)
    (e) School class rooms and pre-schools, indoors

(f) Pre-school bedrooms, indoors
(g) School, playground outdoor
(h) Hospital, ward rooms, indoors
(i) Hospitals, treatment rooms, indoors
(j) Outdoors in parkland and conservation areas

32. Sensitive Use: A category of building use identified as a Sensitive Use in Health Code Section 3804.

33. Soil: Native fill, or introduced earthen fill. It does not include materials that were previously introduced as part of roadway pavement section (including asphalt concrete wearing surface, roadway base, and subbase).

34. Standard Construction Measures (SCMs): The City has established Standard Construction Measures that are contained in the project's Categorical Exemption Determination. As applicable, Contractor-related measures are included in this section, or their location is indicated in 1.1(B) of this section.

35. Take: Legal definition regarding harm to protected species as defined in 16 USC § 1532 and California Fish & Game Code § 86.

36. Tier 2 Off-Road Emission Standards: The Tier 2 new engine emission standards in Title 13, California Code of Regulations, Section 2423(b)(1)(A) and/or Title 40, Code of Federal Regulations, Part 89.112(a).

37. VDECS: A verified diesel emission control strategy, designed primarily for the reduction of diesel particulate matter emissions, which has been verified by ARB pursuant to Verification Procedures, Warranty and In-Use Strategies to Control Emissions from Diesel Engines, Title 13, California Code of Regulations, Sections 2700-2710. VDECS can be verified to achieve Level 1 diesel particulate matter reductions (at least 25 percent), Level 2 diesel particulate matter reductions (at least 50 percent), or Level 3 diesel particulate matter reductions (at least 85 percent).

38. Visible dust: Dust comprising visible emissions as defined in Bay Area Air Quality Management Board Regulation 6 – Particulate Matter.

1.4 SUBMITTALS

A. Contractor is directed to 1.6 PROJECT CONDITIONS and PART 3 EXECUTION of this section for which of the following submittals are required.

B. Where required by 1.6(B) and 3.1(C) of this section, Contractor shall submit Contractor's initial Dust Control Plan no less than 28 days prior to mobilization. Dust control plan shall conform to the following:

1. The site-specific dust control plan shall contain mapping identifying locations of sensitive receptors.

2. The site-specific dust control plan shall contain site-specific dust monitoring and control measures that will apply to the project. These site-specific measures may include the following or equivalent measures, which accomplish the goal of minimizing visible dust:
   (a) Wetting down areas around soil improvement operations, visibly dry disturbed soil surface areas, and visibly dry disturbed unpaved driveways at least three times per shift per day.
   (b) Analysis of the wind direction.
   (c) Placement of upwind and downwind particulate dust monitors.
   (d) Recordkeeping for particulate monitoring results.
   (e) Hiring of an independent third party to conduct inspections for visible dust and keeping records of those inspections.

(f) Requirements for when dust generating operations have to be shut down due to dust crossing the property boundary or if dust is contained within the property boundary but not controlled after a specified number of minutes.
(g) Establishing a hotline for surrounding community members to call and report visible dust problems so that the Applicant can promptly fix those problem; posting signs around the site with the hotline number and making sure that the number is given to adjacent residents, schools and businesses.
(h) Limiting the area subject to excavation, grading, and other demolition or construction activities at any one time.
(i) Minimizing the amount of excavated material or waste materials stored at the site.
(j) Installing dust curtains, plastic tarps or windbreaks, or planting tree windbreaks on the property line on windward and down windward sides of construction areas, as necessary.
(k) Paving, applying water three times daily, or applying non-toxic soil stabilizers on all unpaved access roads, parking areas and staging areas at the construction site. Reclaimed water must be used if required by Article 21, Section 1100 et seq. of the San Francisco Public Works Code, Article 22. If not required, reclaimed water should be used whenever possible.
(l) Establishing speed limits so that vehicles entering or exiting construction areas shall travel at a speed that minimizes dust emissions. This speed shall be no more than the speed specified in paragraph 3.1B.
(m) Installing wheel washers to clean all trucks and equipment leaving the construction site. If wheel washers cannot be installed, tires or tracks and spoil trucks shall be brushed off before they reenter City streets to minimize deposition of dust-causing materials.
(n) Terminating excavation, grading, and other construction activities when winds speeds exceed 25 miles per hour.
(o) Hydroseeding inactive construction areas, including previously graded areas inactive for at least 10 calendar days, or applying non-toxic soil stabilizers.
(p) Sweeping of surrounding streets during demolition, excavation and construction at least once per day to reduce particulate emissions.

C. Where required by 1.6(A) and 3.1(E) of this section, Contractor will submit Construction Emissions Minimization Plan submittals:

1. Contractor shall submit Contractor's initial Construction Emissions Minimization Plan no less than 28 days prior to mobilization.

2. Contractor shall submit an updated Construction Emissions Minimization Plan on a quarterly basis, and submit each quarterly report within seven business days of the end of each quarter.

3. Contractor shall submit a final Construction Emissions Minimization Plan report summarizing construction activities within two weeks of achieving Substantial Completion.

4. Waiver Request: Contractor shall submit a waiver request to the DPH Head no less than two weeks prior to the planned use of a specific piece of off-road equipment.

5. The Emissions Plan shall include estimates of the construction timeline by phase, with a description of each piece of off-road equipment required for each Construction Phase.
   (a) The description may include, but is not limited to: equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, engine serial number, and expected fuel usage and hours of operation.

(b) For the VDECS installed, the description may include, but is not limited to: technology type, serial number, make, model, manufacturer, ARB verification number level, and installation date and hour meter reading on installation date.
(c) For off-road equipment using alternative fuels, the description shall also specify the type of alternative fuel.
(d) Contractor may use the Clean Construction Equipment Inventory Template to satisfy the Emissions Plan requirements. Refer to the following link for that template: https://www.sfdph.org/dph/EH/Air/CleanConstruction.asp

6. Submittal of initial, quarterly, and final Construction Emissions Minimization Plans is a prerequisite to payment.

7. The Contractor agrees to comply fully with the Emissions Plan and acknowledges that a significant violation of the Emissions Plan shall constitute a material breach of the Agreement. Contractor must submit a signed Clean Construction Emissions Plan Certification Statement to the City Representative. Contractor shall submit this statement with its Construction Emissions Minimization Plan. Refer to the following link for the Emissions Plan Certification Statement Template: https://www.sfdph.org/dph/EH/Air/CleanConstruction.asp

8. After City review and approval, the Contractor shall make the Emissions Plan available to the public for review onsite during working hours.
(a) The Contractor shall post at the construction site a legible and visible sign summarizing the Emissions Plan. Refer to the following link for the Clean Construction Sign Template: https://www.sfdph.org/dph/EH/Air/CleanConstruction.asp
(b) The sign shall also state that the public may ask to inspect the Emissions Plan for the project at any time during working hours, and shall explain how to request to inspect the Emissions Plan.
(c) The Contractor shall post at least one copy of the sign in a visible location on each side of the construction site facing a public right-of-way.

9. Reporting:
(a) After Construction Activities begin, the Contractor shall update the Emissions Plan on a quarterly basis documenting changes from the original plan and demonstrating compliance with the Emissions Plan. The report shall be submitted to the City Representative quarterly and a copy shall also be maintained at the construction site.
(b) Prior to receiving a Notice of Final Completion, or within six months of completion of Construction Activities if a final certificate of acceptance is not required, the Contractor shall submit to the City Representative a final report summarizing Construction Activities, including the start and end dates and duration of each Construction Phase, and the specific information required in the Emissions Plan.

D. Where required by 1.6(C), 1.6(D), and/or 1.6(E), and 3.2 of this section, contractor shall submit Construction Erosion Control Submittals:

1. Contractor must submit documentation of the approval of the Erosion and Sediment Control Plan (ESCP) and/or Stormwater Pollution Prevention Plan (SWPPP) by the San Francisco Public Utilities Commission and/or the Regional Water Quality Control Board to the City Representative before the beginning of construction.

2. For project work within the jurisdiction of the Port of San Francisco (Port), contractor shall provide the City Representative before the beginning of construction with the Port's written assent that the Port's construction-stormwater requirements have been met.

3. Contractor shall provide written and schematic details to the satisfaction of the City Representative of site-specific implementation of the Best Management Practices (BMPs) of the ESCP or SWPPP to be applied before the beginning of construction.
   (a) Descriptions of BMPs and their implementation may be found at:
      (i) SFPUC's Construction Best Management Practices Handbook, available for download at: http://sfwater.org/
      (ii) California Stormwater Quality Association's Construction Best Management Practice Handbook, available for download at: https://www.casqa.org/
      (iii) Caltrans Storm Water Quality Handbooks Construction site Best Management Practices Manual available for download at: http://www.dot.ca.gov/hq/construc/stormwater

E. Qualification Data: For firms and persons specified in subsection 1.5 "Quality Assurance" of this Section to demonstrate their capabilities and experience.

F. Where required by 3.6(D) of this section, Contractor shall provide City Representative with documentation of disposal of plant materials potentially harboring the *Phytophthora ramorum* pathogen.

G. Written and/or photographic documentation of methods for avoidance of Environmentally Sensitive Areas, where Environmentally Sensitive Areas are shown on project plans.

H. The contractor shall submit the "ALERT" sheet affidavit where required by 1.6(G) and 3.9(B) (2) of this section within five business days of the start of construction activities.

I. The contractor shall provide to the City Representative documentation of an approved SFPUC sewer-discharge permit in advance of any discharge of runoff and dewatering into the City's combined sewer system.

J. Where required by 1.6(I) and 3.1(B)(11)(b) of this section, the contractor shall provide a copy of written notice, accompanied by proof of submittal, provided to the Bay Area Air Quality Management District in accordance with the requirement of the "Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations," in advance of roadway construction and maintenance activities in areas soils containing naturally occurring asbestos. The contractor shall use the "Notification Form for Road Construction and Maintenance Operations" provided at BAAQMD's website at http://www.baaqmd.gov/permits/asbestos/naturally-occuring-asbestos.

K. Contractor shall pay all costs associated with the obtaining of and compliance with any required permits in this subsection 1.4.

1.5 QUALITY ASSURANCE

A. Qualifications

1. Qualified Acoustical Consultant: A Board Certified Institute of Noise Control Engineering (INCE) member or other qualified consultant or engineer approved by the City Representative.

2. Qualified Arborist: The Qualified Arborist is one provided by Contractor who possesses a professional certification from the International Society of Arboriculture, and/or possesses a valid C-27 and/or a C-61/D-49 license in the State of California.

3. Specialty Environmental Monitor – archaeologist: One who in the determination of the City representative is qualified to monitor land-disturbing activities for effects to buried archaeological resources.

4. Qualified Biologist: The Qualified Biologist is one provided by Contractor whose activities must be approved by a state or federal agency as provided in applicable permit, license, agreement, certification, or any combination of these. In the event that none of these apply, the biologist must possess at a minimum a bachelor's degree in Wildlife Biology or a closely related discipline, as approved by the City Representative.

5. Qualified Historic Architect or Historic Preservation Professional: Any consultant within the "Historic Resource Consultant Pool" as established by the San Francisco Planning Department.

6. Qualified SWPPP Practitioner (QSP): Individual who is authorized by the State Water Resources Control Board (SWRCB) to develop and revise Storm water Pollution Prevention Plans.

B. Regulatory Requirements

1. All work shall comply with the following:
   (a) Bald and Golden Eagle Protection Act, 16 USC § 668.
   (b) Bay Area Air Quality Management District (BAAQMD), Current Rules.
   (c) BAAQMD Regulation 6-305, Particulate Matter and Visible Emissions, (http://www.baaqmd.gov/regs/rg0600.pdf)
   (d) California Fish and Game Code §§ 3503, 3513, and 3800
   (e) California State Water Resources Control Board, Construction General Permit Order
   (f) City and County of San Francisco Municipal Transportation Agency, *Regulations for Working in San Francisco Streets*, 8th ed., 2012.
   (g) Federal Migratory Bird Treaty Act (16 USC § 703–711, 50 CFR 10)
   (h) Geological Features & Special Permits (California Public Resources Code Section 4307 and Section 4309)
   (i) National Historic Preservation Act of 1966, (16 U.S.C. 470)
   (j) Native American Historic Resource Protection Act; Archaeological, Paleontological, and Historical sites; Native American Historical, Cultural, and Sacred sites (California Public Resources Code Section 5097-5097.993)
   (k) San Francisco Building Code Section 106.3.2.6, Ordinance 176-08 ("Construction Dust Control")
   (l) San Francisco Environment Code Section 2504-2405
   (m) San Francisco Health Code Article 22B – Construction Dust Control Requirements
   (n) San Francisco Police Code, Article 29, Ordinance #274-72 ("Noise Ordinance")
   (o) San Francisco Public Works Code, Article 2.4 ("Excavation in the Public Right-of-Way")
   (p) San Francisco Public Works Code, Article 4.1 ("Sewer Use Ordinance")
   (q) San Francisco Public Works Code, Article 4.2 ("Sewer System Management Ordinance")
   (r) San Francisco Public Works Code, Ordinance #19-92 ("San Francisco Industrial Waste Ordinance").
   (s) San Francisco Public Works Code Ordinance #175-91,Sections 1100-1107
   (t) San Francisco Public Works Code, Ordinance No. 260-13, ("Construction site Runoff Ordinance")
   (u) San Francisco Public Works Dust Control Order (Order No. 171,378)
   (v) San Francisco Public Works Order No. 158170, ("Wastewater discharges into the City sewerage system").

(w) San Francisco Industrial Waste Ordinance No. 116-97 (Chapter X (Public Works Code), Part II,
(x) San Francisco Public Works Order No. 1581-70 for wastewater discharges in to the City's sewerage system.
(y) Requirements for Batch Wastewater Discharges from the San Francisco Public Utilities Commission, Waste Water Enterprise (SFPUC-WWE).

C. The City will inspect and monitor Contractor's adherence to the requirements specified herein and will report on Contractor's compliance.

1. Said inspection, monitoring, and reporting activities may include, but are not limited to, qualitative, quantitative and photographic observations and data collection on the impacts of noise, vibration, air quality, traffic, street pavement damage, water quality, cultural resources, biological resources, and hazardous materials.

2. Contractor shall cooperate with such inspection and monitoring activities, provide access to the Work site to establish and secure monitoring stations, and make its facilities and records available to the City for performing such monitoring.

3. The City will issue a Non-Compliance Notice to Contractor for any detected non-compliance with the provisions herein or of any environmentally objectionable acts and the corrective action to be taken.

D. Accountability and Remedial Action

1. Contractor shall be held responsible for any damage resulting from Contractor operations, to natural vegetation, wildlife, cultural resources, waters of the State and of the United States and water quality, and any other environmental resources located either:
(a) Outside the Work areas permitted in the Contract Documents or
(b) Within Environmentally Sensitive Areas as per 3.7 of this section.

2. For the monetary consequences of failures to comply with this section, including but not limited to those resulting in monetary fines, requirements for restoration of or compensation for damage, additional environmental training, and/or project delays and/or stoppage of work, any and all costs or fines shall be paid by contractor.

1.6 PROJECT CONDITIONS

A. Project IS/ a major construction project as defined at 1.3(A)(19) above; IS within a sensitive receptor as defined at 1.3(A)(30) above; IS NOT in an Air Pollution Exposure Zone as defined at 1.3(A)(1) above, and IS within 100 feet of a school zone. (See 3.1(D) and 3.1(E) Air Quality of this section.)

B. The project WILL NOT grade or excavate more than one-half acre surface area at any given time, and the project IS within 1,000 feet of a sensitive receptor as defined at 1.3(A)(30) above. (See 3.1(C) Air Quality of this section.)

C. The project INCLUDES construction or demolition activity disturbing 5,000 square feet or more of the ground surface, measured cumulatively, including any land-disturbance as defined at 1.3(A)(18) above. (See 3.2(A) Water Quality of this section.)

D. The project DOES NOT FALL within the Municipal Separate Storm Sewer System (MS4) area as mapped by the San Francisco Public Utilities Commission, and includes land disturbance of one or more acres of soil, either as a single project or as part of a larger common plan of development. (See 3.2(B) Water Quality of this section.)

E. The project site(s) DO NOT INCLUDE areas under the jurisdiction of the Port of San Francisco. (See 3.2(C) Water Quality of this section.)

F. The project DOES NOT include the removal or pruning of trees, and/or DOES NOT include exterior work on buildings, and/or DOES NOT include construction on bridges. (See 3.5 Bird Protection of this section.)

G. Project INCLUDES soil disturbing activities below a depth of two feet below grade surface. (See 3.9(C) Archaeological and Paleontological Discovery of this section.)

H. The project DOES NOT include the disturbance by construction and grading unassociated with roadway construction and maintenance of soils known to contain naturally occurring asbestos exceeding one acre. (See 3.1(B)(11) Air Quality of this section.)

I. The project DOES NOT include the disturbance, by construction and grading associated with roadway construction and maintenance, of soils known to contain naturally occurring asbestos. (See 1.4(J) of this section.)

J. The project or a portion of the project IS NOT within the boundaries of an area of particular archaeological sensitivity and DOES NOT include land disturbance below two feet of the existing soil surface in such area. (See 3.9(A) Archaeological and Paleontological Discovery of this section.)

K. Project Weather-Condition Monitoring

1. Contractor shall monitor the National Weather Service forecast daily for forecasts of a rain event.

1.7 SEQUENCING

A. Preconstruction survey: When applicable, the preconstruction surveys to inspect for the presence of nesting birds shall be done 3 days before the commencement of construction activities.

B. When applicable, prior to start of construction, Contractor shall conduct a meeting with the City Representative to review the results of nesting surveys and determine protective measures. Contractor shall notify the City Representative at least 10 working days before convening meeting.

1. Conduct meeting at Project site to comply with requirements in Section 01 31 19 "Project Meetings."

C. In advance of construction, Contractor shall photograph all catch basins within the limits of work. Each catch basin shall have at least two photos, one from the top view and one from the side view along the flow line.

D. Submittals shall be submitted in accordance with the sequencing requirements of 1.4 of this section.

E. When applicable, in advance of construction, Contractor shall distribute "ALERT" sheet.

PART 2 - PRODUCTS

2.6 MATERIALS

A. Materials necessary to prevent construction debris from entering the sewer system.

B. For projects with a SWPPP or an ESCP, materials necessary for the implementation of construction-stormwater BMPs as specified in the SWPPP or ESCP.

C. For projects doing work affecting trees or bridges during nesting season, bird-exclusion netting, or other exclusion devices.

D. Materials necessary for compliance with the Noise Control Program.

E. Materials required for compliance with all measures under this Section.

F. Signage as required.

G. For projects with Environmentally Sensitive Areas indicated on the project plans, materials to be used for protection of Environmentally Sensitive Areas.

PART 3 - EXECUTION

NOTE: The Contractor is directed to 1.6 PROJECT CONDITIONS for determinations of project conditions that in turn determine which conditional requirements of this section apply. "Feasible" as used in the section is defined above at 1.3(A)(16) of this section.

3.1 AIR QUALITY

A. Contractor shall apply the following emissions controls:

1. Contractor shall ensure that all equipment is tuned and maintained in accordance with the manufacturer's specifications.
2. Contractor shall prohibit idling of motors when equipment is not in use or when truck are waiting in queues. The idling time of all construction equipment used at the site shall not exceed 5 minutes.
3. Contractor shall limit the hours of operation of heavy-duty equipment and/or amount of equipment in use to what is needed.
4. When feasible, alternative fuel or electrical construction equipment shall be used at the project site.

B. The Contractor shall ensure no visible dust, as defined in 1.3(A)(38) of this section, is generated through construction.

1. Contractor shall clean up spillage on City streets, whether directly or indirectly caused by Contractor's operations. All visible mud or dirt track-out from areas of land disturbance onto adjacent City streets shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
2. Minimize to the extent feasible the amount of excavated material or demolition wastes stored at the site. Remove demolition debris from the site no later than the end of each workday.
3. Contractor shall keep the site and adjacent areas clean and perform wet sweeping at the end of each shift.
4. Contractor shall perform continuous water spraying during dust generating activities. Mist or spraying shall be conducted in such a way as to prevent puddling or generation of runoff. Contractor shall mist any immediate area of demolition with a water spray to prevent airborne dust particles.

5. Wet all exposed soil surfaces at least three times daily during dry weather or more frequently if dust is blowing or if required by the City. .

6. Whenever feasible, Contractor shall use reclaimed water for dust control activities.

7. Contractor shall use dust enclosures, curtains, and dust collectors to control dust.

8. Contractor shall load haul trucks, hauling debris, soils, sand or other such materials so that the material does not extend above the walls or back of the truck bed. Contractor shall wet each load before covering and tightly cover the surface of each load before the haul truck leaves the loading area.

9. Contractor shall limit vehicle speed limit on unpaved roads to 15 miles per hour (mph).

10. Contractor shall cover any inactive (no disturbance for more than seven days) stockpiles greater than ten cubic yards or 500 square feet of excavated materials, backfill material, import material, gravel, sand, road base, and soil with a 10 mil (0.01 inch) polyethylene plastic or equivalent tarp and brace it down, or use other equivalent soil stabilization techniques as approved by the City Representative.

11. These dust-control measures are adequate for addressing the asbestos state airborne toxic control measure (California Code of Regulations Title 17, Section 93105) for disturbance of naturally occurring asbestos (NOA) through roadway construction and maintenance, and through other construction and grading of less than one acre of soils containing NOA.
    (a) For management of dust related to disturbance of NOA through construction and/or grading not conducted for the purposes of roadway construction and maintenance of more than one acre of soils containing NOA, refer to applicable Divisions 01 and 02 Hazardous Materials related specifications.
    (b) If the project includes the disturbance, by construction and grading associated with roadway construction and maintenance, of soils containing naturally occurring asbestos, contractor shall submit the Bay Area Air Quality Management District's (BAAMQD) "Notification Form for Road Construction and Maintenance Operations" to BAAMQD fourteen business days in advance of land disturbance of soils containing NOA.

C. If the project grades or excavates more than one-half acre surface area at any given time, and the project is within 1,000 feet of a sensitive receptor, Contractor shall submit a site-specific dust control plan for the review and approval by the San Francisco Health Department. Construction, demolition, excavation, grading, foundation work, or other permitted activities may not commence until Contractor has submitted to the City Representative a copy of the Department of Public Health's (DPH) written approval of the dust control plan.

1. In the event that monitoring is required as part of the dust-control plan, Contractor's attention is directed to the Department of Public Health's handout "Monitoring Guidelines for SFHC Article 22B".

D. If the project is a Major Construction Projects that is not located in the Air Pollutant Exposure Zone and is within 1,000 feet of a sensitive receptor, the following requirements apply:

1. All off-road equipment shall be fueled by biodiesel fuel grade B20, and have engines that (a) meet or exceed either United States Environmental Protection Agency or ARB Tier 2 off-road emission standards, and (b) have been retrofitted with an ARB Level 3 VDECS. Equipment with engines meeting Tier 4 Interim or

Tier 4 Final off- road emission standards automatically meet this requirement. See paragraph 3.1G below regarding the waiver procedure for this requirement.

2. Where access to alternative sources of power is available as determined by the City Representative, use of portable diesel engines to perform work on the project shall be prohibited.

3. Diesel engines, whether for off-road or on-road equipment, shall not be left idling for more than two minutes at any location, except as allowed for in applicable state regulations regarding idling for off-road and on-road equipment (e.g., traffic conditions, safe operating conditions). If within 100 feet of a school zone idling times shall be limited to 30 consecutive seconds. The Contractor shall post legible and visible signs, in English, Spanish, and Chinese, in designated queuing areas and at the construction site to remind operators of the idling limit. Refer to the following link for the Clean Construction Sign Template: https://www.sfdph.org/dph/EH/Air/CleanConstruction.asp.

4. The Contractor shall instruct construction workers and equipment operators on the maintenance and tuning of construction equipment, and require that such workers and operators properly maintain and tune equipment in accordance with manufacturer specifications.

E. Construction Emissions Minimization Plan: If the project is a Major Construction Project that is located in the Air Pollutant Exposure Zone and is within 1,000 feet of a Sensitive receptor, the following requirements apply:

1. Before starting on-site Construction Activities, the Contractor shall submit a Construction Emissions Minimization Plan ("Emissions Plan") to the City Representative for review and approval. (See paragraph 1.4B of this section.)

2. Waivers
   (a) Waivers for off-road equipment:
      (i) The Contractor may request to waive the equipment requirements if: (a) a particular piece of off-road equipment with an ARB Level 3 VDECS is technically not feasible; (b) the equipment would not produce desired emissions reduction due to expected operating modes; (c) installation of the equipment would create a safety hazard or impaired visibility for the operator; or, (d) there is a compelling emergency need to use off-road equipment that is not retrofitted with an ARB Level 3 VDECS.
      (ii) Contractor shall submit a waiver request to the DPH Head, or designee, no less than two weeks prior to the planned use of a specific piece of off-road equipment.
      (iii) If the DPH Head, or designee, grants the waiver the Contractor must use the next cleanest piece of off-road equipment, according to the table directly below:

Off-Road Equipment Compliance Step Down Schedule*		
Compliance Alternative	Engine Emission Standard	Emissions Control
1	Tier 2	ARB Level 2 VDECS
2	Tier 2	ARB Level 1 VDECS
3	Tier 2	Alternative Fuel**
* If the City determines that the equipment requirements cannot be met, the Contractor must meet Compliance Alternative 1. If the City determines that the Contractor cannot supply off-road equipment meeting Compliance Alternative 1, then the Contractor must meet Compliance Alternative 2. If the City determines that the Contractor cannot supply off-road equipment meeting Compliance Alternative 2, then the Contractor must meet Compliance Alternative 3. ** Alternative fuels are not a VDECS.		

(iv) The DPH Head, or designee, may waive the alternative source of power requirement if an alternative source of power is limited or infeasible at the project site. If the City grants the waiver, the Contractor must submit documentation that the equipment used for onsite power generation meets the requirements of this subsection.

3.2 WATER QUALITY

A. If the project includes construction or demolition activity disturbing 5,000 square feet or more of the ground surface, measured cumulatively, including any land-disturbing activities, Contractor shall obtain a Construction Site Runoff Control Permit obtained from the San Francisco Public Utilities Commission (SFPUC), which requires the submittal to the SFPUC of an Erosion and Sediment Control Plan (ESCP).

B. If the project falls within the Municipal Separate Storm Sewer System (MS4) area as mapped by the San Francisco Public Utilities Commission, and includes land disturbance of one or more acres of soil, either as a single project or as part of a larger common plan of development as determined by the City Representative, the Contractor must provide a Storm Water Pollution Prevention Plan (SWPPP) prepared by a certified Qualified SWPPP Developer (QSD) that must be approved by the City Representative before the start of construction.

C. For work in areas under the jurisdiction of the Port of San Francisco, Contractor shall adhere to the provisions of the State General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit Order 2009-0009-DWQ), and the Port of San Francisco's Stormwater requirements.

D. The Contractor shall implement the requirements of any project ESCP, SWPPP, and/or General Permit Order in advance of construction and maintain these requirements until the completion of construction activities.

E. For all projects, all measures specified below shall apply:

1. Drainage Protection
   (a) Contractor shall be responsible for protecting and keeping in operation all storm water inlets and catch basins throughout the entire project site for the duration of the project until final acceptance.
   (b) In advance of construction, Contractor shall photograph all catch basins within the limits of work. Each catch basin shall have at least two photos, one from the top view and one from the side view along the flow line.

(c) Contractor shall provide labor and materials necessary to prevent debris from entering the sewer system.
(d) Contractor shall prevent construction material, pavement, concrete, earth, paints, thinner, solvents and other debris or toxic material from entering the sewer structure, including surface flow collection systems such as catch basins and culverts.
(e) Prior to the final inspection for acceptance, Contractor shall remove the catchbasin and inlet protection and clean the catchbasins and inlets.

2. Wastewater Discharges and Disposal
(a) Contractor is permitted to discharge runoff and dewater into the City's combined sewer system only if Contractor submits and obtains approval of a SFPUC sewer discharge permit.
(b) Contractor shall be responsible for obtaining and paying for all water discharge permits and for paying all sewer service charges, penalties and other incidental fees and expenses resulting from discharging wastewater into the City's sewerage system by Contractor's operations in a timely manner. The City shall not honor any claims from Contractor arising from delays in obtaining the sewer discharge permit.

3. Wastewater Contamination
(a) Should the existing wastewater be uncontaminated, and subsequently become contaminated due to Contractor's operations, all costs related to satisfactory cleanup and disposal shall be the responsibility of Contractor. Such costs shall include, but not be limited to, re-design, re-construction, pretreatment and, sewer service permit and usage fees costs.
(b) Should the existing wastewater be contaminated, or should it be uncontaminated but subsequently become contaminated due to conditions other than Contractor's operations, a Change Order shall be issued as provided in Article 6 of the General Conditions for additional costs or time extension shall be granted as provided in Article 7 of the General Conditions to pretreat the contaminated water prior to routing the flow into the sewer system or other approved disposal at the direction of the City.

4. Spill Prevention and Control
(a) Contractor shall assign and train spill-response personnel, who shall address spills and leaks immediately.
(b) Provide spill cleanup material on site to adsorb, remove and contain any spill or releases from leaving the active work area and entering into any storm drain or sewer inlet.
    (i) Spill cleanup equipment shall include absorbent socks, over pack drums, personal protective equipment, shovel, labels, valves, valve charts, valve wrenches to shut off water supply, etc.
(c) On-site vehicles must be monitored for leaks; inactive equipment must be stored with drip pans to contain any fluid leaks. Drip pans containing oil must be drained into waste oil drums on a regular basis.
(d) Place all equipment or vehicles, which are to be fueled, maintained or stored in a designated area fitted with functional leak-containment measures.
(e) Dispose of spent cleanup materials at a California-permitted waste-disposal facility. Leaked materials that constitute hazardous waste shall be disposed of in accordance with applicable hazardous materials specifications.
(f) Containers must remain closed at all times except when transferring contents. Heavy containers (in excess of 60 lb.) of oil or hazardous material shall not be moved by a single unassisted worker unless the worker employs a drum dolly.

(g) Funnels, pumps with closed hose systems, or other means shall be used to prevent spills while transferring material from large containers to small ones. Pumps in operation shall not be left unattended.
(h) Contractor's designated Project Safety Officer shall immediately be alerted to of any spill occurring in the work area. It is the responsibility of Project Safety Officer direct the cleanup activities and contact the City Representative immediately.
(i) Contractor is responsible for recording all steps taken to control spills in the field notes/daily log.

3.3 TRAFFIC

A. Where traffic and/or pedestrian circulation may be affected by project construction, Contractor shall implement traffic control measures to maintain traffic and pedestrian circulation on streets affected by construction of the project.

1. The measures shall, at a minimum, be consistent with the Requirements of San Francisco Municipal Transportation Agency (SFMTA)'s Regulations for Working in San Francisco Streets ("Blue Book").

2. Control measures may include, but not be limited to, flaggers and/or construction warning signage of work ahead; scheduling truck trips during non-peak hours to the extent feasible; and maintaining access to driveways, private roads, and off-street commercial loading facilities by using steel trench plates or other such method.

3. Any traffic-management plans accepted by Public Works for this project take precedence over the traffic provisions of the Standard Construction Measures (SCM-4).

B. Contractor shall ensure provision for parking management and spaces for all construction workers to ensure construction workers do not park in on-street spaces.

3.4 NOISE CONTROL

A. Contractor shall not operate any powered construction equipment, with the exception of impact tools and equipment, if the operation of such equipment emits noise at a level in excess of 80 dBA when measured at a distance of 100 feet from such equipment.

B. Impact tools and equipment shall have intake and exhaust mufflers recommended by the manufacturers thereof and approved by City Representative, and that pavement breakers and jackhammers shall also be equipped with acoustically attenuating shields or shrouds recommended by the manufacturers thereof and approved by the City Representative.

C. Contractor shall pay all fines for Contractor's violations of the San Francisco Noise Ordinance, at no additional cost to the City.

D. Monitoring

1. The City, at its own discretion, may monitor construction noise as part of the environmental monitoring process. When noise levels exceed the noise limits in 3.4 of this section, Contractor shall stop work or place restrictions on construction operations to further limit the noise as directed by the City.

2. Contractor shall not resume the work before correcting the conditions that cause excessive noise as deemed acceptable by the City Representative.

E. Night Noise

1. Contractor shall not perform work between the hours of 8:00 p.m. and 7:00 a.m. of the following day if the noise level created thereby is in excess of the ambient noise level by 5 dBA at the nearest property line, unless approved by the City Representative and unless a noise permit for such work has been obtained pursuant to the Police Code Section 2908.

2. The use of vehicles for night work that are legally required to be equipped with backing warning alarms shall be reduced to the extent feasible for night work, and administrative controls as defined in the California Code of Regulations, Title 8 Sec. 1592 shall be used for worker protection for backing movements by other vehicles.

3. If Contractor is directed in the Contract Documents or by special written notice from the City Representative to perform any part of the work between the hours of 8 p.m. and 7 a.m. or on weekends or holidays, Contractor must obtain and comply with a City noise permit prior to starting any work. Contractor must apply for City noise permits through the City Representative at least 15 business days in advance of night (i.e., between 8:00 p.m. and 7:00 a.m.), weekend, and holiday work. The requirements of the Contract Documents, including safety requirements, shall apply for all night, weekend, and holiday work performed. The noise permit shall be obtained from and approved by Bureau of Street Use and Mapping, 1155 Market Street, 3rd Floor, San Francisco, CA 94103.

3.5 BIRD PROTECTION

A. This subsection applies only to projects that include the removal or pruning of trees, and/or exterior work on buildings, and/or construction on bridges.

B. Inspection for bird/nests during bird nesting season:

1. If work shall be performed during nesting season (February 15 through August 31), a Qualified Biologist must be obtained by Contractor to provide a pre-construction survey for the trees to be affected during construction work.

C. If active nests are identified by the Qualified Biologist, no work may occur at that tree or bridge and in the surrounding area:

1. For active nests found in trees, a 100-foot exclusion buffer of temporary fencing shall be erected around the tree with the active nest,

2. For active nests found on bridges, a 100-foot exclusion buffer shall be established around the nest site, and no work may occur within the 100-foot buffer until the Certified Biologist has verified that young birds have left the nest and that active nesting has been completed.

3. For any active nests containing raptor species, the exclusion buffer shall be 300-feet.

D. If Contractor finds an injured or dead bird or discover migratory or nongame bird nests that may be adversely affected by construction activities, immediately:

1. Stop all work within a 100-foot radius of the discovery.

2. Notify the City Representative.

E. Contractor shall perform one or a combination of the following protection measures as required to prevent further nesting by birds in trees or structures during project construction:

1. Install exclusion devices

2. Use nesting-prevention measures

3. Remove and dispose of partially constructed and unoccupied nests of migratory or nongame birds on a regular basis to prevent their occupation.

3.6 TREE CONSERVATION

A. If trimming of roots greater than 2-inches in diameter is necessary during the course of construction, a Qualified Arborist provided by the contractor shall supervise the trimming of such roots.

B. Pruning of trees shall be performed in conformance with the City of San Francisco Pruning Standards for Trees (June 27, 2006) (available at http://sfdpw.org/sites/default/files/FileCenter/Documents/234-SF_Pruning_Stds_6.27approved.pdf), in coordination with the City's Bureau of Urban Forestry, and under the supervision of the qualified arborist.

C. For trees to be retained on site or adjacent to the site, Contractor shall exclude grading, trenching, or placement of heavy equipment within the drip line of trees, unless approved by the City Representative. If approved by the City Representative, Contractor's arborist shall recommend and Contractor shall implement measures to protect the tree (e.g., protecting the roots from compaction). Contractor shall be responsible for replacing any damaged trees as directed by the City Representative.

D. Disposal of Plant Material That Potentially Harbors Phytophthora

1. This paragraph applies only to projects that involve grubbing or removal of trees and/or other vegetation.

2. Contractor shall identify whether during the course of work plant species that may harbor Phytophthora shall be pruned or removed.

3. Plants of species that may harbor Phytophthora shall be chipped on site and the chips spread at the location of the same trees and/or shrubs that produced the debris. This plant debris may not be used for any purpose at any other location.

4. If spreading on site is not possible, materials shall be disposed of in landfill or at an industrial-scale composting facility. Contractor shall provide documentation of such disposal to the City Representative.

5. For sites identified as potentially harboring Phytophthora, Contractor shall ensure that the following actions are performed:

(a) All workers scrape, brush, and/or hose off accumulated soil and mud from clothing, gloves, boots, and shoes before leaving the site.

(b) Mud and plant debris is removed by blowing out or power washing chipper trucks, chippers, bucket trucks, fertilization and soil aeration equipment, cranes, and other vehicles before leaving the site.

(c) Soil and mud is removed or washed off from on vehicle tires, boots, shovels, stump grinders, trenchers, etc., before use at another site.

(d) Tools used in tree removal/pruning are disinfected with Lysol® spray, a 70% or greater solution of alcohol, or a solution consisting of 1 part household bleach to 9 parts water before leaving the site.

3.7 ENVIRONMENTALLY SENSITIVE AREA (ESA)

A. Contractor shall avoid areas shown on construction plans as being within an above-ground ESA. Contractor shall coordinate methods for avoidance intrusion into ESAs with

the City Representative and provide written and/or photographic documentation of these methods on request of the City Representative.

3.8 CONSTRUCTION STAGING

A. Contractor shall locate site construction staging areas away from public view and on paved or previously disturbed areas to the extent feasible.

B. For night work, Contractor shall ensure that construction lighting shall be directed away from residential areas and have shields to prevent light spillover effects.

1. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work and rotated outward no greater than 30 degrees from nadir (straight down).

2. When, in the opinion of the City Representative, the lighting is disturbing adjoining property, Contractor shall modify the lighting arrangement or add hardware to shield the light trespass.

3.9 ARCHAEOLOGICAL AND PALEONTOLOGICAL DISCOVERY

A. Where the project or a portion of the project is within the boundaries of an area of particular archaeological sensitivity, as determined by the San Francisco Planning Department and noted and/or depicted on project plans, one of the following shall apply:

1. If the project includes land disturbance below two feet of the top of existing soil in such area of particular archaeological sensitivity as noted and/or depicted on project plans, a City Representative or Specialty Environmental Monitor – archaeologist, provided by the City, shall be present during activities resulting in land disturbance to avoid any impacts to archaeological resources.

(a) Contractor shall be responsible for confirming that the required Specialty Environmental Monitor is on-site as required prior to performing said Work.

2. If the project or a portion of the project is within the boundaries of an area of particular archaeological sensitivity, but does not include land disturbance below two feet in such area, potential below-ground archaeological resources shall be protected by a conceptual ESA (see 3.7 of this section) boundary at two feet below the top of existing soil and contiguous with the area depicted on plans of particular archaeological sensitivity. If this ESA boundary is breached, the contractor shall immediately:

(a) Stop all work within 50 feet of the ESA or action-plan boundary

(b) Secure the area

(c) Notify the City's Representative

B. If potential archaeological resources are discovered at the site, the following procedures shall be instituted:

1. Promptly report all subsurface archaeological finds to the City Representative.

2. The City Representative shall issue a written order to suspend work in accordance with Paragraph 14.02 of the General Conditions directing Contractor to cease all construction operations only at the location of such potential cultural resources find.

3. The City's archaeologist shall assess the significance of the find, and immediately report to the City Environmental Review Officer (ERO), who shall

recommend specific additional avoidance and minimization measures as necessary to minimize potential effects on cultural resources, which may include additional site security, with which Contractor shall comply.

4. If human remains are encountered, all work in the area must halt and the San Francisco County Coroner must be contacted, pursuant to California Public Resources Code Sections 5097.98, and 5097.99.

C. Any soil disturbing activities below a depth of two feet below grade surface shall be preceded by the distribution by Contractor of the San Francisco Planning Department archeological resource "ALERT" sheet to any project subcontractor (including demolition, excavation, grading, foundation, pile driving, etc. firms); or utilities firm involved in soil disturbing activities within the project site, and all field personnel, including machine operators, field crew, pile drivers, supervisory personnel, etc..

1. Following the distribution of the "ALERT" sheet, Contractor will provide City representative with a signed affidavit confirming that all field personnel have received copies of the "ALERT" sheet.

2. The "Alert" sheet and affidavit are available for download at: https://www.sfpublicworks.org/services/project-manual-and-reference-documents

D. If unanticipated paleontological resources are discovered at the job site, do not disturb the resources and immediately:

1. Stop all work within a 50-foot radius of the discovery.

2. Secure the area.

3. Notify the City Representative. The City Representative shall investigate the discovery and modify the dimensions of the secured area if needed. The Contractor shall not move paleontological resources or take them from the job site. The Contractor shall not resume work within the radius of discovery until authorized.

E. For Work suspensions as a result of a suspension under this subsection there shall be no compensation to Contractor for any delays up to a total of 20 working days due to the City's order to suspend Work. Cost or time impacts as a result of a suspension under this subsection longer than a total of 20 hours, or for additional avoidance and minimization measures, shall be resolved as provided in the General Conditions. Refer to Article 6 for Changes and Article 13 for Claims.

END OF SECTION

PROJECT NAME:
Case#

APPENDIX A: ALERT SHEET AFFIDAVIT

We the undersigned, as representatives of the contracting firm of

_____,

offer testimony to the fact that the San Francisco Planning Department archaeological resource "ALERT" sheet was distributed to all construction field personnel prior to the start of work on

_____Date, and again during construction on _____Date.

Name of Contractor's Representative: _____

Signature of Contractor's Representative: _____

Date: _____

APPENDIX B: ALERT SHEET & CULTURAL BRIEFING

What to do if you Discover Cultural Resources in the Project Area

- If potential cultural resources are identified in the project area, immediately HALT all ground disturbing activities in the vicinity of the discovery.
- Contact the SFPUC Environmental Construction Compliance Manager immediately at one of the telephone numbers listed below and on your ALERT sheet. The SFPUC Environmental Construction Compliance Manager will in turn notify the Environmental Review Officer or his/her designee.
- The Environmental Review Officer or his/her designee or a qualified specialist will evaluate the discovery and ensure proper treatment of the resource.
- DO NOT resume ground disturbing activities in the vicinity of the discovery until the Environmental Review Officer or his/her designee has evaluated the discovery and authorizes work to resume.

Upon discovery of suspected human remains:

- All work in the vicinity of the remains must cease immediately.
- The area will be protected with flagging or by posting a monitor or construction worker to assure no additional disturbance occurs; if the find occurs at the end of the work day, the area must be secured by plating, or covering with other impervious material to prevent vandalism.
- Notify SFPUC Environmental Construction Compliance Manager immediately at one of the telephone numbers listed below and on you ALERT sheet. The SFPUC Environmental Construction Compliance Manager will in turn notify the Environmental Review Officer or his/her designee.
- The SFPUC Environmental Construction Compliance Manager may request that you notify the appropriate County Coroner of the discovery. Telephone numbers are listed below.
- If the County Coroner determines that the remains are Native American, the Native American Heritage Commission will be notified, a Most Likely Descendent will be named, and the treatment of the remains will be agreed upon by all parties.

Remember:

- Cultural Resources are nonrenewable resources. Once destroyed, they are gone forever. What is lost is not just a physical object, but a piece of the story of our past.
- Cultural resources and human remains are protected under state and Federal law. The unauthorized removal or intentional disturbance of these resources can result in up to $100,000 in fines and 5 years imprisonment.
- SFPUC and its contractors are required under state and county law to ensure that cultural resources encountered during the project are treated appropriately.
- All workers must comply with the procedures outlined above in order to treat cultural resources appropriately and ensure that SFPUC and YOU are in compliance with all local and state laws.

In the event of the discovery of cultural resources or human remains, contact the SFPUC Environmental Construction Compliance Manager at the number below. The SFPUC Environmental Construction Compliance Manager will in turn notify the Environmental Review Officer or his/her designee.

(415) 554-2472 (office)
(415) 601-8578 (cell)

If human remains are encountered, contact the appropriate County Coroner

ALERT !

This is to notify you that this project site may be located in an **archaeologically sensitive area**. If you notice anything that indicates the presence of an archaeological resource within the project site, the SFPUC Environmental Construction Compliance Manager (ECCM) must be contacted **immediately**. The SFPUC ECCM will in turn promptly notify the Environmental Review Officer or his/her designee. If you see anything that appears like archaeological remains call: (415) 554-2472 (office) or (415) 601-8578 (cell). All work within the vicinity of the discovery must stop until the Environmental Review Officer has evaluated the discovery. You should be on the lookout for both prehistoric and historical archaeological sites. It is not always easy to identify archaeological sites when they are encountered. Below are some things that may indicate the presence of an archaeological site.

PREHISTORIC ARCHAEOLOGICAL SITE

- Concentrations of shellfish remains
- Evidence of fire (ashes, charcoal, burnt earth, fire-cracked rocks)
- Concentrations of bones
- Recognizable Native American artifacts (arrowheads, shell beads, stone mortars (bowls), humanly shaped rock)

HISTORICAL ARCHAEOLOGICAL SITE

- Building foundation remains
- Trash pits
- Privies (outhouse holes)
- Floor remains
- Wells
- Concentration of bottles, broken dishes, shoes, buttons, cut animal bones, hardware, household items, barrels, etc.
- Debris from the Great 1906 Earthquake and Fire (thick layers of burned building debris, charcoal, nails, fused glass, burned plaster, burned dishes, etc.)
- Wood structural remains (building, ship, wharf, etc.)
- Clay roof/floor tiles
- Stone walls or footings
- Gravestones

APPENDIX C: ALERT SHEET & CULTURAL BRIEFING (SPANISH)

Qué hacer si descubre Recursos Culturales en el Área del Proyecto

- Si el potencial de recursos culturales se identifica en el área del proyecto, inmediatamente DETENER todas actividades en las inmediaciones del descubrimiento.
- Contactar al Gerente de Construcción de Cumplimiento Ambiental de SFPUC de inmediato a uno de los números de teléfono que aparecen abajo y en su hoja de ALERTA. El Gerente de Construcción de Cumplimiento Ambiental se encargará de notificar a el/la Oficial de Revisión Ambiental o a su representate.
- El/La Oficial de Revisión Ambiental, su representate o un técnico calificado evaluará el descubrimiento y asegurará un tratamiento adecuado de los recursos.
- NO reanudar actividades perturbadoras de tierra en las cercanías del descubrimiento hasta que el Oficial de Revisión Ambiental o su representante haya evaluado el descubrimiento y autorize continuar el trabajo.

En caso de descubrimiento de presuntos restos humanos:

- Todo trabajo en las proximidades de los restos deben cesar de inmediato
- El área debe ser protegida con banderines o mediante la vigilancia de un cuidador o un obrero de construcción para asegurar que no se produzca perturbación adicional. Si el hallazgo se produce al final de la jornada laboral, el área debe ser cubierta con placas de acero, o con otro material similar para evitar vandalismo.
- Notificar al Gerente de Construcción de Cumplimiento Ambiental de SFPUC de inmediato a uno de los números de teléfono que aparece abajo y en su hoja de ALERTA. El Gerente de Construcción de Cumplimiento Ambiental se encargará de notificar a el/la Oficial de Revisión Ambiental o a su representate
- El Gerente de Construcción de Cumplimiento Ambiental de SFPUC pudiera solicitar que usted notifique del descubrimiento al Forense correspondiente del Condado. Los números de teléfono se encuentran abajo.
- Si el médico forense del condado determina que los restos son Nativos Americanos, la Comisión de Patrimonio de Nativos Americanos será notificada, un descendiente más probable será nombrado, y el tratamiento de los restos será acordado por todas las partes.

Recuerde:

- Recursos culturales son recursos no renovables. Una vez destruidos, se van para siempre. Lo que se pierde no es sólo un objeto físico, si no un pedazo de la historia de nuestro pasado.
- Los recursos culturales y restos humanos están protegidos por las leyes estatales y federales. Remover sin autorización o perturbar intencionalmente estos recursos puede resultar en hasta $100,000 dólares en multas y 5 años de prisión.
- SFPUC y sus contratistas están obligados, por virtud de las leyes estatales y del condado, de garantizar que los recursos culturales encontrados durante el proyecto sean tratados adecuadamente.
- Todos los trabajadores deben cumplir con los procedimientos mencionados anteriormente para el tratamiento de los recursos culturales de manera adecuada y para garantizar que SFPUC y USTED están cumpliendo con todas las leyes locales y estatales.

En caso de descubrimiento de recursos culturales o de restos humanos, contactar al Oficial de Revisión Ambiental de SFPUC a los siguientes numeros de teléfono. El Gerente de Construcción de Cumplimiento Ambiental de SFPUC se encargará de notificar a el/la Oficial de Revisión Ambiental o a su representate.

(415) 554-2472 (Oficina) - (415) 601-8578 (Celular)

Si se encuentran restos humanos, contactar a el Forense apropiado del Condado

ALERTA !

La presente es para notificarle que este sitio del proyecto pudiera estar situado en un área arqueológicamente sensitiva. Si usted nota cualquier cosa que indica la presencia de un recurso arqueológico en el sitio del proyecto, **el Gerente de Construcción de Cumplimiento Ambiental de SFPUC** debe ser contactado **inmediatamente**. El Gerente de Construcción de Cumplimiento Ambiental de SFPUC se encargará de notificar a el/la Oficial de Revisión Ambiental o a su representate. Si ve algo que tiene apariencia de restos arqueológicos llame al: **(415) 554-2472 (oficina) o (415) 601-8578 (celular)**. Todo trabajo en las cercanías del descubrimiento debe de detenerse hasta que el Oficial de Revisión Ambiental haya evaluado el descubrimiento. Usted debe estar en búsqueda de yacimientos arqueológicos prehistóricos e históricos. No siempre es fácil identificar los sitios arqueológicos cuando se encuentran. A continuación se encuentra una lista de algunas cosas que pueden indicar la presencia de un yacimiento arqueológico.

SITIO ARQUEOLÓGICO PREHISTORICO

- Concentraciones de restos de mariscos
- Evidencia de fuego (cenizas, carbón, tierra quemada, rocas rotas por fuego)
- Concentraciones de huesos
- Artefactos reconocidos como nativos americanos (puntas de flecha, morteros de piedra, roca con forma humana)

SITIO ARQUEOLÓGICO HISTÓRICO

- Restos de fundación de edificio
- Pozos de basura
- Letrinas
- Restos de suelo
- Pozos
- Concentración de botellas, platos rotos, zapatos, botones, huesos de animales, herramientas, artículos para el hogar, barriles, etc
- Restos de el Gran Terremoto y Fuego de 1906 (capas gruesas de escombros de edificio quemado, carbón, clavos, vidrio fundido, yeso quemado, platos quemados, etc)
- Restos estructurales de madera (edificio, barco, muelle, etc)
- Techo de arcilla o baldosas
- Muros de piedra o cimientos
- Lápidas

SECTION 01 35 50

ADDITIONAL ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes additional environmental procedures and environmental mitigation measures that the Contractor shall follow during construction.

B. This Section (along with the Sections 01 35 49 Minimum Environmental Procedures, 01 41 00 - Regulatory Requirements, 01-35-45 Health and Safety Criteria, 01 57 13 - Temporary Erosion and Sediment Controls (ESCP), and 02 81 10 – Environmental Management of Excavated Materials) fulfills the Environmental Site Mitigation Plan (SMP) of Article 22A of the San Francisco Health Code.

C. The requirements in this Section are incidental work to mobilization.

1.02 DAMAGES FOR FAILURE TO MEET ENVIRONMENTAL REQUIREMENTS

A. The Contractor shall be liable for all fines, penalties, liquidated damages and costs arising from any failure to implement mitigation measures to control environmental impacts are subject to Federal, State, and local regulatory fines.

B. The Contractor shall be liable for all fines, penalties, liquidated damages and costs arising from any violation of the environmental mitigation measures, and City Ordinances, and this specification, as related to or concerning environmental mitigation measures; the control of dust and airborne particles; exposure to workers or the public by dust or asbestos; the control, removal, transport, and disposal of excavated materials; control of wastewater and sediment; housekeeping, maintenance of the work area; debris control; the clean construction ordinance; and noise. The Contractor shall pay particular attention to:

1. The prevention of accumulation and prompt clean-up of spills of excavated materials onto streets, sidewalks, and roadways;

2. Sediment control, the protection of catch basins, and prevention of soil and sediment from falling or washing into storm drains and sewers;

3. The prevention and control of dust created by its work;

4. Proper treatment and disposal of stormwater and ground water prior to discharge;

5. Adherence to noise restrictions; and

6. Adherence to equipment emissions requirements and restrictions

7. Daily housekeeping and site maintenance to keep each Project work location in clean and orderly condition.

C. Liquidated Damages: In addition to any regulatory fines, should the Contractor fail to adhere to the DPW Dust Control Order 171,378, liquidated damages shall be assessed in the amount of $1000.00 per day for each day any violation is not corrected.

D. Liquidated Damages: In addition to any regulatory fines, should the Contractor fail to implement the mitigation measures as per this Section, or promptly take all required remedial actions to the City's satisfaction herein, the City Representative reserves the right to issue environmental non-compliance notices, have the necessary work performed by others, assess fines of one thousand dollars ($1000.00) per non-compliance occurrence or per event, or to deduct or withhold all monies required therefore as permitted under the Contract Documents.

E. Liquidated Damages: By entering into the Agreement, Contractor and City agree that if Contractor uses off-road equipment and/or off-road engines in violation of the Clean Construction requirements set forth in Section 6.25 and Chapter 25, the City will suffer actual damages that will be impractical or extremely difficult to determine. Accordingly, Contractor and the City agree that Contractor shall pay the City the amount of $100 per day per each piece of off-road equipment and each off-road engine used to complete Work on the Project in violation of the Clean Construction requirements. Such amount shall not be considered a penalty, but rather agreed monetary damages sustained by City because of Contractor's failure to comply with the Clean Construction requirements.

1.03 RELATED SECTIONS

A. 01 35 45 Health and Safety Criteria

B. 01 35 49 Minimum Environmental Procedure

C. 01 41 00 Regulatory Requirements

D. 01 57 13 Temporary Erosion and Sediment Controls (ESCP)

E. 02 81 10 Environmental Management of Excavated Materials

F. 33 24 00 Ground Water Wells

1.04 PROJECT CONDITIONS

A. The Contractor shall be responsible for all costs incurred or necessary to ensure compliance of its operations and its performance of the Work with all applicable Codes and contract requirements.

B. The Contractor shall make provisions to ensure that mitigation controls are consistently implemented for the project duration.

C. Pursuant to California Assembly Bill 3180 (chapter 1232), the City at its own discretion will monitor Contractor's compliance with Code and Contract requirements, including required mitigation actions for construction impacts and will report on Contractor's compliance with required mitigation controls. Said monitoring and reporting activities may include, but are not limited to, qualitative, quantitative and video observations and data collection on the impacts of noise, vibration air quality, traffic, street pavement damage, water quality, cultural resources, biological resources and hazardous materials.

D. The Contractor shall cooperate with such monitoring activities, provide access to the Work Site to establish and secure monitoring stations, and make its facilities and records available to the City for performing such monitoring.

E. The City will issue a Non-Compliance Notice to the Contractor for any detected non-compliance with the provisions herein or of any environmentally objectionable acts and the corrective action to be taken. Failure to comply will result in an assessment of liquidated damages.

F. Any fines imposed on the City by the regulatory agencies as a result of the Contractor's negligence shall be passed on to the Contractor.

1.05 MAINTENANCE OF THE WORK AREA AND DEBRIS/SPILL CONTROL

A. The Contractor shall maintain the Site and Work areas under its control and adjacent public right-of-ways in a clean and orderly state, a safe condition, and remove all accumulations of debris and surplus materials at the end of each workday. At completion of the project the Contractor shall leave the Site in clean and orderly condition.

B. Cleaning during Construction: The Contractor shall control the accumulation of waste materials and debris. The Contractor shall collect waste from construction areas and the site daily. The Contractor shall also:

1. Comply with requirements of NFPA 241 for removal of combustible waste material and debris.

2. Maintain the Site and construction areas free of dust and accumulation of dirt during earthwork and other contaminants during construction as needed daily.

3. Maintain hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly and dispose those types of materials in a lawful manner.

4. Maintain the construction site, staging and storage areas daily in clean and orderly condition. Maintain the site, equipment, fences and signs free of graffiti. As warranted, remove all graffiti daily, using methods, which cause no damage to the work and existing facilities.

5. Damp-sweep all pedestrian walkways and dispose of debris around the site perimeter on a daily basis and as often as determined by the City Representative.

6. Keep all debris, hazardous/contaminated material, surplus concrete and excavated materials off the roadway, sidewalks and sewers at all times.

7. Remove trash (waste oil and oil rags) and debris from the Site and Construction areas daily or at frequent intervals or as directed by the City Representative, so that its presence will not delay the progress of the work or cause a nuisance.

8. On a daily basis, remove all debris from the Site and Construction areas, including haul routes, caused directly or indirectly by the Contractor's operations.

9. Dispose of all food-related trash items (e.g., wrappers, cans, bottles, food scraps) in closed garbage containers and removed daily from work areas. Garbage shall be removed regularly from the project site. Construction personnel shall not feed or otherwise attract wildlife to the project area.

10. Storage areas: Ensure that Materials to be used for construction are stored in designated structures or areas by the appropriate trades. Maintain such areas or structures in a clean condition daily for the term of the Contract.

11. Provide and maintain proper storage with secondary containment for lubrication oil, hydraulic fluids, waste oils, fuels, solvents and other hazardous or toxic materials and wastes.

12. Contractor shall establish procedures to respond to a spill of any kind, especially hazardous materials.

a) Contractor shall maintain a fully stocked spill kit(s) at the project site for immediate deployment.

b) When feasible, Contractor shall immediately contain spills and properly dispose of contaminated soils and associated clean-up materials.

c) Reporting: In the event of a reportable spill, the Contractor shall notify the City Representative and provide information such as but not limited to source of spill, type of material(s) spilled, any sampling implemented, and clean-up measures. City Representative will notify any other applicable agencies in accordance with the California Office of Emergency Services (http://www.calema.ca.gov/HazardousMaterials/Pages/Spill-Release-Reporting.aspx) and U.S. Environmental Protection Agency (http://www.epa.gov/superfund/policy/release/rq/).

13. Supervision: Oversee all cleaning of areas by trades using them and ensure that resulting accumulations are deposited in appropriate containers.

14. Burying or burning of trash and debris on the Site is not permitted.

15. Materials, trash, and debris are the property of the Contractor and shall be removed from the Site and Construction areas and disposed of in a legal manner.

16. Maintain the site, equipment, fences and signs free of graffiti.

C. Initiate and maintain a specific daily program to prevent the accumulation of debris at the Site storage, parking areas, and along streets, roads, and haul routes in the Construction areas. The Contractor shall:

1. Provide and maintain containers for the deposit of debris and keep them covered.

2. Prohibit overloading of trucks to prevent spillage and track out.

3. Inspect traffic areas and haul routes to enforce debris and clean up requirements.

D. On a daily basis, remove all debris from the Site and Construction areas, including haul routes, caused directly or indirectly by the Contractor's operations.

E. Construction Limits: Contractor shall confine all construction equipment to designated work zones.

F. Contractor shall dispose of all food-related trash items (e.g., wrappers, cans, bottles, food scraps) in closed garbage containers. Garbage shall be removed regularly from the project site. Construction personnel shall not feed or otherwise attract wildlife to the project area.

G. No pets or firearms shall be allowed in the construction limits.

1.06 ADDITIONAL DUST CONTROL REQUIREMENTS

A. Air Quality Project Action Level (AQPAL): As per Air Quality Monitoring Guidelines for SFHC Article 22B, Real Time Dust Monitoring and Reporting, the Contractor in its construction activity shall adhere to the criteria below. The Contractor shall implement step up mitigation controls in the event that monitoring readings exceed the AQPAL.

PM10 Action Levels (AQPAL)

PM10 Concentration/Standard	Contractor's Required Actions for exceeding PM10 Concentration/Standard
50 ug/m^3 Daily Average	Review work procedures for conformity with best management practices (BMPs). Implement additional dust control measures as needed to prevent future exceedances of the 50ug/m3 level.
250 ug/m^3 10 min. Average	Particulate monitor goes into alarm. Stop work and apply more aggressive dust control measures until the 10 minute average concentration drops below 250ug/m3.

B. The Contractor shall not engage in any construction or grading operation on property unless all of the following dust mitigation measures are initiated at the start and maintained throughout the duration of the construction or grading activity.

1. Plan and execute the work in such manner as to minimize the area of excavation, grading, and other dirt disturbing construction activities to less than one half acre at any one time. Minimize the amount of excavated materials stored at the site.

2. All water for dust control shall be treated and amended with biodegradable, non-polluting, non-toxic dust control agent. Water or water-miscible binders shall be continuously used to control dust during dust generating activities, including demolition, excavation, and earthmoving, among others.

3. Keep the entire site of the work and adjacent areas (including sidewalks, 500 consecutive feet in all directions of intersections, walkways and roadways) continuously free of dirt and dust by wet sweeping at least three times per shift including at the end of the workday. Maintain a regenerative air or high efficiency vacuum sweeper-vehicle on the Site at all times. The City Representative will evaluate the effectiveness of the Contractor's vacuum sweeper-vehicle and, if necessary, will require the Contractor to provide a more powerful and effective sweeper.

4. Visible track-out on the paved public road must be cleaned using wet sweeping or a HEPA filter equipped vacuum device within twenty four (24) hours.

5. Localized dust controls such as water hoses shall be pre-connected to a water source or water canisters to immediately control visible dust emissions at each active work area. Wet areas shall be barricaded to prevent slipping hazards.

6. A water truck and/or water buffalos shall be readily available at the work site at all times. Water truck shall be equipped with hand-held hoses. Hoses shall be equipped with micro-misters and micro-foggers.

7. Vehicle moving around the work site, and entering or exiting construction areas shall travel at a speed of fifteen (15) miles per hour or less, so as to minimize dust emissions.

8. Prior to any ground disturbance, sufficient water shall be applied to the area to be disturbed to prevent visible emissions from crossing the site boundaries.

9. Areas to be graded or excavated shall be kept adequately wetted to prevent visible emissions from crossing the work site and property line.

10. Storage/Stockpiles must be kept adequately wetted, treated with a chemical dust suppressant, or covered when material is not being added to or removed from the pile;

11. Equipment must be washed down before moving from the property onto a paved public road; and

12. Surface excavation and grading activities shall be terminated when wind speeds exceed 25 miles per hour.

13. Control for disturbed surface areas, and storage piles that will remain inactive for more than seven (7) days, shall include one or more of the following:

    a. Keep the surface adequately wetted.

    b. Establishment and maintenance of surface crusting.

    c. Application of chemical dust suppressants or chemical stabilizers according to the manufacturers' recommendations as needed.

    d. Covering with tarp(s) or vegetative cover.

    e. Installation of wind barriers of fifty (50) percent porosity around three (3) sides of a storage pile.

    f. Installation of wind barriers across open areas,

    g. Any other measure as effective as the measures listed above.

C. The Contractor is hereby notified that it cannot perform screening or crushing operations without the appropriate BAAQMD, and Cal-EPA/DTSC permits.

D. Track-out prevention and control measures shall include:

1. The Contractor shall immediately remove any visible track-out of soil, gravel, debris and dirt from a paved public road at any location where vehicles enter and exit the Site; use a wet sweeping or a HEPA filter equipped vacuum device on at all entry and exit points as often as needed.

2. Equipment, trucks and tires shall be washed down before moving from the active areas on to a paved public road to minimize deposition of dust-causing materials.

    a. Installation of one or more of the following track-out prevention measures at all entry and exit points. These track-out controls are to be cleaned, maintained and replaced to keep their use effective for the project duration.

    b. A gravel pad designed using good engineering practices to clean the tires of exiting vehicles;

    c. A metal griddle (rumble plate) tire shaker;

    d. A wheel wash system;

    e. Pavement extending for not less than fifty (50) consecutive feet from the intersection with the paved public road; or

f. Any other measure as effective as the measures listed above.

1.07 ASBESTOS AIRBORNE TOXIC CONTROL MEASURES FOR CONSTRUCTION

A. Serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) may be encountered along the alignment as known through USGS map, soil assessment, soil sampling or other information indicating that the project shall be disturbing NOA. The Contractor shall comply with the California Code of Regulations, Title 17, Section 93105 - Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations www.arb.ca.gov/toxics/atcm/asb2atcm.htm and the regulations of the Bay Area Quality Management District (BAAQMD).

B. At no cost to the City, the Contractor shall hire an experienced Certified Industrial Hygienist (CIH) to assist it with the following:

1. Cal/OSHA Asbestos Class II asbestos operations and Asbestos Competent Person (ACP): The Contractor shall meet its obligations under CCR Title 8, Section 1529 when Serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

a. The Contractor and its subcontractors shall have its workers, trades people and Competent Person that will come in contact with serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) be trained for the Class II work activity level as per the Cal/OSHA standard 8 CCR § 1529.

b. The Contractor shall have a Cal/OSHA asbestos Competent Person as it pertains to requirements specified in the Cal/OSHA standard 8 CCR § 1529, and when serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

C. Mandatory Mitigation Requirements while disturbing serpentine, serpentinite, ultramafic rocks, or NOA:

Regardless of the project size for construction and grading operations the following dust mitigation measures are mandatory for projects disturbing serpentine or ultramafic rock:

1. Construction vehicle speed at the work site must be limited to fifteen (15) miles per hour or less;

2. Prior to any ground disturbance, sufficient water must be applied to the area to be disturbed to prevent visible emissions from crossing the property line;

3. Areas to be graded or excavated must be kept adequately wetted to prevent visible emissions from crossing the property line;

4. Storage piles must be kept adequately wetted, treated with a chemical dust suppressant, or covered with tarp when material is not being added to or removed from the pile;

5. Equipment must be washed down before moving from the property onto a paved public road; and

6. Visible track-out on the paved public road must be cleaned using wet sweeping or a HEPA filter equipped vacuum device within twenty-four (24) hours.

7. All Mitigation Requirements for Dust Control as specified under Construction Dust Control Requirements shall apply.

8. The Contractor shall cover and line the truck bed ("burrito wrap") with 10mil HDPE for all truckloads of soils containing asbestos, regardless if the material is wet, hazardous, or non-hazardous.

G. Unanticipated Discovery of Naturally Occurring Asbestos (NOA):

1. If NOA is unexpectedly encountered after the project has started, the Contractor shall immediately notify the City Representative.

2. The Contractor shall also submit a notification to the BAAQMD no later than the next business day using the ADMP Discovery Notification Form found at the link below: http://www.baaqmd.gov/~/media/Files/Compliance%20and%20Enforcement/Asbestos/admp_discovery_application.ashx?la=en, and followed by email to Eliza Kane at ekane@baaqmd.gov, and the City Representative with the project details.

3. The Contractor's shall immediately be limited to disturbing, grading or excavating to less than one acre at any given time and/or shall be directed to stop work in the serpentine, serpentinite, ultramafic rock, or NOA areas by the City Representative.

4. With the City Representative's approval, the Contractor may continue work as long as the mandatory mitigation measures for projects disturbing serpentine, serpentinite, ultramafic rock, or NOA as stated above are implemented. These measures must be implemented within 24-hours of encountering serpentine and until the ADMP (if required) is approved by the BAAQMD.

1.08 STORMWATER BEST MANAGEMENT PRACTICES (BMPs) REQUIREMENTS

A. Management of Construction Materials

1. Cover and berm loose stockpiled construction materials that are not actively being used. Locate stockpiles at minimum 50 yards away from concentrated flows of storm water, drainage courses and inlets. All stockpiles should be completely covered and secured.

2. Stockpiles should be protected with a temporary linear sediment barrier berm prior to the onset of precipitation. During the rainy season, all stockpiles shall be protected from storm water runoff by completely covering them and keeping the perimeter barriers around at all times.

3. Store chemicals in watertight containers (with appropriate secondary containment to prevent any spillage or leakage) or in a storage shed (completely enclosed).

4. Minimize exposure of construction materials to precipitation. This does not include materials and equipment that are designed to be outdoors and exposed to environmental conditions (i.e. poles, equipment pads, cabinets, conductors, insulators, bricks, etc.)

5. Implement BMPs to prevent the off-site tracking of loose construction and landscape materials.

6. Provide for the continuous misting of water using hoses on the project, and on roads and other areas immediately adjacent to the project limits, wherever traffic or buildings that are occupied or in use, are affected by such dust caused by his hauling or other operations. The materials and methods used for water laying shall be subject to the approval of the City Representative.

7. Provide for prompt and daily proper removal from existing roadways of all dirt and other materials that have been spilled, washed, tracked, or otherwise deposited thereon by Contractor's hauling and other operations.

B. Rainstorm BMPs

1. During the rainy season, all paved areas are to be kept clear of earth material and debris. The site is to be maintained so as to minimize sediment runoff to any storm drain system.

2. During periods when storms are forecast:

   a. Excavated soils should not be placed in streets or on paved area.

   b. Any excavated soils should be removed from the site by the end of the day if feasible.

   c. Where stockpiling is necessary, use a tarpaulin or surround the stockpile material with fiber rolls, gravel sediment barrier, silt fence or other runoff controls.

   d. Use inlet controls as needed (E.G. block gravel sediment barrier from storm drain adjacent to the project or stockpiled soil.)

3. Stand-by crews shall be alerted by the permit applicant or contractor for emergency work during rainstorms.

4. After October 1st to April 15th, all erosion control measures will be inspected daily and after each storm. BMP will be repaired at the close of each day and whenever rain is forecast.

5. Sandbags shall be stockpiled on site and placed at intervals shown on erosion control plans when the rain forecast is 40% or greater or when directed by the inspector.

6. After rainstorms contractor shall check for and remove sediment trapped by sandbags at staging area. Replace sandbags if deterioration is evident.

C. Waste Management BMPs

1. Prevent disposal of any rinse or wash waters or materials on impervious or pervious site surfaces or into the combined sewer system.

2. Sediment and trash accumulated in drainages or detention basins shall be removed as soon as possible. In addition, oil and material floating on water surface must be skimmed weekly and the debris properly disposed of.

3. Ensure the containment of sanitation facilities (e.g., portable toilets) to prevent discharges of pollutants to the combined sewer system. Licensed waste material handlers must service portable sanitary facilities and trash dumpsters regularly.

4. Clean or replace sanitation facilities and inspecting them regularly for leaks and spills.

5. Cover waste disposal containers at the end of every business day and during a precipitation event.

6. Prevent discharges from waste disposal containers to the combined sewer system.

7. Contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.

8. Implement procedures that effectively address hazardous and non-hazardous spills.

9. Utilize spill response procedures that include: providing equipment and materials for cleanup of spills on site, so that spills and leaks may be cleaned up immediately and properly disposed, and assigning and training appropriate spill response personnel.

10. Ensure the containment of concrete washout areas and other washout areas that may contain additional pollutants so there is no discharge into the underlying soils, onto the surrounding areas and in to the sewerage system.

D. Vehicle Storage and Maintenance BMPs

1. Prevent oil, grease, or fuel from leaking in to the ground, storm drains, and catch basins.

2. All vehicles and equipment shall not be fueled or maintained on-site.

3. Place all equipment or vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.

4. On-site vehicles must be monitored for leaks; inactive equipment must be stored with drip pans to contain any fluid leaks. Drip pans containing oil must be drained into waste oil drums on a regular basis.

5. Contractor shall be responsible for ensuring safety of vehicles operating in roadway adjacent to erosion control facilities.

E. Erosion and Sediment Control BMPs

1. Temporary sediment barriers such as silt fences, berms, dikes, fiber rolls, sandbags, gravel bags or straw bale barriers. These barriers shall be installed at the locations with potential erosion and to the limits shown on the approved ESCP and as otherwise directed by the City Representative. They shall be relocated as necessary for construction operations, with prior approval from the City Representative. Remove the temporary barriers at the end of the project.

2. Dust Control: Employ construction methods and means that will keep airborne dust to the minimum.

3. Silt dams shall be installed and maintained on public streets to prevent sediments from flowing into storm drain inlets and public streets. Storm drain inlets shall be protected surrounding the inlets with BMPs such as fiber rolls or filters media appropriate to type of traffic and as approved by the City Representative.

4. Erosion Control Blankets shall be used to control to stabilize disturbed and exposed soil, if weather warrants such blankets.

5. Silt fencing shall be installed at the foot of the slope around the entire perimeter of the stockpiled soil.

6. V-ditches and silt traps/sediment traps shall be installed at the perimeter of the stockpile to collect runoff where necessary to allow flow to continue to storm drain inlets.

7. Soil stabilization measures, placement of hay bales, and sediment basins shall be constructed to reduce erosion of exposed soils.

8. As part of the erosion control measures, underground storm drain facilities shall be installed complete as show on the improvement plans.

9. Borrow areas and temporary stockpiles shall be protected with appropriate erosion control measures to the satisfaction of the city engineer.

10. If existing driveway is removed during construction, the contractor shall place drain rock as a gravel roadway (8" minimum thickness for the full width and length of site egress area as defined in these plans) at the entrance of the site.

11. Hot works, welding, and cutting is prohibited.

12. Concrete, asphalt, or aggregate crushing is prohibited.

13. Application of paint or coatings is prohibited.

14. Saw cutting operations are prohibited.

15. Sweep: Use dry cleaning methods rather than pressure washing surfaces.

16. End of Day Clean-Up: At the end of the day or when activities are over, conduct a general clean-up to remove debris, trash, and inspect for leaks, spills or other discharges.

F. Generator Re-Fueling BMPs

1. Clean Area: Maintain clean fuel-dispensing area using dry cleanup methods such as sweeping for removal of litter and debris or use of rags and absorbents for leaks and spills.

2. Drip Pans: Place drip pans or other containment beneath each connection point to capture all spills and drips.

3. Cover Drains: Cover storm drains in the vicinity during transfer.

4. Spill Kit: Maintain ample spill clean-up equipment adjacent to the fueling area.

5. Emergency Information: Maintain emergency response and contact information.

6. Training: Train staff on response to a fueling emergency.

G. If work is performed in a Caltrans right of way: For all work within a Caltrans right of way, Contractor shall be in full compliance with the Caltrans Storm Water Program and the Caltrans NPDES permit requirements. The Contractor shall use the following references in the planning and implementation of stormwater monitoring programs at construction sites, and comply with:

1. Construction General Permit, Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000002.

2. Caltrans Stormwater Permit, Order No. 2012-0011-DWQ, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS000003.

3. Caltrans Construction Site Monitoring Program Guidance Manual: This manual also contains Construction Site Monitoring Program (CSMP) requirements based on:

- Caltrans Statewide Stormwater Management Plan (SWMP), (Caltrans, 2016).
- Caltrans Standard Specification.
- Caltrans Standard Special Provisions

1.09 REQUIREMENTS FOR USING WATER FOR CONSTRUCTION

A. The Contractor shall comply with Article 21 of the San Francisco Public Works Code, which restricts the use of potable water for soil compaction and dust control activities to the extent not directly in conflict with any applicable federal, state, or local law.

B. The Contractor shall apply to the San Francisco Public Utilities Commission (SFPUC) Wastewater Enterprise (WWE) for a permit to use recycled water for soil compaction and dust control activities.

1. At least five days prior to the date that recycled water is required, the Contractor shall submit a completed permit application as directed on the SFPUC Recycled Water Fill Station website: http://sfwater.org/index.aspx?page=953. If SFPUC WWE approves the application, the Contractor will be issued a permit and provided instruction for use of the Recycled Water Fill Station.

2. The Contractor will be responsible for the handling and transportation of recycled water in accordance with the approved permit. The Contractor will also be responsible for any permit and discharge fees.

3. If the SFPUC denies the permit application because the use of recycled water falls within one or more of the restrictions of Title 22, Division 4, Chapter 3 of the California Code of Regulations, and the applicable General Order under which the SFPUC is bound at the time the application is processed, the permit application will be redirected for approval of potable water for these activities as directed in Paragraph 1.16C (below).

C. Potable Water:

1. The Contractor will be directed to the SFPUC, Customer Service Bureau (CSB), at 525 Golden Gate Avenue, San Francisco, to complete a potable hydrant meter

application. Once the application has been completed and approved, CSB will provide the Contractor with a receipt.

2. The Contractor shall pay the costs of permit fees, connection fees, meters, and all water usage furnished by the SFPUC under the established water service account. The City will not reimburse these costs.

3. The Contractor shall bring the receipt as proof of payment to the City Distribution Division (CDD) at 1990 Newcomb Street, San Francisco, to collect the hydrant meter. The Contractor shall bring the meter to CDD monthly for readings and payments.

1.10 INTEGRATED PEST MANAGEMENT PROGRAM

A. The Contractor shall comply with the SF Environment Code, Chapter 3: Integrated Pest Management Program, and City Ordinance # 7-11.
http://www.amlegal.com/nxt/gateway.dll/California/environment/chapter3integratedpestmanagementprogram?f=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca

http://www.sfbos.org/ftp/uploadedfiles/bdsupvrs/ordinances11/o0007-11.pdf

B. This Chapter 3 and Ordinance concerns the application of pesticides to property owned by the City and County of San Francisco only.

1.11 RODENT AND INSECT CONTROL

A. Inspection of the premises shall be made by the permittee at least once a week for rodent burrows, droppings or other evidence of rodents, and evidence of insect breeding. Any infestation shall be effectively controlled by the use of such poisons, gas traps, or insecticidal sprays as meet the approval of the Director of Public Health (San Francisco Public Works Code, Article 17: Control of Dumps Disposing of Materials from Construction or Demolition, Section 858: Rodent and Insect Control). Refer to link below:
http://library.amlegal.com/nxt/gateway.dll/California/publicworks/article17controlofdumpsdisposingofmateri?f=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca$anc=JD_Article17:

1.12 FIRE PREVENTION

A. Take all necessary precautions to prevent fires while performing the work.

B. Be responsible for all damage from fire caused directly or indirectly by his own activities or those of his employees or subcontractors.

C. Provide spark arresters for all internal combustion engines employed at the site.

D. Maintain temporary fire protection equipment in accordance with Cal/OSHA Section 1910 and 1933, including but not limited to:

1. Portable fire extinguishers within three (3) meters of welding and cutting operations.

2. Portable fire extinguishers within three (3) meters of locations where flammable or combustible liquids are stored.

E. Perform all work in compliance with the San Francisco Public Works Code, Article 17: Control of Dumps Disposing of Materials from Construction or Demolition, Section 855: Fire Prevention). Refer to link below:

http://library.amlegal.com/nxt/gateway.dll/California/publicworks/article17controlofdumpsdisposingofmateri?f=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca$anc=JD_Article17:

F. Perform all work in compliance with City and State fire safety laws and regulations.

1.13 NON-PVC PLASTICS

A. The Contractor shall comply with the SF Ordinance 171-03 and the SF Environment Code, Chapter 5 Resource Conservation Ordinance, Section 509 – Non PVC Plastics. http://www.amlegal.com/library/ca/sfrancisco.shtml

B. The Contractor shall obtain non-PVC plastics where appropriate alternative products composed of non-chlorinated materials are available. The Contractor shall procure non-chlorinated products in any of the following circumstances: (i) the product is not available in a reasonable period of time; (ii) the product would fail to meet reasonable performance standards; or (iii) the product is only available at an unreasonable price.

C. The Contractor shall use alternative plastics such as high-density polyethylene (HDPE), and ABS (acrylonitrile-butadiene styrene).

1.14 HAZARDOUS MATERIALS USED IN THE WORK

A. General: Minimize the use of hazardous materials in performing the work. When materials containing hazardous substances or mixtures are necessary to perform the work, then material usage shall be:

1. In strict adherence to Cal/OSHA's safety requirements.

2. The manufacturer's warnings and application instructions shall be listed on the Material Safety Data Sheet MSDS) provided by the product manufacturer.

B. The contractor is responsible for coordinating the exchange of MSDS o other hazard communication information between the Engineer, its employees and subcontractors at the site as per federal, state and local regulations.

C. The Contractor shall notify the Engineer when a specific product or equipment, or their intended usage, may be unsafe prior to ordering the project or equipment or prior to the product or equipment being incorporated in the work.

D. Known carcinogenic materials in any form or application shall not be used in the construction of this project.

E. Should hazardous substances be used, provide the Engineer with its information and clearly indicating:

1. Area or areas where the hazardous substances are to be stored and to be used.

2. The Contractor's preventative measures, means, and facilities to prevent spillage and contamination of soil, water and atmosphere by the discharge of noxious substance.

F. The City and County of San Francisco is not responsible for any such material brought to the site by the Contractor, subcontractor, suppliers, or anyone else for whom the Contractor is responsible.

G. Hazardous Materials Certificate of Registration: The Contractor shall obtain, pay and keep current a hazardous materials certificate of registration application, as per Articles

21, 21A, and 22 of the San Francisco Public Health Code. Contact the SFDPH/HMUPA at 415-252-3900. The Hazardous Material Certificate of Registration includes and is not limited to:

1. A chemical inventory.

2. An emergency response plan.

3. A training program for employees in safety procedures in the event of a release or a threatened release of hazardous materials.

4. A site map showing where the hazardous materials are located.

H. The Contractor shall obtain, pay for, and keep current a Flammable/combustible material storage permit from SFFD.

I. The Contractor shall not use any building materials that contain Asbestos Containing Construction Materials (ACCM). ACCM is defined by Cal/OSHA, 8 CCR 1529 (q) and (r), as any manufactured construction material that contains more than one-tenth of one percent (0.1%) asbestos by weight.

J. The Contractor shall not use any building materials that contain lead-based paint (LBP) LBP is defined by Title 17, CCR, Division 1, Chapter 8, Section 35033, as pain or other surface coating that contain any amount of lead equal to, or in excess of 0.00204816 lb./ft^2 or more than half of one percent (0.5%) by weight.

K. Should the City tests of the building material results in the concentration above those mentioned above for asbestos and lead, the Contractor shall be Responsible and liable for the damages the cost incurred by the City, and for the cost of the removal abatement, and replacement of the building material.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 41 00
REGULATORY REQUIREMENTS

PART 1—GENERAL

1.1 SUMMARY

A. This Section includes requirements for: Codes, Safety Rules, Regulations and Permit Provisions that the Contractor shall comply with.

B. Related Documents and Sections include:

12. Section 00 72 00 - General Conditions

13. Section 00 73 00 – Supplementary Conditions

14. Section 01 33 00 – Submittal Procedures

15. Section 01 35 49 - Minimum Environmental Procedures

C. Compliance with the applicable provisions of Federal, State, and local laws, codes, safety rules, and regulations is incidental to the work it pertains to.

1.2 DESCRIPTION

A. All materials, installation, and construction shall comply with the applicable provisions of current laws, regulations, codes, safety rules, and permits of the City and County of San Francisco, the State of California, the Federal Government, governing utility districts, and any other applicable authorities having jurisdiction over construction and completion of the Work, including but not limited to, the State Fire Marshall, Cal/OSHA and the State Construction Safety Orders, and the California Labor Code.

B. Except where noted, the most recent editions of Codes, Standards, and Regulations at the time of the Contract shall apply to the Contract throughout, and it shall be deemed to be incorporated by reference.

C. The Contractor shall obtain and comply with the conditions of all permits and PW/SFMTA Referrals (as more particularly described in Section 1.4.B, below) required for the Work or for temporary facilities, including indemnification and insurance requirements, and shall pay all fees and furnish any deposits and bonds required for such permits.

D. The Contractor shall keep a hard or electronic copy of Codes required permits and PW/SFMTA Referrals in its job site field office, and shall ensure that the Contractor's and Subcontractor's superintendents and foremen are thoroughly familiar with such Codes, permits, and PW/SFMTA Referrals.

E. Contractor shall provide sufficient time in its Baseline Schedule to obtain permits. Contractor's failure to provide reasonable estimate of time for permitting agencies to review and approve permit application shall preclude Contractor's claim for demand for additional time or compensation for delay arising from its failure to provide adequate time for permit processing.

F. Codes referenced in the Contract Documents shall have full force and effect as though set out in full in these Specifications. Nothing in the Contract shall be construed to permit Work not conforming to applicable Code requirements.

G. The Codes and other authorities referenced in the Contract Documents are not a comprehensive list of all Codes applicable to the Work; the Codes listed in the Contract Documents are referenced for the information and convenience of the Contractor only.

The City does not represent that the all Codes applicable to the Work have been cited or adequately described in the Contract Documents. Contractor is solely responsible for compliance with all Codes applicable to the Work and relevant to the Contractor's means and methods of performing said Work.

H. The Contractor shall maintain required permits and PW/SFMTA Referrals valid for the entire Contract Time, including any extension or delay. All Work and expenses incurred by the Contractor to obtain and maintain required permits and PW/SFMTA Referrals is Incidental Work, except as otherwise specifically provided in the Contract Documents.

I. Whenever reference is made to "Caltrans Standard Specifications," it shall be understood to be the most recent edition of the State of California, Department of Transportation, Standard Specifications.

J. Contractor is responsible to comply with all permit requirements, for payment fines, penalties, and all other costs of permit violations within the Contractor's control or responsibility.

K. The Contractor shall obtain and pay for (unless otherwise noted) all permits, inspections, and service requests to start and complete Work. Permit costs shall include all associated costs for notifications, walk-through, in-progress inspections, final inspections, oversight, and approvals.

1.3 CITED CODES AND AUTHORITIES

A. Nothing contained in this Contract shall relieve Contractor, or any Subcontractor or Supplier, from the obligations set forth above and obligations as required by applicable laws, rules, or regulations. If a provision of this Document conflicts with any applicable provision of this Contract or any federal, state, or local safety regulations, the more stringent requirements that maintain a greater level of safety shall apply.

B. Contractor shall conform all work of the Contract to meet or exceed the applicable requirements of the latest editions of the applicable codes, laws, ordinances, standards, rules and regulations referenced in the General Provisions including, but are not limited to the following:

1. San Francisco Municipal Codes, including but not limited to the San Francisco Administrative Code, San Francisco Building Code, San Francisco Electrical Code, San Francisco Environment Code, San Francisco Health Code, San Francisco Mechanical Code, San Francisco Plumbing Code, San Francisco Police Code, San Francisco Public Works Code, San Francisco Transportation Code, San Francisco Fire Code, and all department orders adopted pursuant thereto.

    a. SFMTA Regulations for Working in San Francisco Streets.

    b. SFMTA Health & Safety Requirements, "Roadway Worker Protection" training, "Track Access Clearance Permit", and overhead contact system rules.

    c. CCR, Title 8, Subsection 3203 (a)(7) and Muni Procedures SY.PR.034 – Contractor Safety Program and SY.PL.03 – Roadway Worker Protection (RWP) Plan.

    d. DPW Order 178,940, Regulations for Excavating and Restoring Streets in San Francisco.

    e. DPW Order 174,878, Regulations and Slip Resistant Standards for Any Manhole, Vault, or Sub-Sidewalk Basement Cover, Grille, Grate on the Public Sidewalk.

    f. DPW Order 172,596, Guidelines for Processing and Issuance of Special Sidewalk Permits within the Downtown Streetscape Areas.

g. DPW Order 171,442 Regulation for Excavating and Restoring Streets in San Francisco

h. DPW Order 171,378, Dust Control Order

i. DPW Order 171,333, Dust Generation and Control Regulations

j. DPW Order 167,840, Placement of Barricades at Construction Site.

k. DPW Order 135,595, Street Opening and Pavement Restoration Regulations for Non Moratorium City Streets.

l. Article 4.1 and 4.2 San Francisco Public Works Code; Industrial Waste Ordinance

m. Article 2.4, San Francisco Public Works Code, Excavation in the Public Right-of-Way

n. Article 29, San Francisco Police Code, Regulation of Noise.

o. The San Francisco Building Code Section 106.3.2.6.

2. San Francisco Health Code

   a. Article 21 – Hazardous Materials

   b. Article 21A – Risk Management Program

   c. Article 22 – Hazardous Waste Management

   d. Article 22A – Analyzing Soils for Hazardous Waste (Maher Ordinance)

   e. Article 22B – Construction Dust Control Ordinance #176-08

3. San Francisco Department of Building Inspection (SFDBI) Central Permit Bureau – Major Plan Check Division.

4. San Francisco Department of Public Health (SFDPH).

5. Regulations and Policies of the San Francisco Municipal Railway.

6. Clean Construction Ordinance under the SF Administrative Code. Clean Construction Ordinance under the SF Administrative Code, Chapter 6, Section 6.25 and Section 6.67, SF Environment Code, Chapter 4: Section 426 Clean Construction Assistance and Reporting, City Ordinance # 70-07, and City Ordinance # 28-15.

   http://www.sfbos.org/ftp/uploadedfiles/bdsupvrs/ordinances15/o0028-15.pdf

7. California Code of Regulations (CCR) or California Administrative Code, Title 8 - Industrial Relations, Part 1 - Department of Industrial Relations, Chapter 4 - Division of Industrial Safety:

   a. Subchapter 4 - Construction Safety Orders (CSO),

   b. Subchapter 5 - Electric Safety Orders (ESO),

   c. Subchapter 7 - General Industry Safety Orders (GISO).

   d. The Contractor's attention is directed to sections of above Safety Orders, which cover some of the most frequently encountered safety concerns, as follows:

      1. CSO #1540 - Excavations

      2. CSO #1541 - Shoring, Sloping and Benching Systems

      3. CSO #1598 - Traffic Control for Public Streets and Highways

      4. CSO #1599 - Flaggers

5. GISO #3380 - Personal Protective Devices
6. GISO #3381 - Head Protection
7. GISO #3395 –Heat Illness Prevention Standards
8. GISO #3646 - Operating Instructions (Elevated Work Platforms)
9. GISO #3648 - Operating Instructions (Aerial Devices)
10. GISO #5003, #5006, #5021, #5022, #5024, #5025 - Cranes
11. ESO #2940.2 - Clearances
12. ESO #2940.7 - Mechanical Equipment
13. ESO #2941 - Work On or In Proximity of Overhead High Voltage Lines
14. ESO #2946 - Provisions for Preventing Accidents due to Proximity of Overhead Lines

8. CCR Title 17, Public Health, including the Final Regulation Order of 07/22/2002, in Section 93105, on Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations (http://www.arb.ca.gov/toxics/atcm/ asb2atcm.htm).
9. Cal/OSHA Construction Asbestos Standard, 8 CCR all applicable Sections and Section 1529, including those for naturally occurring asbestos.
10. Respirable Crystalline Silica OSHA Regulation 29 CFR 1926.1153, and California Code of Regulations, Title 8, section 1532.3, 1530.1, and 5155.
11. Cal/OSHA Lead in Construction Standard 8 CCR 1532.1.
12. USEPA's Lead Renovation, Repair and Painting Rule (RRP Rule, https://www.epa.gov/lead/fqs-rrp-rule), and Lead-Safe Work Practices to work safely with lead-based paints.
13. The San Francisco Department of Building Inspection, Work Practices for Disturbance and Removal of Lead-Based Paint on Pre-1979 Buildings and Steel Structures.
14. CCR Title 19, Public Safety.
15. CCR Title 22, Social Security, Division 4, Environmental Health, and Division 4.5, Environmental Health Standards for the Management of Hazardous Waste.
16. CCR Title 24, California Building Standards Code – 2016
    a. Part 1, California Building Standards Administrative Code
    b. Part 2, California Building Code
    c. Part 3, California Electrical Code
    d. Part 4, California Mechanical Code
    e. Part 5, California Plumbing Code
    f. Part 6, California Energy Code
    g. Part 7, NOT USED
    h. Part 8, California Historic Building Code
    i. Part 9, California Fire Code
    j. Part 10, California Existing Building Code

k. Part 11, California Green Building Standard Code

l. Part 12, California Reference Standards Code

17. CCR Title 24, Americans with Disabilities Act – Accessibility Guidelines for Buildings and Facilities.

18. CCR Title 26, Toxics.

19. CCR Article 4.8 Section 2449 General Requirements for In-Use off Road Diesel fueled fleets, ARB AB 1085. (http://www.arb.ca.gov/msprog/ordiesel/knowcenter.htm)

20. California Division of Industrial Safety.

21. California Department of Transportation – Right-Of-Way Cooperative Agreement Procedures and California Manual on Uniform Traffic Control Devices (MUTCD).

22. California Labor Code.

23. California State Vehicle Code.

24. California Public Utilities Code Section 29037.

25. State of California Public Utilities Commission.

    a. General Order No. 26D, Regulations Governing Clearances on Railroads and Street Railroads with Reference to Side and Overhead Structures, Parallel Tracks, Crossings of Public Roads, Highways and Streets.

    b. General Order No. 95, Rules for Overhead Line Construction.

    c. General Order No. 128, Rules for Construction of Underground Electric Supply and Communication Systems.

    d. General Order No. 143B, Safety Rules and Regulations governing Light Rail Transit.

    e. State of California Public Utilities Commission, General Order No. 172, Rules and Regulations Governing the Use of Personal Electronic Devices by Employees of Rail Transit Agencies and Fixed Guideway Systems.

    f. The State of California Wireless Communications Device Law (effective January 1, 2009) makes it an infraction to write, send, or read text-based communication on an electronic wireless communications device, such as a cell phone, while driving a motor vehicle.

26. California Health and Safety Code.

27. California Occupational Safety and Health Administration (CAL/OSHA).

28. California Storm Water Municipal and Construction Activity BMP Handbooks.

29. California Regional Water Quality Control Board (RWQCB)

30. State Water Resources Control Board

31. California Air Resources Board (CARB) regulations.

32. Bay Area Air Quality Management District (BAAQMD) regulations.

33. Construction General Permit (CGP)

    a. Order 2009-0009 DWQ of the Clean Water Act

    b. Order 2010-0014 DWQ Adopted Order that amends Order 2009-0009 DQQ of the Clean Water Act.

34. Code of Federal Regulations (CFR):

a. CFR Title 29, Labor - Labor Environmental Health and Safety Plan (EHASP).

b. CFR Title 40, Protection of Environment.

c. CFR Title 49, Transportation.

35. Federal Transit Administration (FTA) Regulations and Best Practices Manual.

36. Federal Clean Air Act.

37. Federal Clean Water Act.

38. Federal Railroad Administration (FRA)

a. Roadway Protection Rule (49 CFR Part 214C).

39. Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities.

40. National Fire Protection Association (NFPA) code:

a. NFPA 70, National Electrical Code.

b. NFPA 92B, Standard for Smoke Management Systems in Malls, Atria, and Large Spaces.

c. NFPA 130 - 2007, Standard for Fixed Guideway Transit and Passenger Rail Systems.

41. National Electric Code (NEC)

42. Uniform Fire Code.

43. The Work Hours and Safety Standards Act (40 U.S.C. 327 et seq.)

44. Americans with Disabilities Act Guidelines

45. AWWA C651-92, Standard for Disinfecting Water Mains.

46. Department of Toxic Substances Control (DTSC) Advisory Note for Clean Imported Material.

47. Regional Water Quality Control Board (RWQCB)'s Environmental Screening Levels (ESLs), Tier 1 levels.

48. Caltrans Standard Specification Manual and all revisions as published by the State of California, Department of Transportation.

1.4 PERMITS TO BE OBTAINED BY CONTRACTOR

A. At no cost to the City, the Contractor shall obtain the following permits as applicable but not limited to, and as needed:

1. State, County, and City Transportation vehicle permits for construction related vehicles that are over width, over length, overweight, overload.

2. State Industrial Safety Orders/Construction Safety Orders: Training and Certification of Workers – Confined Spaces (Confined Space Entry Plan and Permit as per CCR Title 8, and local requirements), Welding, High Voltage Electrical.

3. CAL/OSHA permits:

a. Construction permits:

1. Trenches/Excavations five feet and deeper.

2. Building, structure, scaffolding or false work 36 feet and higher.
3. Demolition of building, structure 36 feet and higher.
4. Erection, dismantling of vertical shoring 36 feet and higher.
5. Tower cranes: fixed and mobile.

b. Tunneling permits that include usage of diesel engines in the station caverns.

c. Elevator permits for temporary hoisting and lifting equipment.

4. The Contractor shall obtain all Bay Area Air Quality Management District (BAAQMD) and the California Air Resources Board (CARB) applications, permits, and notifications, and pay for the BAAQMD Regulation 3 Fees as required. For information on the permit requirements and application forms check the web page at www.baaqmd.gov, or http://www.baaqmd.gov/enf/compliance_assistance/index, or call the compliance assistance hotline at (415) 749-4999. For asbestos http://www.baaqmd.gov/enf/asbestos/index.htm or call the district's Asbestos Program at (415) 749-4762.

a. The following BAAQMD permits forms shall be completed for work involving screening, crushing or grinding, and use of abatement devices:

1. Form P-201: General information
2. Form P-101B: General information
3. Form G: Emission Source (crusher or grinder)
4. Form A: Abatement Devices: Wet Spray System

b. Contractor is hereby notified that screening or crushing operations of excavated materials cannot proceed without the appropriate BAAQMD, and Cal-EPA/DTSC permits.

c. Contractor is hereby notified that diesel exhaust pollutants requirements under ARB 1085 for In-use off- road diesel fueled fleet are in effect to minimize diesel exhaust emissions. Contractor shall register and obtain an Equipment Identification Number (EIN) per vehicle/equipment over 25 horsepower with the Air Resources Board (http://www.arb.ca.gov/msprog/ordiesel/knowcenter.htm).

a. Prior to start of any asbestos abatement work, the Contractor shall file the Bay Area Air Quality Management District (BAAQMD) Notification Form (under Demolition Regulation 11, Rule 2) and obtain a J#.

5. Cal/EPA, Department of Toxic Substances Control (DTSC) permits and notifications, including but not limited to permit–by-rule, hazardous waste facilities permit, transportable treatment unit (TTU), and treatment storage and disposal facility (TSDF) permits.

6. The Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, and the California State Water Resource Control Board (SWRCB) permits and notifications, and not limited to:

a. National Pollutant Discharge Elimination System (NPDES) Permit – for sewer connections direct to Bay during construction.

7. San Francisco Department of Public Health (SFDPH) – Hazardous Materials Unified Program Agency permits:

a. Hazardous Materials Certificate of Registration: As deemed necessary, the Contractor shall obtain and keep current a hazardous materials certificate of

registration and implement the hazardous materials plan submitted with the registration application, in accordance with Articles 21, 21A, and 22 of the San Francisco Public Health Code. Contact the SFDPH/HMUPA at (415) 252-3900. The Hazardous Materials Certificate of Registration includes and is not limited to:

1. A chemical inventory
2. An emergency response plan
3. A training program for employees in safety procedures in the event of a release or a threatened release of hazardous materials.
4. A site map showing where the hazardous materials are located

b. Well Construction/Decommissioning or Soil Borings Permit: As deemed necessary, a permit is required to construct or operate an environmental or geotechnical well or soil boring. These wells include, but are not limited to, cone penetrometers, inclinometers, piezometers, cathodic wells, exploratory wells, extraction wells, recovery wells, monitoring wells, temporary wells, irrigation wells, industrial wells, dewatering wells, wick drains, hydropunch soil borings ,and soil borings drilled for geotechnical or environmental purposes (whether or not groundwater is encountered). This information is not intended as a substitute for familiarity with applicable laws and regulations. The Contractor shall use a driller with a C-57 state license. Contact the SFDPH, Monitoring Well Section at least 15 Working Days in advance of drilling at (415) 252-3947.

c. Underground Storage Tank (UST) Permit: As deemed necessary, all modifications, repairs, removals and installation of USTs shall require approval of the SFDPH, compliance with Articles 21, 21A and 22 of the San Francisco Public Health Code, and its implementing regulations, compliance with applicable provisions of Chapters 6.7 and 6.75 of the California Health and Safety Code, Section 25280 et al. Contact the SFDPH/HMUPA at (415) 252-3900.

8. SFDPW permits:

a. Encroachment (minor and major) permits for sidewalks.

b. Street Excavation Permit.

c. Street Improvement Permit.

d. Utility Excavation Permit.

e. Street Space Permit.

f. Temporary Occupancy Permit.

g. Sidewalk Legislation Permit – Temporary by Contractor.

h. Sidewalk Permit – Temporary by Contractor.

i. Surface Mounted Facility Permit – Temporary by Contractor.

j. Parking Legislation Permit – Temporary by Contractor.

k. Debris Box Permit.

l. Removal of City Survey Benchmarks Permit needed for removal of existing survey benchmarks.

m. Pipe Barrier Permit.

n. Personal Wireless Permit.

o. Side sewer connection Permit.

p. Boring/Monitoring Wells Permit.

q. Underground Storage Tank Removal Permit.

9. Excavation, street space, side sewer, and street improvements permits from the San Francisco Department of Public Works, Bureau of Street Use and Mapping (BSM), 1155 Market Street, 3rd Floor, San Francisco.

   a. Contractor shall contact DPW/BSM at (415) 558-4400 for all requirements for applying for the permit and the cost of the fees. City Representative will not allow any Work on the street without an Excavation Permit.

   b. Contractor shall be the applicant of the permit, comply with all permit requirements, pay all costs, and be responsible for fines resulting from non-compliance to the permit requirements.

   c. Contractor shall pay all permit fees requested by DPW/BSM.

   d. It is the responsibility of the Contractor to determine the number of calendar days to complete the Work in the permit application.

   e. It is the responsibility of the Contractor to keep permits valid for the entire period of construction including periods of extension or delay. All work and costs incurred to apply for and obtain the excavation permit, and keeping a valid permit shall be Incidental Work, and no separate payment shall be made to the Contractor, except as provided below.

10. Rockwheel Permit.

11. Electrical permits.

12. Permits as required by the SFMTA, 1 South Van Ness Avenue, 7th floor, San Francisco, telephone (415) 701 4500

13. San Francisco Public Utilities Commission (SFPUC) Permits. Waste Water Enterprise, Collection System Division (WWE-CSD), 3rd Street, Suite 600, San Francisco, or the San Francisco Permit Center 1660 Mission Street, San Francisco.

    a. Batch wastewater discharge permit. Telephone (415) 695-7321

    b. Construction Site Runoff Control Permit, Telephone (415) 695 7339

14. San Francisco PUC/WWE-CSD use of reclaimed water permit. Contact WWE-CSD at (415) 648-6882 x1378.

15. San Francisco PUC/Water Department/City Distribution Division permits and service requests for water and meters.

16. San Francisco PUC/Bureau of Light, Heat, and Power (BLHP) permit and notification for removal of all street lighting.

17. San Francisco PUC/ Hetch Hetchy Water & Power (HHWP) application and notification for electrical service connection to PG&E. Contact HHWP at (415) 554-1596.

18. Other than the San Francisco Department of Building Inspection (DBI) Building Permit), the Contractor shall obtain and pay for other DBI permits to start and complete the Work.

    a. For other DBI permits (including but not limited to Demolition, Electrical, Mechanical, and Plumbing):

       1. Contractor shall obtain all other required permits from DBI, and shall pay for any additional costs related to the permits that were not covered by the Building Permits, prior to the start of permitted work.

2. Contractor shall not start Work Site without the appropriate and valid DBI Job Cards (to record sign-offs by building inspectors upon satisfactory in-progress inspections and final inspection) on site.
3. Contractor shall be responsible for obtaining the appropriate and valid DBI Job Cards and DBI approved sets of Contract Drawings and Specifications, prior to the planned or actual start of permitted work.
4. Contractor shall be responsible for arranging and coordinating periodic and final inspections by DBI, and satisfying all other requirements of DBI, including securing for City Temporary Certificates of Occupancy, if requested by City, and the Certificates of Final Completion and Occupancy from the DBI as required.

19. San Francisco Fire Department permits, including but not limited to:
    a. The flammable or combustible material storage permit. Contact the SFFD, Bureau of Fire Prevention at (415) 558-3300.
    b. Permit and notification for AWSS relocation.
    c. Permit and notification for removal and installation of fuel or chemical storage tanks.
20. San Francisco Police Department permits, including noise permits.
21. Port of San Francisco permits.
    a. Dewatering Permit: The Contractor shall obtain a dewatering discharge permit to the Bay through the Port of San Francisco Engineering, Stormwater Management Program. Contact Richard Berman at (415) 274-0276.
    b. Encroachment Permit: The Contractor shall file an application and obtain encroachment with the Engineering Building Permit Services. www.sfport.com Telephone: (415) 274-0554.
    c. Building Permit.
22. San Francisco City Planning permits and approvals.
23. San Francisco Recreation and Parks Department permits
24. San Francisco Municipal Transportation Agency (SFMTA) permits.
24. Utility Service Alert (USA) permits and clearance at 1- (800) 642-2444.
25. Any other permit required to perform the Work not listed in Paragraph 1.4, above.

B. Public Works (PW) Review and Referral Process

1. To perform any of the Work described below, Contractor shall not seek a permit from PW, but Contractor shall seek review and approval through the PW/SFMTA Referral process explained below. The following Work is subject to the PW/SFMTA Referral process:
    a. Night Work/Noise Restrictions
    b. Excavation in the Public Right-of-way (San Francisco Public Works Code Article 2.4)
    c. Any other activities subject to review by PW, including, but not limited to, sidewalk and street encroachments, temporary street occupancies, street improvements, debris boxes, side sewer connection, boring/monitoring well and tanks, tree plantings and removals, and landscaping.

2. PW/SFMTA Referral Process

a. Contractor shall submit to PW, on a form provided by PW, a schedule and description of the elements of the Work to be performed. If satisfied that the submittal is in compliance with Codes, PW will provide to the SFMTA, through a Referral, direction and requirements necessary for Contractor to perform the Work described in said submittals. Contractor shall strictly comply with the directions and requirements of PW and all provisions of this Agreement concerning those elements of the Work. Contractor shall pay any fees required by PW for review of the submittal(s) and any required inspections.

1.5 SUBMITTALS

A. A copy of each permit that the Contractor obtains shall be provided to the City Representative for information prior to commencing Work covered by such permit.

1.6 RESOLUTION OF CONFLICTS

A. If the Contractor is aware that the Specifications or Drawings are at variance with permits, laws, or regulations, the Contractor shall give the City Representative prompt written notice thereof and the City Representative will resolve the conflict in accordance with the General Conditions. If the Contractor performs Work knowing or having reasons to know that it is contrary to such permits, Codes and safety rules, and without such notice to the City Representative, the Contractor shall bear all responsibility and costs arising there from including all costs of demolition correction and completing the nonconforming Work.

1.7 SEISMIC LOADING DESIGN PROVISIONS

A. Contractor shall be responsible for the design of all supports and anchorages for all nonstructural components including mechanical and electrical equipment, pumps, and piping to be constructed or installed by Contractor.

B. The Contractor shall provide the services of a civil or structural engineer registered in the State of California for preparing such designs, which shall be in accordance with the seismic loading provisions of the current edition of the San Francisco Building Code, using an importance factor of 1.0 or greater.

C. Shop drawings and supporting calculations of all supports and anchorages shall bear the seal, signature and license expiration date of the engineer hired by the Contractor.

PART 2- PRODUCTS (NOT USED)

PART 3- EXECUTION (NOT USED)

END OF SECTION

SECTION 01 42 00

REFERENCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Applicable Publications
2. Standard Specifications
3. Reference Specifications, Codes, and Standards
4. Abbreviations
5. Definitions

B. Related Documents: Section 00 72 00 - General Conditions, Paragraph 1.01, Definitions.

C. Related Sections: Refer to individual Specification sections for definitions of terms, which may be used uniquely in the Work covered, by each section.

1.2 APPLICABLE PUBLICATIONS

A. Whenever in these Specifications references are made to published specifications, codes, standards, or other requirements, it shall be understood that whenever no date is specified only the latest specifications, standards, or requirements of the respective issuing agencies in effect on the date of the Contract Documents, except to the extent that said standards or requirements may be in conflict with applicable laws, ordinances, or governing codes.

1.3 STANDARD SPECIFICATIONS AND PLANS

A. Unless otherwise specified, reference in these Specifications to the "DPW Standard Specifications" or "Standard Specifications" shall mean the Standard Specifications of the Department of Public Works, Bureau of Engineering, revised November 2000, except that the provisions for measurement and payment shall not apply. References in Parts 2 through 10 of the Standard Specifications to Sections of Part 1 of the Standard Specifications shall be construed to mean references to the respective provisions of the General Conditions (refer to Section 00 72 00).

B. Unless otherwise specified, reference in these Specifications to the "DPW Standard Plans" or "Standard Plans" shall mean the Standard Plans of the Department of Public Works, Bureau of Engineering, including latest revisions.

C. Digital copies of the Standard Specifications and Plans may be obtained from DPW's Standard Specifications and Plans website at: http://www.sfpublicworks.org/ (select "Services" then "Contractor Resources")

D. Caltrans Standard Specifications (CTSS) is a reference specification written by the California Department of Transportation and shall be referenced in theses Specifications as "CTSS" or "CalTrans Standard Specifications."

1.4 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

A. Upon written request, the City Representative will furnish information as to how to obtain copies of the referenced standards.

B. In case of conflict between codes, reference standards, Drawings, and the other Contract Documents, the most stringent requirements shall apply.

C. The Standard Specifications is applicable only when referred to in these specifications. Only the specific sections referred to shall apply to this Contract.

D. The standard referred to, except as modified in the Contract Documents, shall have full force and effect as though printed in these Specifications.

E. Maintain copies of the codes and reference standards with the Contract Documents at the job site at all times.

1.5 ABBREVIATIONS

A. Abbreviations: Whenever in these Contract Documents the following abbreviations are used, the intent and meaning shall be interpreted as follows:

AA	Aluminum Association, Inc.
AAMA	Architectural Aluminum Manufacturers' Association
AAN	American Association of Nurserymen, Inc.
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ACWS	Asphalt Concrete Wearing Surface
AFBMA	Anti-Friction Bearing Manufacturers Association
AGA	American Gas Association
AGMA	American Gear Manufacturers' Association
AIA	American Institute of Architects
AIEE	American Institute of Electrical Engineers
AISC	American Institute for Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
AMCA	Air Movement and Control Association
ANSI	American National Standards Institute
APA	American Plywood Association
API	American Petroleum Institute
APWA	American Public Works Association
AREA	American Railway Engineering Association
ARI	American Refrigeration Institute
ASA	American Standards Association
ASAE	American Society of Agricultural Engineers
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
ASLA	American Society of Landscape Architects
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AT&T	American Telephone and Telegraph
AWG	American Wire Gage
AWI	Architectural Woodwork Institute
AWPA	American Wood Preservers Association
AWPB	American Wood Preservers Bureau
AWS	American Welding Society
AWSS	Auxiliary Water Supply System
AWWA	American Water Works Association
BHMA	Builders Hardware Manufacturers Association

BOA	Bureau of Architecture, Department of Public Works
BOE	Bureau of Engineering, Department of Public Works
BWPC	Bureau of Water Pollution Control, Department of Public Works
Caltrans	California Department of Transportation
Cal/OSHA	California Occupational Safety and Health Administration
CBMA	Certified Ballast Manufacturers Association
CCR	California Code of Regulations
CDA	The Copper Development Association, Inc.
CFR	Code of Federal Regulations
CISPI	Cast Iron Soil Pipe Institute
CMAA	Crane Manufacturers Association of America
CRSI	Concrete Reinforcing Steel Institute, Inc.
CS	Commercial Standards - U.S. Department of Commerce
CSI	Construction Specifications Institute
CTSS	Caltrans Standard Specifications
CWP	Clean Water Project
DOT	United States Department of Transportation
DPW	Department of Public Works - City and County of San Francisco
EIA	Electronic Industries Association
EPA	Environmental Protection Agency
FGNA	Flat Glass Marketing Association
FHWA	Federal Highway Administration
FM	Factory Mutual
FS	Federal Specification
HI	Hydraulic Institute
HMI	Hoist Manufacturer's Institute
IAMPO	International Association of Mechanical and Plumbing Officials
ICBO	International Conference of Building Officials
ICEA	Insulated Cable Engineers Association
IEEE	Institute of Electrical and Electronic Engineers
IES	Illuminating Engineering Society
ISA	Instrument Society of America
ITE	Institute of Traffic Engineers
JIC	Joint Industry Conferences of Hydraulic Manufacturers
MCAA	Mechanical Contractors Association of America, Inc.
MLMA	Metal Lath Manufacturers Association
MMA	Monorail Manufacturers Association
MTD	Metro Transit District
NAAM	National Association of Architectural Metal Manufacturers
NBFU	National Board of Fire Underwriters
NBHA	National Builders' Hardware Association
NECA	National Electrical Contractors Association
NEC	National Electric Code
NEMA	National Electrical Manufacturers Association
NESC	National Electrical Safety Code
NFC	National Fire Code
NFPA	National Fire Protection Association
NLMA	National Lumber Manufacturers Association
NTMA	National Terrazzo and Mosaic Association, Inc.
NWMA	National Woodwork Manufacturers Association
OECI	Overhead Electrical Crane Institute
OSHA	Occupational Safety and Health Administration - U.S. Department of Labor
PEI	Porcelain Enamel Institute
PG&E	Pacific Gas and Electric Company
PS	Product Standards Section - U.S. Department of Commerce

RCM	Registered Construction Management
RCP	Reinforced Concrete Pipe
RLM	RLM Standards Institute, Inc.
RMA	Rubber Manufacturers Association, Inc.
SAE	Society of Automotive Engineers
SCPI	Structural Clay Products Institute
SDI	Steel Door Institute
SEWPCP	Southeast Water Pollution Control Plant
SMACNA	Sheet Metal and Air Conditioning Contractors National Association, Inc.
SJI	Steel Joist Institute
SSDPWSF	Standard Specifications, Department Of Public Works, City & County Of San Francisco
SSPC	Steel Structures Painting Council
STLC	Soluble Threshold Limit Concentration
TCA	Tile Council of America
TEMA	Tubular Exchanger Manufacturers' Association
TMA	Tile Manufacturers Association
TTLC	Total Threshold Limit Concentration
UBC	Uniform Building Code
UL	Underwriters Laboratories Inc.
UMC	Uniform Mechanical Code
UPC	Uniform Plumbing Code
VCP	Vitrified Clay Pipe
WCLIB	West Coast Lumber Inspection Bureau
WIC	Woodwork Institute of California
WWPA	Western Wood Products Association

1.6 DEFINITIONS

A. As directed, As required, As permitted: Interpretation of Phrases - Wherever the words "as directed," "as required," "as permitted," or words of like effect are used, it shall be understood that the direction, requirement, or permission of the City Representative or governmental regulatory agency having jurisdiction is intended. The words "sufficient," "necessary," "proper," and the like shall mean sufficient, necessary, or proper in the judgment of the City Representative. Wherever the words "inspect," "approved," "acceptable," "satisfactory," or words of like import are used to describe a requirement, direction, review, or judgment of the City Representative as to the work, it is intended that such requirement, direction, review, or judgment will be solely to observe and evaluate, in general, the completed work for compliance with the requirements of the Contract Documents, unless otherwise specifically stated.

B. Engineer, Architect, Landscape Architect, or City Representative: References in these Specifications to "Engineer, Architect, Landscape Architect, or City Representative" shall be deemed to mean the City Representative.

C. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the City Representative, items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in their original locations.

D. Remove and Dispose: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the City's property.

E. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.

F. Remove and Salvage: Items indicated to be removed and salvaged remain the City's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to City's designated storage area.

G. Work Site: The space available to Contractor for performance of construction activities, either exclusively of in conjunction with others performing other work as part of the Work. The extent of the Work site is shown on the Drawings and may or may not be identical with the geographical description of the site upon which the Work is to be constructed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 45 00

QUALITY CONTROL

PART 1 - GENERAL

1.1 SECTION INCLUDES

1.2. Contractor's Quality Control Plan and Services

1.3. Quality Control and Control of Installation

1.4. Tolerances

1.5. References

1.6. Observation by the Owner

1.7. Manufacturer's Field Services

1.8. Testing Agency Services

1.9. Requirements of Tests

3.1 Examination

1.2 CONTRACTOR'S QUALITY CONTROL PLAN AND SERVICES

A. The Contractor shall develop and submit to the City, a Quality Control Plan (QCP) for all materials, equipment, and services. The QCP shall be submitted to the City for review and approval prior to the start of Contract Work.
   1. The QCP shall include listing of the Contractor's Testing Agency and approved personnel with certifications.
   2. The QCP shall include type and frequency of testing for all Work completed under the Contract. It shall also include the identification of all offsite and factory test inspections.
   3. Work covered by the Quality Control Plan shall not commence until approval of the QCP.

B. Testing Services: Per General Conditions - 8.02 Tests and Inspections, all testing and inspection of the Work required by the Contract Documents shall be arranged and paid for by the Contractor. The Contractor shall provide the services of a qualified independent testing laboratory(s) or agency(s) to control the quality of Work and materials to fulfill the requirements of the Contract. No separate payment will be made for quality control, and all costs therefore shall be included in the prices named in the Schedule of Bid Prices for the various appurtenant items of Work.

1.3 QUALITY CONTROL AND CONTROL OF INSTALLATION

A. Maintain and monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. When manufacturers' instructions conflict with Contract Documents, request clarification

from Architect/Engineer and/or the City before proceeding.

D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Perform Work by persons qualified to produce required and specified quality.

F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.

G. Failure of Materials and Equipment Tested or Inspected:
1. Previous acceptance may be withdrawn and material may be subject to removal and replacement with material meeting Specification requirements, at no cost to the City.
2. The City may require submittal and approval of a Remediation Plan, when requested, for failed materials, equipment, products, services, site conditions, and/or workmanship.

1.4 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from the City and/or Owner's Agent before proceeding.

C. Adjust products to appropriate dimensions; position before securing products in place.

1.5 REFERENCES

A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.

B. Conform to reference standard by date of issue current on date of Contract Documents, except where specific date is established by code.

C. Obtain copies of standards where required by product and specification sections.

D. When specified reference standards conflict with Contract Documents, request clarification from the City and/or Owner's Agent before proceeding.

E. See Construction Manual, latest edition, published by the California Department of Transportation (Caltrans) and available for download at http://www.dot.ca.gov/hq/construc/constmanual/construction_manual.pdf for Materials Accepted on the Basis of a Certificate of Compliance (Section 6-203C of Caltrans Construction Manual).

1.6 DOCUMENTATION

A. The Contractor shall maintain current quality records to provide factual evidence that all activities, including quality control activities such as inspections and tests have been performed, accepted, and comply with the Contract Documents and the Quality Control

Plan (QCP). These quality records shall include the work of the Contractor, Subcontractors, Suppliers, inspection services and testing laboratories, and shall be on an acceptable form.

B. Quality records shall include but are not limited to Certificates of Compliance checklist, QCP, Subcontractor and Supplier Quality Programs, inspection reports, receiving inspection reports, calibration test reports, material test reports, Construction Non-Conformance Report (CNCR), personnel information (qualifications, certifications, resumes, and approvals), minutes of the Preparatory Phase, Initial Phase, and Follow up Phase meetings, procedures, Submittals and RFI logs, Punch Lists, and training records.

C. Contractor Inspector (CI) Daily Inspection Report shall include, as a minimum, the following information provided by the Contractor's Inspectors (CI):
   1. Contractor/Subcontractor and their area of responsibility.
   2. Description of the weather conditions encountered and the work performed each day, giving location, description, and by whom. Identify each phase of work performed each day by CPM schedule activity number or Work Break Structure (WBS), as applicable.
   3. Test, inspections and control activities performed with results and references to specifications/drawing requirements. List of deficiencies noted, along with the required corrective actions.
   4. Material and equipment received at the Site with statement as to acceptability (including verification/validation of required material identification, certifications, and quantities), storage and maintenance thereof, as required by the QCP.
   5. Surveillance and audit activities, both on- and off-site, performed and documented as required by the QCP.
   6. Documentation generated from the Preparatory Phase, Initial Phase, and Follow up Phase work.
   7. Each Contractor/Inspector's (CI) daily report shall clearly indicated that the work performed and material and or equipment incorporated into the Contract, is acceptable or unacceptable. Unacceptable work that is considered by the QCP to be in-process, which will be brought into conformance with the Contract Documents; both within one (1) working day, or at a time deemed to be reasonable by the QCP, and subject to approval of the Engineer, shall be clearly indicated on the CI Daily Report as requiring follow –up acceptance inspection. Work that is found to be non-conforming, that can't be brought into conformance with the Contract Documents, shall be documented and processed as required by the QCP with the Contractor's Non-Conformance Report number indicated on the Daily Contractor Inspection Report.
   8. Daily Inspection Reports: completed Quality Control inspection checklists or forms as described in the QCP, and related laboratory test report results for the work performed for the activities described within the Report shall be attached to the Daily Inspection Report and shall be furnished daily to the Engineer within 24 hours after the date covered by the Report. Reports need to be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every 7 Days of no work shall be for that Day only.
   9. Daily Inspection Reports shall be signed and dated by the Contractor's representative.

1.7 OBSERVATIONS BY THE OWNER

A. All work (which includes but is not restricted to materials, workmanship, and manufacture and fabrication of components) shall be subject to inspection and/or tests by the owner and by others authorized by the Owner. Any such inspection and/or test is for the sole benefit of the Owner and shall not relieve the Contractor of the responsibility of providing quality control measures to assure that the work strictly complies with the Contract

requirement. No inspector or test by the Owner shall be construed as constituting or implying acceptance. Inspections or tests shall not relieve the Contractor of responsibility for damage to or loss of the material prior to acceptance, nor in any way affect the continuing rights of the Owner after acceptance of the completed work.

The contractor shall make available all offsite fabrication facilities for inspection of fabricated items by the Owner.

During the course of construction, inspections may be conducted by authorized representatives of the City, various inspectors at the site, or independent agencies designated by the City.

1. The presence of inspectors or independent agencies shall not relieve Contractor of the responsibility for the proper execution of the work in accordance with the requirements of the Contract Documents. Compliance is a duty of Contractor, and said duty shall not be avoided by any act or omission on the part of the inspectors.

B. All products, materials, and equipment furnished by Contractor may be subject to inspection by the City both on-site and at the place of manufacture.

1. Contractor shall at all times provide access to the work for representatives of the City and other agencies designated by the City wherever Contract work is in preparation, in progress or completed.

If the Contractor does not promptly replace rejected material or correct rejected workmanship, the Owner may, by Contractor or otherwise, replace such material or correct such workmanship and deduct the cost thereof from subsequent progress payments.

C. Inspection items include, but are not limited to, construction quality, deficiencies, and corrections thereof; technical data on materials, tests, and laboratory analysis; contract change orders, claims, and other contract administration matters; and daily logs.

D. The Contractor shall be held responsible for delay of inspection or test due to material or work not being acceptable or ready at the time specified by the Contractor for such inspection or test, and due to re-inspection or retest necessitated by prior rejection.

E. The Contractor shall not cover, or allow to be covered, any of the work installed under this Contract without the Owner's Agent's approval. Should any of the work be covered prior to such approval, the Owner's Agent shall have the authority to require the work to be uncovered for inspection and approval, re-covered, and all resultant damage repaired, all at the Contractor's expense.

F. Should it be necessary or advisable by the owner, at any time before acceptance of the entire work, to make examination of work already completed, the Contractor shall, on request, promptly furnish all necessary facilities, labor, and material requested. If such work is found to be defective or nonconforming, the Contractor shall be responsible for all the expenses of such examination and for satisfactory reconstruction. If, however, the Owner's Agent was allowed ample opportunity to inspect said work and the work is found to meet the requirements of the Contract, the Contractor will be compensated for the additional services involved in such examination and reconstruction under force account, and if completion of the work has been delayed thereby, he shall, in addition, be granted a suitable extension of time.

G. Neither inspections nor approvals by the Owner's Agent or by others shall relieve the Contractor from the obligation to perform the work in accordance with the Contract. Contractor shall be responsible for calling Code Enforcement Agencies such as the

Bureau of Building Inspection, San Francisco Fire Department, Department of Public Health, etc.

1.8 MANUFACTURER'S FIELD SERVICES

A. When specified in the respective Specification Sections, require manufacturer or supplier to have qualified representative(s) perform on-site observations and make recommendations.
   1. Observe field conditions, including conditions of surfaces and installation.
   2. Observe quality of workmanship.
   3. Furnish recommendations to assure acceptable installation and workmanship.
   4. Where required, start, test, and adjust equipment as applicable.
   5. Where required, certify that work is installed, adjusted, tested, and satisfactorily performs In accordance with the requirements of the Contract Documents.

B. Representative shall submit written report to City listing observations and recommendations.

C. Maintain a complete set of manufacturer's instructions at the jobsite during installation and provide to the City and/or City's Agent prior to performing the work described in the instructions and again at the completion of the work as Project Record Documents.

D. Unless otherwise, indicated or specified, perform work including, handling, installing, connecting, cleaning, conditioning, and adjusting products in strict accordance with such instructions.

1.9 TESTING AGENCY SERVICES

A. Contractor shall employ and pay for specified services of an independent firm to perform testing and inspection.

B. The independent firm shall perform tests, inspections, and other services specified in individual specification sections and as required by the City and/or Owner's Agent.
   1. Laboratory: Authorized to operate in State of California.
   2. Laboratory Staff: Minimum full time registered Engineer on staff to review services. Testing Agency will furnish sufficient personnel to perform testing and inspection in a reasonable manner so the Contractor is not caused undue delays and expense.
   3. Testing Equipment: Calibrated at reasonable intervals with devices of an accuracy traceable to National Bureau of Standards or accepted values of natural physical constants.
   4. Testing Agency services will be performed in accordance with requirements of governing authorities and with specified standards.

C. Testing, inspections and source quality control may occur on or off project site. Perform off-site testing as required by the City and/or Owner's Agent.

D. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
   1. Notify the City and/or City's Agent and independent firm 48 hours prior to expected time for operations requiring services.
   2. Make arrangements with independent firm and pay for additional samples and tests required for Contractor's use.

E. Testing and employment of testing agency or laboratory shall not relieve Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

F. Reports will be submitted to the City and Contractor giving observations and results of tests, indicating compliance or non-compliance with specified standards and with Contract Documents. Test results and reports shall be submitted to the City upon their completion within 24 hours.
   1. Where required, Testing Agency will submit copy of test results directly to enforcing agency.
   2. When test or inspection reveals nonconformance with Contract Documents, Testing Agency will orally notify City and Contractor immediately and subsequently by written report.

G. Re-testing or re-inspection required because of unsatisfactory or non-conformance to specified requirements shall be performed by same independent firm on instructions by the City and/or Owner's Agent. Payment for re-testing or re-inspection will be charged to Contractor by deducting testing charges from Contract Sum/Price.
   1. Re-testing and inspections of Work revised or replaced by Contractor shall be paid by Contractor where tests were performed on original Work.
   2. Contractor shall repair and replace at no cost to the City damage to Work made necessary by re-testing in accordance with the requirements of the Contract Documents.
   3. Contractor shall reimburse City for City's inspection or separate Quality Assurance inspection fees for travel and per diem expenses, when shops or plants of fabrication are located more than 50 miles from Project site.
   4. If City has reasonable doubt that materials comply with specified requirements, additional inspections or tests will be required as directed by City.
      a. If additional inspections or tests establish that materials comply with specified requirements, costs for such tests will be paid by City.
      b. If additional inspections or tests establish that materials do not comply with specified requirements, costs for such tests shall be paid by Contractor.

H. Testing Agency is **not** authorized to:
   1. Release, revoke, alter, or enlarge requirements of Contract Documents.
   2. Accept any portion of Work.
   3. Assume duties of Contractor.
   4. Stop Work, except as may be required to perform testing or inspection operations.

I. Contractor's Responsibilities:
   1. Prepare a Quality Control Plan (QCP) for all materials and equipment installed under the Contract. The QCP shall be submitted to the City for review and approval prior to the start of Contract Work.
   2. Furnish a Testing Agency to provide testing and personnel necessary to comply with the Contractor's Quality Control Plan.
   3. Provide access to the Work.
   4. Obtain and handle samples of materials and equipment.
   5. Furnish storage and assistance as requested.
   6. Facilitate inspections and tests.
   7. Notify the City to coordinate for City furnished special inspectors (if required) or Quality Assurance inspection (at the discretion of the City) in writing a minimum of 48 hours, excluding weekends and holidays, nor more than 72 hours prior to expected time for operations requiring testing or inspection services.
   8. Schedule Work to be tested or inspected to allow tests to be performed within reasonable time period.
   9. When a specified test or inspection is not performed due to Contractor's failure to notify the City as specified or when material or workmanship is not ready at the

time specified, the City will establish remedial Work and Contractor shall bear cost of remedy.

10. Take steps necessary to ensure no portion of the Work requiring testing or inspection is covered prior to written acceptance by authorized parties.
11. Ensure that no testing or inspection is scheduled until such times as they are assured that all approvals for the work have been received. This includes welder's certifications, submittals, design/build engineering stamp, and certification.
12. Contractor shall submit a Certificate of Compliance for all materials incorporated into the Work (as per Section 01 33 00 – Submittal Procedures, subsection 1.11).

J. Completed Work: Should the City require tests and inspections for completed work that has not been tested or inspected, furnish necessary facilities, labor, and material to uncover or remove Work in question to extent necessary. Contractor shall reconstruct the work after the test or inspection in accordance with the requirements of the Contract Documents.

1. The cost of reconstructing non-conforming work or defective materials shall be at Contractor's expense.

1.10 REQUIREMENTS OF TESTS

A. Review Specifications Sections for additional requirements for testing and inspection.

B. Tests referenced shall not be a limitation on City's rights for testing and inspection to verify conformance with Contract Documents.

C. The Contractor shall provide certified copies of the reports of all tests required in various sections of the Specifications or by Reference Standards. Test results on previously tested products or materials shall be accompanied by notarized certificates from the manufacturer certifying that previously tested products or materials are of the same type, quality, make, and manufacture as those proposed for use on this Contract.

D. Test reports shall clearly state if the item is in compliance or is not in compliance with the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify existing site conditions and substrate surface are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.

B. Verify existing substrate is capable of structural support or attachment of new Work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Verify utility services are available, of correct characteristics, and in correct locations.

END OF SECTION

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Provide and maintain construction facilities and temporary controls as required to perform the Work; relocate as required by the progress of the Work.
2. Unless otherwise required by the City, materials for construction facilities and temporary controls may be new or used, and shall be suitable for the purposes intended.
3. Materials, installation and maintenance of construction facilities and temporary controls shall be in compliance with applicable regulatory requirements.
4. Maintain construction facilities in sound, neat and clean condition. Remove any graffiti and repair any vandalism to the satisfaction of the City.
5. Remove construction facilities and controls, including associated utilities and equipment, when their use is no longer required.

B. Related Sections:
1. Section 01 71 33 - Protection of Adjacent Construction.
2. Section 01 77 00 - Closeout Procedures.

1.2 OPERATION HOURS FOR TEMPORARY CONTROLS

A. Provide and maintain temporary pumping, piping, power, lighting, controls, instrumentation, alarms, security devices, and all required safety devices at all times. Such items shall be made available for immediate use when Contractor's operations impact existing systems.

1.3 TEMPORARY ELECTRICITY

A. Provide and pay for electrical service and weatherproof, grounded distribution system of sufficient size, capacity, and power characteristics during the construction period. Existing on-site City electrical facilities are not available for contractor's use.

1.4 TEMPORARY LIGHTING

A. Provide and maintain lighting for construction operations, including power to distribution boxes. Required illumination may be provided by approved cord sets with lamp guards. Provide and maintain temporary lighting whenever new permanent lighting fixtures are switched over from existing lighting.

1.5 TELEPHONE SERVICE

A. The Contractor shall provide, maintain and pay for telephone service to Contractor's field office from the time of project mobilization.

1.6 TEMPORARY WATER SERVICE

A. Potable Water: Arrange with the San Francisco Water Department to provide potable water obtained by connecting to City water systems.
1. Contact the Water Department at 415-923-2400 for arranging such water service.

2. Water is available from fire hydrants located in the streets. Obtain permission from the San Francisco Fire Department to use hydrants.
3. Pay the costs of connection fees, meters, and all water furnished by the San Francisco Water Department under the water service account established above.

B. The Contractor is advised that Ordinance # 175-91, Article 21, Section 1100 to 1107 of the San Francisco Municipal Code (Public Works Code), restricts the use of potable water for soil compaction or dust control activities, to the extent not directly in conflict with any applicable federal, state and local law.
1. In consideration for potential health concerns, an exemption may be allowed for the use of potable water for soil compaction or dust control activities when human contact and exposure exists. Such exemption will be considered and may be granted on a case by case basis.
2. Should the Contractor seek to use potable water for soil compaction or dust control activities, the Contractor, shall apply for, and obtain an exemption pursuant to Ordinance #175-91, Article 21, prior to its use. The application for such use of potable water is to be sent to the Department of Public Health, Environmental Health Section, 1390 Market St., Room 910, San Francisco, CA 94102, Telephone 415-252-3945. Permission for such use may be granted by the General Manager of the Water Department, pursuant to Ordinance #175-91, Article 21.

C. Reclaimed Water: Arrange with the SEWPCP to provide reclaimed water for soil compaction and dust control which is available at no cost to Contractor at the SEWPCP from 8:00 A.M. to 5:00 P.M. on weekdays and Saturdays.
1. Arrangements can be made for access to reclaimed water at other times.
2. A permit is required to obtain reclaimed water from the City. Contact mfisher@sfwater.org and/or (415) 695-7378 at least three (3) days prior to the date that reclaimed water is required. See http://sfwater.org/modules/showdocument.aspx?documentid=7234 for more information.

D. The Contractor shall be required to provide his own water tanker and hoses. Contractor's hoses crossing traveled roadways shall be buried beneath the roadway or ramped over.

E. Provide and maintain distribution piping, water tankers, hoses, and all appurtenances necessary to supply water at the job site.
1. Bury pipe crossing traveled roadways beneath the roadway. Use hose or ramp over temporary piping on roadway surfaces.

1.7 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required toilet facilities and enclosures. Location of facilities shall be approved by the City Representative in the field.

B. The Contractor shall be responsible to provide and maintain all construction facilities, temporary controls, and temporary utilities as required to perform the work of this Contract. The Contractor shall arrange with the utility agencies to provide and pay for such utility services required, including furnishing, installing and removing on completion of all work all temporary connections to said utilities.

C. The Contractor shall provide and maintain temporary toilet facilities and enclosures as required at no cost to the City.

1.8 TEMPORARY CONSTRUCTION FENCE

A. The Contractor shall furnish and install a temporary 6'-0" chain link construction fence with lockable gates at the limit of work and at areas to isolate and protect the public from hazardous conditions during construction.

B. Provide fencing as needed to prevent unsafe entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

C. Protect vehicular traffic, stored materials, site and structures from damage.

1.9 TEMPORARY ENCLOSURES

A. Provide temporary enclosure for protection of construction in progress and completed, from exposure, foul weather, other construction operations and similar activities.
   1. Where heat is needed and the permanent building enclosure is not complete, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
   2. Install tarpaulins securely, with incombustible wood framing and other materials. Close openings of 25 square feet or less with plywood or similar materials.
   3. Close openings through floor or roof decks and horizontal surfaces with load-bearing wood-framed construction.

1.10 MAINTENANCE OF THE WORK AREA

A. Maintain the work areas in a safe condition, remove all accumulations of rubbish (Contractor's waste and public refuse) and surplus materials at the end of each working day, restore them to a condition equal to that which existed prior to the start of work, and leave them at completion of the contract in a clean, orderly fashion.

B. Demolished concrete, deteriorated masonry, cleared vegetation, and excavated material not indicated for reuse shall be removed from the site at the end of each working day without delay and disposed of in a legal manner.

C. Cleaning During Construction: Control accumulation of waste materials and rubbish; collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly.
   1. Clean interior spaces prior to the start of finish work; maintain areas free of dust and other contaminants during finishing operations.
   2. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material off-site in a lawful manner.
   3. Maintain the site and all adjacent public areas in a clean and orderly condition. Maintain the site, equipment, fences and signs free of graffiti. Remove all graffiti daily using methods which cause no damage to the work or existing facilities.
   4. Sweep all pedestrian walkways and dispose of debris around the site perimeter on a daily basis.

1.11 DRAINAGE CONTROL

A. Grade site to drain. Maintain excavations free of standing water.

B. Provide, operate, and maintain pumping equipment as needed to control water at the site.

C. Protect site from erosion caused by flowing water.

1.12 CONFINED SPACE ENTRY

A. It is the responsibility of the Contractor to provide all equipment or assistance to make the confined space safe for entry by the Engineer or his representative per The California Administration Code, Title 8, and General Industry Safety Orders Entitled "Confined Spaces".

1.13 TEMPORARY PROJECT SIGN(S)

A. Project sign image and layout shall conform to the graphical layout and color approved by the City. Refer to the draft project sign appended to this Section 01 50 00 for sample layout and image. The City will provide the final graphical image of the project sign in digital format to the Contractor prior to Notice to Proceed.

B. The Contractor shall install **12 project signs** at the limits of work facing traffic in accordance with Paragraph C below.

C. For paving and utility construction projects, project signs shall not obstruct or interfere with the operation of all traffic control devices. Project signs shall be placed as directed by the City Representative and shall follow these general guidelines:

1. At each location of the Work not exceeding 5 adjacent blocks, place one sign at either end of the block facing oncoming traffic, or facing away from the limit of work on one-way streets.

2. At each location of the Work exceeding 5 adjacent blocks, place one sign at either end of the limit of work facing oncoming traffic, and at intermediate locations not to exceed 5 block intervals with one sign placed on either side of the street facing oncoming traffic, or at opposite directions on one-way streets.

D. The Contractor shall obtain the City Representative's approval of the proposed locations, height, and mounting details for each project sign. The project signs may be mounted on construction fence, face of wall, or on posts.

E. ONESF, SB1 Funded Project Sign Fabrication:

1. Size: Project sign shall be 4-feet by 6-feet.
2. Digital File: Project sign shall match the final graphical layout provided by the City, including the colors and fonts. For more information, refer to the latest Sign Guidelines available from the following website: http://onesanfrancisco.org/ (Click on "Data + Resources > Signage and Style Guide")
   a. The design of the Contractor furnished project signs shall be in strict accordance with the 'ONESF' Guidelines established by the City.
   b. For further assistance, contact Heather Green of the Office of Resilence and Capital Planning at (415) 554-5162 or heather.green@sfgov.org.
3. Mounting Material: Project sign shall be mounted on Medium Density Overlay board (MDO), at least 3/4-inch thick.
4. Printing: Project sign shall be printed on a 4-color CMYK printer.
5. Coating: Use UV and Anti-Graffiti coatings.
6. Quality: Project sign shall last the entire construction duration.

F. Contractor shall submit a mock-up of the project sign in color, on bond paper, 11x17 size, to the City Representative for approval prior to fabrication.

1.14 TEMPORARY TOW AWAY/NO-PARKING SIGNAGE

A. On January 1, 2017, temporary occupancy permits and all other permits that include tow-away signage, aside from excavation permits activated through 311, will not be activated and permittees will not have tow away rights unless and until time and date stamped photos evidencing that signage was posted in the correct location a minimum of 72 hours prior to the time at which the parking restrictions are to become effective under the permit have been uploaded to the San Francisco Public Works, Bureau of Street Use and Mapping (SFPW/BSM) Tow-Away Sign Database. See Appendix B – Tow-Away Sign Activation and Photo Upload Process.

B. The Contractor is advised that Sign Ordinance PWC Article 15, Section 724 which will require the applicant (Contractor) to input the amount of right of way they will occupy during construction activities for a specific permit, to be issued by SFPW/BSM for all work in the Public Right-of-Way. The Contractor shall enter times of operation during construction with the proposed start and end times and specific calendar days. This information will be printed on the tow-away signs. Refer to Tow Away Manual at http://www.sfpublicworks.org/sites/default/files/4506-Tow-Away%20User%20Guide.pdf.

1. The location of the Construction Zone will be entered as part of the excavation permit, which will include the length of occupancy (distance in linear feet). This information and date. Once a permit has been approved, the applicant is informed off the approval via email and will be provided a hyperlink to create/modify the tow/away signs prior to printing.

2. The information required at time of permit will update the database and will validate that the total linear footage of construction occupancy does not exceed 1,200 linear feet. Upon completion of any adjustment to the tow-away signs, the applicant can determine which street segment to print out and may choose to either print one of two general tow-away sign template or request the Department of Public Works to print the tow-away signs. The Contractor shall pay for the printing of each sign.

3. Size: Tow-Away/No-Parking Signs shall be 11' wide x 17' tall.

4. Digital File: Project sign shall match the final graphical layout provided by the City, including the colors and fonts. The design of the Contractor furnished project signs shall be in strict accordance with the DPW Order for Towaway Signs located at: http://sfpublicworks.org/sites/default/files/4508-TowAway-2015-Template.pdf.

    a. Contract shall use only paper types which shall be waterproof durable; tear resistant' with laser paper labels type and templates: 11 x 17 10 PT CV, 215 grams/m^2

5. Printing: Project sign can be printed on a Xerox Phaser 7800, or equivalent that can print 11x17 120-130 lb paper. All Tow-Away/No-Parking Signs shall be secured and paid for by the Contractor.

6. The Contractor shall maintain Tow-Away/No-Parking Sign (s) in good condition as needed throughout the duration of the Contract.

7. After substantial completion, Contractor shall remove each Tow-Away/No-Parking Sign from the site as its property.

8. Damaged Tow-Away/No-Parking Sign that cannot be repaired on site shall be replaced at no additional cost to the City.

1.15 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary above grade or buried utilities, construction equipment, temporary structures and facilities, unused materials, rubbish and debris prior to Final Inspection. Restore facilities to conditions prior to construction, to the satisfaction of the City.

B. Clean and repair damage caused by installation or use of temporary work.

C. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

D. Remove field offices and temporary utility services from the Site.

1.16 STORAGE AND STOCKPILING

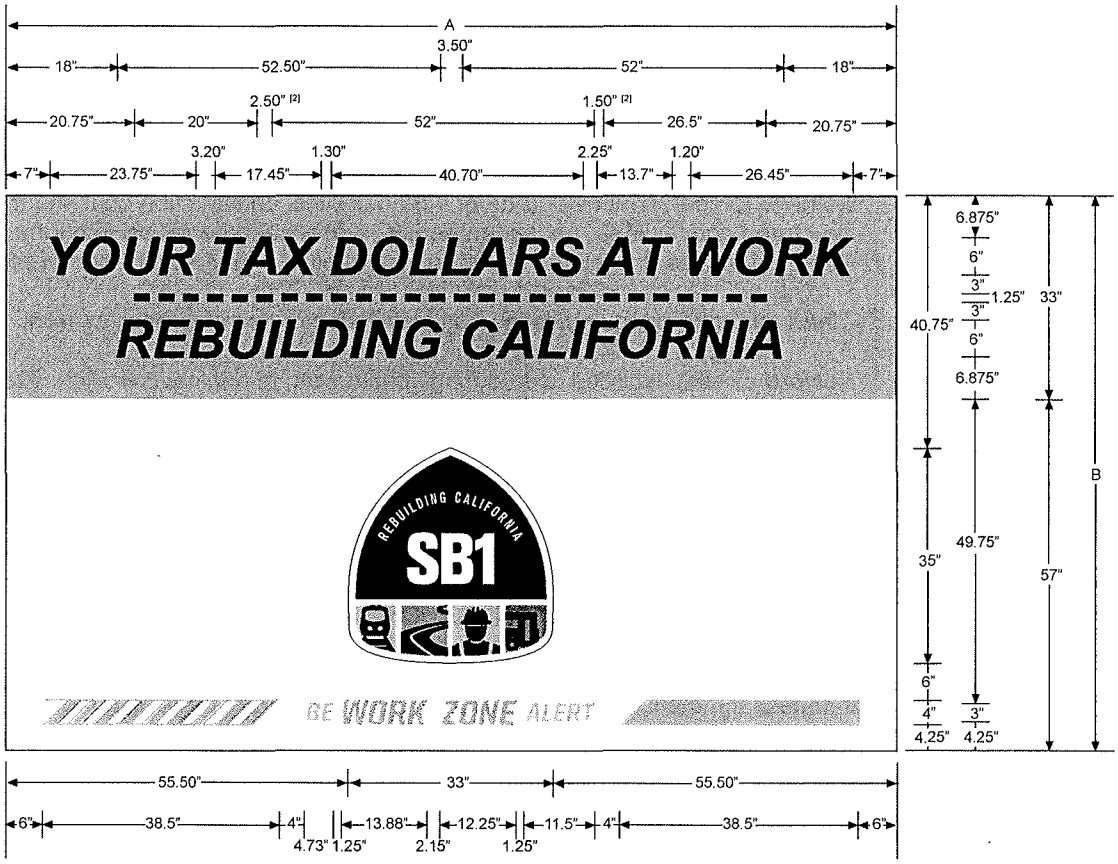
A. The Contractor shall make its own arrangements for off-site storage or shop areas and off-site construction parking facilities. On-site storage shall be limited to materials and equipment currently being installed or utilized.

B. If necessary, the Contractor shall arrange for temporary off-site storage of equipment and materials at his discretion. No additional compensation shall be provided from the City.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION



NOTES:

1. Provided dimensions are for the 144"x90" sign. For the 96"x60" sign, calcuate each dimension by 2/3 (0.667). For the 48"x30" sign, calculate each dimension by 1/3 (0.333).
2. Use when the project involves Senate Bill 1 funds.

C48 (CA)

ENGLISH UNITS

A	B
144	90
96	60
48	30

COLORS: LEGEND - BLACK (ARIAL BOLD ITALIC)
BACKGROUND - WHITE AND FLUORESCENT ORANGE
SENATE BILL 1 LOGO - CMYK COORDINATES FOR SB1 LOGO ARE AS FOLLOWS:
BROWN (C 80%, M 80%, Y 80%, K 20%), LIGHT CREAM (C 0%, M 2%, Y 7%, K 0%),
BLUE (C 75%, M 23%, Y 1%, K 0%), GREEN (C 90%, M 20%, Y 80%, 0%),
YELLOW GOLD (C 0%, M 38%, Y 85%, K 4%), RED (C 16%, M 84%, Y 65%, K 3%)
BE WORK ZONE ALERT RIBBON: PANTONE #299 BLUE AND ORANGE
(SEE VECTOR GRAPHICS FILES FOR SB1 LOGO AND BE WORK ZONE ALERT RIBBON)
ALL COLORS TO BE RETROREFLECTIVE, EXCEPT FOR BLACK

ONESF_4X6_Generic_Project_Sign_DPW.ai 1 7/17/2018 2:41:06 PM

ONESF
Building Our Future

onesanfrancisco.org

[PROJECT TITLE]

[Contract No.]

BEGINS: [MONTH / YEAR]

COMPLETION: [MONTH /YEAR]

Funded by [Name of Program]

MORE INFORMATION:
Please visit us at
www.sfpublicworks.org

CONTACT:
San Francisco Public Works
415-XXX-XXXX
email address

AFTER HOURS:
[Contractor's Name]
XXX-XXX-XXXX

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Tow-Away Sign Activation and Photo Upload Process



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Public Works Tow-Away Sign Activation and Photo Upload Process

EFFECTIVE DATE: January 1, 2017

PERMITS AFFECTED:

The tow-away sign activation and photo upload process change is applicable to all temporary occupancy permits and all other permits that include tow-away signage.

Excavation permits activated through 311 will not be impacted.

ACTIVATION AND PHOTO UPLOAD PROCESS:

Request a street space permit from Public Works.

Once permit is approved a link for tow-away signs will be provided via email along with a link to the Bureau of Street-Use and Mapping tow-away sign database.

Print signs and post them at the permitted location every 20 feet no less than 72 hours in advance of the time the parking restrictions are to become effective.

Click on the link provided in the confirmation email and take photos showing the placement of the signs.

Click submit and the photos will be submitted to Bureau of Street-Use and Mapping for review.

A confirmation email will be sent stating the photos were accepted, the permit is active, and tow-away rights are reserved.

NOTE: If photos are inadequate, you will receive a rejection email identifying the deficiencies to be corrected.

Street Space Application and Tow-Away Sign Activation and Photo Upload Process

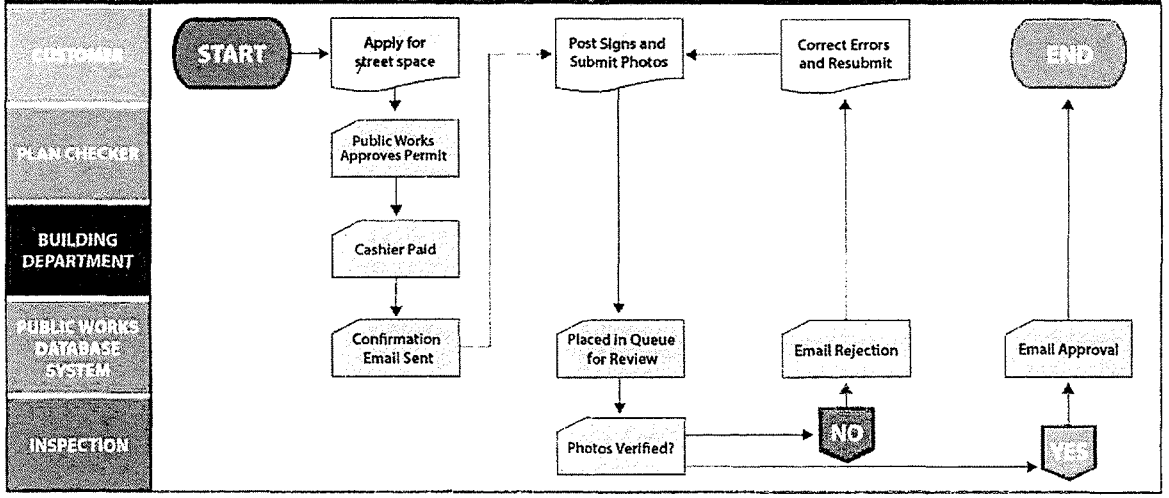


PHOTO REQUIREMENT 1:

A scene-setting photo clearly showing the signs are posted in the permitted location every 20 feet.



PHOTO REQUIREMENT 2:

A close-up photo of a tow-away sign that enables essential information on the sign to be confirmed.



SECTION 01 55 26

TRAFFIC CONTROL

PART I - GENERAL

1.1 SUMMARY

A. This Section sets forth the minimum requirements for traffic routing and traffic control during construction.

B. Related Sections:

1. Section 01 41 00 – Regulatory Requirements

2. Section 01 50 00 – Temporary Facilities and Controls

C. All traffic signs, barricades, delineators, flashing arrow signs, and other traffic control devices shall conform to the requirements of the latest edition of California Department of Transportation's Manual on Uniform Traffic Control Devices (MUTCD) and the requirements of the Caltrans Standard Specifications (CTSS), except as specified herein.

1.2 SCOPE OF WORK

A. The Contractor shall prepare Traffic Control Plans, and install, operate, maintain and remove traffic control in conformance with the requirements in this section. The required traffic control work shall be in place prior to the start of the construction work of the Contractor and/or any of the subcontractors. The Traffic Control Plans shall clearly depict the exact sequence of the construction operation(s), the construction to be performed and the traveled way that will be utilized by all movement of traffic and pedestrians during each phase of construction. Multiple phases of construction will require a separate traffic control plan for each different construction phase or operation for working and non-working hours. No typical Traffic Control Plans will be permitted except as approved by the Traffic Engineer.

B. The Contractor (having Contractor's Class A license issued by the State of California Contractors State License Board) may perform the traffic routing work utilizing its own forces, or may engage a subcontractor to perform the traffic routing work. The Contractor or subcontractor performing the traffic control work shall possess a current C-31 Construction Zone Traffic Control license issued by the California Contractor State License Board.

The Contractor shall provide sufficient traffic crews as required by the City Representative to implement and maintain the traffic control work. The Contractor or Subcontractor shall provide flag persons as required by the City Representative and/or as shown on the approved Traffic Control Plans to control the vehicular traffic and to guide the pedestrians through the Construction area. Flaggers shall not perform non-traffic related duties. There shall be at least two (2) or more flaggers as required by the Traffic Engineer. The Traffic Crew shall be comprised of at least two (2) dedicated persons.

1. Traffic Crew

a. Assist in re-striping and setting up all traffic signs and other traffic control devices in accordance with the approved Traffic Control Plans and

Traffic Detour Plans. The required traffic control work shall be in place prior to the start of the construction work of the General Contractor and/or any of the subcontractors.

b. Be on site especially during nights, weekends, and holidays, if and as required by the City Representative in setting up and/or correcting the traffic control devices, during the Contractor's actual working hours or as directed by the City Representative.

C. The Contractor shall so conduct the operations as to cause the least possible obstruction and inconvenience to the public and area residents, and shall have under construction no greater length or amount of work, than set forth in the specifications, and that the Contractor can prosecute properly with due regard to the rights of the public and area residents. The Contractor shall ensure all streets and intersections remain open to traffic and maintain access to public and private properties to the greatest extent possible by constructing the work in stages.

D. The Contractor shall provide for the protection of the traveling public, pedestrians, and workers within the area covered by the limits of construction, at all times when the area is affected by the Contractor's construction facilities or activities.

E. The Contractor shall furnish, install, relocate to provide for lane shifting, remove, store, maintain (including covering and uncovering as required), move to new locations, replace when damaged or missing and dispose of all traffic signs and traffic control devices and features necessary for the safety and convenience of the general public and area residents. All workers and work shall be safeguarded, where and as required by conditions at the site of the work, and in addition to the requirements specified herein, including but not limited to the following:

1. Traffic signs and parking prohibition signs
2. Barricades with flashers
3. Delineators
4. High level warning devices
5. Solar powered flashing arrow signs
6. Pedestrian barricades
7. Removal of conflicting existing striping and pavement markings in traffic lanes and in parking areas and re-installation of the original striping and pavement markings after construction is completed
8. Temporary striping and reflective markers, overlay markers, for both construction and interim re-alignments of traffic lanes, cross-walks prior to final striping
9. Excavation plating/bridging, including any temporary plating and bridging required by the Contractor's operations
10. Temporary paving

11. Providing flag persons

12. Changeable Message Signs (CMS)

F. The Contractor shall provide traffic lanes and routing of vehicles, bicycles, and pedestrian traffic, as specified herein, in a manner that will be safe and will minimize traffic congestion and delays.

G. Temporary Pavement Markings

1. Temporary traffic delineation and pavement markings (lane lines, STOP Bars, etc.) shall be furnished, installed, maintained, and removed by the Contractor. The Contractor shall furnish and install temporary pavement markings according to striping drawing(s) prior to opening the roadway to public traffic and/or instructed by the City Representative through the Traffic Engineer. The location of the temporary pavement lane lines shall be within 3 inches of the lines shown on the existing striping drawings.

2. Whenever the work causes obliteration of pavement markings (i.e., after removing the existing markings, grinding, paving, etc.), temporary pavement markings delineation shall be in place prior to opening the roadway to public traffic.

3. All work necessary, including any required lines or marks, to establish the alignment of temporary pavement markings shall be performed by the Contractor. When temporary pavement markings are required to be removed, all lines and marks used to establish the alignment of the temporary pavement markings shall be removed.

4. Surfaces to receive temporary pavement markings shall be dry and free of dirt and loose material. Temporary pavement markings shall not be applied over existing pavement markings or other temporary markings.

5. Temporary pavement markings shall be maintained at no additional cost during the duration of the project until superseded or replaced with permanent pavement markings. Temporary pavement markings shall be removed when, as determined by the Traffic Engineer through the City Representative, the temporary pavement markings conflict with the permanent pavement markings or with a new traffic pattern for the area and is no longer required for the direction of public traffic.

1.3 APPLICABLE CODES AND STANDARDS

A. In addition to compliance with this specification, the Contractor shall comply with all applicable requirements of the latest editions of the following:

1. California Vehicle Code

2. California Manual on Uniform Traffic Control Devices (MUTCD)

3. Caltrans Standard Specifications (CTSS) and Plans, Department of Transportation, State of California

4. City & County of San Francisco Municipal Transportation Code

5. Regulations for Working in San Francisco Streets ("Blue Book"), San Francisco Municipal Transportation Agency (SFMTA), City and County of San Francisco

   Free copies of the "Blue Book" can be obtained from the SFMTA at 1 South Van Ness Avenue, 7th Floor, San Francisco, California 94103 or online at:

   http://www.sfmta.com/services/streets-sidewalks/construction-regulations

6. Regulations for Excavating and Restoring Streets in San Francisco, Department of Public Works, City and County of San Francisco

7. Standard Specifications and Plans, Department of Public Works (DPW), City and County of San Francisco

8. Other Applicable Government Regulations

1.4 SUBMITTALS

A. The Contractor shall prepare and submit the following to the Traffic Engineer through the City Representative for review and approval before any major work is allowed in the streets:

1. Traffic Control Plans
2. Parking and Storage Plans
3. Material Specifications
4. Certification of all Flag Persons.
5. Sign Inventory Form(s)

B. Traffic Control Plans

1. Complete Traffic Control and Detour Plans shall be submitted to the Traffic Engineer through the City Representative for approval thirty (30) calendar days before embarking on any scope of work. No work shall be allowed on the streets without the approved Traffic Control Plans. The Contractor shall allow in the schedule twenty-one (21) calendar days for the City to review and respond to the Traffic Control Plans. The Traffic Control Plans shall be prepared, signed and stamped by a Civil Engineer or a Traffic Engineer (Registered in the State of California) with the assistance and input of the Contractor's Superintendent.

2. A submittal shall consist of six (6) copies on white paper or blue prints of each drawing. The Contractor shall use the existing striping plan(s), T-1, T-2,..., as a base to prepare the Traffic Control Plans. If existing striping plan is not available, the Contractor shall use the Street Reconstruction or paving plans as base plans to prepare the Traffic Control Plans. Drawing size shall be 36" X 24". The Traffic Control Plans shall be drawn to a scale of 1 inch = 50 feet (1:600).

3. A separate set of Traffic Control Plans shall be required for both working and non-working hours. The licensed Engineer who prepared the Traffic Control Plans shall have personal knowledge of the traffic conditions in the work areas, understands the impacts the work will have on vehicular, pedestrian, and other modes of transportation, and shall ensure Traffic Control Plans comply fully with all Americans with Disabilities Act (ADA) requirements and all City requirements related to providing path of travel through construction zones.

4. If the alignment of the main changes after pot holing and the Contractor cannot follow the approved Traffic Control Plans, the Contractor shall submit four (4) copies of the proposed new alignment and Traffic Plan to the Traffic Engineer through the City Representative for review and approval. The Contractor shall prepare the Traffic Control Plans for grinding and paving, based on the Excavation Permit issued by the Bureau of Streets and Mapping (BSM) of the Department of Public Works (DPW) for each street.

5. The Contractor shall submit Traffic Control Plans for the following work as applicable:

   a. Sewer Main Work
   b. Sewer Lateral Work
   c. Curb & Gutter,Curb Ramps and Sidewalk Work
   d. Concrete Base Repair Work
   e. Grinding
   f. Paving

6. Each Traffic Control Plan shall show the following minimum applicable information, as required by the Traffic Engineer through the City Representative:

   a. Roadway and traffic lane layout (width of sidewalk, street and lanes, etc.); outline and dimensions of the work under construction (i.e., limits of excavation), location of construction barricades, location of trench protection devices, location of major construction equipment, and the ingress and egress routes of trucks hauling materials to and from the construction site.

   b. Sequence of construction and traffic lane transitions.

   c. Taper lengths shall be called out and dimensioned.

   d. Crosswalk and sidewalk closures.

   e. Existing striping, pavement markings and traffic signs, and description of what is to be removed prior to installation of temporary striping and signage, and what will be restored after the construction is completed.

   f. Location and spacing of "Tow-Away, No Stopping" signs.

   g. Location and description of temporary striping, pavement markings, signs, and other traffic control devices necessary to provide and maintain the adequate number and width of traffic lanes specified herein, and to provide and maintain passage and protection for pedestrians.

   h. Location and description of traffic control devices proposed for the protection of the work area, excavation, etc.

   i. Other proposed changes and provisions for removal, relocation, or temporary installation of:

      i. Traffic signs

      ii. Transit stops

iii. Barricades

iv. Solar operated flashing arrow signs

v. Traffic signals

j. Safe path of travel for passengers using public transit, from/to loading platform to/from the sidewalk.

k. Location of detour signs for vehicular, truck, bicycle and pedestrian traffic.

l. Truck routes.

C. Parking and Storage Plans

1. The Contractor shall submit plans for materials storage and equipment parking, for each area of the work along with the respective Traffic Control Plans. The City has the option to reject the storage and equipment parking plans. Storage, stockpiling or placement of any equipment, materials or supplies within the area of any public street or alley, including the sidewalks thereof, will be allowed only with approved storage and parking plans approved by the Traffic Engineer through the City Representative.

2. No construction equipment and material storage, including but not limited to pipes, pipe-fittings, steel bars, shoring, backfill, asphalt mix etc. shall be allowed on any sidewalk, street or property, except as shown on the approved Traffic Control Plans for various phases of construction. A maximum storage area of 100 feet in length may be allowed per block.

3. Office/storage trailers shall be at least 100 feet from any intersection. It shall not block traffic control devices (STOP signs, signals, etc.), hydrants, bus stops, or driveways.

4. Storage, stockpiling, or placement shall not in any way obstruct any lane or passageway intended for vehicular or pedestrian traffic.

5. If parking meters are to be occupied for equipment/material storage in the vicinity of the active construction area, the Contractor shall apply for a Special Traffic Permit and pay for all applicable fees. See Article 3.5 Special Traffic Permit for more information.

6. If the Traffic Engineer through the City Representative determines that such storage, stockpiling, or placement causes a violation of the foregoing, of any law or order of any regulatory body having jurisdiction, and/or public complaint, the Contractor shall cease or modify the storage, stockpiling, or placement as necessary to comply with the specifications, laws, and orders. Any work performed to remove, relocate or modify the storage, stockpiling or placement of any equipment, materials or supplies shall be done at the Contractor's expense.

7. The Contractor shall provide its own yard for the storage of pipes, pipe fittings, steel bars, shoring, etc. The proposed areas for storage of materials or equipment shall be noted in the Traffic Control Plans.

8. The Contractor shall be responsible for ensuring that only Contractor's vehicles clearly identified with the name on each side of each vehicle, may be parked in the construction area.

9. Employees of the Contractor, subcontractors, and suppliers shall not park their vehicles within the active construction area when and where they are currently working and where public access is prohibited. The Contractor shall provide parking for its employees at a site which will not impact local public parking and transport employees between the parking area and the work.

10. The Contractor is not allowed to store construction equipment or materials on the sidewalk and roadway of the following streets:

    a. Sunset Blvd
    b. Pachecho St between 36th & 37th Aves
    c. Wawona St
    d. Taraval St
    e. 19th Ave

D. Material Specifications

1. The Contractor shall submit the manufacturer's specification and data for the specific traffic control devices and materials, e.g., solar operated flashing arrow boards, temporary traffic detour tape, traffic water-filled barriers or approved equal, etc.

E. Certification of Flag Persons

1. The flag persons shall have a minimum of one year experience utilizing manual Traffic Controls on similar construction projects. The flag persons shall have passed "The Flagger Training Course" offered by the American Traffic Safety Services Association (herein after called ATSSA) or other institutions acceptable by the Traffic Engineer through the City Representative. Refer to web page www.atssa.com for training classes for Flaggers. The Contractor shall submit certificates of all Flag persons for review and approval of the Traffic Engineer. The certificates of the Flag persons shall show the expiration date which shall be valid up to the end of the contract.

F. Sign Inventory Form(s)

1. Sign Inventory Form(s) is/are to be submitted to the Traffic Engineer through the City Representative as part of the Traffic Control Plan prior to the start of any contract field work. This form is included at the end of this Section. Sign Inventory Forms are required for each intersection corner or other location that includes any sign relocation, sign removal, curb ramp work, pole or traffic signal work. Sign Inventory Forms shall accurately reflect all existing traffic control, street name, and other City signs at the required location(s).

1.5 QUALIFICATIONS

A. The Contractor performing traffic control shall have a minimum of 5 years experience in traffic control. The Contractor performing the traffic control work shall possess a current Class A and C-31 Construction Zone Traffic Control license issued by the California Contractor State License Board.

B. Each crewmember shall have a minimum of one year experience in Traffic Control on similar scale projects, and shall have passed a Flagger Training Course given by ATSSA or another institution acceptable to the Traffic Engineer.

C. If the Contractor's subcontract with the C-31 licensed Subcontractor does not meet the requirement for listing at the time of bid (see Section 00 43 36 – Proposed Subcontractors Form), then Contractor shall identify such Subcontractor using the Experience Statement form (Section 00 49 12) and submit that form after bid opening in conformance with the bidding instructions. Please refer to Section 00 21 13 – Instructions to Bidders for requirements in meeting the qualifications specified herein.

PART 2 – PRODUCTS

2.1 GENERAL

A. All traffic signs, barricades, delineators, flashing arrow signs, and other traffic control devices shall conform to the requirements of the latest edition of the California MUTCD. The California MUTCD is available online at:

http://www.dot.ca.gov/hq/traffops/engineering/mutcd/

B. All special construction traffic signs shall be reflectorized with black messages/symbols having 6" and/or 8" high series D letters on orange colored aluminum plate. The message and size of the letters shall be determined by the City Representative through the Traffic Engineer. Any changes on any signs shall be made with appropriate decals.

C. All barricades shall have flashers. For night time work when lanes are closed, the flashers shall be maintained in good operating condition at all times by the Contractor.

D. Any equipment that does not operate properly or any device that is not in good operating condition shall be removed from the job site immediately at the Contractor's expense.

E. The Contractor shall use Caltrans, CAMUTCD, or FHWA approved traffic control devices to separate traffic lanes and construction areas.

F. The Contractor shall provide ADA compliant safe paths of travel for pedestrians.

G. When circumstances require use of a barrier system refer to Section 2.6 – BARRIERS.

2.2 DELINEATORS

A. Delineators for lane taper areas for the separation of traffic from other work shall be either reflectorized traffic cones minimum 28 inches high or reflectorized portable tubular delineators minimum 36 inches high, with orange posts and yellow/white reflectors. Reflector units shall be 3"x 12" minimum.

2.3 NON-SKID METAL PLATING

A. Metal plating and any metal bridging shall be with non-skid and rust-inhibitive product and shall be Intergard 750HS (formerly 7300 Magna-Prime) Epoxy or equal, manufactured by Courtaulds Coatings (Division of International), 400 South 13th Street, Louisville, KY 40201-1439; Tel: (800) 332-6270; Fax: (800) 283-0508. This material shall be applied as directed by the manufacturer. Plating shall be installed and maintained in such a manner as to provide a non-skid surface with no edges or corners sticking up and with no bouncing or shifting. All non-skid plates shall have a friction factor of 0.35 or greater as measured by the California Department of Transportation Test 342.

2.4 CHANGEABLE MESSAGE SIGNS

A. NOT USED

2.5 BARRICADES

A. The Contractor shall furnish, install and maintain barricades to separate pedestrian areas and traffic areas as shown on the approved Traffic Control Plans.

B. Devices meeting CAMUTCD, Caltrans, and FHWA requirements for barricades and designed specifically to be used as barricades may be used as barricades. Barrier systems shall not be used as barricades in the San Francisco public right-of-way. Barricades used in the public right-of-way shall be deployed in conjunction with traffic control devices as established by CAMUTCD.

C. Under no circumstances may barrier devices be used in the public right of way as barricades.

2.6 BARRIERS

A. All plastic barrier systems including, but not limited to Triton barrier systems, that are deployed as barriers shall be filled, connected/inter-locked and arrayed in unit quantities that comply with manufacturer's standards for use of these devices as barrier systems. Only devices meeting CAMUTCD, Caltrans, and FHWA requirements for use as barrier systems may be used as barrier systems. Minimum requirements for plastic barrier systems are:

a. Filling units with water or sand in accordance with manufacturer's requirements.

b. Physical connection systems and correct alignment in accordance with manufacturer requirements.

c. Meet or exceed manufacturer's established number of devices for posted speed limit where deployed.

d. Installation of end treatments (array) as required by manufacturer.

B. The installation layout of water filled barriers (or approved equal) shall be in accordance with the manufacturer's specifications. The water filled barriers (or approved equal) shall be filled with water or sand in accordance with the manufacturer's specifications. The water filled barriers (or approved equal) shall be inter-locked per manufacturers specifications.

C. The Contractor shall not substitute K-rails for water filled barriers (or approved equal). The use of water filled barriers (or approved equal) used in conjunction with K-rails is not permitted under any circumstance.

D. If K-rails are required for the work by Caltrans or the project the Contractor shall furnish, install, and maintain the Caltrans Standard K-rails used in the project, and shall follow CAMUTCD, Caltrans, FHWA, and manufacturer's requirements for their installation and use.

2.7 TAPE AND MARKERS FOR TEMPORARY STRIPING

A. Temporary Retroreflective Painted Pavement Striping and Markings

The Contractor shall use painted traffic striping and pavement markings on concrete base as instructed by the City Representative through the Traffic Engineer. Painted traffic striping and pavement markings shall be installed immediately after grinding and before fully opening the required lanes to traffic at the end of the work day. The materials and application shall comply with Section 84-3 of Caltrans Standard Specifications. The Traffic Engineer, through the City Representative, may request samples of materials.

B. Temporary Removable Pavement Tape

The Contractor shall use pavement tape after paving as instructed by the City Representative through the Traffic Engineer. The Contractor shall use any one of the following removable foil-backed tapes or approved equal:

1. Swarco Visa-Line
2. Brite-Line Series 100
3. ATM Series 200

C. Temporary Reflective Overlay Pavement Markers

The Contractor shall use overlay pavement markers on finished concrete streets and micro-surfaced streets as instructed by the City Representative through the Traffic Engineer. The Contractor shall use any one of the following or approved equal:

1. Davidson Plastic Model TOM (Standard) with Reflexite PC-1000 or WZ with Reflexite AC-1,000 sheeting
2. Stimsonite Model 300 "Temporary Overlay Markers"
3. Hi-way Safety Inc. Model 1280 / 1281 with Reflexite PC 1,000

2.8 TRAFFIC SIGNAL LOOPS

A. NOT USED

2.9 CONDUCTORS

A. NOT USED

PART 3 - EXECUTION

3.1 VEHICULAR AND PEDESTRIAN TRAFFIC

A. Traffic Lane and Parking Requirements

1. In addition to the lanes specified lanes for through traffic, the Contractor shall provide an additional left/right turn lane of 11 foot width at the intersection, if there is already an existing separate right/left turn lane.

2. The Contractor shall maintain the required travelway for vehicles in any public street or way and a minimum width of 4 feet of clear sidewalk for pedestrians at all times.

3. The Contractor may be allowed to store materials and/or equipment for a limited time in the parking strip and/or portion of the sidewalk with written permission of the City Representative and SFMTA for use of the public right of way. The Contractor shall maintain adequate signing, barricades, lights, etc. at all times. Permission to store the materials shall be limited to unused materials during working hours or materials needed to resume the next seven (7) days of work. Refer to 1.4C Parking and Storage Plans for more requirements.

4. No work shall interfere with the access of emergency vehicles including those of Police and Fire Departments and ambulances. Local access shall be maintained at all times, by providing a 12 foot wide lane on all roadways.

5. All existing traffic movements at the intersections shall be maintained by bridging and/or phasing.

6. Full Roadway is defined as the street from property line to property line, including sidewalks, parking strip and travel lanes. Exceptions are as noted below:

   a. Curb Ramps – Contractor may barricade off this area per approved traffic control plan for up to 4 days to allow for necessary demolition, pouring, and curing time and to provide safe pedestrian paths of travel. Refer to the traffic lane requirements table for further details;
   b. Concrete Sidewalk – Contractor may barricade off this area per approved traffic control plan for up to 7 days to allow for necessary demolition, pouring, and curing time for concrete sidewalk.

7. The Contractor shall provide the following tabulated lanes to satisfactorily accommodate vehicular and bicycle traffic. Vehicular/pedestrian access to properties along the project site shall be maintained at all times.

8. Tow-Away signs can have the posted hours shown as 0.5 (half) hour prior to the start of work with the exception that it shall not be earlier than 8:00 a.m.

Traffic Lane Requirements
Number and Width of Lanes for Through Traffic

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
		SEWER WORK			
ORTEGA STREET					
19th Ave to 20th Ave ©	8AM-5PM (M-F)	-	-	1@12'	Closed ©
	At Other Times	-	-	Full Roadway	Full Roadway
20th Ave to 24th Ave β	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
27th Ave to 28th Ave β	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Ortega Street					
19th Ave	At All Times	Full Roadway	Full Roadway	-	-
20th Ave β	8AM-5PM (M-F)	1@14' ↕		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
21st Ave ↕	8AM-5PM (M-F)	1@14' ↕		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
22nd Ave	At All Times	Full Roadway	Full Roadway	-	-
23rd Ave ↕	8AM-5PM (M-F)	1@14' ↕		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
24th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
27th Ave	At All Times	Full Roadway	Full Roadway	-	-
28th Ave	At All Times	Full Roadway	Full Roadway	-	-
ULLOA STREET					
22th Ave to 29nd Ave	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Ulloa Street					
22nd Ave	At All Times	Full Roadway	Full Roadway	-	-
23rd Ave ↕	8AM-5PM (M-F)	1@14' ↕		-	-
	At Other Times	Full Roadway	Full Roadway	-	-

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
24th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
↕	At Other Times	Full Roadway	Full Roadway	-	-
25th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
↕	At Other Times	Full Roadway	Full Roadway	-	-
26th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
↕	At Other Times	Full Roadway	Full Roadway	-	-
27th Ave	At All Times	Full Roadway	Full Roadway	-	-
28th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
↕	At Other Times	Full Roadway	Full Roadway	-	-
29th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
↕	At Other Times	Full Roadway	Full Roadway	-	-
18th AVENUE					
Pacheco St to	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
Rivera St, ⬆/⬇	At Other Times	Full Roadway	Full Roadway	-	-
Cross Streets for 18th Avenue					
Pacheco St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
Quintara St	At All Times	-	-	Full Roadway	Full Roadway
Rivera St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
16th AVENUE					
Taraval to Ulloa	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
St	At Other Times	Full Roadway	Full Roadway	-	-
⬆/⬇					
Vicente St to	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
Wawona St	At Other Times	Full Roadway	Full Roadway	-	-
⬆/⬇					
Cross Streets for 16th Avenue					
Taraval	At All Times	-	-	Full Roadway	Full Roadway
*(MM-L)					
Ulloa St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
Vicente St	At All Times	-	-	Full Roadway	Full Roadway
Wawona St	8AM-5PM (M-F)	-	-	1@14' ↕	
↕	At Other Times	-	-	Full Roadway	Full Roadway
CONCRETE CURB, GUTTER, SIDEWALK, AND CURB RAMP WORK					
18TH AVENUE AND RIVERA STREET INTERSECTION					
18th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Rivera St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
18TH AVENUE AND QUINTARA STREET INTERSECTION					
18th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Quintara St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
18TH AVENUE AND WAWONA STREET INTERSECTION					
18th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Wawona St	8AM-5PM (M-F)	-	-	1@10'	1@10'
	At Other Times	-	-	Full Roadway	Full Roadway
16TH AVENUE AND ULLOA STREET INTERSECTION					
16th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
21ST AVENUE AND ULLOA STREET INTERSECTION					
21st Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
22ND AVENUE AND ULLOA STREET INTERSECTION					
22nd Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
23RD AVENUE AND ULLOA STREET INTERSECTION					
23rd Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
24TH AVENUE AND ULLOA STREET INTERSECTION					
24th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
25TH AVENUE AND ULLOA STREET INTERSECTION					
25th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
26TH AVENUE AND ULLOA STREET INTERSECTION					
26th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
27TH AVENUE AND ULLOA STREET INTERSECTION					
27th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
29TH AVENUE AND ULLOA STREET INTERSECTION					
29th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ulloa St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
21ST AVENUE AND ORTEGA STREET INTERSECTION					
21st Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ortega St	8AM-5PM (M-F)	-	-	1@12'	1@12'
β	At Other Times	-	-	Full Roadway	Full Roadway
24th AVENUE AND ORTEGA STREET INTERSECTION					
24th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ortega St	8AM-5PM (M-F)	-	-	1@12'	1@12'
β	At Other Times	-	-	Full Roadway	Full Roadway
26TH AVENUE AND ORTEGA STREET INTERSECTION					
26th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Ortega St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
42ND AVENUE AND PACHECO STREET INTERSECTION					
42nd Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Pacheco St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
43RD AVENUE AND PACHECO STREET INTERSECTION					
43rd Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Pacheco St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
44TH AVENUE AND PACHECO STREET INTERSECTION					
44th Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Pacheco St	8AM-5PM (M-F)	-	-	1@12'	1@12'
	At Other Times	-	-	Full Roadway	Full Roadway
BASE REPAIR, GRINDING AND PAVING WORK					
ORTEGA STREET					
19th Ave to 20th	8AM-5PM (M-F)	-	-	1@12' ⬅/➡	

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
Ave ←/→, β	At Other Times	-	-	Full Roadway	Full Roadway
20th Ave to 29th Ave	8AM-5PM (M-F)	-	-	1@11'	1@11'
β	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Ortega Street					
19th Ave *(MC- 28,91)	At All Times	Full Roadway	Full Roadway	-	-
20th Ave, β	8AM-5PM (M-F)	1@10'	1@10'	-	-
21st Ave	At Other Times	Full Roadway	Full Roadway	-	-
22nd Ave					
23rd Ave					
24th Ave					
25th Ave					
26th Ave					
27th Ave					
28th Ave	At All Times	Full Roadway	Full Roadway	-	-
29th Ave					
PACHECO STREET					
36th Ave to 37th Ave	8AM-5PM (M-F)	-	-	1@11'	1@11'
©	At Other Times	-	-	Full Roadway	Full Roadway
41st Ave to 44th Ave	8AM-5PM (M-F)	-	-	1@11'	1@11'
©	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Pacheco Street					
41st Ave	At All Times	Full Roadway	Full Roadway	-	-
42nd Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-
43rd Ave	During Base Repair	-	-	Closed ©	Closed ©
44th Ave	At Other Times	Full Roadway	Full Roadway	-	-
ULLOA STREET					
19th Ave to 30th Ave	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Ulloa Street					
19th Ave	At All Times	Full Roadway	Full Roadway	-	-
20th Ave					
21st Ave	8AM-5PM (M-F)	1@10'	1@10'	-	-

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
22nd Ave	At Other Times	Full Roadway	Full Roadway	-	-
23rd Ave					
24th Ave					
25th Ave					
26th Ave					
27th Ave					
28th Ave					
29th Ave	8AM-5PM (M-F)	1@14' ↕		-	-
30th Ave *(MC-66), ↕	At Other Times	Full Roadway	Full Roadway	-	-
WAWONA STREET					
17th Ave to 18th Ave ©	8AM-5PM (M-F)	-	-	Closed ©	Closed ©
	At Other Times	-	-	Full Roadway	Full Roadway
Cross Streets for Wawona Street					
17th Ave	At All Times	Full Roadway	Full Roadway	-	-
18th Ave ©	8AM-5PM (M-F)	Closed ©	Closed ©	-	-
	At Other Times	Full Roadway	Full Roadway	-	-
16TH AVENUE					
Taraval St to Ulloa St ⬆/⬇	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Vicente St to Wawona St ⬆/⬇	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Cross Streets for 16th Avenue					
Taraval St *(MM)	At All Times	-	-	Full Roadway	Full Roadway
Ulloa St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
Vicente St	At All Times	-	-	Full Roadway	Full Roadway
Wawona St ↕	8AM-5PM (M-F)	-	-	1@14'↕	
	At Other Times	-	-	Full Roadway	Full Roadway
18TH AVENUE					
Pacheco St to	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-

STREET	TIME	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
Quintara St ⬆/⬇	At Other Times	Full Roadway	Full Roadway	-	-
Quintara St to Rivera St ⬆/⬇	8AM-5PM (M-F)	1@12' ⬆/⬇		-	-
	At Other Times	Full Roadway	Full Roadway	-	-
Cross streets for 18th Avenue					
Pacheco St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
Quintara St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway
Rivera St	8AM-5PM (M-F)	-	-	1@11'	1@11'
	At Other Times	-	-	Full Roadway	Full Roadway

* The Contractor shall not prevent or delay the operation of mass transit vehicles at any time. MC = Motor Coach, MM = Muni Metro. See Subsection 3.3 MASS TRANSIT VEHICLES for more information.

β The Contractor shall perform the appropriate measures to ensure the safety of bicyclists on ALL streets on which there is construction. Contractors shall pay special attention to streets that are on the Bicycle Route Network. See Blue Book Section 9: Bicycle Routes or on the internet at:

https://www.sfmta.com/maps/san-francisco-bike-network-map

The Contractor shall install "Bicyclists Allowed Use of Full Lane" signs, or other approved equal, on streets with bicycle lanes during construction.

© The Contractor may close this road to through traffic only during work hours. "Road Closed" signs shall be removed or covered during non-working hours. The Contractor shall set up detour signs in accordance with the approved traffic detour plans as deemed necessary. Local access must be maintained at all times.

↕ The Contractor shall designate the lane for two-way traffic with a flag person at each end of the two-way road segment to control the flow of traffic. This operation shall be restricted to one block at a time.

⬆ The Contractor shall designate the lane for one way traffic heading northbound (or ⬇ southbound, ➡ eastbound, ⬅ westbound) as specified during construction hours only with flag person at each end of the intersection to control the flow of traffic. The Contractor shall set up construction signs according to the approved traffic detour plans as deemed necessary and shall install/remove or cover/uncover the signs on a daily basis. Local access must be maintained at all times.

3.2 SPECIAL INSTRUCTIONS

A. General

1. The Contractor shall not commence site work prior to receiving the City Representative's approval of the construction schedule. No work shall commence prior to the approval of applicable traffic control plan(s), parking and storage plan(s), sign inventory, and flagger certificates. **The Contractor shall possess a copy of the latest, approved Traffic Control and Detour Plans at the construction site, available for review by a City Representative at all times.** The Contractor will be levied damages, as specified in Section 00 73 03 – Additional Liquidated Damages for non-compliance.

2. The Contractor shall use hot asphalt concrete to provide longitudinal and/or transverse transitions between the newly constructed concrete base, manhole, etc. and existing pavement (whenever the difference in the grade of the pavement and the concrete base, manhole, etc., exceeds 3/4 inch) by the end of the work shift or before opening the lanes to traffic. Refer to the DPW Excavation Code for requirements.

3. The Contractor shall be responsible for coordinating with SFMTA to keep trolley and coach buses in operation at all times during construction. See Subsection 3.3 MASS TRANSIT VEHICLES for more information.

4. The Contractor shall not close any cross streets at any time unless specified in this specification. If cross streets are permitted to close, Contractor shall not close more than one cross street within a 5 block length at the same time unless permitted by the Traffic Engineer.

5. The Contractor shall plate over trenches after working hours. See Subsection 2.3 NON-SKID METAL PLATING for more information.

6. The Contractor shall provide flag persons to control the traffic, as specified in the approved traffic control plan and/or directed by the Traffic Engineer through the City Representative. The number of flag persons required shall depend on the phase of work, traffic conditions, etc. The flag persons shall be provided as an incidental to the Traffic Control bid item.

7. The Contractor shall separate the construction area and staging areas from the traffic lanes by barricades, delineators, etc. The Contractor shall also separate the construction area and staging areas from the walkways in accordance with DPW barricade regulations.

8. Contractor is responsible for taking inventory of SFMTA markings in the work area prior to working. These markings include yellow "Coach Stop" bars, yellow circular markings, etc. Contractor shall notify Chuck Silvera at the SFMTA Paint Shop at (415) 401-3164 two weeks prior to paving on each block so that Muni can restore the markings immediately after paving.

9. Coordination with Other Contractors:

    a. There may be other Contractors working in this area. The Contractor shall coordinate the work with other Contractors working in the area. The required number of lanes must still be provided, as specified in the Tables of Subsection 3.1 VEHICULAR AND PEDESTRIAN TRAFFIC.

    b. The Contractor shall ensure that the traffic detours for this project do not conflict with other construction work and/or other traffic detours.

10. No work is allowed in the streets or sidewalks in the area outlined in the "Holiday Season Restrictions" map in the blue book (downtown) or on any "business block" in the City of San Francisco from the day after Thanksgiving through January 1, between the hours of 7am to 10pm. A "business block" is defined as a block in which at least 50% of the linear frontage is devoted to business. Establishments in this category are retail stores, bars, restaurants, banks, service type businesses, non-residence type hotels, wholesale businesses or others as determined by the SFMTA.

11. Before commencing construction, it is the Contractor's responsibility to request for the latest copy of the list of TEMPORARY STREET CLOSURES FOR SPECIAL EVENTS in the City from the Traffic Engineer on a monthly basis through the duration of the project. The Contractor must get prior approval from the Traffic Engineer through the City Representative for work during San Francisco events and parades within the vicinity of project, such as, but not limited to, Bay to Breakers, SF Marathon, Fourth of July, Hardly Strictly Bluegrass and days in which similar events will take place as determined by the City Representative.

12. All openings in the street and sidewalk must be closed by backfilling and paving, providing safe and adequate passage for vehicles and pedestrians. All plates shall be removed at least one day before the Holiday Moratorium and any special events mentioned above within the project area. No plates are allowed during the specified periods above.

13. The pedestrian path shall be clear of any debris and meet all ADA requirements. Refer to drawing STR 7696 Rev. 2 Pedestrian Crosswalks through Construction Zones for details.

14. The Contractor shall not perform any operation to relocate, adjust, or otherwise disturb bicycle facilities installed in the work area. The contractor shall be responsible for coordinating with the Traffic Engineer and the SFMTA Bicycle Facility Managers to request the removal of these bicycle facilities that might be affected by work in the area. See Subsection 3.20 BICYCLE FACILITIES IN THE WORK AREA for more information.

15. The Contractor shall be responsible for coordinating with the San Francisco Department of Public Works – Bureau of Street Use and Mapping (DPW-BSM) to request the removal of any temporary sidewalk extensions that might be affected by work in the area. See subsection 3.29 TEMPORARY SIDEWALK EXTENSIONS – PARKLETS for more information.

B. Grinding and Paving Work

The Contractor shall stage grinding and paving operation so that the following minimum requirements are met:

1. Grinding and/or paving work will be allowed up to two (2) consecutive blocks and two (2) consecutive intersections maximum at a time and all two (2) consecutive blocks and two (2) consecutive intersections must be paved within 120 hours from the start of grinding work, without exception. No further grinding of consecutive blocks or intersections may be started until the previously impacted blocks are paved. If one of the two (2) consecutive blocks is paved, grinding work

on a third consecutive block may be allowed based upon the discretion of the Resident Engineer.

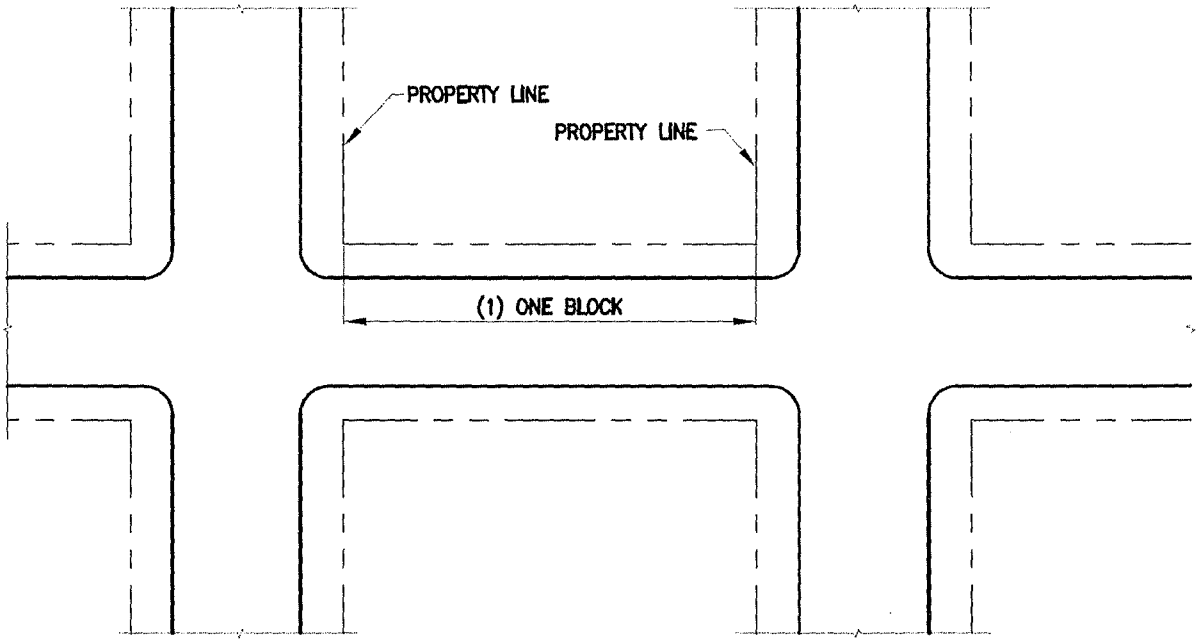


Figure 3.2B.1 – Length of one (1) block

2. Grinding is not permitted on Thursday or Friday unless paving will be satisfactorily completed before the end of the Saturday workday of the same week.

3. Cross streets shall not be closed at any time unless as specified in this specification.

4. During intersection grinding and paving work, the cross street may be interrupted for up to a maximum of ten (10) minutes for residential areas and five (5) minutes for commercial areas, arterials, and streets of high importance listed in the Blue Book.

5. The Contractor shall grind or pave the full width of the roadway within a block by the end of a work shift.

6. The parking shall be restored in a particular section, as soon as the grinding/paving/concrete reconstruction work is completed.

7. The Contractor shall finish any sewer work, sidewalks, curb ramps, and concrete base repair work in the blocks before proceeding to grinding and paving operations on said blocks.

C. Concrete Base Repair Work

1. The Contractor shall be allowed to work on two (2) blocks and/or two (2) intersections on any one day not to exceed 1,200 linear feet for concrete base repair work.

D. Concrete Bus Pad Work
NOT USED

E. Curb Ramp and Sidewalk Work

1. The Contractor shall be allowed to work at a maximum of three (3) intersections at any time if there are multiple curb ramps to be constructed along a street, except as otherwise noted in these specifications.

2. No crosswalk shall be allowed to be closed during curb ramp work except during demolition of curb ramps in which Contractor may close only one crosswalk at a time and provide one flagger to guide pedestrians to the open crosswalk.

3. The Contractor shall separate the safe path of travel for pedestrians from traffic and the construction area of the curb ramps with traffic water-filled barriers as shown on drawing STR 7696 Rev. 2, Detail 6 Pedestrian Crosswalks through Construction Zones.

4. If the safe path of travel for pedestrians is provided on the sidewalk, the Contractor shall separate the construction area of the ramps from the safe path of travel with chain link fence or water-filled barriers, and construction area of the ramps from the traffic area with chain link fence and /or plastic orange colored fence with 2 x 4 inch boards to guide visually impaired persons.

5. The Contractor shall not construct the curb ramps on two (2) adjacent corners of the same street unless otherwise instructed by the Traffic Engineer through the City Representative.

6. The Contractor may work on curb ramps at diagonally located corners at the same time unless otherwise instructed by the Traffic Engineer through the City Representative and if roadway geometry and conditions permit.

7. The Contractor may work on curb ramps on corners on the same side of the one-way street to minimize impacts to traffic.

8. The Contractor shall provide temporary curb ramps during construction and clearly mark the temporary crosswalks.

9. The Contractor shall submit a "Construction Schedule" showing a proposed sequence of operations, starting date, duration and work limit for each intersection where curb ramps are to be constructed.

10. The Contractor shall be allowed a maximum of fifteen (15) working days to complete all the required curb ramps at any intersection.

11. When working on curb ramps at mid-block, Contractor shall completely finish curb ramps on one side of the street prior to starting work on the other side of the street.

12. The Contractor shall maintain all crosswalks and STOP lines at all times while constructing the curb ramps, using temporary traffic tape if necessary.

F. Sewer Work

1. Sewer related work is allowed up to one (1) block and one (1) adjacent intersection at any one time. The Contractor is allowed to close one (1) crosswalk at any one time during the working hours of sewer main replacement work and/or sewer lining work as long as one (1) flagperson is provided to direct pedestrians to the open crosswalks.

2. Mortaring is allowed up to one (1) block and the two (2) adjacent intersections at any one time.

G. Water Work

NOT USED

H. Micro-surfacing

NOT USED

3.3 MASS TRANSIT VEHICLES

A. General

1. The City has a transit first policy. The Contractor shall not impede the operation of mass transit vehicles at any time.

2. The Contractor shall be familiar with transit routes that operate within the limits of the work.

3. The lanes made available for traffic shall be located so as to include an adequate and allowable travel path for the coach lines. The extreme touring range of the centerline of a trolley coach is 10 feet (3.1 m) from the centerline of the trolley wires. The Contractor shall provide a 45 foot (13.7 m) turning radius for SFMTA Transit vehicles.

4. The Contractor shall notify the SFMTA Superintendent of Special Operations at (415) 701-5376, through the City Representative, at least ten (10) working days in advance of doing any work in existing passenger loading zones for buses on each street, where such work would interfere with passenger loading and unloading operations. The SFMTA may temporarily authorize the relocation of these zones. The Contractor shall provide and continuously maintain at least one sign at any bus stop that SFMTA has authorized to be closed or relocated. The SFMTA Superintendent will supply the exact wording, size, and location of these signs. Unauthorized bus zone relocations or any other unauthorized use of the temporary bus stop signs will result in liquidated damages per Section 00 73 03.

5. The Contractor shall provide flag personnel as required to assist SFMTA Transit lines operating around the construction area.

6. The SFMTA overhead electric wires carry a minimum of 600 volts DC and have a 17 feet +/- vertical clearance from the roadway. The Contractor's attention is directed to Article 37 of General Order 95 of the Public Utilities Commission State

of California. CAL OSHA regulations require that any equipment that moves vertically must maintain a 10 feet radial clearance, and any other equipment must maintain a 6 feet clearance from Muni overhead electric wires. The Contractor shall observe these regulations during the entire duration of the construction work.

7. The Contractor shall obtain a clearance permit from SFMTA Central Control at (415) 759-4398 before performing any work within 72 inches of the outside edge of SFMTA rail (the "Track Zone"). If workers or equipment are within the Track Zone, the Contractor shall train its workers and comply with the requirements of the SFMTA Roadway Worker Protection Program. In addition to obtaining a clearance permit, a copy shall be provided to the City Representative. Contact SFMTA's Chief Safety Officer at (415) 701-5719 for training requirements. With respect to requesting Railway Worker Protection (RWP) training, contractors should email Charles Kesecker of the System Safety staff at Charles.Kesecker@sfmta.com. Additional information regarding training requirements and clearance permits can be found at the following web page:

   https://www.sfmta.com/permits/muni-construction-support-and-clearance-permit

8. The following streets have mass transit operations (MC = Motor Coach, MM = Muni Metro):

   a. 30th Ave: # 66 – Quintara (MC)

   b. Ulloa Ave: # 66 – Quintara (MC)

   c. 19th Ave: #28 – 19th Avenue (MC)
      #91 OWL – 3rd St/19th Ave (MC)

   d. Taraval St: # L – Taraval (MM)

9. It is the Contractor's responsibility to verify SFMTA bus routes and to inform the transit agencies at least ten (10) working days in advance if the work is expected to interfere with their operations.

B. Maintaining Transit Service

1. The Muni Overhead wires shall not be relocated or de-energized. Contractor shall use appropriate construction means and methods to meet all CAL OSHA rules and regulations. If the Contractor requests or requires the relocation and/or de-energization, the Contractor shall pay for all costs for de-energization and Muni Inspectors without reimbursement from the city. Muni may deny the request of the Contractor for overhead wire relocation and/or de-energization.

2. While reviewing Traffic Control plans, the Traffic Engineer, in consultation with the City Representative and Muni's Chief Transit Control Inspector, will decide if any Muni Inspectors are required at any location. The Contractor shall arrange for Muni Inspectors. To arrange Muni Inspectors, use the appropriate link to request support found at:

   https://www.sfmta.com/permits/muni-construction-support-and-clearance-permit

After submitting a request for support a unique case number will be assigned. The Contractor must have an "Approved" case and/or a valid clearance permit to proceed with any work near Muni operations.

3. All Muni services as specified above under "Muni Action Required" will be provided by the City at no cost to the Contractor. Any additional services requested by the Contractor, above and/or beyond the scope of this contract, shall be the responsibility of the Contractor.

4. Payments to Muni for additional services above and/or beyond the scope of this contract shall be as follows:

   a. The estimated cost for overhead wire relocation is SEVEN Thousand FIVE HUNDRED Dollars ($7,500). The estimated cost for overhead wire de-energization is SEVEN Thousand FIVE HUNDRED Dollars ($7,500) per weekend day. The cost for a Muni inspector is approximately $130/hr with a minimum of four (4) hours per site. Multiple Muni inspectors may be required when de-energizing any trolley wires. All fee's subject to change.

   b. Any requests for de-energizing of overhead wires are subject to Muni's approval and availability of resources.

   c. If de-energization is requested, the Contractor shall pay for Muni Inspectors if required by Muni, bus substitution if required by Muni, as well as the cost for de-energization, without reimbursement from the city.

5. The Contractor shall notify the Superintendent of Special Operations at (415) 701-5376, through the Engineer, to schedule the overhead wires relocation/overhead wires de-energization and/or any Muni Inspectors and services, at least ten (10) working days in advance of the work. To arrange Muni Inspectors, use the appropriate link to request support found at:

   https://www.sfmta.com/permits/muni-construction-support-and-clearance-permit

   After submitting a request for support a unique case number will be assigned. The Contractor must have an "Approved" case and/or a valid clearance permit to proceed with any work near Muni operations.

6. Upon notification as required for the work, Muni will relocate/de-energize the affected overhead wires.

7. For cancellation of any scheduled overhead wires relocation/overhead wires de-energization and any other services, the Contractor shall provide Muni with at least five (5) working days notice in advance of the scheduled work. Contractor shall pay Muni all required amounts for cancellations with less than five (5) working days advance notice. This cancellation cost will be borne by the Contractor and the City shall not reimburse the Contractor.

8. If Muni cannot provide the overhead wires relocation/overhead wires de-energization and/or other Muni services when the Contractor has scheduled the work, the City will give time extension only. No monetary compensation shall be made.

3.4 TRAFFIC CONTROL BY UNIFORMED OFF-DUTY SAN FRANCISCO POLICE OFFICERS

A. NOT USED

3.5 SPECIAL TRAFFIC PERMIT

A. The Contractor shall apply for a Special Traffic Permit from the SFMTA, if any deviation from the traffic lane requirements (time, width, etc.) of this Specification is requested. If SFMTA approves the issue of the Special Traffic Permit, the Contractor shall pay the required fee to SFMTA and obtain the necessary permit. Fees for the Special Traffic Permit are subject to change. The application for the Special Traffic Permit and current fees can be found here:

http://www.sfmta.com/services/streets-sidewalks/construction-regulations

SFMTA reserves the right to deny any request.

B. The Contractor shall apply for a Special Traffic Permit from SFMTA to use metered parking in addition to where it is permitted per the contract specifications if the Contractor wants to occupy parking meter(s) for equipment/materials storage or materials loading. The associated fee to occupy parking meter(s) is $9.00 per parking meter per day as of July 1, 2016. The fee is subject to change per section 312 of the San Francisco Transportation Code.

1. The Contractor shall maintain the cleanliness of the area surrounding the occupied meters for the duration of the permit. Failure to maintain the cleanliness of the area as determined by the City Representative or the Traffic Engineer shall be grounds for revocation of the permit.

C. In case of an emergency, the Contractor shall declare emergency by contacting the City Representative and other relevant City agencies according to Section 12 "Emergency Procedure". Refer to "Regulations for Working in San Francisco Streets" (Blue Book).

D. Working on City streets beyond the terms set forth in the specifications, without a Special Traffic Permit and without emergency declaration, is in violation of the San Francisco Transportation Code Section 903. Violation of the Special Traffic Permit Ordinance shall result in fines of at least $500 in addition to possible liquidated damages.

E. Violation of the San Francisco Transportation Code Section 7.3.30 constitutes a misdemeanor. It reads as follows:

To obstruct traffic four or more times within one year without a Special Traffic Permit, or violate the terms of a Special Traffic Permit or the regulations set forth in Division II, Section 903. Each hour during which the obstruction continues shall constitute a separate offense. Any person and/or business entity violating this section may be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of at least $1,000, or imprisonment in the county jail not exceeding six months, or both.

F. The Contractor shall NOT be compensated for the cost of a Special Traffic Permit and/or any fine levied for any violations and/or shut down due to violations of project specifications and/or violations of the conditions of the Special Traffic Permit.

3.6 TEMPORARY PAVEMENT MARKINGS

A. After each day's work the Contractor shall furnish and install temporary pavement

delineation, which shall be maintained by the Contractor until the permanent markings are installed.

B. Prior to construction the Contractor shall survey each street and inventory all existing pavement markings including marking type and material used. The pavement markings shall include, but not be limited to traffic striping, crosswalks, stop bars, messages and raised pavement markers.

C. The temporary pavement markers shall be the same color as the markings they replace.

D. Surfaces on which temporary pavement delineation is to be applied shall be cleaned of all dirt and loose material and shall be dry when the pavement markers are applied.

E. Temporary pavement delineation shall be applied in accordance with the manufacturer's instructions.

F. Dimensions and spacing of tape for temporary striping shall be as follows:

1. Crosswalk and STOP bar: One stripe 4 inches wide to mark 12 inches wide crosswalk or limit lines. Unless specified otherwise on the contract drawings, stop bars shall be aligned with the projections of the near side property lines and shall be extended from the curb to the yellow striping or center of the roadway.

2. Striping across intersections and guide lines for left and/or right turn lanes shall be one stripe of 4 inches wide to mark 8 inches wide guidelines.

3. Double yellow stripe centerline shall be two 4 inch wide lines, 3 inches apart; 2 ft long strips at 24ft center to center.

4. Lane lines shall be one 4 inch stripe of 24-inch segments, spaced 24 feet apart.

G. Dimensions and spacing of temporary overlay markers shall be as follows:

1. Double yellow stripe centerline shall be two markers, 3 inches apart; spaced at 24ft center to center.

2. Lane line markers shall be spaced 24ft center to center.

H. The Contractor shall install temporary pavement markings, as specified below, after concrete base repair, after grinding, after paving, after sewer main and lateral work, and before opening the street to public traffic. Any existing traffic striping and lane lines that are removed or damaged by the work activity shall be restored with temporary foil backed tapes.

I. The Contractor shall maintain all temporary pavement markings for 30 calendar days after the acceptance of the paving of any street. The SFMTA Paint Division will maintain the temporary pavement markings or install permanent markings after 30 calendar days of the acceptance of the paving by the City Representative.

3.7 CROSSWALKS AND SIDEWALKS

A. All crosswalks shall be kept open at all times, unless a substitute temporary crosswalk is provided, or otherwise approved by the Traffic Engineer through the City Representative.

B. R9-3 and R9-3bP, "NO PED CROSSING" and "USE CROSSWALK (L/R)" signs shall be placed at each end of a temporarily closed crosswalk.

C. Whenever a temporary crosswalk is provided outside of the existing crosswalk, such temporary crosswalks shall be clearly defined by signs, striping, pedestrian bridges or plates. The minimum width of the temporary crosswalk shall be 10 feet measured between the outside edges of the striping tape. The Contractor shall provide access to mobility and visually impaired persons at all temporary and/or permanent crosswalks at all times by providing accessible temporary curb ramps.

D. No obstruction or openings of any kind shall be allowed in portions of sidewalks accessible to pedestrians.

E. Portions of sidewalk closed to pedestrians shall be delineated by a continuous line of pedestrian barriers. Barriers shall not have legs or other parts projecting into pedestrian ways and shall meet the requirements for visually impaired persons.

3.8 PERMANENT THERMOPLASTIC PAVEMENT MARKINGS

A. The SFMTA Paint Division will furnish and install all the permanent thermoplastic stripes and pavement markings (traffic stripes, crosswalk stripes, stop bars, messages and raised pavement markers) at the locations shown on the traffic plans and in accordance with the latest edition of Caltrans Standard Specifications and Plans.

B. The Contractor shall notify the Traffic Engineer through the City Representative of the proposed schedule for repaving of each block at least seven (7) calendar days in advance and again once the paving is completed and accepted, so that SFMTA Paint Division can install permanent pavement markings.

3.9 PROHIBITION OF STOPPING

A. The Contractor may prohibit stopping in parking lanes where and when necessary to gain access to the work or to provide the required lanes, unless specified otherwise in this Section.

B. The Contractor shall use "Tow Away" signs in all construction zones as shown in SFPW Order No. 183160. The ordinance can be found at:

http://sfpublicworks.org/services/permits/temporary-occupancy

C. The Contractor shall register Tow-Zone by calling (415) 701-2311 or 311 from San Francisco at least 72 hours in advance of the effective date and time. The Contractor shall post the signs at least 72 hours in advance of the effective date and time. The Tow-Away sign fee is $4.00 per sign. Fees for the Tow-Away sign are subject to change.

D. "Tow-Away, No Stopping" signs may be attached to Type II barricades, placed at 20 feet centers. The Contractor shall post the signs only in the area where actual work is being done. Parking shall not be prohibited in the area where there is no construction activity. The information posted on the sign shall be in compliance with SFPW Order No. 183160.

E. The Contractor shall maintain the signs on a continual basis and shall replace damaged or missing signs daily, and shall remove the signs immediately after they are no longer needed.

F. When existing posted sign(s) need(s) to be revised (i.e., later start date, duration extension, etc.), the Contractor shall obtain new sign(s) to reflect the change(s) and replace the existing posted sign(s) at least 72 hours in advance of the proposed change(s). Refer to SFPW Order No. 183160.

G. When a vehicle is removed from a street at the request of the Contractor and a post-storage hearing determines that as a result of the Contractor's improper posting of the required signs, reasonable grounds did not exist for removal, the Contractor shall reimburse the City and County of San Francisco for the cost incurred in storage and towing. The failure of the Contractor to provide reimbursement or to agree to assume all liability for any improper posting shall result in the SFMTA Parking Enforcement Divisions denial of any future requests by that Contractor for removal of vehicles in violation.

3.10 NIGHT TIME WORK

A. Contractor shall obtain a night noise permit for any work between the hours of 8:00 PM and 7:00 AM, as specified in Section 2908 of the Police Code. Contact Rassendyll Dennis of the Department of Public Works (DPW), 1155 Market St, 3rd Floor at (415) 554-5810 for details of the requirements for obtaining the permit.

B. Contractor shall provide suitable temporary lighting to illuminate the construction area for safety and security purposes, as required by the City Representative. The Contractor shall submit the details of the temporary lighting to the City Representative for approval.

3.11 TREE TRIMMING

A. The Contractor shall contact the Bureau of Urban Forestry (BUF) of DPW at (415) 554-6700, as per specification Section 01 11 00 Summary of Work prior to start of work if trees are in the City right-of-way and will be in conflict with the construction work, equipment, and/or with the traveling public during construction. The Contractor shall not detour any traffic onto the parking lane until all the tree branches are properly trimmed or the Contractor has made sure that these branches will not interfere with the traveling public.

3.12 TEMPORARY CONSTRUCTION AND TRAFFIC SIGNS

A. The signs and equipment shall conform to the requirements of the latest edition of California Department of Transportation's MUTCD. Unless otherwise shown on the plans or specified in this specification, the color of construction area warning and guide signs shall have black legend and border on orange background, except W10-1 or W47(CA) (Highway-Rail Grade Crossing Advance Warning) sign shall have black legend and border on yellow background.

B. The Contractor shall be familiar with the California MUTCD.

C. Before starting any work which will affect the normal flow of traffic, The Contractor shall furnish, install, and maintain temporary signs.

D. The Contractor shall as a minimum, furnish and make available to the site the following signs and equipment in sufficient quantities to maintain required traffic control, per the approved Traffic Control Plans and/or as directed by the Traffic Engineer through the City Representative:

1. Barricades, as required by Section 21,400 of the State of California Vehicle Code and as specified in the Latest Edition of the State of California's Department of

Transportation's MUTCD, in sufficient amount to safeguard the public and the workers.

2. "TOW-AWAY, NO STOPPING" signs as herein specified.

3. Traffic cones and/or delineators and/or temporary reflectorized removable tape to delineate traffic lanes as required to guide and separate traffic movements.

4. High level warning flag units, in advance of traffic approaching the work, each displaying three (3) flags mounted at a height of 7 feet.

5. "ROAD WORK AHEAD" signs, Code W20-1, size 48"x48" placed in conspicuous locations, in advance of the work, facing approaching traffic.

6. "ROAD CLOSED" signs, Code R11-2, size 48"x30".

7. "ROAD CLOSED TO THRU TRAFFIC" signs, Code R11-4, 60"x30".

8. "ROAD CLOSED AHEAD" signs, Code W20-3, 48"x48".

9. "RIGHT/LEFT LANE CLOSED AHEAD" signs Code W20-5 (RT/LT), size 48"x48".

10. "FLAGGER SYMBOL" signs, code C9A (CA), size 48"x48".

11. "TWO WAY TRAFFIC SYMBOL" signs, Code W6-3, size 48"x48".

12. "ROUGH ROAD" signs, Code W8-8, size 36"x36".

13. "REVERSE TURN SYMBOL" signs, Code W1-3, size standard 36"x36".

14. "DETOUR AHEAD" signs, Code W20-2, size 48"x48".

15. "DETOUR" signs, Code M4-10 (RT/LT) and/or SC3 (CA), size 48"x18".

16. "Street Name" signs, with 6" Upper Case series "D" black letters on orange plate, size 48"x18".

17. "NO PED CROSSING SYMBOL" signs, Code R9-3a, size 18"x18".

18. "USE CROSSWALK (RIGHT OR LEFT ARROW)" signs, R9-3b (RT/LT), size 18"x12", (used with R9-3a signs).

19. "SIDEWALK CLOSED" signs, R9-9.

20. "SIDEWALK CLOSED / Left or Right Arrow / USE OTHER SIDE" signs, R9-10.

21. "SIDEWALK CLOSED AHEAD / Left or Right Arrow / CROSS HERE" signs, R9-11.

22. "SIDEWALK CLOSED / Left or Right Arrow / CROSS HERE" signs, R9-11a.

23. "MAY USE FULL LANE" signs, R4-11.

24. "SAN FRANCISCO BIKE LOGO ROUTE" signs with bike route number and "↙BIKE LANE", Code Ca-SG45 (modified), 12"x24", black and reflective orange.

25. "SAN FRANCISCO BIKE LOGO ROUTE" signs with bike route number and "↑DETOUR", or "←DETOUR", or "DETOUR→" Code Ca-SG45 (modified), 12"x26" black and reflective orange.

26. Flashing arrow signs, Type II conforming to the latest Caltrans Standard Specifications, except as modified herein, placed as shown on the approved Traffic Control Plan. The Contractor shall use solar powered flashing arrow signs.

27. Miscellaneous signs, size 48"x48" or larger, with 6" and/or 8" series "D" black letters on orange plate.

28. Changeable Message Signs (CMS), if specified in the bid schedule, shall be portable. The sign shall be capable of 24-hour operation via solar power to minimize complaints of odor and noise, etc. from local residents and businesses.

29. SFMTA temporary Bus Stop Signs, 12"x24", shall be placed as directed by the SFMTA through the City Representative. The SFMTA Superintendent at (415) 701-5376 will determine the exact wording and location of these signs through the City Representative. Unauthorized bus zone relocations or any other unauthorized use of the temporary bus stop signs will result in liquidated damages per Section 00 73 03.

E. All signs installed by the Contractor shall employ the use of Type III Graffiti proof sheeting on aluminum signs and Type IV for roll-up signs. This sheeting shall meet the latest Caltrans requirements.

F. The actual number and type of signs to be placed shall be as shown on the approved traffic control plans or as directed by the Traffic Engineer through the City Representative.

G. All signs and/or temporary striping shall be reflectorized. Signs shall be installed so that the bottom of the sign is at least 7 feet above the sidewalk or pavement or as directed by the Traffic Engineer through the City Representative.

3.13 TRAFFIC CONTROL

A. Traffic Coordination with Others

1. In order to maintain a continuous flow of traffic, the Contractor shall coordinate the traffic routing work with subcontractors and other contractors, working in the same adjacent area. This includes truck traffic hauling materials, equipment, etc.

2. All proposed traffic control changes shall be subject to approval of the Traffic Engineer through the City Representative.

B. Traffic Control Flag Persons

1. Flaggers, flagging procedures, flagger stations, and flagger control, shall conform to latest edition of the MUTCD.

2. The Contractor shall ensure that flaggers are trained in the proper fundamentals of flagging traffic before being assigned as flaggers.

3. The flaggers shall be used in each situation when the Contractor's equipment and/or vehicle backs up into a travel lane, intermittently occupies a traffic lane, enters from the work area into a traffic lane, and/or where required for traffic control, as directed by the City Representative.

3.14 MAINTENANCE OF TRAFFIC

A. The Contractor shall cause the least possible interference with traffic. The Contractor shall not obstruct or close any roadway to vehicular or pedestrian traffic, except in the immediate vicinity of the work, and then only to the extent allowed.

B. Those parts of streets, access roads, and sidewalks that are occupied by the Contractor shall be immediately vacated and returned to public use when use thereof is no longer necessary for the prosecution of the work.

C. The Contractor shall not impede at any time, free access to public and private properties, including those properties fronting or streets allowed or stipulated by this specification and approved traffic control plans. The Contractor shall provide for such local access by phasing operations, bridging, or employing other procedures approved by the City Representative.

Exception: For work that will require impeding access, the Contractor shall coordinate and work with each affected property or business owner, or responsible building or business manager with presence of City Representative.

D. Access to fire hydrants shall not be impaired by the Contractor. No debris, materials, or equipment shall be placed within ten (10) feet of any fire hydrant.

3.15 DIVERTING OF VEHICULAR TRAFFIC

A. When closing one or more lanes to vehicular traffic or diverting such traffic from its normal path, the Contractor shall clearly delineate temporary centerlines separating two-way traffic and dividing lines for other temporary traffic lanes by employing cones, barricades, flags, reflectors, or other approved methods or devices.

B. Placing of devices shall commence sufficiently in advance of the obstruction or other cause of the diverting of traffic to minimize congestion and shall enable traffic to enter, traverse, and leave the site of the work without abrupt or unwarranted changes in direction. Unless otherwise specified or approved, each temporary traffic lane shall be not less than ten (10) feet clear width.

C. When a detour is necessary for full or partial roadway closure, all detour signs needed for the required traffic routing must be in place before the roadway can be closed for construction. Failure to comply with this requirement shall result in liquidated damages associated with improper lane closure.

D. High rise warning flag units, each displaying three flags mounted at the height of (7) feet, to provide advance warning for traffic approaching the work, will be required in all cases where motorists' visibility of the work is limited or obscured.

3.16 RELOCATION AND REMOVAL OF EXISTING PERMANENT TRAFFIC CONTROL AND SIGNS

A. The Contractor shall be familiar with all existing permanent traffic signs and other traffic control devices within and adjacent to the project limit. The Contractor shall survey the site thoroughly to get all pertinent information of the signs in the construction area, including, but not limited to sign type, message, location, orientation, number of faces (double sided or single sided), and reflectivity. The Contractor shall pay particular attention to the signs that will likely be damaged, removed, or relocated during construction. The Contractor shall submit a Sign Inventory Form for each affected intersection, block, or location. This form is included at the end of this Section.

B. The Contractor shall temporarily relocate all traffic control, street name, and other City signs, as required for the prosecution of the work and to prevent interference with traffic signal installations, and shall satisfactorily maintain such signs in place at all times. The Contractor shall similarly relocate or remove and salvage as City property, the standards for such signs. The Contractor shall salvage standards in their entirety and shall remove any concrete therefrom.

C. The temporary relocation of each "STOP" or other traffic regulatory sign shall be done immediately upon its removal and to a location as close as possible to the original position of such sign or where directed by the City Representative.

D. The Contractor shall remove and salvage as City property existing "STOP" or other signs superseded by installed traffic signals immediately upon being notified by the City Representative that such signals will remain in operation.

E. The Contractor shall permanently relocate traffic control and other signs and standards to the locations shown on the plan or as directed by the Traffic Engineer through the City Representative. Signs to be removed or salvaged are to be delivered by the Contractor, with a copy of the Sign Inventory Form(s), to the SFMTA Sign Shop at 1508 Bancroft Avenue, San Francisco telephone (415) 554-9785. Each sign shall be tagged and labeled providing such information as location and the direction sign was facing prior to its removal.

F. The Contractor shall notify the Traffic Engineer through the City Representative at least five (5) working days before the Contractor reinstalls the permanent signs which were temporarily removed due to construction. The reinstalled signs will be inspected by the Sign Shop personnel at no cost to the Contractor. The Contractor shall provide the Sign Shop with a copy of the approved sign inventory form along with a contact name, and phone number.

G. If new materials (sign, pole, frame, mounting equipment, etc.) and adjustments are needed during the Sign Shop personnel's inspection, the associated cost shall be borne by the Contractor. The Sign Shop shall bill the Contractor to recover all costs incurred.

3.17 WORKING AROUND PARKING METERS

A. The Contractor shall notify the Traffic Engineer through the City Representative, at least 10 working days before starting any work that may impact parking meters so that arrangements may be made by the City to have the meters removed at no cost to the Contractor. Meter removal shall only be done by the SFMTA Meter Shop, unless otherwise authorized by the Traffic Engineer.

B. Parking meters and parking meter standards damaged or loosened by the Contractor's operations will be repaired or replaced as necessary by the City; however, all expenses in connection therewith shall be borne by the Contractor.

3.18 WORKING AROUND PARKING STALL OR ROADWAY SENSORS

A. If parking stall or roadway sensors are located within the work area and could be damaged or affected, the Contractor is responsible for coordinating their removal with Steph Nelson, SFPark 415-701-4331 at least ten (10) working days before starting any work on the block(s) with sensors. SFPark will remove the sensors prior to the Contractor starting work on said block(s).

B. In the event the Contractor does not inform SFPark and removes or damages the sensors or associated equipment during construction, the Contractor shall notify Steph Nelson and pay for removal, purchase, and installation costs associated with the SF Park system within the work area.

C. Once the work is completed by the Contractor and the final paving has been approved by the City Representative, the Contractor shall notify Steph Nelson and the parking stall sensors will be re-installed.

D. Wireless detectors shall never be punctured, cut, ground, or removed from solid core. These actions may result in leakage or release of battery contents, explosion, or fire. Additional safety information can be found at https://www.sensysnetworks.com/products/flexmag

3.19 TRAFFIC SIGNAL WIRELESS OR WIRED LOOP DETECTORS IN THE WORK AREAS

A. The Contractor is responsible for making sure the vehicle detection systems (wireless or wired loop detectors and their related components) are not damaged. If the vehicle detection systems are within the work area and could be damaged or affected, the Contractor shall obtain a copy of the wireless or wired loop detector plan from the Traffic Engineer and notify the SFMTA Signal Shop through the Traffic Engineer, minimum ten (10) working days before starting work to have them removed or disconnected, as applicable. There are currently vehicle detection systems at the following intersections:

1. Loop Detector – Ortega St at 19th Ave

B. In the event the Contractor removes or damages the existing vehicle detection system during construction, the Contractor shall immediately contact the Traffic Engineer through the City Representative. The Traffic Engineer will coordinate the installation of the new vehicle detection system to be installed by the SFMTA Signal Shop to current standards at the Contractor's sole expense if damaged.

C. Once the work has been completed by the Contractor and the final paving has been approved by the City Representative, the Contractor shall notify the SFMTA Signal Shop thru the Traffic Engineer and the detectors will be re-installed.

D. Wireless detectors shall never be punctured, cut, ground, or removed from solid core. These actions may result in leakage or release of battery contents, explosion, or fire. Additional safety information can be found in the Safe Sensor Handling Instructions datasheet at http://www.sensysnetworks.com/products/sensor.

3.20 BICYCLE FACILITIES IN THE WORK AREA

A. Bicycle facilities may refer to but is not limited to any of the following:

a. Bicycle Racks – Usually but not always constructed of round or square metal tubing in the shape of a hoop or inverted U.
b. Bicycle Sharing Stations – Automated electronic bicycle parking facility that dispenses bicycles for public hire. Comprised of multiple components including a group of bicycle docks, a payment kiosk with solar mast, and map panel/display case.
c. Bicycle Lockers – Enclosed, secure individual bicycle storage lockers accessed by key or cardkey.
d. Bicycle Counters – Loops or other bicycle detection devices installed in the pavement. "Bicycle barometers" are a type of bicycle counter that is connected to a power source and includes a display which is mounted onto the sidewalk.

B. If bicycle racks are located within the work area and could be subject to damage by construction, the Contractor is responsible for coordinating its removal with the SFMTA Bicycle Parking Manager at bikeparking@sfmta.com through the City Representative, ten (10) working days before starting work.

C. If bicycle sharing stations or bicycle lockers are located within the work area and could be subject to damage by construction, the Contractor is responsible for coordinating its removal with the SFMTA Bicycle Sharing Manager at bikeshare@sfmta.com through the City Representative at least thirty (30) working days before starting work.

D. If bicycle counters are located within the work area and could be subject to damage by construction, the Contractor is responsible for coordinating its removal with the SFMTA Bicycle Counter Manager at bikecounters@sfmta.com through the City Representative, thirty (30) working days before starting work.

E. In the event the Contractor removes or damages the existing bicycle facilities during construction, the Contractor shall immediately contact the Traffic Engineer and the SFMTA Bicycle Facility Managers through the City Representative, to coordinate the re-installation of the bicycle facility at the Contractor's sole expense.

F. Once the work has been completed by the Contractor and the final paving has been approved by the City Representative, the Contractor shall notify the Traffic Engineer and the SFMTA Bicycle Facility Managers through the City Representative, and the bicycle facility will be re-installed.

3.21 EXISTING TRAFFIC SIGNAL SHUTDOWN AND MAINTENANCE

A. Where it is necessary to shut down existing traffic signals at any intersection, the Contractor shall notify the Traffic Engineer through the City Representative, SFMTA Signal Shop (Fax # 415-282-7681), and SFPD Traffic Bureau ten (10) working days in advance of the start of each shutdown. It is the responsibility of the Contractor to make arrangements to have police officer(s) on duty to control traffic. Notification shall be written and shall also include a contact name and number to be used in case of emergency. If the Contractor fails to provide notice as detailed above, liquidated damages shall be assessed per Section 00 73 03.

B. The Contractor shall similarly notify the Bureau of Light, Heat, and Power (BLHP) at (415) 227-8513 a minimum of ten (10) working days in advance of any work on existing street light equipment. Disconnection of any existing or temporary streetlights will not be permitted until the new equipment has been approved, tested, and properly adjusted by BLHP.

C. The operation and interconnected functioning of existing traffic signals shall not be disturbed before 9:00 a.m. The traffic signals shall be returned to normal working conditions before 3:00 p.m. of the same day.

D. All work and expenses for maintenance of existing traffic signal and streetlights in operation shall be done as incidental work to this contract.

E. Many traffic signals are interconnected via 12-conductor cable, twisted wire pairs, or fiber optic cable to provide signal coordination. Coordination of the traffic signals shall be maintained every day between the hours of 7-9 AM and 3-7 PM. During all other times, the Contractor shall make every effort to maintain the existing coordination. Failure to ensure traffic signal interconnect is operational between the peak periods of 7-9 AM or 3-7 PM will result in liquidated damages being assessed per Section 00 73 03.

3.22 TRAFFIC SIGNAL LOOPS INSTALLATION

A. The Contractors shall lay out the loop installation, with paint, and notify the Traffic Engineer through the City Representative at least two (2) working days in advance, before the scheduled date of slot cutting. The slots for the loops shall be cut only after the approval of the Traffic Engineer.

B. Residue material resulting from slot cutting operations shall not be allowed to flow across sidewalk or traffic lanes, and shall be removed from the pavement surface.

C. The depth of the cut shall be 4.0 to 4.5 inches except when noted otherwise on the contract plans and drawings. The width of the saw cut shall be minimum 1/2 inch. Each corner shall be core drilled. The Contractor shall core drill the point where the curb line and road surface meet. The Contractor is advised that City streets are generally 2 to 4 inch asphalt concrete wearing surface on an 8 to 12 inch concrete base.

D. The Contractor shall submit for approval a schedule of installation, for all phases of saw cutting. The City Representative shall verify the following:

1. Layout of loops and home runs prior to saw cut.

2. Depth and width of the saw cut for the loop.

E. Contractor shall notify the City Representative not less than 24 hours prior to cleaning of pavement cuts, installation of loop wires and installation of loop sealant. Failure to notify the City Representative will result in this work being rejected.

3.23 INSTALLATION OF CONDUCTORS

A. General

1. Each conduit that contains traffic signal conductors shall include one bare #6 AWG copper stranded conductor that is bonded at each end.

2. The installation of any conductors in conduits shall not take place until the Contractor has demonstrated to the City Representative's satisfaction and approval that the Contractor has employed all means necessary, or required, to clean and prepare the conduits for the installation of conductors therein.

3. If the existing grouping, taping, or lacing of conductors is disturbed in the course of work, the Contractor shall regroup, tape, or lace as applicable.

4. All conductors terminating in a metallic enclosure shall terminate on a terminal board equipped with screw-type or box-type terminals fabricated from copper or copper-alloy material.

5. Conductors terminating in screw type termination shall be equipped with self-insulated self-locking spade-type terminals.

6. Conductors terminating on box-type terminals shall be connected directly without using spade-type pressure terminals attached to the conductor ends.

7. Ends of all unused conductors shall be individually taped prior to intersection turn-on or switchover.

B. Conductor Color Codes, Labels, and Grouping

1. Conductor labeling material shall be Panduit Write-on, Self Laminating Labels (Catalog #PLD-2) or equal. Labeling and grouping requirements apply to all new and all existing conductors to remain at a given intersection. Old nylon tags shall be removed from all existing conductors to remain.

2. Wires shall be sized, color-coded and labeled in accordance with the following schedule:

CIRCUIT	AWG	PHASE	BASE COLOR	STRIPE	LABEL
Spare Signal Wire	#14	N/A	Black	None	None
12-Conductor Cable	#14	N/A	Black (jacket)	None	*see below
Detector Cable	#14	all	Black (jacket)	None	Per plans
Service (AC+)	#8	N/A	Black	None	None
Service (AC neutral)	#8	N/A	White	None	None

* Install labels on 12-Conductor Cable near each conduit end. For example, a single cable in a pull box requires two labels – one label near each conduit end. 12-Conductor Cable labels shall identify where cable is headed, i.e., north, south, east, west, controller, etc.

3. In all pull boxes and controller cabinets, all traffic signal conductors shall be grouped by signal head with electrical tape and labeled by signal head number as designated on plan sheets.

4. In all pull boxes, all conductors running between the same two conduits shall be further grouped and wrapped in at least one location with electrical tape near the center of the slack.

5. In the controller cabinet, all conductors shall be further grouped and labeled by phase in an orderly manner.

C. Splicing

1. Not Applicable.

D. 12 Conductor Interconnect

1. Not Applicable.

E. Red Light Camera

1. Not Applicable.

3.24 RED LIGHT CAMERA DETECTOR LOOPS AND SENSORS IN THE WORK AREA

A. NOT USED

3.25 TRUCK ROUTES

A. The Contractor shall ensure that all trucks and equipment associated with the project travel only on the truck routes designated by the local agencies. The Contractor shall not permit any trucks, or equipment associated with this project to be driven on non-truck route local streets except to use the shortest route to and from the project sites. In the event truck routes are not designated by a local agency, the Contractors shall use the local arterials to the project sites.

B. The Contractor is solely responsible for all permits and costs required to operate extralegal size, weight, or load vehicles associated with this project.

3.26 PEDESTRIAN MONITORS

A. NOT USED

3.27 COMMUTER SHUTTLE BUS STOP IN THE WORK AREA

A. If a Commuter Shuttle Bus Stop space is located within the work area and could be subjected to damage by construction, the Contractor is responsible for coordinating its removal with the Commuter Shuttle Bus Stop Manager at 415-701-5494 through the Traffic Engineer ten (10) working days before starting work.

B. In the event the Contractor removes or damages the existing Commuter Shuttle Bus Stop during construction, the Contractor shall immediately contact the Commuter Shuttle Bus Stop Manager at 415-701-5494 through the Traffic Engineer, to coordinate the re-installation of the Commuter Shuttle Bus Stop at the Contractor's sole expense.

C. Once the work has been completed by the Contractor and the final paving has been approved by the Traffic Engineer, the Contractor shall notify the Commuter Shuttle Bus Stop Manager at 415-701-5494 through the Traffic Engineer, and the Commuter Shuttle Bus Stop will be re-installed.

3.28 CAR SHARE IN THE WORK AREA

A. If a car share space is located within the work area and could be subjected to damage by construction, the Contractor is responsible for coordinating its removal with the Car Share Manager at 415-701-4213 through the Traffic Engineer ten (10) working days before starting work.

B. In the event the Contractor removes or damages the existing car share space during construction, the Contractor shall immediately contact the Car Share Manager at 415-

701-4213 through the Traffic Engineer, to coordinate the re-installation of the car share space at the Contractor's sole expense.

C. Once the work has been completed by the Contractor and the final paving has been approved by the Traffic Engineer, the Contractor shall notify the Car Share Manager at 415-701-4213 through the Traffic Engineer, and the car share space will be re-installed.

3.29 TEMPORARY SIDEWALK EXTENSIONS – PARKLETS

A. If a temporary sidewalk extension, parklet, is located within the work area and could be subject to damage by construction, the Contractor is responsible for coordinating its removal with the San Francisco Planning Department's Parklet Program Manager at parklets@sfdpw.org, through the City Representative at least thirty (30) working days before starting work.

B. In the event the Contractor removes or damages the existing parklet during construction, the Contractor shall immediately contact the Traffic Engineer and the Parklet Program Manager through the City Representative, to coordinate the repair or re-installation of the parklet at the Contractor's sole expense.

C. Once the work has been completed by the Contractor and the final paving has been approved by the City Representative, the Contractor shall notify the Traffic Engineer and the Parklet Program Manager through the City Representative, and the parklet will be re-installed.

PART 4 - MEASUREMENT, PAYMENT, AND LIQUIDATED DAMAGES

See Section 01 20 00 - Price & Payment Procedures
See Section 00 73 03 - Additional Liquidated Damages

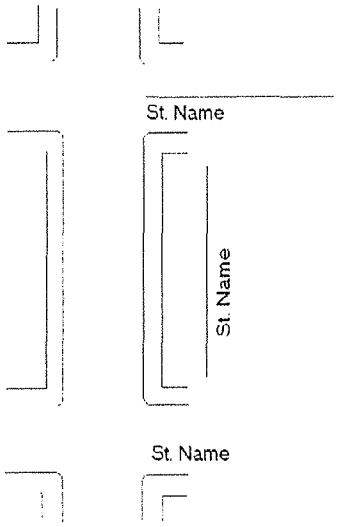
END OF SECTION 01 55 26

Appendix
Sign Inventory Form

Date: _____

Contract: _____

Location: _____



Sign Type	Location x' from property line of Cross St.	Side of St.	Double sided Single sided	Sign Description	Comments

Contractor's Signature _____

Sign Type: R-1 (Stop Sign), R-17 (No Left Turn), and etc.
Location: Sign R-24: Park Parallel is 23' south from the property line of 9th Street.
Side of Street: ES – east side, WS – west side, NS – north side, SS – south side
Double sided/Single sided: DS or SS
Sign Description: No Left Turn, One Way (L or R), Tow Away No Stopping Anytime (TANSAT), etc.
For street name signs specify name (i.e. Main St) & color (B/W - black /white or G/W - green/white)

SFMTA
Municipal Transportation Agency

DE-ENERGIZATION & OVERHEAD WIRE MOVEMENT REQUEST FORM

☐ REQUEST TO ORDER ☐ REQUEST TO CANCEL DATE

*Cancellations must be made by 12:00pm (noon) the day PRIOR of a scheduled work day. Untimely cancellations will be assessed for an entire day's fee.

Company Name:	**Company Contact:**
Contact Phone:	**Contact Email:**
Name:	**Phone #:**
Contract / Project #:	**Site / Location:**

Day	Date	Starting Time	Ending Time	Affected Lines	Location of De-Energization	Direction (IB/OB/BOTH)

MUNI Use

Date Received: _____ ☐ Approved ☐ Rejected

Request Reviewed by: _____ Date: _____

SFMTA
Municipal Transportation Agency

TEMPORARY BUS ZONE & REROUTE RELOCATION REQUEST

☐ REQUEST TO ORDER ☐ REQUEST TO CANCEL DATE _____

Company Name:	**Company Contact:**
Contact Phone:	**Contact Email:**
Name:	**Phone #:**
Contract / Project #:	**Site / Location:**

1 NOTIFICATION DATE _____ *(10 working days in advance)*

2 LOCATION _____ *(ie. Mission @ 8th)*

3 BUS LINE(S) AFFECTED _____ *(Line Numbers ie. 14, 49)*

Inbound/Outbound: *(Check one)* ☐ Inbound ☐ Outbound

Reroute Needed? *(Check one)* ☐ Yes ☐ No

4 EXISTING BUS ZONE ☐ Near Side ☐ Far Side

5 PROPOSED BUS ZONE LOCATION _____ *(ie. Mission @ 8th)*

☐ Near Side ☐ Far Side

Remarks: _____

6 EFFECTIVE START DATE _____

7 ESTIMATED END DATE _____

8 TIME LIMITS _____

9 ATTACHMENTS:

A. Plan of (E) & Proposed Bus Zone
B. Photos of (E) & Proposed Bus Zone
C. Photo of (E) Bus Zone Sign
D. Plan of Proposed Routing with Map

ICM / Contractor Use

Date Received: _____ ☐ Approved ☐ Rejected

Request Reviewed by: _____ Date: _____

MUNI Use

Date Received: _____ ☐ Approved ☐ Rejected

Request Reviewed by: _____ Date: _____

SFMTA
Municipal
Transportation
Agency

INSPECTOR AND VEHICLE CHARTER REQUEST FORM				
CHECK PROJECT TYPE		FILM		CONSTRUCTION

THE FOLLOWING CONDITIONS MUST BE UNDERSTOOD AND ACCEPTED TO COMPLETE THE PROCESSING OF YOUR REQUEST.

- Requests for **inspector support** are to be made **5 business days** to the start of project.
- Requests for LRV, Motor coach, PCC and Cable car **charters** are to be made **10 business days** to the start of the project.
- Cancellations must be made by **12:00pm (noon)** the day PRIOR of a scheduled work day. Untimely cancellations will be assessed for an entire day's fee.
- Inspectors will be scheduled at a **minimum of 8 hours**. Hours are to include a total of 1 hour travel time.
- Proper permits are to be obtained before projects can begin including street closure permits and SFMTA clearances when working near tracks, overhead power lines and subway stations.
  NOTE: CLEARANCES are reviewed and approved every TUESDAY of the week.
- SFMTA bus/rail services remain a priority. Obstruction to service is not allowed unless specified below.
- Any activities performed outside the limits of the activities described below will cause the project to be terminated and will be subjected to a fine.
- Work hours must be performed outside peak service hours.
  Construction hours (based on blue book): M-F 9a-3p, Weekends – based on approval
  Film: M-F 10-3pm, Weekends – based on approval

PROJECT INFORMATION

PROJECT			COMPANY NAME		
DAY			DATE		
START TIME			END TIME		
INSPECTORS	Y or N		NO. OF INSPECTORS		
CHARTER	Y or N	TYPE OF VEHICLE (CABLE CAR, PCC, LRV)		ALTERATION TO VEHICLE	
LOCATION			MUNI LINES		
# OF PEOPLE ON SITE		CAMERA & EQMNT SET-UP			
ACTIVITIES					

I have read the conditions mentioned above. Failure to comply with this agreement may be subjected to a fine.

CONTACT PERSON'S SIGNATURE		CONTACT NUMBER	

FOR INTERNAL USE ONLY					
RECEIPT DATE		APPROVAL DATE		BY	
ACTIONS TAKEN					
BRIEF SUMMARY					
DATE SENT TO FINANCE		INVOICE NO.			

SFMTA
Municipal
Transportation
Agency

CANCELLATION

INSPECTOR AND VEHICLE CHARTER CANCELLATION FORM				
CHECK PROJECT TYPE		FILM		CONSTRUCTION

THE FOLLOWING CONDITIONS MUST BE UNDERSTOOD AND ACCEPTED TO COMPLETE THE PROCESSING OF YOUR REQUEST.

- Requests for **inspector support** are to be made **5 business days** to the start of project.
- Requests for LRV, Motor coach, PCC and Cable car **charters** are to be made **10 business days** to the start of the project.
- Cancellations must be made by **12:00pm (noon)** the day PRIOR of a scheduled work day. Untimely cancellations will be assessed for an entire day's fee.
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- Work hours must be performed outside peak service hours.
  Construction hours (based on blue book): M-F 9a-3p, Weekends – based on approval
  Film: M-F 10-3pm, Weekends – based on approval

PROJECT INFORMATION					
PROJECT			COMPANY NAME		
DAY			DATE		
START TIME			END TIME		
INSPECTORS	Y or N		NO. OF INSPECTORS		
CHARTER	Y or N	TYPE OF VEHICLE (CABLE CAR, PCC, LRV)		ALTERATION TO VEHICLE	
LOCATION			MUNI LINES		
# OF PEOPLE ON SITE		CAMERA & EQMNT SET-UP			
ACTIVITIES					
CANCELLATION					

I have read the conditions mentioned above. Failure to comply with this agreement may be subjected to a fine.

CONTACT PERSON'S SIGNATURE		CONTACT NUMBER	

FOR INTERNAL USE ONLY					
RECEIPT DATE		APPROVAL DATE		BY	
ACTIONS TAKEN					
BRIEF SUMMARY					
DATE SENT TO FINANCE			INVOICE NO.		

SFMTA
Municipal
Transportation
Agency

TRACK DEPARTMENT RWP REQUEST FORM

THE FOLLOWING CONDITIONS MUST BE UNDERSTOOD AND ACCEPTED TO COMPLETE THE PROCESSING OF YOUR REQUEST.

- Requests for **TRACK DEPARTMENT RWP** are to be made **5 business days** to the start of project.
- Cancellations must be made by **12:00pm (noon)** the day PRIOR of a scheduled work day. Untimely cancellations will be assessed for an entire day's fee.
- **TRACK DEPARTMENT RWP** will be scheduled at a **minimum of 8 hours**. Hours are to include a total of 1 hour travel time.
- Proper permits are to be obtained before projects can begin including street closure permits and SFMTA clearances when working near tracks, overhead power lines and subway stations.
  NOTE: CLEARANCES are reviewed and approved every TUESDAY of the week.
- SFMTA bus/rail services remain a priority. Obstruction to service is not allowed unless specified below.
- Any activities performed outside the limits of the activities described below will cause the project to be terminated and will be subjected to a fine.
- Work hours must be performed outside peak service hours.
  Construction hours (based on blue book): M-F 9a-3p, Weekends – based on approval

PROJECT INFORMATION			
PROJECT		COMPANY NAME	
DAY		DATE	
START TIME		END TIME	
NO. of RWP Locations		NO. OF TRACK PERSONNEL	
LOCATION		MUNI LINES	
NO. OF PEOPLE ON SITE		RWP LIMITS	
Activities:			

I have read the conditions mentioned above. Failure to comply with this agreement may be subjected to a fine.

CONTACT PERSON'S SIGNATURE		CONTACT NUMBER	

FOR INTERNAL USE ONLY					
RECEIPT DATE		APPROVAL DATE		BY	
ACTIONS TAKEN					
BRIEF SUMMARY:					
DATE INVOICE NO.SENT TO FINANCE			INDEX CODE #		

SFMTA
Municipal
Transportation
Agency

CANCELLATION

TRACK DEPARTMENT RWP REQUEST FORM

THE FOLLOWING CONDITIONS MUST BE UNDERSTOOD AND ACCEPTED TO COMPLETE THE PROCESSING OF YOUR REQUEST.

- Requests for **TRACK DEPARTMENT RWP** are to be made **5 business days** to the start of project.
- Cancellations must be made by **12:00pm (noon)** the day PRIOR of a scheduled work day. Untimely cancellations will be assessed for an entire day's fee.
- **TRACK DEPARTMENT RWP** will be scheduled at a **minimum of 8 hours**. Hours are to include a total of 1 hour travel time.
- Proper permits are to be obtained before projects can begin including street closure permits and SFMTA clearances when working near tracks, overhead power lines and subway stations.
  NOTE: CLEARANCES are reviewed and approved every TUESDAY of the week.
- SFMTA bus/rail services remain a priority. Obstruction to service is not allowed unless specified below.
- Any activities performed outside the limits of the activities described below will cause the project to be terminated and will be subjected to a fine.
- Work hours must be performed outside peak service hours.
  Construction hours (based on blue book): M-F 9a-3p, Weekends – based on approval

PROJECT INFORMATION			
PROJECT		**COMPANY NAME**	
DAY		**DATE**	
START TIME		**END TIME**	
NO. of RWP Locations		**NO. OF TRACK PERSONNEL**	
LOCATION		**MUNI LINES**	
NO. OF PEOPLE ON SITE		**RWP LIMITS**	
Activities:			
I have read the conditions mentioned above. Failure to comply with this agreement may be subjected to a fine.			
CONTACT PERSON'S SIGNATURE		**CONTACT NUMBER**	
FOR INTERNAL USE ONLY			
RECEIPT DATE		**APPROVAL DATE**	**BY**
ACTIONS TAKEN			
BRIEF SUMMARY:			
DATE INVOICE NO.SENT TO FINANCE		**INDEX CODE #**	

SF MTA- CENTRAL CONTROL

131 Lenox Way, SF CA 94127 (415) 759-4327, (415) 661-0187 Fax

APPLICATION FOR SUBWAY, SURFACE AND ELECTRICAL PERMIT (REV 08/01/11)

Date Submitted: _____ By: _____ On-Track Safety#_____ Permit #_____

AREA REQUESTED: Check all that apply. Permit numbers will be assigned by OCC

Platform ☐ Track ☐ Signal System ☐ Catwalk ☐ Surface ☐ Subway ☐

Electrical ☐ Lone Worker ☐ Freight Track/Interlocking ☐ Other ☐ _____

1. Direction of work TR ☐ TL ☐ DR ☐ DL ☐ SR ☐ SL ☐ IB ☐ OB ☐ EPR ☐ EPL ☐

2. Location (street name) _____

   at or Between _____
   (for subway, use marker numbers or stations)

3. Feeders Requested _____

_____
THE ELECTRICAL SUBCONTRACTOR MUST GUARANTEE COMPLIANCE WITH GO95

Local Isolation ☐ **Open with Rackout** ☐ **Open without Rackout** ☐ **Closed and Energized** ☐

4. Work to be started: Day_____ Date_____ Time_____:_____

5. Work to be completed: Day_____ Date_____ Time_____: _____

Additional Requests for identical permits may be submitted by entering up to four start dates

Dates: 1)_____ 2)_____ 3)_____ 4)_____

Permit #:_____ #_____ #_____ #_____

6. Is ATCS Protection required? Y ☐ N ☐ Protection Requested: _____
7. Compliance with current Rules and Instructions Handbook Work Zone Protection ☐ Yes. Permit will be cancelled if not in compliance.
8. Test Train Required: Y ☐ N ☐ Test train must be verified by permit holder prior to start of work.
9. Vehicle / Equipment to be used: _____
10. Time required to clear work area and make area available for service during an emergency_____
11. Clearance to be issued to: _____ On-Track Safety #_____
12. Work authorized by(dept.):_____
13. Permit requested by _____ Title: _____
14. Work to be performed _____
15. All <u>required</u> personnel on job site are On-Track Safety Certified: YES ☐ **If not checked permit will not be issued**

Work#( ) _____ Home#( ) _____ Cell#( ) _____ Fax#( ) _____

Comments: _____

Electrical permit holders must communicate directly with Operations Control Center: **759-4321** and Bryant Power Control **554-9204** prior to beginning and upon completion of work.

CLEARANCE APPLICATION REQUEST MUST BE SUBMITTED BY FIRST/THIRD WEDNESDAY OF THE MONTH PRIOR TO THE REQUESTED WORK WEEK (STARTS SATURDAY) OR AT LEAST 72 HOURS IN ADVANCE OF THE DATE NEEDED.THE CLEARANCE HOLDER SHOULD KEEP A COPY OF THE ISSUED NUMBERED PERMIT.

NOTE: APPLICANTS TO FILL OUT ALL APPLICATION ITEMS COMPLETELY.

SECTION 01 56 39

TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section includes the requirements for the protection of existing trees and shrubs, including entire structure of plant material above and below ground impacted by all demolition and construction work under this contract.

B. Contractor is prohibited from stockpiling any excavation or construction materials within the canopy of trees, on lawn areas or near shrubs.

C. Contractor shall immediately clean and remove any construction residue that falls within the canopy of a tree or near shrubs.

1.2 RELATED SECTIONS

A. Section 01 11 00 - Summary of Work

B. Section 01 71 33 - Protection of Adjacent Construction

1.3 JOB CONDITIONS

A. Pre-construction Meeting:
1. Prior to commencement of work, the Contractor shall arrange a meeting on the site with the City Representative, General Contractor, and such others as the City Representative shall direct to review the proposed schedule, the "Trees of Concern", the tree and landscape protection, submittals for this Section, the coordination with work of other trades, and the selective thinning and clearing requirements.
2. Adjustments to the type and extent of the protection shall be addressed at the time of the meeting.
3. Contractor shall coordinate the meeting and inform all parties in writing (5) business days in advance of the scheduled meeting.

B. Environmental Requirements: Perform work only during suitable weather conditions. Do not disc, rototill, or work soil when frozen, excessively wet, or in otherwise unsatisfactory condition.

C. Sequencing and Scheduling: Adjust, relate together, and otherwise coordinate work of this Section with work of Project and all other Sections of Project Specifications.

1.4 QUALITY ASSURANCE

A. Contractor shall employ a certified Arborist who is a member of the American Society of Consulting Arborists, Inc. (ASCA). The name and qualifications of the Arborist shall be submitted for approval by the City Representative.
1. Arboricultural work including tree removal, pruning and care for trees to remain shall be performed by personnel familiar with arboricultural work, under the supervision of an experienced professional Arborist and foreman at all times.
2. Work in this Section shall be by a firm which has successfully completed landscape work similar in quality and extent to that indicated for this project for a period of not less than five (5) years. Supervisory personnel with experience on projects of similar size and extent shall supervise the work.

1.5 APPROVAL OF TRENCHING AND EXCAVATION

A. The contractor shall obtain written approval from the City Representative and a certified Arborist prior to start of excavation work within the drip line of trees. A Certified Arborist shall be retained as needed to provide written direction at the Contractor's expense.

B. The Contractor is prohibited from using equipment for trench and excavation work within the tree drip line or where root intrusion exists on asphalt pathways to be reconstructed.

C. In the event pruning is required for roots greater than 2" in diameter the Contractor shall receive written direction from the City Representative in coordination with Arborist prior to continuation of work.

1.6 NON-APPROVED TRENCHING

A. In the event trenching or excavation is performed by the Contractor without the approval or not as shown on the Contract Drawings; the Contractor shall be subject to a fine equal to one half (½) day liquidated damages for every 50-feet.

B. The only exception to paragraph 1.6.A above is for trenching to a maximum of 3-feet as measured horizontally without approval at any particular location for the placement of pipe fittings and quick couplers outside the drip line of any tree.

1.7 DAMAGE TO TREES AND PAYMENT FOR DAMAGE

A. If the Contractor should cause minor damage as defined by nicked tree trunks, limbs and branches or broken branches to trees or shrubs during the course of construction, the Contractor shall pay the following penalties at the beginning of each billing period:
   1. The Contractor will be penalized the sum of One Hundred dollars ($100) for the first incident which causes minor damage to trees or shrubs.
   2. The Contractor will be penalized the sum of Two Hundred dollars ($200) for the second incident which causes minor damage to trees or shrubs.
   3. The Contractor will be penalized the sum of Five Hundred dollars ($500) for the third and subsequent incidents which cause minor damage to trees or shrubs.

B. The Contractor shall replace any trees or shrubs that suffer more serious damage, including damage to roots 2-inches in diameter or larger, during construction at no additional cost to the City. The City Representative shall determine the value of such replacement trees or shrubs. In addition to the Contractor's restoration approved by the City Representative, the Contractor will be assessed damages for the difference in the dollar value of the damaged tree or other plant material, and the dollar value of the replacement.
   1. The dollar value will be determined by the City Representative from the "Guide for Establishing Values of Trees and Other Plants," prepared by the Council of Tree and Landscape Appraisers, current edition. Damages assessed will be deducted from moneys due or that may become due to the Contractor.

C. The Contractor shall in addition be liable for the cost to the City for removing the damaged tree(s). This cost will cover 1.5 times the hourly wage of all person(s) at the site for the required hours to remove the tree(s) and haul offsite as directed by the City Representative.

1.8 EXCAVATION WORK UNDER LOW HANGING BRANCHES

A. In areas where trenching is required under low hanging tree branches (8 to 12-feet off the ground), the Contractor shall operate equipment to a maximum height of 10-feet to avoid contact and possible damage to the tree branches.

B. In bidding the work, the Bid Items which include piping and conduit trenching work shall include the use of machinery that will not extend above 10-feet vertically for 5% of the linear trenching performed.

1.9 MANUAL EXCAVATION

A. In areas where tree branches hang below 12-feet over the area to be excavated, adjacent to elderly trees or as directed by the City Representative, the Contractor shall manually excavate the trench. No machinery shall be used in the areas so designated for manual excavation.

1.10 DAMAGE TO LAWNS, PLANTED AREAS, AND EXISTING IRRIGATION SYSTEMS

A. Refer to the DPW Standard Specifications, Section 1009 – Restoration of Existing Lawn and Other Planting.

1.11 EXCAVATION FOR CONCRETE PATHWAYS

A. The Contractor's vehicles and equipment shall not be driven off-road except along designated routes as far away as practical from tree root zones.

B. Vehicles and equipment shall be operated in such a manner as to avoid damage to tree and bush trunks, leaves and branches.

1.12 ASPHALT PAVING AND TRENCHING AND INSTALLATION OF UNDERGROUND UTILITIES NEAR TREE ROOTS

A. The Contractor shall place all piping 3 ½-inches and smaller and all conduits a minimum of 18-inch below the existing finished grade. New conduits shall be located at least 25-feet away from all tree trunks, 20-feet away from all buildings, 10-feet away from any pathway lighting, and 5 feet away from and parallel to any asphalt or concrete paths.

B. The Contractor shall place all piping 4-inches and larger a minimum of 3-feet below the existing finished grade except when approved by the City Representative to clear root systems. In no case shall the 4-inch and larger pipe placed less than 2-feet below the finished grade. Refer to the drawings for additional information when pipes cross over or under other pipes or conduit.

C. The Contractor shall not cut any tree roots over 2-inch in diameter unless an approved arborist is consulted. The Contractor shall bend and/or transition underground conduit and piping so that the conduit or piping will thread between tree roots. This 2-inch diameter tree root guideline is dependent of the species of tree or bush. Various trees and bushes have a more fibrous root system, consequently, severing a large number of these roots can be as detrimental to certain species of trees as severing a fewer number of larger tree roots.

D. When possible, trenches shall not be run of the side of the tree exposed to prevailing winds as roots are primarily anchored on the windward side. Trenches shall not be cut across more than one quadrant of the tree root zone.

E. Excavated material (fill and overlay) shall not be deposited under the leaf/needle canopy of established trees. The excavated material shall be placed in piles along one side of a paved

surface. In no case shall the Contractor place the excavated material closer than 6-feet from the base of a tree.

F. The Contractor shall be responsible for identifying all underground lighting, electrical control, and irrigation utilities within the project site area. The Department of Parks and Recreation is not a party to or a participant in the Underground Service Alert (USA). Rec/Park will not be providing any field marking service, protecting, and warning the Contractor of the underground facilities. As-built drawings and reference drawings of Rec/Park facilities are not available. As part of the contract work, the Contractor shall be required to locate, probe, determine, and flag or mark all underground facilities including, but not limited to, metal and plastic conduits and pipelines, sprinkler heads, quick couplers, valves boxes, controller boxes, pull boxes, prior to excavation.

G. The Contractor shall replace all affected areas with new sod grass, decomposed granite, new concrete, or asphalt paving within 10 calendar days after beginning trench excavation. All trenches in pathways and planting areas shall be temporarily covered for immediate use. The Contractor shall not accumulate affected areas for group planting of sod or group paving of trench.

H. The Contractor shall locate quick couplers and lateral lines. The Contractor shall cap tees as shown on the drawings unless located in the field directly under the tree drip line. In these cases, obtain the City Representatives approval for relocating the fitting(s).

PART 2 - PRODUCTS

2.1 TEMPORARY PROTECTION OF EXISTING TREES AND LANDSCAPE PLANTING

A. Tree Protection shall be composed of the following:
1. 6-foot tall temporary tree protection composed of 2x4s that surround the outer edge of the tree basin.
2. 2x4s shall be mounted on 2-inch diameter galvanized iron posts, anchored into the soil on opposite corners of the guard, and driven into the ground to 2-foot depth (shift stakes if root is greater than 2-inch diameter).
3. 2x4s shall be used as a toe board surrounding the base of the tree protection for ADA compliance.
4. Place orange snow fencing around the tree protection.
5. Refer to Appendix 'A' for additional information.

B. Temporary materials, new or used, that are adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable Laws and Regulations, and shall be approved by the City Representative.

C. Protection bedding mulch: Recycled wood chips to conform to the following:
1. Mulch pieces should typically be heavy toothpick-like, 2-inch dimension.

PART 3 - EXECUTION

3.1 GENERAL

A. Provide protection for existing landscape planting to remain including, but not limited to, trees, shrubs, and ground cover.

B. Contractor shall provide Temporary Protection suitable for the protection of the landscape planting immediately adjacent to the construction limit of work line, and as directed by the City Representative.

C. The Contractor shall coordinate all other trades and work.

D. All trees to be retained shall be enclosed by fencing on the work side when Tree Protection Zone is located inside, adjacent to, or within 10 feet of the limit of work, prior to demolition, grubbing, or grading.

E. Trees to be retained shall be pruned for clearance as required under supervision of a certified Arborist.

F. Temporary Protection shall be kept in place for the duration of the Project, maintained during construction, and temporarily relocated as required by the progress of the construction at no additional cost to the City.

3.2 PREPARATION

A. Stake the location of Temporary Protection barriers and fencing as noted above for the approval of the City Representative prior to installation of Temporary Protection fencing. Place location stakes at corners and ends and 30 feet on center maximum.

B. Notify the City Representative at least two weeks in advance of the date for on-site review of the staking.

C. Place six inches (6") of organic mulch over existing grade within Temporary Protection fencing for existing trees to remain.

3.3 INSTALLATION

A. Install Temporary Protection for tree and landscape planting, as specified herein and as approved in the field by the City Representative and Landscape Architect. Install all other Temporary Protection in locations approved in the field by the City Representative and Landscape Architect.
   1. Install posts at 10-foot intervals maximum, at corners, and at other changes in direction. Posts shall be set firmly in undisturbed soil, plumb and with a minimum of exposed height as specified. Securely attach fencing at a minimum of three points.
   2. On pavement, provide self-supporting chain link fencing that does not require anchorage into the pavement.
   3. Install hay bales or rolls of erosion control wattling, secured around trunk to a height of 6 feet.

B. Fencing to be relocated closer to trees to remain to accommodate the sequence of construction shall be reviewed by the City Representative and Arborist prior to relocation. No removals or construction shall occur without the City Representative's and Arborist's approval of the new fence location.

C. Completely remove Temporary Protection, including foundations, associate materials and equipment at the completion of the Project or as directed by the City Representative.

D. Restore and recondition areas of site damaged or disturbed by barrier installation and removal.

3.4 PROHIBITED ACTIVITIES:

A. The following are activities prohibited under existing tree canopies and within protected landscape planting areas:
   1. Excavating or trenching under tree canopies is prohibited and shall be permitted only under the following conditions:
   2. When excavating or trenching within the canopy of trees to remain, the Owner shall be given 48 hours notice. Exercise extreme care during excavation to prevent damage to roots and in a manner that will cause minimum damage to the root system. Such work shall not occur without a professional arborist to perform compensatory root and branch pruning.
   3. Prune injured roots cleanly. Backfill as soon as possible.
   4. Where tunneling around roots is not practical, roots shall be cut off approximately six inches (6") from construction.
   5. Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or exposed roots shall be packed with wet peat moss or four (4) layers of wet untreated burlap and temporarily supported and protected from damage until permanently covered with backfill.
   6. Thinning shall not remove more than thirty percent (30%) of the existing leaf surface.
   7. Ripping or tearing of roots will not be allowed.

B. Placing backfill under protected trees unless indicated otherwise. Where fill is required for grading, and as indicated on the Drawings, do not fill above existing grade line at trunks. Fill soil must percolate at a rate of 1" per hour minimum.

C. Damage to trunk, canopy, or limbs caused by maneuvering of vehicles or equipment, or stacking of materials and equipment.

D. Driving or parking vehicles; storage of vehicles, equipment, or supplies.

E. Disposing of paint, petroleum products, dirty water, soil sterilants, concrete slurry or other deleterious materials on or around roots or on any landscape areas.

F. Changing site grades which cause drainage to flow into or to collect near protected trees.

G. Using protected trees as support posts, power poles, crane stays, sign posts, or anchorage for ropes, guy wires, power lines, or other similar functions.

H. Damage to root system from flooding, erosion, excessive wetting or drying resulting from dewatering or other operations.

I. Excessive water or heat from equipment, utility line construction, or burning of trash under or near shrubs or trees.

3.5 REPLACEMENT OF DAMAGED LANDSCAPE PLANTING

A. Trees and plants destroyed or damaged beyond repair due to Contractor's negligence, failure to provide adequate protection, or failure to perform recommended selective pruning shall be compensated by the Contractor at no additional cost to the City.
   1. Damage beyond repair that requires replacement shall be determined by the City Representative.
   2. Replacement shall include the replacement plant material, transportation, installation, a 30-day maintenance period, and a one year warranty.
   3. Planting location for replacements may be different from the original location and shall be determined by the City Representative.

B. Replace shrubs, ground cover and turf with plants similar in species, size and shape.

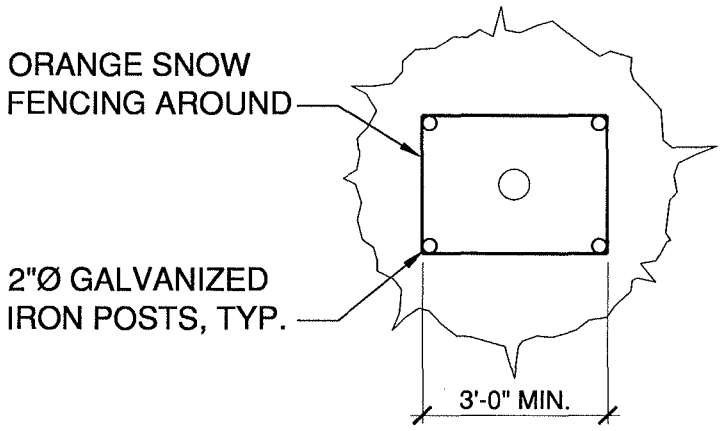
C. Replace trees with plants of same species, size and shape.

D. Replacements for trees of 2"-8" caliper shall be replaced with similar sized plants; trees over 8" caliper shall be 60" box size.

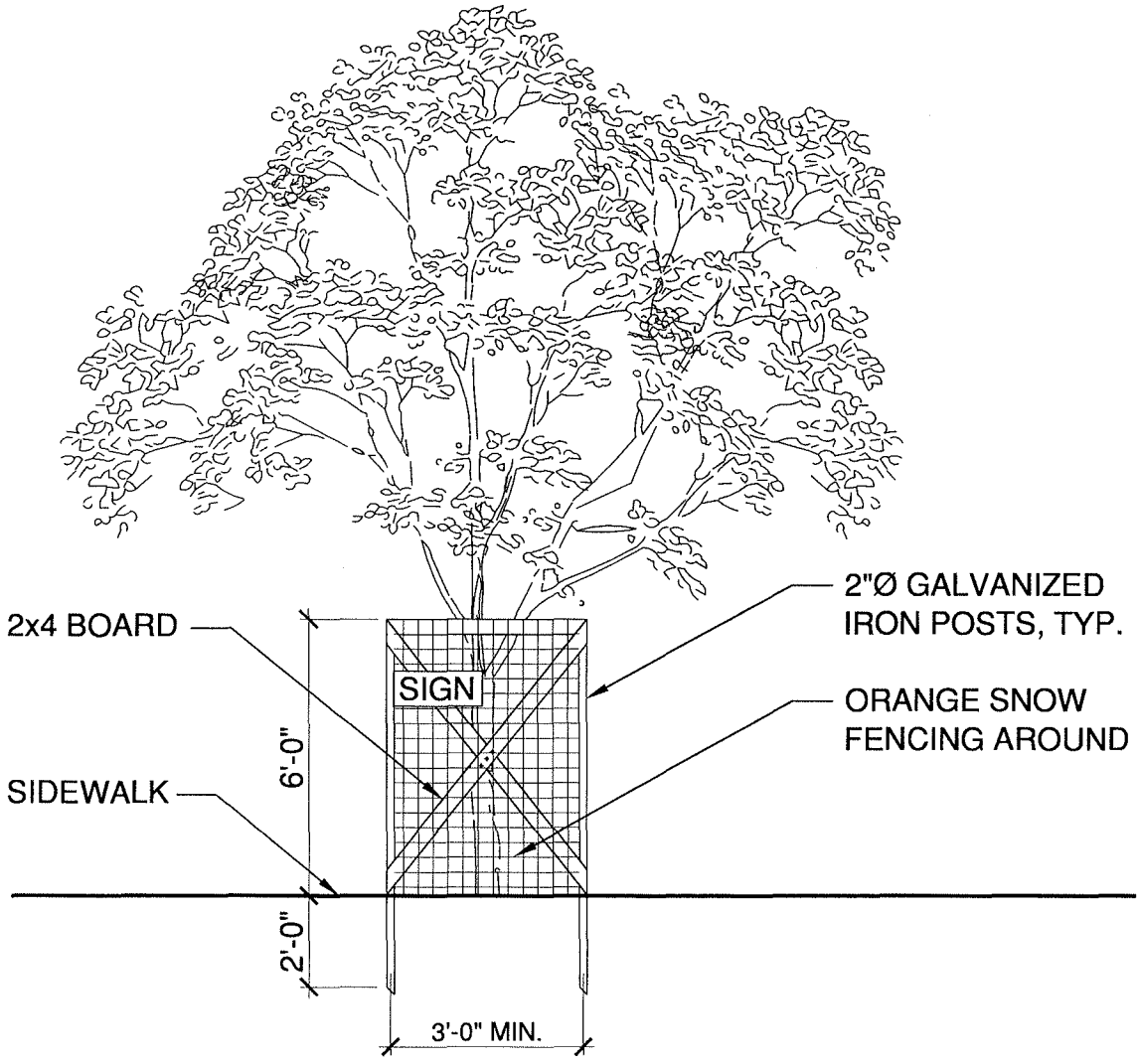
E. Since age and size of existing tree may prohibit replacement with same size tree, the difference in caliper between size of damaged tree and replacement of tree shall be compensated by the Contractor.

F. Contractor shall fell trees to be removed so that trees to remain are not injured.

END OF SECTION



PLAN VIEW



STREET TREE PROTECTIVE FENCE

SCALE: 1/4" = 1'-0"

SECTION 01 57 13

TEMPORARY EROSION AND SEDIMENT CONTROLS (ESCP)

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section specifies the general requirements for furnishing all labor, materials, equipment, and operations necessary for work related to storm water and erosion and sediment controls.

B. The Project is serviced by City/County's combined sanitary sewer (CSS), and is not located within a Municipal Separate Storm Sewer System (MS4) areas within the City/County. Runoff from the Project would discharge to the combined sanitary sewer and storm water system under the jurisdiction of the San Francisco Public Utilities Commission (SFPUC). The Contractor does not have to file a Notice of Intent (NOI) with the Regional Water Quality Control Board (RWQCB).

C. The Contractor shall submit an Erosion and Sediment Control Plan (ESCP) site specific to the project conditions and a Construction Site Runoff Control Permit Application to the SFPUC.

D. In accordance with Federal, State, and local regulations, it is unlawful to discharge pollutants from construction sites into the City's combined sewer system. Best Management Practices (BMPs) must be implemented at all construction sites to minimize the discharge of pollutants into the combined sewer system.

C. Failure to implement the ECSP, BMP's, control prohibited discharges in to the City's sewerage system, and control discharge pollutants from construction site is subject to Federal, State, and local regulatory fines.

E. Liquidated Damages: In addition to any regulatory fines, should the Contractor fail to implement the ECSP, BMP's, control prohibited discharges in to the City's sewerage system, and control discharge pollutants from construction site as per this Section, or promptly take all required remedial actions to the City's satisfaction herein, the City Representative reserves the right to issue environmental non-compliance notices, have the necessary work performed by others, assess fines of one thousand dollars ($1,000.00) per non-compliance occurrence or per event, or to deduct or withhold all monies required therefore as permitted under the Contract Documents.

F. The Contractor shall prepare an Erosion and Sediment Control Plan (ESCP) to ensure compliance with the City's National Pollution Discharge Elimination System (NPDES) General Permit, SFPUC's regulations and its Construction Site Runoff Control Permit, requirements. The Contractor shall obtain approval of its ESCP from the SFPUC.

G. All work in this section shall be considered as incidental work to mobilization (Bid Item SW-26, Mobilization for Sewer Work) unless noted otherwise.

1.2 RELATED SECTIONS

A. 01 35 45 Health and Safety Criteria

B. 01 41 00 Regulatory Requirements

C. 01 35 50 Additional Environmental Procedures

D. 02 81 10 Environmental Management of Excavated Materials

E. 33 24 00 Ground Water Wells

1.3 CONSTRUCTION SITE RUNOFF CONTROL PERMIT

A. The Contractor shall complete the application and obtain a Construction Site Runoff Control Permit ("Permit") with the San Francisco Public Utilities Commission, Wastewater Enterprise, Collection System Division (SFPUC-WWE/CSD). The Contractor shall comply with all Permit requirements.

B. The Construction Site Runoff Control Permit Application can be found at: http://www.sfwater.org/index.aspx?page=498 or obtained at the San Francisco Public Utilities Commission, Wastewater Enterprise, Collection System Division, 3801 3rd Street, Suite 600, San Francisco, telephone (415) 695-7339 or San Francisco Permit Center,1660 Mission Street, San Francisco.

C. The "Permit" application shall include an Erosion and Sediment Control Plan (ESCP) developed signed and stamped by a Qualified Stormwater Developer (QSD), as described in this section and as per the requirements of the SFPUC Construction Site Runoff Control Ordinance. http://www.sfwater.org/index.aspx?page=235

D. Reference Documents:

1. SFPUC Construction Best Management Practices Handbook, August 2013 (https://sfwater.org/modules/showdocument.aspx?documentid=4282)

2. SFPUC Construction Site Runoff Control Technical Standards and Guidelines, February 2014 (https://sfwater.org/modules/showdocument.aspx?documentid=9347)

E. The Contractor is responsible for obtaining the Construction Site Runoff Control Permit in a timely manner and prior to the commencement of any land-disturbing activities. The City will not honor any claims from the contractor arising from delays in obtaining the Construction Site Runoff Control Permit.

F. The Contractor shall comply at all times with provisions contained in the Construction Site Runoff Control Permit which may include but not be limited to specific sampling, inspection, or reporting requirements.

G. Contractor shall maintain a copy of the Construction Site Runoff Control Permit and Erosion and Sediment Control Plan onsite at all times.

H. The Contractor shall be responsible for payment of all fines imposed due to any violations of the Permit requirements or violations of Article 4.1 and 4.2 of the Public Works Code https://law.resource.org/pub/us/code/city/ca/SanFrancisco/Public%20Works%20Code/article04_01.pdf, and the Public Works Code – Control of Construction Site Runoff, Ordinance 260-13 http://sfwater.org/modules/showdocument.aspx?documentid=5041

1.4 SUBMITTALS

As per Section 01 33 00 –Submittal Procedures, the Contractor shall submit the following documentation listed below.

A. A copy of the SFPUC Construction Site Runoff Control Permit.

B. The Erosion and Sediment Control Plan (ESCP) shall be submitted within (30) thirty calendar days after the Notice to Proceed and before commencement of demolition and earthmoving activities. Such work will not start without approval of the ECSP by the SFPUC.

C. Qualifications of the designated qualified person (either a Qualified Stormwater Pollution Prevention Plan Developer or a Practitioner (QSD or QSP)), implementing the ESCP.

D. As warranted and upon request by the SFPUC Inspector or the City Representative, contractor shall submit reports of testing or monitoring results.

E. Copies of the inspection reports on a monthly basis. Reports shall also be made available upon request if requested by the SFPUC Inspector or the City Representative.

1.5 QUALITY ASSURANCE

A. The Erosion and Sediment Control Plan (ESCP) shall be developed, signed and stamped by a Qualified Stormwater Developer (QSD).

B. The Contractor shall have a qualified person, such as a Qualified Stormwater Practitioner (QSP), or otherwise qualified individual trained by a Qualified Stormwater Developer (QSD), to oversee the ESCP including implementation of all BMPs, erosion and sediment control measures, inspections, and its reporting requirements.

1.6 GENERAL REQUIREMENTS

A. Best Management Practices (BMPs): Within the area of work, The Contractor shall employ Best Management Practices. These shall be included in its ESCP. The Contractor shall comply with the following:

1. The City's Stormwater Ordinance (Ordinance No. 83-10).

2. California Stormwater Quality Association's Construction Best Management Practice Handbook, available for download at: https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_NewDevRedev_Complete.pdf.

B. Water Control

1. The Contractor is responsible for the continuous control of surface and ground water at all times during the course of the construction, including Saturdays, Sundays, holidays, work stoppages, during periods of labor strikes, and during periods of work stoppages.

2. The Contractor is wholly responsible for obtaining the sewer discharge permit in a timely manner if required. The City will not honor any claims from the contractor arising from delays in obtaining the sewer discharge permit.

C. Discharges to the City's combined sewer system shall meet the requirements of the following prior to discharges:

1. Industrial Waste Ordinance No. 116-97 (Chapter X (Public Works Code), Part II, San Francisco Municipal Code, Article 4.1 and 4.2), the pre-treatment standards of the San Francisco Municipal Code, section 123, Industrial Waste Ordinance #19-92 and DPW Order No. 158170

2. Requirements for Batch Wastewater Discharges - the San Francisco Public Utilities Commission Waste Water Enterprise, Collection System Division (SFPUC-WWE/CSD).

D. Prohibited Discharge: Discharge of other materials other than stormwater and approved non-storm water discharges to the combined sewer system is prohibited unless a batch discharge permit is obtained from the SFPUC. Approved non-stormwater discharges include incidental discharges of potable water from irrigation of vegetative erosion control

measures, and water from dust control applications. Non-stormwater discharges requiring a batch discharge permit include groundwater from excavations, water from truck washing activities, and water from the cleaning or testing of pipes or tanks.

1. The Contractor is advised that the SFPUC-WWE/CSD have the authority to order immediate ceasing of discharge(s) to the combined sewer system. The Contractor is solely responsible for all costs associated with ceasing discharges, any and all costs for delay in operations, and liquidated damages as specified in this Section.

2. Should the existing wastewater be uncontaminated, and subsequently become contaminated due to the Contractor's operations, all costs related to satisfactory cleanup and disposal shall be the responsibility of the Contractor. Such costs shall include re-design, re-construction, pretreatment and, sewer service permit, usage fees cost necessary to satisfy the above requirements, and liquidated damages as specified in this Section.

1.7 EROSION AND SEDIMENT CONTROL PLAN (ESCP) REQUIREMENTS

A. The site-specific Erosion and Sediment Control Plan (ESCP) shall be developed, signed and stamped by a Qualified Stormwater Developer (QSD). The Erosion and Sediment Control Plan (ESCP) shall be prepared in consideration to the site existing topography and how it will be altered. It shall provide information of the erosion and sediment controls measures that will be used to minimize the risk of sediment pollution and how they will be implemented and maintained for the project construction duration. A drawing or set of plans shall depict the specific BMPs or equivalent measures and sequencing to be used to control erosion and sediments.

B. The Contractor shall prepare and implement an ESCP that conforms to Section 146.7 of the Construction Site Runoff Control Ordinance, and contain the following documentation:

1. A cover letter with:

a. The Project name

b. The Contractor name and signature with the following statement "I certify under penalty of perjury that the information contained on the ESCP is accurate and true."

c. Name, address, phone number, email and qualifications of the qualified person for erosion and sediment and control measures designated to implement the ESCP.

d. Total square foot or acreage proposed land disturbing activities.

e. The location and perimeter of the project site;

f. The location of nearby storm drains and/or catch basins;

g. existing and proposed roadways and drainage pattern within the project site;

h. A drawing or diagram of the sediment and erosion control devices to used onsite.

i. Narrative discussion of management controls; inspection, maintenance, and repair procedures, and reporting schedules.

j. Any other information deemed necessary by the SFPUC General Manager.

C. The ESCP shall provide a narrative description of the erosion and sediment control BMPs that will be implemented at the site in consideration to construction sequence and schedules for the following:

1. Pre-Construction Actions: Before construction, evaluate, mark and protect unique areas surrounding the project site.

2. Construction Access: Stabilize bare areas (equipment parking areas, construction routes, site entrances) immediately with gravel and other means to control track out.

3. Sediment Barriers and Traps: Install basins, traps, silt fences or inlet protection as needed for grading.

4. Runoff Control: Install diversion, perimeter dikes and outlet protection as needed.

5. Land clearing and grading: Begin major clearing and grading after installing sediment and runoff measures. Clear disposal areas as needed.

6. Surface Stabilization: Apply temporary and permanent seeding, mulch, and sod for stabilization immediately on all disturbed areas where work is delayed or completed.

7. Building construction: Install necessary erosion and sediment controls while excavation, paving and installing utilities.

8. Landscaping and final stabilization: Stabilize all open areas including spoil areas. Remove temporary control measures and stabilize.

D. The ESCP shall include a Plan View drawing or set of drawings depicting:

1. The site layout, construction site boundaries,

2. Area drainage and proposed drainage channels.

3. Suitable contours for the existing topography and proposed grading

4. The location of all existing and proposed catch basins, storm drains and inlets and BMP protection proposed.

5. Proposed site erosion and sediment controls.

6. Locations of erosion and sediment control BMPs including the site access points and their track out controls

7. Stockpile location, storage and staging areas, if any.

8. Street profile, utility locations, property boundaries and easement delineations as applicable.

9. Dewatering controls where applicable.

10. Soil stabilization measures where applicable.

E. The ESCP shall include a sample copy of the daily inspection check list and weekly inspection reports for the ESCP measures and BMPs inspected and implemented weekly and 24 hours prior and after a rain event

F. The ESCP shall provide a Contractor's measures in the event of a spill.

G. For projects requiring coverage under the State Water Resources Control Board's (SWRCB) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (General Permit) Order Number (No.) 2009-0009-DWQ as amended by Order No. 2012-0006-DWQ (National Pollutant Discharge Elimination System [NPDES] No. CAS000002), the required Storm Water Pollution Prevention Plan (SWPPP) may be submitted in lieu of an Erosion and Sediment Control Plan.

1.8 EROSION AND SEDIMENT CONTROL PLAN (ESCP) IMPLEMENTATION

A. The Contractor shall at all times comply with the Construction Site Runoff Control Ordinance contained in San Francisco's Public Works Code, Article 4.2 Sewer System Management, Section 146, Construction Site Runoff Control, including but not limited to the items below.

1. Design, testing, installation, and maintenance of erosion and sediment control operations and facilities shall adhere to the standards and specifications contained in the Construction Site Runoff Control Ordinance and regulations developed by SFPUC.

2. Deposition of eroded sediment onto adjacent properties, a public right-of-way, a publicly controlled wetland, or the combined sewer system is prohibited.

3. All erosion control materials shall be certified weed-free and shall be free of plastic monofilament netting or mesh.

4. Contractor shall remove any erosion control materials that are not biodegradable upon project completion.

5. Contractor shall promptly remove and correct damage resulting from any soil, miscellaneous debris or other materials washed, spilled, tracked dumped or otherwise deposited on public streets, highways, sidewalks or other public thoroughfare, incident to the construction activity, or during transit to and from the construction site.

6. Erosion control facilities shall be maintained daily. These facilities shall control and contain erosion-caused silt deposits and provide for the safe discharge of silt free storm water into existing and proposed storm drain facilities. Design of these facilities must be approved and updated each year by the City Representative (Oct 1 – April 15).

7. The Contractor shall provide devices or locations necessary to conduct sampling or metering operations, if requested by the SFPUC Inspector or the City Representative.

8. The Contractor shall notify the SFPUC Inspector or the City Representative of any suspected, formed or unconfirmed release of Pollutants that creates a risk of non-storm water discharges into the combined sewer system.

9. The ESCP shall be available on site at all times.

B. Milestone notification – Contractor shall notify the SFPUC Inspector and the City Representative at least two working days before the following milestones occur:

1. Start of construction.

2. Erosion and sediment control measures are completely installed.

3. Final grading has been completed.

4. Project completion.

C. Daily Inspection, Maintenance and Repair Procedures: Contractor shall each day inspect, maintain, and repair all graded surfaces and erosion and sediment controls, drainage structures, and other protective devices, plantings, and ground cover installed while construction is active.

1. The person(s) conducting inspections for the Contractor must be a Qualified Stormwater Pollution Prevention Plan Developer or Practitioner (QSD or QSP), or person trained by a QSP with experience in erosion and sediment control. Contractor shall maintain documentation onsite demonstrating inspector qualifications for review by SFPUC Inspector or City Representative.

2. The Contractor must daily inspect all of the following areas:

a. Disturbed areas.

b. Material storage areas.

c. Locations where vehicles enter and exit the site.

d. All catch basins, storm drains and inlets. The contractor shall provide an inventory of the inlets existing conditions and their maintenance.

e. All areas where erosion and sediment control BMPs are used.

3. Any necessary modification to BMPs shall be initiated within 72 hours of identification and completed as soon as possible.

D. Weekly Inspection Report and Retention of Records: Contractor shall prepare weekly inspection reports to document inspection, maintenance and repair Procedures.

1. Weekly inspection report shall be in the form of a checklist, table or report and shall indicate:

1. The name of the individual preparing the report.

2. Statement work activities that occurred during the reporting period.

3. The locations that were inspected.

4. Description of maintenance and repairs performed.

5. Results of any sampling performed during the reporting period.

6. Statement of adequacy of the erosion and sediment control measures and any required upgrades to BMPs or to the ESCP.

7. A signature below the following statement: "I certify under penalty of perjury that this information is accurate and true."

2. Weekly inspection reports shall be kept at the job trailer so that during an inspection, it can be shown to the SFPUC Inspector and City Representative.

3. The Contractor shall submit copies of the inspection reports and the inventory of the inlets existing conditions and their maintenance on a monthly basis.

1.9 MINIMUM BEST MANAGEMENT PRACTICES (BMPs) REQUIREMENTS

A. Management of Construction Materials

1. Cover and berm loose stockpiled construction materials that are not actively being used. Locate stockpiles at minimum 50 yards away from concentrated flows of storm water, drainage courses and inlets. All stockpiles should be completely covered and secured.

2. Stockpiles should be protected with a temporary linear sediment barrier berm prior to the onset of precipitation. During the rainy season, all stockpiles shall be protected from storm water runoff by completely covering them and keeping the perimeter barriers around at all times.

3. Store chemicals in watertight containers (with appropriate secondary containment to prevent any spillage or leakage) or in a storage shed (completely enclosed).

4. Minimize exposure of construction materials to precipitation. This does not include materials and equipment that are designed to be outdoors and exposed to environmental conditions (i.e. poles, equipment pads, cabinets, conductors, insulators, bricks, etc.)

5. Implement BMPs to prevent the off-site tracking of loose construction and landscape materials.

6. Provide for the continuous misting of water using hoses on the project, and on roads and other areas immediately adjacent to the project limits, wherever traffic or buildings that are occupied or in use, are affected by such dust caused by his hauling or other operations. The materials and methods used for water laying shall be subject to the approval of the City Representative.

7. Provide for prompt and daily proper removal from existing roadways of all dirt and other materials that have been spilled, washed, tracked, or otherwise deposited thereon by Contractor's hauling and other operations.

B. Rainstorm BMPs

1. During the rainy season, all paved areas are to be kept clear of earth material and debris. The site is to be maintained so as to minimize sediment runoff to any storm drain system.

2. During periods when storms are forecast:

   a. Excavated soils should not be placed in streets or on paved area.

   b. Any excavated soils should be removed from the site by the end of the day if feasible.

   c. Where stockpiling is necessary, use a tarpaulin or surround the stockpile material with fiber rolls, gravel sediment barrier, silt fence or other runoff controls.

   d. Use inlet controls as needed (E.G. block gravel sediment barrier from storm drain adjacent to the project or stockpiled soil.)

3. Stand-by crews shall be alerted by the permit applicant or contractor for emergency work during rainstorms.

4. After October 1st to April 15th, all erosion control measures will be inspected daily and after each storm. BMP will be repaired at the close of each day and whenever rain is forecast.

5. Sandbags shall be stockpiled on site and placed at intervals shown on erosion control plans when the rain forecast is 40% or greater or when directed by the inspector.

6. After rainstorms contractor shall check for and remove sediment trapped by sandbags at staging area. Replace sandbags if deterioration is evident.

C. Waste Management BMPs

1. Prevent disposal of any rinse or wash waters or materials on impervious or pervious site surfaces or into the combined sewer system.

2. Sediment and trash accumulated in drainages or detention basins shall be removed as soon as possible. In addition, oil and material floating on water surface must be skimmed weekly and the debris properly disposed of.

3. Ensure the containment of sanitation facilities (e.g., portable toilets) to prevent discharges of pollutants to the combined sewer system. Licensed waste material handlers must service portable sanitary facilities and trash dumpsters regularly.

4. Clean or replace sanitation facilities and inspecting them regularly for leaks and spills.

5. Cover waste disposal containers at the end of every business day and during a precipitation event.

6. Prevent discharges from waste disposal containers to the combined sewer system.

7. Contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.

8. Implement procedures that effectively address hazardous and non-hazardous spills.

9. Utilize spill response procedures that include: providing equipment and materials for cleanup of spills on site, so that spills and leaks may be cleaned up immediately and properly disposed, and assigning and training appropriate spill response personnel.

10. Ensure the containment of concrete washout areas and other washout areas that may contain additional pollutants so there is no discharge into the underlying soils, onto the surrounding areas and in to the sewerage system.

D. Vehicle Storage and Maintenance BMPs

1. Prevent oil, grease, or fuel from leaking in to the ground, storm drains, and catch basins.

2. Place all equipment or vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.

3. On-site vehicles must be monitored for leaks; inactive equipment must be stored with drip pans to contain any fluid leaks. Drip pans containing oil must be drained into waste oil drums on a regular basis.

4. Contractor shall be responsible for ensuring safety of vehicles operating in roadway adjacent to erosion control facilities.

E. Erosion and Sediment Control BMPs

1. Temporary sediment barriers such as silt fences, berms, dikes, fiber rolls, sandbags, gravel bags or straw bale barriers. These barriers shall be installed at the locations with potential erosion and to the limits shown on the approved ESCP and as otherwise directed by the City Representative. They shall be relocated as necessary for construction operations, with prior approval from the City Representative. Remove the temporary barriers at the end of the project.

2. Dust Control: Employ construction methods and means that will keep airborne dust to the minimum.

3. Silt dams shall be installed and maintained on public streets to prevent sediments from flowing into storm drain inlets and public streets. Storm drain inlets shall be protected surrounding the inlets with BMPs such as fiber rolls or filters media appropriate to type of traffic and as approved by the City Representative.

4. Erosion Control Blankets shall be used to control to stabilize disturbed and exposed soil, if weather warrants such blankets.

5. Silt fencing shall be installed at the foot of the slope around the entire perimeter of the stockpiled soil.

6. V-ditches and silt traps/sediment traps shall be installed at the perimeter of the stockpile to collect runoff where necessary to allow flow to continue to storm drain inlets.

7. Soil stabilization measures, placement of hay bales, and sediment basins shall be constructed to reduce erosion of exposed soils.

8. As part of the erosion control measures, underground storm drain facilities shall be installed complete as show on the improvement plans.

9. Borrow areas and temporary stockpiles shall be protected with appropriate erosion control measures to the satisfaction of the city engineer.

10. If existing driveway is removed during construction, the contractor shall place drain rock as a gravel roadway (8" minimum thickness for the full width and length of site egress area as defined in these plans) at the entrance of the site.

1.10 SPILL PREVENTION AND RESPONSE PROCEDURES

A. The Contractor is responsible for minimizing the potential for spills of pollutants stored onsite. Leaks and spills shall be minimized and if observed, the Contractor shall clean it up immediately and institute preventive measures.

1. Be aware of potential spill areas and drainage routes in their work areas.

2. Debris Management: Place trash and debris in the proper containers.

3. Containers must remain closed at all times except when transferring contents.

4. Do not attempt to carry or move heavy containers of oil or hazardous material without assistance or the use of a drum dolly.

5. Use funnels; pumps with closed hose systems, or other means to prevent spills while transferring material from large containers to small ones. Pumps in operation shall not be left on, unattended.

6. Hazardous materials will be stored in a designated area that is away from vehicle/traffic areas.

7. Immediately notify the supervisor of any spill occurring in the work area. It is the responsibilities of the Contractor's designated Safety Officer to direct the cleanup activities and contact necessary regulatory agencies. All necessary emergency telephone numbers shall be posted at the construction site at a location accessible to all personnel.

8. The Contractor shall know the proper methods to clean up small spills in their work areas, and how spent cleanup material shall be managed.

9. A qualified person with experience in erosion and sediment control will be responsible for recording all steps taken to control spills in the field notes/daily log.

10. Spill cleanup equipment must be readily available on site. Emergency response equipment includes absorbent socks, over pack drums, personal protective equipment, shovel, labels, valves, valve charts, valve wrenches to shut off water supply, etc.

11. Well-maintained equipment shall be used to perform the construction work, and, except in cases of failure or breakdown, equipment maintenance shall be performed off-site.

12. Equipment shall be inspected daily by the operator for leaks or spills. If leaks or spills are encountered, the source of the leak shall be identified, leaked material shall be cleaned up, and the cleaning materials shall be collected and disposed of properly.

13. The Contractor shall have on-site at all times sufficient absorbent materials and cleanup supplies, which shall be kept both on land and on barges (if used). The following includes a list of standard items that shall be available on each site as needed:
    - Resistant gloves;
    - Coveralls;
    - Petroleum absorbent socks, pillows, and diapers;
    - Chemical resistant disposal bags; and
    - Department of Transportation labels.
    - Material Safety Data Sheets ("MSDSs") are available on site with the contractor.

14. In addition to items listed above, spill kits shall be available at strategic locations. The purpose of the spill kit is to be prepared to clean up liquid releases of hazardous materials such as hydraulic oil and motor oil from parked trucks and vehicles or paints, solvents, or fuels. Burst hydraulic lines are a common source of pollution from heavy vehicles.

    At a minimum, spill kits shall contain the following items:
    - Absorbent spill pads and socks;
    - Absorbent material (e.g., solvent absorbent, vermiculite, etc.);
    - Hydrophobic mop (i.e., a mop that absorbs oil, but not water);
    - Safety gloves (that are appropriate for oils and other petroleum);
    - 5 – 20 gallon bucket/drum with lid; and
    - Drum labels and writing instrument.

    Any spill shall be controlled using the following measures:
    - Store all materials with secondary containment;
    - Use secondary containment with drip reservoirs for dispensers;
    - Place absorbent pads or drip pans under equipment that contains fluids;
    - Keep a properly sized spill kit in all areas with the potential for leaks;

- Stock spill prevention equipment and spill cleanup kits at various locations around the project site;
- At a minimum, provide oil-absorbent mats for all equipment;
- Place secondary containment for any stationary equipment that needs to be within the setback area for streams, wetlands, or drainages; and
- Have absorbent pads and spill kits handy whenever hazardous materials are being used near surface water during construction.

PART 2 - PRODUCTS

(Not Used)

PART 3 - EXECUTION

(Not Used)

END OF SECTION

SECTION 01 57 26
TEMPORARY PROTECTION OF CATCH BASINS AND STORM DRAIN INLETS

PART 1—GENERAL

1.01 DESCRIPTION

A. Documenting and protecting catch basins and storm drain inlets as incidental work.

1.02 RELATED SECTIONS

A. 01 71 33 - Protection of Adjacent Construction

B. 02 41 00 - Demolition

C. 31 23 19 - Dewatering

D. 31 23 33 - Trenching and Backfilling

E. 32 01 16.71 - Cold-Milling Asphalt Paving

F. 32 12 16 - Asphalt Paving

PART 2—PRODUCTS

2.01 MATERIALS

A. Contractor shall provide all labor and materials necessary to protect debris from entering the sewer system.

PART 3—EXECUTION

3.01 PREPARATION

A. The Contractor shall photograph all catch basins within the limits of work. Each catch basin shall have at least two photos, one from the top view and one from the side view along the flow line. Refer to Section 01 71 33-1.6B.

B. Contractor shall notify the City Representative of any clogged catch basin or storm water inlet immediately upon discovery.

1. Call SFPUC Sewer Operations at 415-695-2096 to report catch basins or storm water inlets containing debris in the barrels and/or cast iron traps.

3.02 DRAINAGE PROTECTION

A. Contractor shall be responsible for protecting and keeping in operation all storm water inlets and catch basins throughout the entire project site for the duration of the project until Final Acceptance.

B. Contractor shall take adequate measures to prevent the impairment of the operation of the sewer system. Contractor shall prevent construction material, pavement, concrete, earth, paints, thinner, solvents, and other debris or toxic material from entering a sewer or sewer structure including surface flow collection system, such as catch basins and culverts.

C. Prior to the final inspection and acceptance, the Contractor shall check all storm water inlets and catch basins within the project limits for debris.

END OF SECTION

SECTION 01 60 00

PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 INCLUDED WORK

A. Section includes procedures and requirements for material and equipment.

1.2 PRODUCTS

A. Material and equipment incorporated in the Work shall be new, unless otherwise specified or indicated; in a condition acceptable to the City; and suitable for the use intended.
   1. Products may also include existing materials or components required for reuse.

B. No material or equipment shall be used for any purpose other than that for which it is designed, specified, or indicated.

1.3 QUALITY ASSURANCE

A. Include within Contractor's quality assurance program procedures for full protection of work and materials.

1.4 MANUFACTURER'S SERVICES

A. Require material suppliers and product manufacturers to provide site representation on the request of the City for qualifying and verifying the use of their materials for the project purpose and conditions. Refer to Section 01 33 00 - Submittal Procedures for submittal requirements regarding manufacturer's instructions and certificates of satisfactory installation.

1.5 MANUFACTURERS' RECOMMENDATIONS

A. Except as otherwise approved by the City, determine and comply with manufacturers' recommendations on product handling, storage, and protection.

1.6 DELIVERY

A. Transport and handle products in accordance with manufacturer's instructions.

B. Transport and deliver manufactured products, undamaged, in manufacturer's original, unbroken containers or packaging, clearly identified with manufacturer's name, product name, and instructions.

C. Handle products to avoid soiling and damaging the products and their packaging.

D. Immediately upon delivery, inspect shipments to assure compliance with the Contract Documents and reviewed submittals, and to verify that products are undamaged and properly protected from potential damage.
   1. Undamaged products shall be delivered to the project site in manufacturer's sealed containers or wrappings with legends and labels intact. Maintain packaged materials with seals unbroken and labels intact until time of use.
   2. Promptly remove damaged material and unsuitable items from the job site, and

promptly replace with material meeting the specified requirements at no increase in Contract Sum.

3. Unsuitable materials and products not removed promptly from the job site by Contractor may be removed by the City. Removal costs shall be paid by Contractor.
4. Identify materials and equipment delivered to the site to permit checking against Submittals and Shop Drawings.

E. The City may reject as non-complying such material and products that do not bear identification satisfactory to the City as to manufacturer, grade, quality, and other pertinent information.

1.7 STORAGE

A. Store materials and equipment at the site at Contractor's own risk. Because of location and visibility, on site storage shall be limited to materials and equipment currently being utilized or installed.

B. Provide off-site storage and protection when site does not permit on-site storage or protection.

C. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible.

D. Store sensitive products in weather tight, climate controlled enclosures.

E. Store fabricated products above the ground, on blocking or skids, to prevent soiling and staining of the products.

F. Provide off-site storage and protection when site does not permit on-site storage or protection.

G. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation or potential degradation of product.

H. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

I. Arrange storage to facilitate inspection of products. Periodically inspect stored products to assure that products are maintained under specified conditions and free from damage and deterioration.

J. Store products subject to damage from the elements in weather tight enclosures, maintaining temperature and humidity within the ranges specified by the manufacturers.

K. Provide coverings as necessary to protect installed products from damage from traffic and construction operations; remove coverings when no longer needed.
   1. Take care to use protective covering and blocking materials which do not soil, stain, or damage materials being protected.

1.8 HANDLING

A. Use means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of other trades.
   1. Protect finished surfaces, including jambs and soffits of openings used as passageways, through which equipment and materials are handled.

2. Provide protection for finished floor surfaces in traffic areas prior to allowing equipment or material to be moved over such surfaces
3. Maintain finished surfaces clean, unmarred, and suitably protected until accepted by the City.

B. Clean exposed materials at the time of acceptance of the installation for Substantial Completion.

1.9 REPAIRS AND REPLACEMENTS

A. Promptly replace lost or damaged materials and equipment with replacements of like kind and quality or repair them at no additional cost to the City.

B. Damage to any of the work and premises prior to acceptance by the City is the responsibility of Contractor. Should any new equipment become damaged, restore it to its original condition, and finish before final acceptance. Replace or repair damage to City property and to the work of other Divisions, caused by the work of this Division at the expense of, Contractor and to the City's satisfaction.

C. Additional time required to secure replacements and to make repairs will not justify an extension in the contract time of completion.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 71 23

FIELD ENGINEERING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements and procedures for field engineering services to establish elevations and slopes required to layout the proposed design.

1.2 RELATED SECTIONS

A. Section 01 77 00 - Closeout Procedures: Project Record Documents.

1.3 QUALITY CONTROL

A. The Contractor shall employ a civil engineer or land surveyor registered in the State of California and acceptable to the City Representative to perform site surveying under the Contract Documents.

B. The Contractor shall submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

1.4 SUBMITTALS

A. Submit name, address, and telephone number and state registration number of the Surveyor before starting survey work.

B. Submit a copy of site drawing, and a certificate that the elevations and locations of the Work are in conformance with Contract Documents, all prepared, stamped and signed by the surveyor.

1.5 PROJECT RECORD DOCUMENTS

A. Maintain a complete and accurate log of control and survey work as it progresses.

B. Submit Record Documents under provisions of Section 01 77 00 - Closeout Procedures.

1.6 EXAMINATION

A. Verify locations of survey control points prior to starting work.

B. Promptly notify the City Representative in writing of any discrepancies discovered.

1.7 SURVEY REFERENCE POINTS

A. Control datum for survey is that established by City provided survey. The Contractor shall use the City of San Francisco benchmarks. Benchmark information is available from the Bureau of Street Use & Mapping at 1155 Market Street, 3rd Floor, Telephone (415) 554-5827.

B. Contractor to locate and protect survey control points prior to starting site work; preserve permanent reference points during construction.

C. Promptly report to City Representative the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

D. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to City Representative.

1.8 SURVEY REQUIREMENTS

A. Provide field-engineering services, using recognized engineering survey practices.

B. Establish a minimum of one permanent benchmark on site, referenced to established control points. Record locations with horizontal and vertical data on Project Record Documents.

C. Establish elevations, lines and levels. Locate and layout by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for irrigation work.

D. Periodically verify layouts by same means.

1.9 FIELD LAYOUT

A. Dimensions, radii, etc., shown on the Drawings for field layout are approximate and are subject to adjustments to accommodate field conditions; smoothness of alignment and profiles supersede dimensions shown. Layout shall be done by the Contractor at its own expense and shall be approved by the City Representative prior to the start of any construction.

1.10 ELEVATION CONTROL

A. Comply with ADAAG's 5% or less grade requirement for landscape work and pathways.

1.11 LINE AND GRADE FOR THE WORK

A. The City will furnish the Contractor information on Monuments that will be used for line control and on Benchmarks, including City Datum elevations, which will be used for elevation control. All other lines and grades required for the completion of the work according to the plans shall be the responsibility of the Contractor and shall be obtained by him as Incidental Work. The City reserves the right to make minor line and grade changes of uncompleted work at any time before or after start of construction without claim by the Contractor for extra payment.

B. A copy of the Contractor's survey notes shall be given to the City Representative weekly.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 71 33

PROTECTION OF ADJACENT CONSTRUCTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section includes requirements for protection of existing facilities and improvements.

1.2 RELATED SECTIONS

A. Section 00 73 20 – Existing Utility Facilities

B. Section 01 50 00 –Temporary Facilities and Controls

1.3 EXISTING UTILITIES AND IMPROVEMENTS

A. Notify Underground Service Alert (USA) prior to excavating in the public right of way areas so that utility companies may be advised of the work and may field mark or otherwise protect and warn the Contractor of their existing utility lines. Contact USA, telephone 1-800-227-2600, or refer to USA website for more information at: http://www.usanorth.org/.

1. Provide reasonable access and do not hinder or otherwise interfere with any company or agency having underground facilities in removing, relocating, or protecting such facilities.

B. Verify the actual locations and depths of all utilities indicated or field marked. Make a sufficient number of exploratory excavations up to a maximum of eight potholes at Contractor's expense of all utilities that may interfere with the work sufficiently in advance of construction to avoid possible delays to Contractor's work.

1. Notify the City if such exploratory excavations show the utility location as shown or as marked to be in error.
2. When utility lines are encountered within the area of Contractor's operations, notify the City Representative and the owner(s) of the utility lines sufficiently in advance for the necessary protection measures to be taken to prevent interruption of service or delay to Contractor's operations.

C. The Contractor shall protect all existing utilities, facilities, and structures, public or private, and will be held responsible for all damage caused by the Contractor not exercising due care to avoid such damage.

D. Overhead Contact System: Work on or under the overhead contact system shall be performed with lines and feeders energized unless shutdown of the system is granted. Notify the City Representative at least 10 days prior to performing work on energized overhead trolley wires, feeder circuits, or at substations, so that the City Representative may arrange for any necessary clearances and inspections.

1. Contractor is alerted to the condition that overhead trolley wires and feeder cables distribute electrical energy at up to 700 Volts dc. Comply with the "High Voltage" provisions of the California Code of Regulations (Title 8, Division 1, Chapter 4, and Subchapter 5).
2. Take precautions to avoid accidents and damage to the overhead contact wires, and riser and feeder cables.

E. Survey Monuments and Bench Marks: Contractor shall bring to the attention of the City Representative all survey monuments, bench marks, property line marks and the like, encountered on the work. Survey monuments, bench marks, or other survey marks or points shall not be removed or disturbed until referenced or relocated by the City Representative or other agency or party having an interest therein, and then removed only at the time and in the manner specifically approved by the City Representative. The contractor shall bring all City monument frames within the limits of the work to grade, with the express provision that any and all work associated with the removal and relocation of such frames, with their covers, shall be under the direct supervision of the City Representative, and all such work shall be considered Incidental Work. The cost of re-establishing and resetting survey monuments, bench marks or other survey marks or points lost or destroyed through the carelessness or negligence of, or inadvertently by, the Contractor or his employees, shall be at the sole expense of the Contractor.

1.4 SAFEGUARDING OF EXISTING FACILITIES

A. The Contractor shall perform all work, including dewatering operations, in such a manner as to avoid damage to existing fire hydrants, power poles, lighting standards, and all other existing utilities, facilities, trees and vegetation, and structures. The Contractor will be held responsible for any damage due to its failure to exercise due care.

B. Broken concrete, debris, etc., shall be immediately removed from the property site as the Contractor's property and shall be disposed of in a legal manner.

C. The Contractor shall take adequate measures to prevent the impairment of the sewer system and to prevent construction material, pavement concrete, earth or other debris from entering a sewer, sewer structures, catch basin, or storm water inlet. The Contractor shall restore damaged utilities and facilities to a condition equal to or better than they were prior to such damage.

1.5 RESTORATION OF PAVEMENT

A. General: All paved areas cut or damage during construction shall be replaced with similar materials and of equal thickness to match the existing undisturbed areas, except where specific resurfacing requirements are called for in the Contract Documents or in the permit requirements of the agency issuing the permit. All pavements which are subject to partial removal shall be neatly saw cut in straight lines.

B. Temporary Resurfacing: Whenever required by the public authorities having jurisdiction, place temporary surfacing promptly after backfilling and maintain such surfacing in a satisfactory condition for the period of time before proceeding with the final restoration.

C. Permanent Resurfacing: Damaged edges of pavement along excavations and elsewhere shall be trimmed back by saw cutting in neat straight lines. All pavement restoration shall be constructed to finished grades compatible with undisturbed adjacent pavement.

D. Restoration of Sidewalks or Driveways: Wherever sidewalks, curbs and gutters, or driveways have been removed for construction purposes, place suitable temporary sidewalks, curbs and gutters, or driveways promptly after backfilling and maintain them in satisfactory condition for the period of time before the final restoration is been made.

1.6 JOINT SURVEY TO ESTABLISH AUTHENTICITY OF POSSIBLE CLAIMS

A. The Contractor shall use such methods and shall take adequate precautions to prevent damage to existing buildings, structures, and other improvements during the prosecution of the work.

B. The Contractor shall retain an experienced photographer to perform preconstruction examination and, if necessary, post-construction survey of all nearby structures, including **photographs of all catch basins within the limit of work and nearby intersections. Each catch basin shall have at least two photos, one from the top view, and one from the side view along the gutter line.** The survey shall be made using digital still photographs or digital videos saved to compac discs. The survey shall be considered incidental work and no separate payment will be made therefor.

C. After the Contract is awarded and before the commencement of work, the City Representative will arrange for a joint examination of existing buildings, structures and other improvements in the vicinity of the work, as applicable, which might be damaged by the Contractor's operations.

D. The examination of the exterior of existing buildings, structures, and other improvements located within twenty-five (25) feet of the construction excavation will be made jointly by authorized representatives of the Contractor, the City, and property owners under the supervision of the City Representative. The scope of each examination shall include, but is not limited to, recording of cracks in structures, settlement, leakage and the like.

E. Records in duplicate of all observations will be prepared by the photographer, including photographs on compact discs as required. One copy shall be delivered to the Contractor, and one copy will be kept on file at the office of the City Representative. The photographer may be required to attest to the fact that he took the pictures; however, in no case, will he determine the cause cracks, settlement, leakage, or like condition nor is he being retained for the purpose of engineering evaluation.

F. The above records and photographs are intended for use as indisputable evidence in ascertaining the extent of any damage which may occur as a result of the Contractor's operations and are for the protection of the adjacent property owners, the Contractor, and the City, and will be a means of determining whether and to what extent damage, resulting from the Contractor operations, occurred during the Contract Work.

1.7 UNFORESEEN EXISTING UTILITIES

A. Refer to Section 00 73 20 – Existing Utility Facilities, Paragraph 1.3.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 73 29

CUTTING AND PATCHING

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Requirements and limitations for cutting and patching of Work.

1.2 RELATED SECTIONS

A. Section 01 11 00 – Summary of Work

B. Section 01 31 13 – Project Coordination

C. Section 01 25 13 – Product Substitution Procedures

1.3 DEFINITION

A. "Cutting and Patching" is defined to include the cutting and patching of nominally completed and previously existing concrete, steel, wood and miscellaneous metal structures; piping; and pavement in order to accommodate the installation and coordination of work required under the Contract Documents, to uncover facilities and structures for access or inspection, or to obtain samples for testing or similar purposes.

1.4 REQUIREMENTS OF STRUCTURAL WORK

A. Do not cut and patch structural work in a manner resulting in a reduction of load-carrying capacity or load/deflection ratio.

B. Prior to cutting and patching the following categories of work, obtain the City Representative's approval to proceed:
   1. Structural concrete
   2. Structural steel
   3. Foundation construction
   4. Bearing and retaining walls
   5. Structural decking
   6. Timber and primary wood framing
   7. Miscellaneous structural metals, including equipment supports, stair systems, and similar categories of work
   8. Pressurized piping, tanks and vessels

1.5 OPERATIONAL AND SAFETY REQUIREMENTS

A. Do not cut and patch operational elements and safety-related components in a manner resulting in a reduction of capacities to perform in the manner intended or resulting in decreased operational life, increased maintenance, or decreased safety.

B. Obtain the City Representative's approval to proceed prior to cutting and patching the following categories of work:
   1. Sheeting, shoring, and cross bracing
   2. Operating systems and equipment
   3. Water, moisture, vapor, air, smoke barriers, membranes and flashings
   4. Noise and vibration control elements and systems

5. Control, communication, conveying and electrical wiring systems

1.6 SUBMITTALS

A. Submit written request in accordance with Section 01 33 00 in advance of cutting or alteration which affects:
   1. Structural integrity of any element of project work or retained adjoining structure.
   2. Integrity of weather-exposed or moisture-resistant element.
   3. Efficiency, maintenance, or safety of any operational element.
   4. Work of City or separate contractor.
   5. Visual qualities of sight exposed elements.

B. Request shall include the following:
   1. Identification of project work.
   2. Location and description of affected work.
   3. Necessity for cutting or alteration.
   4. Description of proposed work, and products to be used including:
      a. Scope of cutting, patching, alteration or excavation.
      b. Trades to execute work.
      c. Products proposed to be used.
      d. Extent of refinishing to be included.
      e. How structural elements will be reinforced.
   5. Cost proposal, when applicable.
   6. Alternatives to cutting and patching.
   7. Effect on work of City or separate contractor, or on structural or weatherproof integrity of retained structures or work.
   8. Written permission of affected separate contractor.
   9. Date and time work will be uncovered or executed.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Except as otherwise indicated, provide materials for cutting and patching which will result in equal or better work than the work being cut and patched in terms of performance characteristics and including visual effects where applicable. Use material identical with the original materials where feasible.

B. Primary Products: Materials shall comply with the requirements of the Technical Specifications and Drawings or those required for original installation where applicable.

C. Product Substitution: For any proposed change in materials, submit request for substitution under provisions of Section 01 25 13.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Inspect existing conditions prior to commencing Work, including elements subject to damage or movement during cutting and patching.

B. After uncovering existing work, inspect conditions affecting performance of work.

C. Beginning of cutting or patching means acceptance of existing conditions.

D. Report unsatisfactory or questionable conditions to the City Representative in writing; do not proceed with work until City Representative has provided further instructions.

3.2 PREPARATION

A. Provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect other portions of work from damage.

B. Provide protection from elements for areas which may be exposed by uncovering work.

C. Maintain excavations free of water.

3.3 INSTALLATION

A. Employ skilled tradesmen to perform cutting and patching. Except as otherwise indicated, proceed with cutting and patching at the earliest feasible time and perform the work promptly.

B. Use methods least likely to damage work to be retained and work adjoining.
1. In general, where physical cutting action is required, use sawing and grinding tools and not hammering and chopping tools. Openings through concrete work shall be core drilled.
2. Comply with the requirements of the Technical Specifications and Drawings wherever applicable.
3. Comply with requirements of the applicable sections of Division 2 where cutting and patching requires excavating and backfilling.

C. Patch with seams which are not visible and comply with specified tolerances for the work.

D. Restore exposed seams of patched area; and, where necessary, extend finish restoration onto retained work adjoining, in a manner which will eliminate evidence of patching.

END OF SECTION

SECTION 01 74 50

CONSTRUCTION & DEMOLITION DEBRIS RECOVERY PLAN
(ver. 7/9/2014)

PART 1 - GENERAL

1.1 SUMMARY

A. In October 16, 2006, the San Francisco Mayor issued Executive Directive 06-05 requiring all Construction Contracts to divert 75% of construction and demolition debris from landfill disposal sites. This directive is supported by existing policies that require reuse, recycling, and management of construction and demolition debris. Some of these policies are described below.

B. The City and County of San Francisco adopted an ordinance (No. 27-06) that creates a mandatory program to maximize the recovery of all construction and demolition debris material.
   1. The Ordinance requires that mixed construction and demolition debris material be transported off-site by a Registered Transporter and taken to a Registered Facility that can process and divert from landfill a minimum of 65% of the material generated from construction, demolition or remodeling projects.
   2. Material source separated at the job site should be taken to a facility that reuses or recycles such material.
   3. This ordinance applies to all construction projects within the City and County of San Francisco, such as new construction, remodels, tenant improvements, additions, repairs, and full and partial demolitions.
   4. This ordinance prohibits any construction and demolition debris from being placed in trash or sent to a landfill.

C. Chapter 7 of the San Francisco Environment Code requires the Contractor to prepare and submit a Construction and Demolition Debris Management Plan, Construction and Demolition Debris Recovery Monthly Summary of Diversion Reports, and Construction and Demolition Debris Recovery Final Diversion Report in accordance with the submittal requirements specified below (Paragraphs 1.5, 1.6 and 1.7). This requirement applies to all Construction and/or Demolition Projects at City-owned Facilities and City leaseholds, located within the nine counties surrounding the San Francisco Bay, regardless of the size of the project.

D. Chapter 5 of the San Francisco Environment Code requires the Contractor to reduce wastes by maximizing the use of recycled content materials, recycling, and reuse. Failure of the Contractor to comply with any of its requirements shall be deemed a material breach of contract.

E. The Mandatory Recycling and Composting Ordinance, Chapter 19 of the San Francisco Environment Code, requires that all persons in San Francisco must source separate their refuse into recyclables, compostables and trash, and place each type of refuse in a separate container designated for disposal of that type of refuse. No person may mix recyclables, compostables or trash, or deposit refuse of one type in a collection container designated for another type of refuse.

F. California Integrated Waste Management Act of 1989 (AB 939) established the procedures for the Highest and Best Use practices to reduce, recycle, and reuse materials.

G. State regulations require that Universal Wastes and Treated Wood Wastes be handled and disposed of in accordance with the requirements of the California Department of Toxic Substances Control and all applicable laws.

H. Contractor shall perform all work and meet all requirements in this Section at no additional cost to the City.

1.2 REFERENCES

A. Mayor's Executive Directive 06-05, Recycling and Resource Conservation, October 16, 2006.

B. San Francisco Ordinance No. 27-06 (Construction and Demolition Debris Recovery Ordinance) with effective date on July 1, 2006.

C. San Francisco Environment Code, Chapter 5, Resource Conservation Ordinance.

D. San Francisco Environment Code, Chapter 7, Green Building Requirements for City Buildings.

E. San Francisco Environment Code, Chapter 19, Mandatory Recycling and Composting.

F. California Integrated Waste Management Act of 1989 (California Public Resources Code 40000 et. seq.) - Assembly Bill 939.

G. Leadership in Energy and Environmental Design (LEED) for New Construction, Version 2009, or more recent version of LEED, US Green Building Council.

H. Universal Waste information from the following website: http://www.ciwmb.ca.gov/HHW/Uwaste/

I. Treated Wood Waste Fact Sheet from the following website: http://www.dtsc.ca.gov/HazardousWaste/Treated_Wood_Waste.cfm

J. San Francisco Board Of Supervisors Resolution Nos. 530-04 and 679-02 establishing a zero waste goal.

K. Food Service Waste Reduction Ordinance as set forth in San Francisco Environment Code Chapter 16.

L. Refuse Collection and Disposal Ordinance, adopted November 8, 1932.

1.3 DEFINITIONS

A. Alternative Daily Cover (ADC): Materials, other than soil, that have been approved by the California Department of Resources Recycling and Recovery ("CalRecycle") or a successor agency for use as a temporary overlay on an exposed landfill face.

B. Beneficial Reuse: The reuse of material at a landfill that does not include ADC but shall include, but not be limited to, use of the material for or as the following: alternative intermediate cover; final cover foundation layer; liner operations layer; leachate and landfill gas collection system; construction fill; road base; wet weather operations pads and access roads; and, soil amendments for erosion control and landscaping. "Beneficial reuse" does not include disposal of material at a landfill.

C. BioMass Energy Generation: the controlled combustion, when separated from other solid waste and used for producing electricity or heat, of wood, wood chips, wood waste, and tree and brush prunings. "Bio-mass Energy Generation" does not include the controlled combustion of recyclable pulp or recyclable paper materials, or medical or hazardous waste.

D. City-owned Facility: any building owned by the City and County of San Francisco. "City-owned Facility" includes City-owned facilities or portions thereof that the City leases to non-City entities.

E. City Leasehold: A building or portion thereof owned by others where the City and County of San Francisco is a tenant.

F. City Representative: The employee of San Francisco who oversees the construction and/or demolition process for a City construction and/or demolition project and is responsible for ensuring that the contractor complies with all aspects of the contract documents.

G. Compostable: Any material that can be broken down into, or otherwise become part of, usable compost (e.g., soil-conditioning material) in a safe and timely manner as accepted in San Francisco's compostables collection program, such as food scraps, soiled paper and plant trimmings.

H. Construction and Demolition Debris or C&D Debris: Building materials and solid waste generated from construction and demolition activities, including, but not limited to, fully cured asphalt, concrete, brick, rock, soil, lumber, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, fixtures, plastic pipe, metals, tree stumps, and other vegetative matter resulting from land clearing and landscaping for construction, deconstruction, demolition or land developments. This term does not include refuse regulated under the 1932 Refuse Collection and Disposal Initiative Ordinance or sections of the Municipal Code that implement the provisions of that ordinance or materials from the public right-of-way. Hazardous waste, as defined in California Health and Safety Code section 25100, et seq., as amended, is not Construction and Demolition Debris.

I. Construction Project: Any building, planning or construction activity, including demolition, new construction, major alteration, or building additions by a City department at a City-owned Facility or a City Leasehold.

J. Contractor: The company or person to whom the City awards a contract for a construction and/or demolition project. The Contractor is responsible for complying with all aspects of this Specifications Section and for ensuring that all subcontractors, lower-tier subcontractors and suppliers also comply.

K. Disposal: The final deposition of material at a legally operating permitted landfill that does not include beneficial reuse or at a permitted transformation facility. A legally operating, permitted landfill includes Class III landfills and inert fills. Disposal of inert materials at inert fills or inert backfill sites does not constitute recycling.

L. Diversion: Use of material for any purpose other than disposal in a landfill or transformation facility, such as source reduction, reuse, recycling, and composting activities that do not result in material being disposed at permitted landfills and transformation facilities.

M. Hazardous Waste: Hazardous waste is a waste with properties that make it potentially dangerous or harmful to human health or the environment. The universe of hazardous wastes is large and diverse. Hazardous wastes can be liquids, solids, or contained gases. They can be the by-products of manufacturing processes, discarded used materials, or discarded unused commercial products, such as cleaning fluids (solvents) or pesticides. In regulatory terms, a hazardous waste is a waste that appears on one of the four RCRA hazardous wastes lists (the F-list, K-list, P-list, or U-list) or that exhibits one of the four characteristics of a hazardous waste - ignitability, corrosivity, reactivity, or toxicity. However, materials can be hazardous wastes even if they are not specifically listed or don't exhibit any characteristic of a hazardous waste. For example, "used oil," products which contain materials on California's M-list, materials regulated pursuant to the mixture or derived-from rules, and contaminated soil generated from a "clean up" can also be hazardous wastes. The State Department of Toxic Substances Control offers assistance on this complex topic through its Regulatory Assistance Office. Call 1-800-728-6942 (from within California) or (916) 255-3618 (from out-of-state) or email RAO@dtsc.ca.gov

N. Inert Fill Facility: A facility that can legally accept inert waste such as asphalt and concrete exclusively for the purpose of disposal.

O. Landfill: A facility that (i) accepts for disposal in or on land non-hazardous waste such as household, commercial, and industrial waste, and waste generated during construction, remodeling, repair and demolition operations, and (ii) has a valid current solid waste facilities permit from the California Department of Resources Recycling and Recovery (CalRecycle).

P. Mixed Construction and Demolition Debris Material, or Mixed C&D Debris Material, or Mixed C&D Debris: means Construction and Demolition Debris or C&D Debris, but excluding materials source-separated for reuse or recycling.

Q. Person: A natural person, a firm, joint stock company, business concern, association, partnership or corporation or, to the extent permitted by law, governmental entity, including the City and County of San Francisco and its departments, boards and commissions for projects within the nine counties surrounding the San Francisco Bay, and its or their successors or assigns.

R. Recover or Recovery: Any activity, including source reduction, deconstruction and salvaging, reuse, recycling and composting, which causes materials to be recovered for use as a resource and diverted from disposal.

S. Recyclable Material: Any material or product separated or capable of being separated at its point of discard or from the solid waste stream for utilization as a raw material in the manufacture of a new product.

T. Recycling: The process of collecting, sorting, cleansing, treating, and reconstituting materials that would otherwise become solid waste, and returning them to the economic mainstream in the form of raw material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace. Recycling does not include burning, incinerating, or thermally destroying solid waste.

U. Recycling Facility: An operation or person that collects and processes materials for recycling.

V. Registered Transporter: Anyone who is hired to remove Mixed Construction and Demolition Debris Material from a construction and/or demolition site in San Francisco, using a vehicle with more than two axles or two tires per axle (such as a large pickup

truck with four tires on the rear axle or three-axle dump trucks) and is hauling at least one (1) cubic yard of Mixed Construction and Demolition Debris Material and holds a valid registration from the City and County of San Francisco pursuant to Chapter 14 of the Environment Code. A Registered Transporter is obligated to take all mixed material only to a Registered Facility.

W. Registered Facility: Any facility that accepts Mixed Construction and Demolition Debris Material for processing and recycling and holds a valid registration issued by the City and County of San Francisco pursuant to Chapter 14 of the Environment Code.

X. Reuse: Making new use of a material without altering its form.

Y. Source Reduction: Any action which causes a net reduction in the generation of solid waste. Source reduction includes, but is not limited to, reducing the use of non-recyclable materials, replacing disposable materials and products with reusable materials and products, reducing packaging, reducing the amount of yard wastes generated, establishing garbage rate structures with incentives to reduce waste tonnage generated, and increasing the efficiency of the use of paper, cardboard, glass, metal, plastic, and other materials.

Z. Source-Separated Materials: Materials that have been separated or kept separate from the solid waste stream, at the point of generation, for the purpose of reuse, recycling or composting in order to return them to the economic mainstream in the form of raw material for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace.

AA. Solid Waste: Materials designated as non-recyclable and discarded for the purposes of disposal.

BB. Universal Waste (CCR Title 22, Division 4.5, Chapter 23): Certain specified hazardous wastes that are more common and pose a lower risk to people and the environment than other hazardous wastes. Universal wastes are handled with reduced management requirements. Examples of universal waste: batteries, fluorescent tubes (lamps), electronic devices (cell phones, computers, televisions), cathode ray tubes (CRTs), mercury wastes (thermometers and toys), and non-empty aerosol cans.

CC. Treated Wood Waste (CCR Title 22, Division 4.5, Chapter 34): Dimensional lumber and other wood products which have been removed from service and were treated with preserving chemicals that protect the wood from insect attack and fungal decay during its use. Examples include fence posts, sill plates, landscape timbers, pilings, railroad ties, guardrails, and decking. Treated Wood Waste is a hazardous waste in California and must be managed according to specific regulations.

1.4 GENERAL REQUIREMENTS

A. Diversion Goal: In order to meet the City's zero waste goal, the goal for this contract is to divert 75% of the Construction and Demolition Debris material from landfill disposal through waste prevention, reuse, and recycling. If a construction site contains hazardous wastes and/or universal wastes, the 75% diversion requirement should pertain to all non-hazardous waste material. No Construction and Demolition Debris material shall be disposed in garbage or taken to landfill.

B. In order for construction and/or demolition debris to be considered hazardous, such as containing asbestos or lead, it shall be evaluated and determined to be hazardous by an independent professional such as a Cal/OSHA Certified Asbestos Consultant. The waste determination and other verification shall be included with the C&D Debris

Management Plan (refer to Paragraph 1.5 below), together with a list of hazardous materials found at the project site and plans for proper disposal.

C. If material at the jobsite is deemed hazardous after the project commences, complete Form A (Request to Send Construction & Demolition Debris Material Directly to Landfill), together with official documentation as noted above in subparagraph B and send signed form to City Representative and to San Francisco's Department of the Environment (SFE) for possible approval.

D. All Hazardous Wastes, including Universal Wastes and Treated Wood Waste, shall be documented separately, and a summary of all manifests or other disposal documentation, including material description and weights, shall be provided to the City Representative.

E. Highest and Best Use: The Contractor shall employ the following hierarchy of highest and best use for handling Construction and Demolition Debris as follows:
1. Implement reduced material usage or reuse of materials before any recycling;
2. Implement recycling or reuse of source-separated material before any recycling of Mixed Construction and Demolition Debris Material;
3. Implement recycling of Mixed Construction and Demolition Debris Material before all other forms of disposal.

F. Recycling Requirements:

1. Source Separated Materials: The Contractor shall develop and implement procedures for source-separation, to the greatest extent feasible, of the following types of recyclable or reusable materials:
   a. Asphalt.
   b. Acoustical ceiling tiles.
   c. Bricks, stone(s), granite, and other finished stone-type materials.
   d. Carpet and padding.
   e. Concrete, concrete block, slump stone (decorative concrete block).
   f. Corrugated cardboard.
   g. Dimensional lumber and beams.
   h. Fixtures, hardware, doors, and windows.
   i. Metal, ferrous and non-ferrous.
   j. Mixed Inerts.
   k. Rigid plastic.
   l. Soil/dirt/rock.
   m. Trees, Landscape Debris, cleared vegetation and cut-off or other wood scraps.
   n. Wall board, gypsum sheetrock.
   o. Other: describe.
2. Mixed Construction & Demolition Debris Material:
   a. For projects within the legal and geographical boundaries of the City and County of San Francisco, Mixed C&D Debris Material must be taken to a Registered Facility by a Registered Transporter, per Environment Code 14. The diversion rate for Mixed C&D Debris Material taken to one of San Francisco's Registered Facilities is 65%.
   b. For projects outside San Francisco, the diversion rate for Mixed C&D Debris Material is 65% if taken to one of San Francisco's Registered Facilities; if taken to a non-registered facility the diversion rate approved by the local jurisdiction will be used, and official documentation of the diversion rate approved by the local jurisdiction must be provided by the Contractor. If a facility does not have a locally approved recycling rate, the diversion rate is calculated as zero.
3. Handling Of Recyclable Materials:

a. The Contractor shall assure that recyclable or reusable materials be free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process. The Contractor shall clean materials that are contaminated before placing it in collection containers.
b. The Contractor shall arrange for collection of reusable and recyclable materials by or delivery to the appropriate reuse and/or recycling centers for purposes of reuse and/or recycling.
c. All Mixed C&D Debris material from projects in San Francisco must be taken to a Registered Facility authorized to process the material, and it must be hauled by a Registered Transporter.

4. No Construction and Demolition Debris shall be burned, buried or otherwise disposed of on the project site.

G. The Contractor is prohibited from sending any C&D debris material directly to landfill or to any facility that would incinerate or otherwise process such debris using high temperature technology without submitting a written request to and receiving approval from the San Francisco Department of the Environment; see Form A and Form B.

H. Requirements only for Construction Contracts within the legal and geographical boundaries of the City and County of San Francisco:

1. Registered Transporters and Registered Facilities: Only Registered Transporters can remove mixed construction and demolition debris from a construction and/or demolition site, and they must take this material to a Registered Facility. Materials source separated at the job site should be taken to an appropriate recycling or reuse facility.
   a. For a list of Registered Facilities and Registered Transporters refer to the website: www.SFEnvironment.org/c&d
   b. Diversion rate for mixed C&D debris material taken to Registered Facilities is 65%.

2. Full Demolition Requirements: Contractor conducting full demolition of an existing structure must submit a Demolition Debris Recovery Plan (DDRP) to the San Francisco Department of the Environment (SFE).
   a. The DDRP must demonstrate a minimum of 65% diversion from landfill of demolition debris, including materials source separated for reuse or recycling.
   b. The DDRP must be submitted to and approved by SFE before the Department of Building Inspection will issue a Full Demolition Permit.
   c. This requirement does not apply to City construction contracts outside of the legal and geographical boundaries of the City and County of San Francisco.
   d. The DDRP is available at the following website: www.SFEnvironment.org/c&d

I. Mixed Construction & Demolition Debris material from projects outside the legal and geographical boundaries of the City and County of San Francisco must be taken to a Recycling Facility that processes the material to achieve maximum recycling. If the facility is a San Francisco Registered Facility the diversion rate is 65%. If the material is taken to a facility not registered with San Francisco, the local jurisdiction's recycling rate for that facility shall be used provided official documentation from the local jurisdiction is attached to all submittals as required in Paragraphs 1.5, 1.6 and 1.7. If a facility does not have a local approved recycling rate, the diversion rate is calculated as zero.

J. Universal Wastes: Contractor shall handle and dispose of all hazardous waste, including "Universal Wastes," in accordance with the requirements of the California Department of Toxic Substances Control (DTSC). Refer to DTSC website: www.dtsc.ca.gov . In general, universal waste may not be discarded in solid waste landfills or with non-hazardous

wastes collected for recycling or composting. Contractor shall comply with all hazardous waste regulations, including, but not limited to, the following:

1. Universal wastes shall be stored in containers so that they do not spill, leak, break, or are released into the environment.
2. Label or mark universal wastes, or their containers, to identify their types.
3. Send all universal waste to a facility authorized to collect, recycle or dispose of universal waste.
4. Do not dispose of universal waste in the trash.
5. Do not accumulate more than 5,000 kilograms of universal waste at any one time.
6. Train employees in proper universal waste management including handling, packaging, storing and labeling the universal waste, as well as how to respond to releases. This training may be accomplished by simply giving employees written instructions about universal waste.
7. Keep record of all shipments and receipts of universal waste for three years.

K. Treated Wood Waste: For complete information on handling and disposal of Treated Wood Waste (TWW), refer to the fact sheet available from the DTSC website. For incidental TWW wastes generated during construction, the Contractor shall comply with the following minimum requirements:

1. Keep TWW segregated from other materials.
2. Store no more than 1,000 pounds of TWW for no longer than 30 days. In the event that Contractor stores more than 1,000 pounds of TWW or stores TWW for more than 30 days, Contractor shall comply with additional requirements for routine generators of TWW. Refer to DTSC fact sheet.
3. Label all TWW bundle/shipments with the following information:

> ***TREATED WOOD WASTE – Do not burn or scavenge.***
> ***TWW Handler***
> ***Name:*** _____
> ***Address:*** _____
> ***Accumulation Date:*** _____

4. Take TWW to an authorized TWW facility. See the listings at the end of the factsheet for information on facilities who have been authorized to accept TWW in California.
5. Keep records of all shipments of TWW for three years.

L. Waste Reduction: Contractor shall implement waste reduction measures, including, but not limited to, the following:

1. Eliminating the procurement of unneeded supplies;
2. Reduce waste by printing and copying double-sided;
3. Submit all submittals, reports, and forms in electronic format (PDF);
4. Fully participate in available and required recycling and composting programs; and
5. Purchase products made with recycled content such as paper and recycled aggregate.

M. LEED Credit: Compliance with the 75% diversion goal meets the requirements of LEED MR Credit 2.2 and earns the Project 2 points.

N. Contractor shall submit the following in accordance with Paragraphs 1.5, 1.6, and 1.7 below:

1. Construction and Demolition Debris Management Plan;
2. Construction and Demolition Debris Recovery Monthly Summary of Diversion and supporting documentation.

3. Construction and Demolition Debris Recovery Final Diversion Report.

O. Contractor shall submit the above items in electronic format (PDF) to the City Representative.

1.5 CONSTRUCTION AND DEMOLITION DEBRIS MANAGEMENT PLAN

A. The requirements under this Paragraph 1.5 apply to all City construction contracts for City-owned Facilities or City leaseholds located within the nine counties surrounding the San Francisco Bay, regardless of size of the project.

B. After Award of Contract and before commencement of the Work at the site, the Contractor shall conduct a site assessment to estimate the types and quantities of materials that will be generated by construction and/or demolition at the site and which materials are anticipated to be feasible and practical for reuse and recycling. Contractor shall complete a Construction and Demolition Debris Management Plan (CDDMP) to be discussed with the City Representative.

C. Contractor shall schedule a meeting with the City Representative to discuss its proposed CDDMP so as to develop a mutual understanding regarding the City's recycling and reuse policies and goals and their application to this project. The contractor must manage all project C&D debris materials to meet a minimum diversion rate of 75%.

D. Contractor shall obtain tonnage estimates for all C&D debris material from all subcontractors and compile data from all subcontractors into a written and signed CDDMP in a format prescribed by the City. The plan shall include, but not be limited to, the following:
1. The Contractor's information and Project identification.
2. Procedures to be used for debris management.
3. A list of the materials and estimated quantities to be reused, recycled, or transported to a Registered Facility.
4. The names, locations, and permit or license, as applicable, of recycling and reuse facilities and Registered Facilities (for mixed debris) that the Contractor plans to use for this project.
5. Procedures for source separation for the materials listed in subparagraph 1.4F "Recycling Requirements" of this Section.
6. Source Reduction: Describe any project practices for this project which will reduce waste at the source, such as requiring vendors to deliver materials in reusable packaging.
7. On-site Processing: Describe procedures in which materials are recycled and/or reused on-site, such as grinding materials for use on-site, or reuse of lumber for concrete frames, etc.
8. Procedures to educate and train all employees and subcontractors on recycling and reuse procedures to be used at the jobsite.

E. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the first box in the center of page 1 on the form. Provide estimated start and end dates for the project. A written narrative should be attached to the form describing project and job site practices and procedures as noted in subparagraph 1.5D above

F. The CDDMP is subject to approval by the City Representative. Contractor shall revise and resubmit the CDDMP as required by the City Representative.

G. If an unforeseen circumstance requires a change to the facilities or transporters named and approved on the original CDDMP, the Contractor must submit a written request to the City Representative for approval prior to the change being made; a copy should be

sent to the Department of Environment. The request must provide documentation explaining why the change may be necessary. Use Form D (Request to Change Facilities or Transporters), and complete all sections of the form. If any section is omitted, the request will not be considered.

H. Review of the Contractor's construction and demolition debris management plan will not relieve Contractor of responsibility for compliance with applicable laws and regulations governing control and disposal of solid waste or other pollutants.

I. In accordance with the Mayor's Directive 06-05 and Chapter 7 of the Environment Code, Contractor shall achieve a diversion rate of 75%.

1.6 CONSTRUCTION AND DEMOLITION DEBRIS RECOVERY MONTHLY SUMMARY OF DIVERSION

A. Contractor shall submit a signed Summary of Diversion (Summary) to the City Representative with each Progress Payment Application. The Summary shall show actual Construction and Demolition Debris material diversion coinciding with the time period of the Progress Payment. The contractor shall compile data from all subcontractors into one plan/report; all weights are reported in tons and documentation supporting the reported tons shall be attached. Documentation shall include weight tags or other similar proof the hauler received from a facility where material was transported; if a facility issues a receipt with cubic yards only, the contractor shall use the Conversion Rates found in Form E. The documentation issued by the facility shall include the commodity or material type that was delivered to the facility and shall include evidence that the material was from the contracted job; such evidence may include the project address or project/job number provided by the facility on the weight tags or receipts it creates. Diversion reports prepared by vendors, work orders or invoices for services shall not be acceptable unless accompanied by requirements noted above. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the second box in the center of page 1 of the form and provide the Reporting Period and Progress Payment Number.

B. Failure to submit the Summary of Diversion and supporting documents shall render the application for progress payment incomplete and delay progress payment.

C. Contractor shall be responsible for transporting all Mixed C&D Debris Material generated in San Francisco to a Registered Facility by using a Registered Transporter.

1.7 CONSTRUCTION AND DEMOLITION DEBRIS RECOVERY FINAL DIVERSION REPORT

A. The Contractor shall submit a signed Final Diversion Report showing weight of all Construction and Demolition Debris material diverted for the entire project and the overall diversion rate achieved. Use Form C (Construction & Demolition Debris Recovery Worksheet) and check the third box in the center of page 1 of the form. The Final Diversion Report shall be prepared into one plan/report by the Contractor with data from all subcontractors and submitted to the City Representative.

1.8 JOB SITE ADMINISTRATION

A. The Contractor shall review the environmental goals of this project with all subcontractors and sub-subcontractors. The Contractor shall make a proactive effort to increase awareness of these goals and ensure full compliance to the Construction and Demolition Debris Management Plan among the Contractor's job site workers and all subcontractors and other workers.

B. The Contractor shall communicate the presence of demolition debris which is hazardous waste to all workers on the job site and shall establish and clearly identify hazardous waste storage areas. The Contractor shall discuss practices and alternatives to minimize worker exposure to potentially harmful substances expected to be encountered on the job site.

C. For Construction Contracts within the legal and geographical boundaries of the City and County of San Francisco the Contractor shall provide green, blue and black refuse containers and appropriate signs for field offices to separate recyclable and compostable materials from the trash and subscribe to adequate collection services. To subscribe to these services, contact Recology San Francisco at 415-330-1300. For assistance in setting up recycling and composting programs (i.e. signs and training) in field offices, contact: SFGovRecycling@SFEnvironment.org

D. For projects outside the legal and geographical boundaries of the City and County of San Francisco, Contractor shall abide by local jurisdiction's refuse, recycling and composting requirements.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

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FORM A
REQUEST TO SEND CONSTRUCTION & DEMOLITION DEBRIS MATERIAL
DIRECTLY TO LANDFILL

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Environment Code Chapter 7 Section 708(a)(3) states that a contractor is prohibited from sending any Construction & Demolition (C&D) debris material directly to a landfill without submitting a request to and receiving approval from the Department of the Environment. This request form must demonstrate that all reuse and recycling options for the material have been evaluated and determined to be not possible.

Section 1: Project Information		**City Department:**	
1. Project Name:		2. Project/Job Number:	3. Reporting Period:
4. Project Street Address:		5. City & County (if not in SF):	
6. Contractor's Company Name:			
7. Contractor's Address:		8. City, State, Zip Code:	
9. Contractor's Contact:		10. Contact's Title:	
11. Office Phone:	12. Cell Phone:	13. e-mail:	

Section 2: Request Information

15. Type of Request (please check):

_____ Initial Request. Submit to the City Representative with the Construction & Demolition Debris Management Plan (CCDMP), and send a copy to the Department of Environment for review and possible approval.

_____ Request due to unforeseen circumstances occurring during the project affecting disposition of the material. Send to City Representative and to the Department of Environment for review and possible approval.

16. Material Description:

Type of Material:

Approximate Tons:

Why can't this material be reused or recycled?

What landfill do you intend to use (Name & Location)

17. Provide a comprehensive & detailed description of all efforts you (and/or your subcontractors) have made to find a location to take this material for reuse or recycling. List must include names and locations of all facilities contacted to take the material, name of person(s) you spoke with, date of conversation, and why the material was refused. **If the material was deemed hazardous after the project commenced**, please provide official documentation from an independent professional (See Env Code Chapt 7, Sec 708(a)(6) for complete requirements). Attach an additional sheet if necessary.

18. Provide information and attach documentation on how this material will be used at the landfill. Your request must demonstrate that the material will be used for beneficial reuse, if possible, before any material is used as alternative daily cover (ADC), and that material is used as landfill disposal only as a last resort if necessary. Please include documentation such as a written statement by the landfill operator that the material will be used as designated.

19. I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT AND THE MATERIAL DESCRIBED WILL BE HANDLED AS NOTED IF THIS REQUEST IS APPROVED.

Submitted by:_____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Initial Request:. Submit completed and signed form to the City Representative with the Construction & Demolition Debris Management Plan (CCDMP) and send a copy to the Department of Environment for review and possible approval.

Request due to unforeseen circumstances occurring during the project affecting disposition of the material: Send completed and signed form to City Representative and to the Department of Environment for review and possible approval.

Submit completed and signed form to: Department of the Environment, 1455 Market St, Suite 1200, San Francisco, CA 94103. Attention: C&D Landfill Request. Or email: mary.williams@sfgov.org

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED_____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

NAME _____ SIGNATURE_____ TITLE_____

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FORM B
REQUEST TO SEND CONSTRUCTION & DEMOLITION DEBRIS MATERIAL TO BIOMASS ENERGY GENERATION FACILITY

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Environment Code Chapter 7 Section 708(a)(4) states that a contractor is prohibited from sending any Construction & Demolition (C&D) debris material directly to any facility that would incinerate such debris or otherwise process such debris using high temperature technology, unless the debris is used as boiler fuel in BioMass Energy Generation, which will only be allowed after the contractor has submitted a request to and received approval from the Department of the Environment. Types of material acceptable for BioMass Energy Generation are wood, wood chips, wood waste and tree and brush prunings. This request must demonstrate that all reuse and recycling options for the material have been evaluated and determined to be not possible.

Section 1: Project Information		**City Department:**	
1. Project Name:		2. Project/Job Number:	3. Reporting Period:
4. Project Street Address:		5. City & County (if not in SF):	
6. Contractor's Company Name:			
7. Contractor's Address:		8. City, State, Zip Code:	
9. Contractor's Contact:		10. Contact's Title:	
11. Office Phone:	12. Cell Phone:	13. e-mail:	

Section 2: Request Information

14. Material Description:

Type of Material (wood, wood chips, wood waste, tree or brush prunings):

Approximate Tons:

What facility do you intend to use (Name & Location)?

Why can't this material be reused or recycled?

15. Provide a comprehensive & detailed description of all efforts you (and/or your subcontractors) have made to find a location to take this material for reuse or recycling. List must include names and locations of all facilities contacted to take the material, name of person(s) you spoke with, date of conversation, and why the material was refused. Attach a separate sheet if necessary.

16. I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT AND THE MATERIAL DESCRIBED WILL BE HANDLED AS NOTED IF THIS REQUEST IS APPROVED.

Submitted by:_____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Submit completed and signed form to: Department of the Environment, 1455 Market Street, Suite 1200, San Francisco, CA 94103. Attention: C&D BioMass Energy Request. Or email: mary.williams@sfgov.org

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED_____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

_____

_____

NAME _____SIGNATURE_____
TITLE_____

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FORM C

CONSTRUCTION & DEMOLITION DEBRIS RECOVERY WORKSHEET

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

Section 1: Project Information		**City Department:**	
1. Project Name:		2. Project/Job Number:	3. Reporting Period:
4. Project Street Address:		5. City & County (if not in SF):	
6. Contractor's Company Name:			
7. Contractor's Address:		8. City, State, Zip Code:	
9. Contractor's Contact:		10. Contact's Title:	
11. Office Phone:	12. Cell Phone:	13. e-mail:	

I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOLLOWING IS TRUE AND CORRECT. I AGREE TO USE THE FACILITIES AND TRANSPORTERS NAMED ON THE ORIGINAL PLAN, AND I UNDERSTAND I AM RESPONSIBLE FOR COMPLIANCE BY ALL SUBCONTRACTORS. IF CHANGES ARE NECESSARY TO THE ORIGINAL PLAN, WRITTEN APPROVAL MUST BE RECEIVED FROM CITY REPRESENTATIVE **BEFORE** CHANGE MAY COMMENCE (See "Request to Change Facilities or Transporters" Form).

Submitted by:_____ Title: _____

Signature: _____ Date: _____

☐ **Construction & Demolition Debris Management Plan (CDDMP)* (Include *estimates* from all Subcontractors)**

Estimated Start Date: _____ Estimated End Date: _____

*Attach a brief description of how this jobsite will be managed to ensure compliance with all aspects of the plan by all persons working on the project

☐ **Summary of Diversion: Submitted with Progress Payment Application (Compile Diversion Data from all Subcontractors)**

Reporting Period (mm/yy): _____ Progress Payment No.: _____

☐ **Final Diversion Report (Compile Diversion Data for Entire Project)**

Date Project Completed: _____

City Representative Review & Approval

I declare under Penalty of Perjury under the Laws of the State of California that I have reviewed the information provided herein including supporting documentation to ensure that Contractor is in compliance with all Construction/Demolition debris diversion requirements.
City Representative
Signature: _____ Name (print) _____ Date _____

Instructions for Completing Section 2 on Page 2 - Debris Recovery Worksheet: (refer to Section 701 of Environment Code Chapter 7 for all definitions)

- Contractor is responsible for preparing and submitting all C&D management plans & reports.
- Contractor shall compile data from all subcontractors into one plan/report.
- Column (a): Enter the appropriate Diversion Activity Code associated with the kind of material being handled and how the material is being processed.
- Column (b): Enter Total Tons of material for each type of material being diverted.
- Column (c): Enter Tons Recycled for each type of material being diverted.
- Column (d): Enter Tons Reused for each type of material being diverted.
- Column (e): Enter name of facility where material will be taken. If project is located in San Francisco, Mixed Debris must be taken to a Registered Facility authorized to process the material.
- Column (f): Enter name of Transporter hauling the material. If project is located in San Francisco, only Registered Transporters are authorized to haul Mixed Debris.
- Line (g) below worksheet: Calculate Diversion Rate per formulas provided & instructions.
- Submit completed form to City Representative for review and approval.

Project/Job Number:_____	Reporting Period:_____	Progress Pmt. Number: _____

Section 2: Debris Recovery Worksheet

IMPORTANT: HAZARDOUS MATERIAL OR U-WASTE IS SUMMARIZED SEPARATELY FROM THIS REPORT. ATTACH A SEPARATE LIST OF THESE MATERIALS, DISPOSAL PLANS & PROFESSIONAL WASTE DETERMINATION. DO NOT INCLUDE ANY HAZARDOUS MATERIALS AND UNIVERSAL WASTE ON THIS WORKSHEET,

Diversion Activity Codes:

1 - Recycling source-separated materials at a recycling facility.	**4 -** Reuse of salvageable items.
2 - On-site concrete or asphalt crushing for use on site.	**5 -** Reuse of soil or dirt on site.
3 - Recycling of mixed C&D debris.	**6 -** Reuse of dirt or mixed inerts for landfill construction.
	7 - Other diversion - please describe:

WORKSHEET

Type of Material	Diversion Activity Code (a)	Total Tons (b)	Tons Recycled (c)	Tons Reused (d)	Facility Used* (e)	Transporter* (f)	Balance from Original Plan
MIXED C&D DEBRIS*	**3**	**(A)**					
SOURCE SEPARATED MATERIALS							
Asphalt							
Acoustical Ceiling Tiles							
Bricks, Granite, Finished Stone							
Carpet & Padding							
Concrete							
Corrugated Cardboard							
Dimensional Lumber & Beams							
Fixtures, Hardware, Doors, Windows							
Metal							
Mixed Inerts							
Rigid Plastic							
Soil/dirt/rock							
Trees, Landscape Debris, Wood Scraps							
Wallboard, Gypsum Sheet Rock							
Other:							
Sub-Totals (source separated)		**(B)**	**(C)**	**(D)**			
Total (E = A + B)		**(E)**					

*** Diversion Rate Calculation Formulas:**

Projects in SF: [C+D+(A×0.65*)]÷E×100

Outside SF: [C+D+(A×____*)]÷E×100

(g) [_____+_____+(_____x_____*)] =_____÷_____=_____ x 100 = **DIVERSION RATE** %

(C) (D) (A) (Rate)* (E)

* For projects located in San Francisco: Mixed C&D Debris must be taken to a Registered Facility authorized to process the material, and it must be hauled by a Registered Transporter (lists available at sfenvironment.org/c&d); **diversion rate for Registered Facilities is 65%.** For projects outside SF: the diversion rate for Mixed C&D Debris is 65% if taken to one of our Registered Facilities; if taken to a non-registered facility check with local jurisdiction for that facility's recycling rate. ATTACH OFFICIAL DOCUMENTATION FROM LOCAL JURISDICTION. If a facility does not have a local approved recycling rate, the diversion rate is calculated as zero.

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FORM D
REQUEST TO CHANGE
FACILITIES OR TRANSPORTERS
APPROVED ON CONSTRUCTION & DEMOLITION DEBRIS MANAGEMENT PLAN

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11; SFE Regulation No. SFE13-03-GB

If an unforeseen circumstance requires a change to the Facilities or Transporters named and approved on the original Construction & Demolition Debris Management Plan (CDDMP), the Contractor may use this form to submit a written request to the City Representative for approval prior to the change being made.

Section 1: Project Information		**City Department**	
1. Project Name:		2. Project/Job Number:	3. Reporting Period:
4. Project Street Address:		5. City & County (if not in SF):	
6. Contractor's Company Name:			
7. Contractor's Address:		8. City, State, Zip Code:	
9. Contractor's Contact:		10. Contact's Title:	
11. Office Phone:	12. Cell Phone:	13. e-mail:	

Section 2: FACILITY CHANGE REQUEST

From original, approved plan:

Name of facility _____ Type of material _____ Approximate tons _____

New Facility Requested:

Name of facility _____ Location _____ Approximate tons _____

Please explain why this change may be necessary. Use an additional sheet if necessary. If material has been determined to be hazardous, please attach written determination or other verification from an independent professional.

Section 3: TRANSPORTER CHANGE REQUEST

From original, approved plan:

Name of Transporter _____ Material hauled _____ Approximate tons _____

New Transporter Requested:

Name of Company _____ Material hauled _____ Approximate tons _____

Please explain why this change may be necessary. Use an additional sheet if necessary.

(PLEASE COMPLETE THE BACK PAGE OF THIS REQUEST)

I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOREGOING AND INFORMATION IN ALL ATTACHMENTS ARE TRUE AND CORRECT. IF THIS REQUEST IS APPROVED I AGREE TO USE THE NEW FACILITIES AND/OR TRANSPORTERS NAMED.

Submitted by:_____ Title: _____

Signature: _____ Date: _____

Submittal Instructions:

Submit to the City Representative for review and approval. A copy should be sent to the Department of Environment at 1455 Market Street, Suite 1200, San Francisco, CA 94103, or email to mary.williams@sfgov.org .

For questions regarding completion of this request, please call the Department of the Environment at (415) 355-3700.

FOR OFFICIAL CITY USE ONLY

DATE REQUEST RECEIVED_____

APPROVED _____ NOT APPROVED _____ DATE _____

COMMENTS _____

_____

_____

NAME _____SIGNATURE_____ TITLE_____

SF Environment
Our home. Our city. Our planet.
A Department of the City and County of San Francisco

FORM E

CONSTRUCTION & DEMOLITION DEBRIS MATERIAL CONVERSION RATES (CUBIC YARDS TO TONS)

City and County of San Francisco
Environment Code 7; Ordinance No. 204-11 ; SFE Regulation No. SFE13-03-GB

IMPORTANT: The weights shown are in POUNDS, and they need to be **converted to TONS** for use on the waste management report. **2000 pounds = 1 ton**

Material	Size/Amount	Weight/***POUNDS***
Asphalt/paving, crushed	1 cubic yard	1,380
Brick	1 cubic yard	3,024
Concrete	1 cubic yard	1,855
Dirt	1 cubic yard	2,052
Gravel	1 cubic yard	2,565
Greenwaste - large limbs, stumps	1 cubic yard	1,080
Greenwaste - prunings	1 cubic yard	46.69
Metal, aluminum scrap	1 cubic yard	175
Metal, brass	1 cubic yard	906.43
Metal, copper	1 cubic yard	1,093.52
Metal, ferrous, scrap	1 cubic yard	906
Metal, steel	1 cubic yard	1,620
Mixed C&D Debris	1 cubic yard	400
Mixed inerts	1 cubic yard	2,000
OCC (Cardboard), flattened, uncompacted	1 cubic yard	100
Pallets	1 each 48"x48"	40
Rock	1 cubic yard	2,570
Sand	1 cubic yard	2,441
Wallboard -sheetrock scrap	1 cubic yard	393.5
Wood, scrap	1 cubic yard	329.5

For additional information, visit **http://www.calrecycle.ca.gov/LGCentral/Library/DSG/ApndxI.htm** & CLICK ON CONVERSION FACTOR TABLES AT BOTTOM OF PAGE.

SECTION 01 77 00

CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes procedures and requirements for Contract Closeout.

B. Related Sections:
1. Section 00 73 02 – Contract Time and Liquidated Damages
2. Section 01 45 00 – Quality Control
3. Section 01 50 00 – Temporary Facilities and Controls
4. Section 01 78 23 – Operation and Maintenance Data
5. Section 01 78 36 – Warranties
6. Section 01 78 39 – Project Record Documents

1.2 PROCEDURES

A. Close-out Meeting:
1. The Contractor shall submit all outstanding change orders, claims, and time extension requests by the final date as required by the City Representative before the Work is 95% complete.
2. Prior to Substantial Completion, the City Representative will schedule a closeout meeting with the Contractor, Architects or City Representatives and consultants to determine the status of completion.
3. The Contractor shall attend the Close-out meeting scheduled by the City Representative to discuss the close-out procedure and responsibilities of the Contractor and the City.
4. The City Representative will prepare a list of actions which are still open or pending that need to be resolved during the close-out period. Such actions may include, but are not necessarily limited to, equipment testing, operator training, record documents, final inspection, administrative activities, and documentation of final quantities and force account work.

1.3 SUBSTANTIAL COMPLETION

A. Prerequisites to Substantial Completion:
1. Submit to the City Representative with the application for payment just before Substantial Completion, a statement of all Change Orders, Modifications, claims, and time extension requests.
2. Verify that the following administrative closeout submittals have been received by the City, if applicable:
   a. Project Record Documents and approved shop drawings, product data, and samples as specified in Section 01 78 39.
   b. Warranties as specified in Section 01 78 36.
   c. Keys and keying schedule.
   d. Spare parts and materials extra stock.
   e. Certificates of Final Inspection and Occupancy as evidence of compliance with the requirements of governmental agencies having jurisdiction.
   f. Comply with requirements listed in Section 00 73 00, amendments to definitions of Substantial Completion and/or Final Completion, as applicable.

3. Advise the City Representative of pending insurance change-over requirements.
4. Submit to the City Representative written certification that the Contract Documents have been reviewed, Work has been inspected, the Work is complete, including start-up, testing, adjusting, and balancing of equipment and systems, and conforms to the requirements of the Contract Documents.
5. At no additional cost to the City, restore and replace, as specified and as determined by the City, material and finishes damaged due to the performance of the Work.
6. Restoration or replacement shall be equal quality and match the appearance of the existing Work.

B. Substantial Completion Inspection:
1. Notify the City Representative in writing that the Work is substantially complete and ready for inspection.
2. Upon receipt of Contractor's written notice, the City Representative will make an inspection to determine the status of completion.
3. Should the City Representative determine that the Work is not substantially complete; the City Representative will so notify Contractor with a deficiency list of all items that shall be completed before the City considers the Work substantially complete.
   a. Remedy all deficiencies as identified and notify the City Representative, in writing, when the Work is ready for re-inspection.
   b. Failure to complete this requirement within the time allowed for substantial completion will result in liquidated damages being assessed.
4. The Contractor shall verify that the Work is complete, including but not necessarily limited to, the items required for Substantial Completion.
5. If the City Representative concurs that the Work is substantially complete, the City Representative will prepare a Notice of Substantial Completion, and arrange for a punch list inspection by the City's design and maintenance staff, and/or consultants.
   a. If the Work is not substantially complete, the City Representative will follow the same procedure as for the first inspection, and Contractor shall reimburse the City for all additional re-inspection costs, including but not limited to costs incurred by City staff or for additional consultant visits.

C. Partial Use or Occupancy of Work: When partial utilization of the Work is required and substantial completion is a condition of such partial utilization, the applicable requirements specified in this Section shall apply to the part of Work to be utilized.

1.4 FINAL ACCEPTANCE

A. Prerequisites for Final Acceptance:
1. At no additional cost to the City, perform all remedial work noted on the punch list before requesting a final inspection and acceptance.
2. Coordinate the performance of remedial work with the City Representative to cause minimal inconvenience and interruption of the City's operations.
3. Perform final cleaning as specified in this Section. Remove protective coverings and similar items.
4. Remove all temporary controls, utilities, facilities, signage, field offices and sheds.
5. Submit consent of surety to final payment.
6. Submit a certified copy of the City Representative's punch list of remedial items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance by the City.
7. Failure to complete all remedial work and prerequisites for final inspection within the time allowed after the date of Final Completion as specified in the Supplementary Conditions will result in liquidated damages being assessed.

B. Final Inspection:
   1. Notify the City in writing that all punch list items of remedial work have been completed and the Work is ready for final inspection.
   2. The City Representative will make an inspection to verify the status of completion.
   3. Should the City Representative determine that the Work is not complete or is defective, the City Representative will so notify Contractor, in writing, listing remaining incomplete or defective work.
      a. Promptly complete the remaining deficiencies and notify the City Representative, in writing, when ready for re-inspection.
      b. If the City Representative finds the Work is still not complete, Contractor shall be responsible for all subsequent re-inspection and meeting costs incurred by the City to resolve the remaining issues. Such costs will be deducted from progress payments owed to Contractor.
   4. When the City Representative determines that the Work is acceptable under the Contract Documents and Contractor has made all required closeout submittals, the City Representative will initiate the final payment recommendation and prepare the Certificate of Completion.

C. Prior to the final acceptance, the City Representative shall be furnished with the following administrative close-out submittals:
   1. Project Record Documents as specified in Section 01 78 39;
   2. Warranties as specified in Section 01 78 36;
   3. Keys and keying schedule;
   4. Spare parts and materials extra stock;
   5. Operations and Maintenance Manuals;
   6. Relevant Test Reports;
   7. Sewer video records;
   8. Notice to Utilities for completed paving;
   9. Third Party Final Inspection and Sign-Offs (if applicable);
   10. Certificates of Final Inspection and Occupancy as evidence of compliance with the requirements of governmental agencies having jurisdiction;
   11. C&D Management Report as specified in Section 01 74 50;
   12. Evidence of Payment and Release of Liens; and
   13. Comply with all mobilization requirements as specified in Section 01 21 50.

D. Submittals for final adjustment of accounts shall include, but not necessarily be limited to:
   1. Request for Final Payment; and
   2. Final statement of accounting, payroll records, and final change orders showing adjustments to the Contract Price for all force account work and extra payments.

E. All prior estimates and payments shall be subject to correction in the final estimate and payment.

1.5 FINAL CLEANING

A. Final acceptance of the by the City will be withheld until the Contractor has satisfactorily complied with the requirements herein for final cleanup of the project site.

B. Should the City elect to partially occupy or use portions of the Work prior to Completion, perform final cleaning for those portions of the Work prior to their being so occupied or used.

C. Comply with applicable regulatory requirements during cleaning and disposal operations. Use cleaning materials which will not create hazards to health or property or cause damage to products or Work.

D. Use only cleaning materials and methods which are compatible with the surface being cleaned, as recommended by the manufacturer of the products to be cleaned.

E. Completely clean the work site including the adjacent sidewalks and street from property line to property line.

F. Schedule final cleaning operations to prevent resulting dust and other contaminants from adhering to wet or newly finished surfaces and to enable the City Representative to accept a completely clean work.

G. See additional cleaning requirements specified in Section 01 50 00 - Temporary Facilities and Controls.

1.6 PROJECT RECORD DOCUMENTS

A. Submit the final approved Project Record Drawings to the City Representative prior to final acceptance. Refer to Section 01 78 39 - Project Record Documents.

1.7 OPERATOR INSTRUCTION

A. Refer to individual Specification Sections for specific requirements for equipment and systems demonstration and safety, operations, and maintenance training.

B. Where specified in the individual Specification Sections, furnish qualified personnel and coordinate scheduling for on-site instruction of the City's operating and maintenance personnel.

1.8 FINAL PAYMENT

A. Prior to the final payment, the Contractor shall:
   1. Submit CMD Forms 7, 8, and 9
   2. Reconcile any outstanding payroll issues with the Office of Labor Standards Enforcement (OLSE).
   3. Reconcile any outstanding local hire issues with Office of Economic and Workforce Development (OEWD).

1.9 RELEASE OF LIENS OR CLAIMS

A. Before the City issues final payment to Contractor, Contractor shall sign and deliver to the City a release of liens or claims sworn to under oath and duly notarized. The release shall state that Contractor has satisfied all claims and indebtedness of every nature in any way connected with the Work, including, but not limited to, the foregoing, all payrolls, amounts due to the subcontractors, accounts for labor performed and materials furnished, incidental services, liens, and judgments.

B. If any liens or claims remain unsatisfied after all payments to Contractor have been made, Contractor shall refund to the City all moneys that the latter may be compelled to pay in discharging such a lien or claim, including all costs and a reasonable attorney's fee.

C. Refer to Section 01 77 13 - Appendix A: Waiver and Release of Claims on Final Payment form.

END OF SECTION

WAIVER AND RELEASE OF CLAIMS ON FINAL PAYMENT FORM

Date: _____

Re: Contract No.: _____

Project Title: _____

Waiver and Release of Claims

Consistent with California Public Contract Code Section 7100, the undersigned Contractor,

_____
(CONTRACTOR NAME)

of _____ ,
(CONTRACTOR ADDRESS)

having completed work on the subject Contract and Project Title, hereby releases and forever discharges the City and County of San Francisco, its officers, agents, employees, authorized representatives, assignees, and transferees from any and all liabilities, claims, obligations, demands, actions or causes of action, and claims arising under this contract of whatever kind or nature, known or unknown, which have arisen or are in any way concerned with the work under the Contract and Project Title, about which the Contractor knows or should have known except for the Disputed Claims as listed below.

The following claims are disputed (the "Disputed Claims") and are specifically excluded from the operation of this Waiver and Release:

Contract Claim No.	Date Submitted	Description of Claim	Amount of Claim

Guarantees and warranties for Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.

_____
Signature of Authorized Representative

_____
Print Name of Authorized Representative

_____ _____
Position Date

SECTION 01 78 36

WARRANTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Requirements.
2. Submittal Requirements.
3. Quality Assurance.
4. Warranty conditions.
5. Form of Guarantee/Warranty.

B. Related Sections:
1. Section 00 72 00 – General Conditions:
   (a) Paragraph 8.03, Correction of Non-Conforming Work;
   (b) Paragraph 8.04, Correction Period;
   (c) Paragraph 8.05, Acceptance of Non-Conforming Work;
   (d) Paragraph 9.07, Partial Utilization.
2. Section 01 77 00 – Contract Closeout.
3. Individual Specifications Sections: Warranties required for specific products or Work.

1.2 REQUIREMENTS

A. Except as otherwise specified in the individual Specification sections, guarantee/warranty the Work against defects in materials and workmanship for **36** months from the date of the Substantial Completion Certificate issued by the City.
1. Upon receipt of written notification by the City Representative, guarantee/warranty the Work, or portions thereof, which are used or occupied by the City before final acceptance from the date of beneficial use or Substantial Completion.

B. Comply with the guarantee/warranty requirements as specified in the individual Specification sections.

C. Submit executed guarantees/warranties to the City for review. Deliver them to the City upon Substantial Completion.

D. These warranties shall be in addition to and not a limitation of other rights the City may have under the Contract and which may be prescribed by law, regardless of the wording of manufacturer's standard warranty.

1.3 SUBMITTAL REQUIREMENTS

A. Refer to Section 01 78 23 for submittal requirements regarding quantity and format.

B. Warranties will be included in both hard copy and electronic copy formats.

1.4 QUALITY ASSURANCE

A. Obtain guarantees/warranties, in duplicate, executed by Contractor and subcontractor or installer responsible for that portion of the Work and countersigned by the manufacturer.

B. Verify that documents are in proper form, contain complete information, and are notarized if warranties are extended beyond the Manufacturers normal warranty period of TWO years.

C. Co-execute submittals when required. Acceptance of manufacturer's guarantees/warranties by the City shall not be construed to limit the City's recourse to Contractor for correction of defects under the law and in accordance with the General Conditions.

1.5 WARRANTY CONDITIONS

A. Contractor shall warrant that work performed under this Contract conforms to the Contract Documents and is free of any defect of equipment, material, installation, design furnished, or workmanship furnished by Contractor, or any of its subcontractors or suppliers. **SUCH WARRANTY SHALL CONTINUE IN EFFECT FOR 24 MONTHS FROM THE DATE OF ACTUAL SUBSTANTIAL COMPLETION ESTABLISHED except where detailed specifications for certain materials, equipment or systems require longer warranty periods.** Refer to technical specification sections to confirm specific warranty needed for such construction material and components.

1. The following list of materials and equipment have warranties that differ than the typical 24 months outlined above, including but not limited to:

   (a) 33 33 00- Sanitary Sewerage Utilities

   (b) 32 17 34- Concrete Detectable Warning Tiles

B. Warranties are not intended to cover failures which result from the following:
1. Unusual or abnormal phenomena of the elements.
2. The City's misuse, maltreatment, or improper maintenance of the Work.
3. Insurrection or acts of aggression including war.

C. Promptly after the receipt of written notice from the City, remove, replace, or correct Work, or portion thereof, which is damaged or found to be defective and not in accordance with the Contract within 10 calendar days.
1. The City may proceed with the correction work at Contractor's expense if Contractor does not proceed with the corrective work within a within 10 calendar days by written notice from the City, the City may proceed with the work at the expense of the Contractor.
2. The City reserves the right to remove and store or dispose of defective equipment or material at Contractor's expense.
3. If Contractor does not pay the costs of such removal and storage within ten days thereafter, the City may, upon ten additional days written notice, sell such defective items and shall account for the net proceeds after deducting all the costs that should have been borne by the City, including compensation for City Representative's additional services.

If the proceeds from the sale are insufficient to cover all amounts chargeable to Contractor, Contractor shall pay the difference to the City.

1.6 FORM OF GUARANTEE/WARRANTY

A. For guarantee/warranty of the entire Work against defects in materials and workmanship for the period of warranty after the Notice of Substantial Completion. Refer to Section 1.5- Warranty Conditions, for a list of materials and equipment that have warranties that differ from the typical 24 months.

GUARANTEE/WARRANTY FORM
for
<PROJECT NAME>
<CONTRACT NO.>

GUARANTEE/WARRANTY for _____
We hereby guarantee/warrant that the _____
which we have provided in the _____
has been completed in accordance with the requirements of Specification Section _____ and the other Contract Documents.

We agree to repair or replace any or all of our Work, together with any other adjacent Work which may be displaced by so doing, that may prove to be defective in its workmanship or material within a period of _____ months from the date of Substantial Completion of the above named Project; and we also agree to repair any and all damages resulting from such defects, all without any expense to the City, ordinary wear and tear and unusual abuse or neglect excepted;

In the event of our failure to comply with the above mentioned conditions within ten (10) days after being notified in writing by the City, we collectively or separately do hereby authorize the City to proceed to have such defective Work repaired or replaced and made good at our expense, and we will honor and pay the costs and charges therefor upon demand.

Signed_____Date _____

(Include Contractor's name, address, and license number)

Countersigned _____Date _____

(City Representative)

Substantial Completion was granted by the City on _____.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 78 39

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for maintenance and submittal of Project Record Drawings and As-Builts.

B. Related Sections:
1. Section 01 20 00 – Price and Payment Procedures
2. Section 01 33 00 – Submittal Procedures
3. Section 01 77 00 – Closeout Procedures

1.2 REQUIREMENTS

A. Keep an accurately marked, up-to-date set Record Drawings for the work actually installed. Accurately indicate on Record Drawings all site conditions, locations of utilities, work scope changes, changes in dimensions, locations, and elevations of the work, and changes in details as specified herein and as approved by the City Representative. Contractor shall keep the Record Drawings current as the work is performed.
1. Record Drawings shall be subject to inspection and approval by the City Representative at any time within the duration of the Contract.
2. Such review by the City Representative shall not relieve Contractor of its responsibility for keeping the Record Drawings current and complete.

B. If the Record Drawings are not kept current, or are not furnished as specified in Price and Payment Procedures Section, then progress payments, and if necessary, final payment will be withheld. Furnishing of Record Drawings shall be done as incidental work.

C. Prior to acceptance of the work, furnish to the City Representative the Final Record Drawings, or As-Builts, showing all changes in the Contract Drawings neatly in red ink and certified by the City Representative.

1.3 QUALITY ASSURANCE

A. The City Representative will provide Contractor with a set of base drawings, or conformed prints, if any, with "Record Drawings" stamp for the City inspector's certification of corrections.

B. Delegate responsibility for maintenance, coordination, and accuracy of the Record Drawings to one person on Contractor's staff.

C. Record all changes and work progress on the stamped Record Drawings which will be inspected monthly by the City Representative.

D. Accuracy of Record Drawings shall be such that future searches for items shown on the Contract Documents may rely on information obtained from the approved Record Drawings.

E. The City Representative will check, initial, and date the Record Drawings upon submittal with Progress Payments to verify the accuracy and completeness of the recorded changes.

F. The City Representative will sign the corrected Record Drawings to indicate that he or she has reviewed the corrections for completeness.

PART 2 - PRODUCTS

2.1 RECORD DOCUMENTS

A. Promptly following receipt of the Notice to Proceed, secure from the City Representative the number of copies of Contract Documents as specified in Section 00 73 00, including a full-size set of the Base Contract Drawings to be used as Project Record Drawings or As-Built Drawings.

PART 3 - EXECUTION

3.1 MAINTENANCE OF RECORD DRAWINGS

A. Store Record Drawings apart from documents used for performing the work; keep in a dry, legible condition, and in good order. Label each document "RECORD DRAWINGS - JOB SET" in large, neatly printed letters. Do not use Record Drawings for construction at the job site.

B. Record neatly on the Record Drawings all changes made by clarifications, Change Orders, Requests for Information, and other Modifications to the Contract Documents; and changes to reflect the actual existing conditions and utility locations references to permanent accessible features of work
   1. Clearly describe changes on Record Drawings by note as required.
   2. Date all entries, calling attention to the entry by a "cloud" drawn around the area or areas affected.
   3. Record in each Specification Section the manufacturer, trade name, catalog number, and supplier of each product and equipment item incorporated into the Work.

C. Furnish a copy of the final shop drawings which have been updated to show actual conditions. Furnish additional drawings as necessary to record deviations from the sizes, locations, and other features of the work and to locate piping, conduit, ductwork, and similar elements of utility installations by dimensions referenced to permanent accessible features of the work.

D. Show on the job set of Record Drawings, by dimension accurate to within one inch, the centerline of each run of conduits, circuits, piping, ducts, and similar items which are shown schematically on the Contract Drawings but where the final physical arrangement is determined by Contractor, subject to the City Representative's approval.
   1. The City Representative will issue a written waiver of the requirements for conversion of schematic layouts where, in the City Representative's judgment, such conversion serves no useful purpose.

E. Keep Record Drawings up to date during the entire progress of the work, and submit to the City with Progress Payments as specified in Application for Payments Section. Updates shall be accurate and current and be done at the time work is performed.

3.2 CHANGE ORDER DRAWINGS

A. The City will issue to the Contractor one set of drawings, if any, associated with change orders issued. The Contractor shall be responsible for reproducing sufficient copies of the drawings for its subcontractors.

B. The Contractor shall also update and include the revised or newly issued drawings as part of the Record Drawings. The work of reproducing and issuing change order drawings and updating of Record Drawings shall be done as incidental work.

3.3 AS-BUILT DRAWINGS

A. Contractor shall prepare a separate set of As-Built drawings that will show the final completed work based on the Record Drawings. Prior to start of transfer of recorded data thereto, secure the City Representative's approval of the Record Drawings.

B. Carefully transfer changed data shown on the job set of Record Drawings to the corresponding drawings, coordinating the changes as required.

C. Make changes in red pencil neatly, legibly, correctly and consistently.

D. Sign and date the completed As-Built Drawings and submit them to the City Representative for review prior to final payment as specified in Section 01 77 00 – Closeout Procedures.

E. If the As-Built Drawings are not approved by the City Representative, Contractor shall make necessary revisions and submit a revised set of As-Built Drawings to the City Representative.

F. Upon receiving approval of as-built drawings and prior to final payment, the Contractor shall have the final set scanned as follows:
   1. Each drawing shall be color scanned, 400 DPI, and saved to a CD;
   2. Each pdf file shall be numbered with prefix "SHT-01-" followed by the drawing number;
   3. The CD shall be placed in a jewel case with a label indicating project name, contract number, "As-Built Drawings", and date;
   4. The contractor shall submit (6) copies of the CD and originals as part of Closeout procedures as specified in Section 01 77 00.

G. Furnishing of the final approved Project Record Drawings, including required revisions and resubmittal, shall be done as Incidental Work.

H. If the As-Built Drawings are not furnished when specified, the final payment will be withheld.

END OF SECTION

SECTION 02 41 00

DEMOLITION

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for existing surface improvements to be cleared or removed from the site as shown on the Drawings.

B. Existing improvements will include, but are not limited to, asphalt concrete and concrete base roadway pavement, subgrade, concrete pavement, concrete parking strip, concrete gutter, concrete curb, concrete sidewalk, concrete curb ramps, and all other existing facilities or improvements as indicated on the Drawings and as described in these Specifications.

1.2 REFERENCE STANDARDS

A. Standard Drawings of the City and County of San Francisco Department of Public Works, Bureau of Engineering (SSDPWSF), revised April, 2007.

B. Standard Specifications of the City and County of San Francisco Department of Public Works, Bureau of Engineering (SSDPWSF), revised November, 2000.

C. State of California Department of Transportation Standard Specifications (CTSS), dated July, 2002.

1.3 RELATED SECTIONS

A. Section 01 20 00 – Price and Payment Procedures

B. Section 01 50 00 – Temporary Facilities and Controls

C. Section 01 71 23 – Field Engineering

D. Section 01 71 33 – Protection of Adjacent Construction

E. Section 31 23 33 – Trenching and Backfilling

1.4 QUALITY ASSURANCE

A. The Contractor shall perform demolition work in accordance with the requirements of Sections 700 and 701 of the DPW Standard Specifications, except as indicated herein.

1.5 EXISTING SITE CONDITIONS

A. Bidders will visit, inspect and be familiar with existing site conditions, and compare all such conditions with the Drawings and Specifications to satisfy themselves as to the accuracy thereof. The submittal of a bid will be considered an acknowledgment by the bidder of familiarity with conditions under which the Work is to be performed.

B. No allowance will be made for any unfavorable conditions or events, which might have been foreseen from a thorough examination of the Contract Documents and the existing site conditions.

PART 2 – PRODUCTS

2.1 MATERIALS AND EQUIPMENT

A. The Contractor shall furnish all labor, materials and equipment, as required for removing or salvaging existing surface facilities as shown on the Drawings.

PART 3 – EXECUTION

3.1 PREPARATION

A. Notifications

1. Underground Service Alert
   a. Before commencing any excavation, the Contractor shall obtain an Underground Service Alert (USA) inquiry identification number by calling (800) 642-2444.
   b. The Contractor shall allow four (4) calendar days after the identification number is obtained and before excavation work is started so that utility owners can be notified by the Contractor.
   c. Identification numbers will not be given more than ten (10) calendar days prior to starting excavation work.

3.2 PROTECTION

A. The Contractor shall provide for temporary protection of street lighting and traffic signals required for construction operations.

B. The Contractor shall take necessary precautions to preserve and protect private and public property within and adjacent to the site.

C. The Contractor shall provide and maintain barricades, guard rails, plates and other safety devices as required, as Incidental Work. Refer to Section 01 50 00 – Temporary Facilities and Controls.

3.3 SURVEY REFERENCE POINTS

A. The Contractor shall locate and preserve horizontal coordinates, and vertical elevations of San Francisco survey monument points during construction. The Contractor shall notify the County Surveyor at (415) 554-5833 to report any monuments in danger of disturbance, destruction or removal. All City monuments are to be protected per State Land Surveyors Act and Section 01 71 33 – Protection of Adjacent Construction.

B. The Contractor shall not disturb, destroy or remove any survey monuments without approval from the County Surveyor. The Contractor shall salvage any monuments removed during construction and deliver these monuments to the Subdivision & Mapping County Surveyor at 1155 Market Street, 3rd Floor, San Francisco.

3.4 SURFACE FACILITIES

A. The Contractor shall remove as part of the surface facilities, all related subsurface foundations, footings and encasements of removed or salvaged facilities as indicated on the Drawings and as necessary to accommodate the Work, including new foundations, footings and encasements.

B. The Contractor shall provide 48 hours notice prior to any delivery of salvaged items.

C. Salvaged traffic signs will be delivered to the Municipal Transportation Agency (MTA) Sign Section at 1508 Bancroft Street, San Francisco. Telephone (415) 554-9785. Refer to Section 01 55 26 for Sign Inventory Form submittal requirements.

D. Salvaged traffic signals, poles and other related equipment will be delivered to MTA's Traffic Signal Division Shop Yard at 2650 Bayshore Blvd, Daly City, CA 94104, Phone (415) 550-2736.

E. Salvaged street lighting equipment specified or shown to be salvaged as City property will be delivered to the Bureau of Light, Heat and Power at 15th and Harrison Streets, San Francisco, Phone (415) 554-0730.

F. Salvaged rims, gratings and covers of DPW catch basins, sewer water inlets and manholes will be delivered to the City Yard at 2323 Cesar Chavez Street, San Francisco.

G. All facilities to be removed as the Contractor's property will be removed from the site and disposed of in a legal manner.

H. The Contractor shall remove debris from the site daily, unless otherwise directed. Refer to Section 01 50 00 – Temporary Facilities and Controls, for maintenance of the site and dust control requirements.

I. Granite Curb

1. Granite curb shall only be replaced with concrete curb on curved sections and as part of the curb ramp construction. Existing granite curb in good condition shall be reset to new grade. If existing granite curb is damaged, contractor shall notify City Representative.

2. In the event granite curb is to be replaced with concrete curb, the Contractor shall remove them from the site as City property. All delivery must be initiated and authorized by City Representative. Only granite curb greater than 4 feet in length will be accepted. The granite curb will be neatly and securely placed on pallets so they can be moved about safely after delivery. The granite curb will be delivered, including off loading, to the Treasure Island Maintenance Yard at 701 14th Street at Avenue I, Treasure Island, or where directed by the City Representative within the City.
   a. Contact Mike Kelly of the Bureau of Street and Sewer Repair at Mike.Kelly@sfdpw.org.
   b. Provide a minimum of 48 hour notice for delivery / cancellation via written notification with the following information:
      Project Name
      Project Number
      City Representative Name
      Contractor Contact Number
      Estimated Delivery Quantity

3. The Contractor shall clean the granite curb of dirt, debris, and other construction material and exercise care in transporting the granite curb so as to minimize damage.

4. Salvage, hauling and delivery of existing granite curb to the designated areas from the site will be done as Incidental Work.
   a. Delivery is to be made between 8am to 3pm, Monday through Friday.
   b. During delivery, driver is to check in with the Yard Master for designated deliver location.
   c. Yard Master may reject mix and/or unclean load.

d. Additional charges will be incurred for:
   1) Cleaning and Sorting, if Yard must double-handle load to sort, clean and stack delivery;
   2) Yard Opening and Operation during non-operation hours and unscheduled deliveries.

3.5 SUBSURFACE FACILITIES

A. If applicable, the Contractor shall remove as part of the surface facilities all related subsurface foundations, footings and encasements of removed or salvaged facilities as indicated on the Drawings and as necessary to accommodate the Work.

B. Cobblestones

1. In the event cobblestones are encountered in any street under construction, the Contractor shall remove them from the site as City property. All delivery must be initiated and authorized by City Representative. The cobblestones will be neatly and securely placed on pallets so they can be moved about safely after delivery. The cobblestones will be delivered, including off loading, to Treasure Island Maintenance Yard at 701 14th Street at Avenue I, Treasure Island, or where directed by the City Representative within the City.
   a. Contact Mike Kelly of the Bureau of Street and Sewer Repair at Mike.Kelly@sfdpw.org.
   b. Provide a minimum of 48 hour notice for delivery / cancellation via written notification with the following information:
      Project Name
      Project Number
      City Representative Name
      Contractor Contact Number
      Estimated Delivery Quantity

2. The Contractor shall clean the cobblestones of dirt, debris, and other construction material and exercise care in transporting the cobblestones so as to minimize damage.

3. Salvage, hauling and delivery of existing cobblestones to the designated areas from the site will be done as Incidental Work.
   a. Delivery is to be made between 8am to 3pm, Monday through Friday.
   b. During delivery, driver is to check in with the Yard Master for designated deliver location.
   c. Yard Master may reject mix and/or unclean load.
   d. Additional charges will be incurred for:
      1) Cleaning and Sorting, if Yard must double-handle load to sort, clean and stack delivery;
      2) Yard Opening and Operation during non-operation hours and unscheduled deliveries.

3.6 PAVEMENT CUTTING

A. Pavement cutting will be performed in accordance with the requirements of Section 31 23 33 – Trenching and Backfilling.

3.7 DISPOSAL

A. The Contractor shall dispose of all removed and demolished materials, in a legal manner as the Contractor's property, except for items indicated to be salvaged and delivered to the City.

B. Excavated materials to be disposed of by the Contractor in a legal manner as the Contractor's property, will include, but are not limited to the following:

1. Asphalt concrete and concrete base roadway pavement, concrete pavement and parking strip, concrete gutter, concrete curb, concrete sidewalk, shrubbery, roots, garbage, extra soil material, and other debris.

END OF SECTION

SECTION 02 81 10

ENVIRONMENTAL MANAGEMENT OF EXCAVATED MATERIALS

PART 1 - GENERAL

1.1 DESCRIPTION

A. The Contractor is alerted that up to 20% of the surplus soils to be excavated, transported and disposed after the pre-excavation soil profiling may be classified as a hazardous waste and/or contaminated material. Work in this Contract will involve working environments that may be hazardous, contaminated, or non-hazardous to activities associated with the excavation, handling, transportation, and disposal of all excavated materials and other wastes in the project area with emphasis to hazardous and contaminated materials.

B. Serpentine, serpentinite, or other ultramafic rocks and soils containing Naturally Occurring Asbestos (NOA) shall be encountered on this project.

C. Such hazardous, contaminated, and non-hazardous environments include, and are not limited to hazardous and non-hazardous materials, soils, groundwater, heavy metals, petroleum hydrocarbons, polynuclear aromatic hydrocarbons, organic compounds, serpentine rock and ultramafic material (which may contain natural occurring asbestos - NOA), lead-based paint materials, sewage, sludge, debris, grit, sewer gases, bacterial/biological contamination, rail road ties, oxygen deficiency, and confined spaces.

D. In the event that hazardous and contaminated material is unexpectedly discovered, the Contractor shall immediately notify the City Representative both verbally and in writing. Upon receipt of such notification, the City, at its sole option, may either (a) perform the remediation work using its own forces or using an outside contractor specializing in remediation work or, (b) direct the Contractor to perform all or any part of the remediation and hazardous materials removal work.

E. The Contractor shall be responsible for providing its employees with all levels of personal protective equipment (PPE). The Contractor shall be responsible, and the City will not pay any additional compensation to the Contractor for providing its employees with the all levels of training and personnel protective equipment (PPE), including personal air monitoring if required. This includes areas where hazardous and contaminated soils and waste is encountered.

F. For work in this Contract, the Contractor shall have taken into account the productivity losses, if any, due to the use of respirators and personal protective equipment. The City will not pay any additional compensation to the Contractor due to its use of respirators, and personal protective equipment.

G. Lead Hazards: All work that affects any level of lead will at a minimum be performed by the General Contractor or its subcontractors under the Cal/OSHA Lead in Construction Standard 8 CCR 1532.1 as well as all Federal, State, and Local regulations at no additional cost to the City.

H. Hazardous and non-hazardous waste shall only be disposed at permitted California landfills (22 CCR 66262), equivalent out-of-state landfills (40 CFR 262), permitted recycling facilities, and at other projects as approved by the City.

I. The Contractor is hereby notified that any screening or crushing operations of excavated materials cannot proceed without the appropriate BAAQMD and Cal-EPA/DTSC permits.

J. All work in this Section (including but not limited to excavation, handling, stockpiling, re-use of excavated soils pre-excavation profiling and environmental training) shall be incidental to mobilization including to the Bid Item SW-26, Mobilization of Sewer and Drainage Work unless noted otherwise.

K. Bid Item Nos SW-22, SW-23, SW-24 and SW-25 are for the Transportation; and Disposal of CA Class I, II and III soils.

L. Bid Item No. SW-31, Allowance for Unforeseen Environmental Work: This allowance is for the work associated with the discovery unforeseen hazardous materials, additional environmental testing, in addition to that required for pre-excavation soil profiling in this section and other unforeseen environmental work that is not covered by the Contract, and as determined by the City Representative only. The unused portion of the cash allowance shall be credited to the City. Mark up and profit for all tiers of sub-contracted work shall be limited to 5% each, with a maximum of two-tiers, and as approved by the City Representative.

1.2 RELATED SECTIONS

A. Section 01 35 45 Health and Safety Criteria

B. Section 01 35 49 Minimum Environmental Procedures

C. Section 01 35 50 Additional Environmental Procedures

D. Section 01 41 00 Regulatory Requirements

E. Section 01 57 13 Temporary Erosion and Sediment Controls (ESCP)

F. Section 33 24 00 Ground Water Wells

1.3 SUBMITTALS

A. The Contractor shall submit the documents listed below, and have the Plans approved by the City Representative at least 20 working days before any soil disturbing activity, and no later than 30 calendar days after the Notice to Proceed.

B. Pursuant to the provisions of the General Conditions and Section 01 33 00, Submittal Procedures, the Contractor shall submit the following as separate submittals:

1. Name and qualification of the environmental consultant, and the accredited environmental laboratory to be used.

2. Pre-Excavation Soil Profiling Sampling Plan in accordance with Part 1.4 herein.

3. An Environmental Site Assessment (Phase II) results in accordance with Part 1.4 herein.

4. Waste Profile Application Package on each waste stream that the Contractor plans for disposing the excavated soil. The Contractor shall prepare and submit waste profile application to each proposed disposal facilities for acceptance. The formal waste profile application will also include, if any, additional information (such as slurry additive applied by the construction contractor as part of the

construction) will be included in the formal waste profile application. Only the Generator (City) will sign the profile application.

5. Waste Profile # (s) from the permitted landfills or the permitted disposal & recycling facilities that the Contractor will use.

6. Workers Mandatory Environmental Training Records in accordance with Part 1.7 herein, as requested by the City's Representative.

7. Transporter's current Class 1 Certificate of Compliance from the California Highway Patrol and Hazardous Substance Removal Certification in accordance with Part 1.9 herein, as warranted.

8. Copy of the Non-Hazardous Waste Manifest form in accordance with Part 1.10 herein.

9. Uniform Hazardous Waste Manifest form in accordance with Part 1.11 herein, as warranted.

10. The original source of where the import soils are coming from, the name of the laboratory used to analyze the soils, and the date of chemical analysis, and the analytical test results, and frequency of the analytical testing in accordance with Part 3.3 herein.

11. Cal/OSHA asbestos Competent Person training records as pertaining to requirements specified in the Cal/OSHA standard 8 CCR § 1529, and when Serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

12. Cal/OSHA asbestos worker training records as pertaining to requirements specified in the Cal/OSHA standard 8 CCR § 1529, and when Serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

1.4 PRE-EXCAVATION ENVIRONMENTAL SOIL PROFILING (PHASE II ENVIRONMENTAL SITE ASSESSMENT)

A. The Contractor may choose an environmental consultant from current list of as needed environmental consultants with master agreements with San Francisco Public Works to perform the pre-excavation soil profiling (Subsurface Investigation Work Plan and Phase II Environmental Site Assessment). If the Contractor seeks an exemption from the list of environmental consultants listed below, then the Contractor, shall submit the name and qualifications of another environmental Consultant to be approved by the City Representative.

B. NOTE: Environmental Consultants that work on the planning, design and construction phase of this project are not allowed to work under the Contractor to perform this pre-excavation profiling.

C. The current list of as needed environmental consultants with master agreements with San Francisco Public Works is alphabetically listed as follows.

1. AEW Engineering, Inc; telephone: (415) 495-8400

2. Baseline Environmental Consulting; telephone: (510) 420-8686

3. Fugro USA Land, Inc; telephone: (916) 773-2600, ext. 128

4. Ninyo & Moore; telephone: (510) 343-3000, ext.15212

5. SCA Environmental, Inc; telephone: (415) 867-9540

6. TRC-Avila JV LLC; telephone: (925) 688-2479

7. Ward & Associates; telephone: (415) 626-3030

D. The pre-excavation profiling (Phase II Environmental Site Assessment) shall be done so as to classify the excavated soils for disposal to a permitted landfill or to a reuse facility. The Contractor is responsible for working with the landfill or to a reuse facility to correctly profile the soils to the depth of the excavation, for landfill acceptance, and to ensure a load and go off-hauling during construction, with no further environmental testing. The pre-excavation profiling shall be done at least 40 days prior to excavation work. It is therefore necessary for the Contractor to identify this work in its schedule.

E. The Contractor shall submit a Pre-Excavation Soil Profiling Sampling Plan for review and approval by the City's Representative prior to any drilling or potholing. The Pre-Excavation Soil Profiling Sampling Plan shall:

1. Include excavation volumes in cubic yards.

2. Include a diagram showing sampling locations and depths.

3. Include sampling analytical tests and sampling methods.

4. Include the collection and compositing strategy.

F. After receipt of the above approval, obtaining the required drilling permits, the Contractor shall collect soils samples to the required depths of the excavation. Collect a minimum of 2 vertical composite soil samples per hole. This sampling strategy is subject to change pending the review and approval of the City's Representative. At a minimum, the Contractor shall analyze each sample for:

1. Total Petroleum Hydrocarbons-Gasoline/BTEX/MTBE (EPA Method 8015 mod/8021).

2. TPH-Diesel/Motor Oil (EPA Method 8015 with silica gel cleanup).

3. Volatile Organic Carbons VOCs (EPA Method 8260). NOTE: All RCRA regulated compounds must be reported.

4. Semi-Volatile Organic Carbons SVOCs(EPA Method 8270) with organic cleanup to achieve the lowest extent possible detection limits below the current San Francisco Regional Water Quality Control's residential Environmental Screening Level (ESLs), Tier 1 (http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml). NOTE: All RCRA regulated compounds must be reported.

5. Organochlorine Pesticides (EPA Method 8081) and Polychlorinated Biphenyls (PCB's) by EPA Method 8082 with organic cleanup to achieve the lowest extent possible detection limits below the current San Francisco Regional Water Quality Control's residential Environmental Screening Level (ESLs), Tier 1 (http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml). NOTE: All RCRA regulated compounds must be reported.

6. Title 22 Metals (EPA Methods 6000/7000 Series) and soluble Total Concentration Leaching Potential (TCLP) and Soluble Threshold Limit Concentration (STLC) metals (as warranted – 10x STLC & 20x TCLP).

7. pH and Corrosivity tests.

8. Asbestos (CARB Method 435).
9. Chromium +6 (EPA Method 7199).
10. NOTE: For the above analyses, the Laboratory Reporting Limit (RL) for all constituents must be reported below state or federal limits to determine waste disposal classification.

G. The Contractor shall forward the samples to an accredited environmental laboratory. The furnishing of all labor, materials, and equipment for sample collection and delivery to the testing laboratory will not be separate measures for payment.

H. The approximate 7 borings/pothole locations along the alignment will be at:

1. Ortega Street between 19th Avenue to 23rd Ave (SW – 1) (SW – 2)
2. Ulloa Street between 27th Avenue to 29th Avenue (SW – 3)
3. Ulloa Street between 22nd Avenue to 26th Avenue (SW – 4) (SW – 5)
4. 18th Avenue between Pacheco Street to Rivera Street (SW – 6) (SW – 7)
5. 16th Avenue between Taraval Street to Ulloa Street (SW – 8)
6. 16th Avenue between Vicente Street to Wawona Street (SW – 9)
7. Ortega Street between 27th Avenue to 28th Avenue (SW – 10)

I. The Contractor shall determine the exact location of the drill holes/potholes, with reference to utility plans and Underground Service Alert clearance. The Contractor shall be responsible for all permits, utility clearance and traffic routing during the pre-excavation environmental soil profiling and as per other Sections in this Contract.

J. The Contractor shall coordinate with the City Representative prior to scheduling the sampling to allow the City Representative to witness the sampling.

K. The pre-excavation environmental soil profiling (Phase II Environmental Site Assessment) required in this Article shall be conducted by a California licensed Professional Geologist or Professional Civil Engineer, and the driller (if used) shall possess a State of California C-57 (Well Drilling) license.

L. The Contractor shall provide the City Representative with a schedule for drilling the bore holes, at least 72 hours in advance of drilling the first hole or change any thereof.

M. The Contractor shall allow in its schedule of work the time required in obtaining environmental analytical results of the soil samples on a standard (normal) turnaround time. The standard turnaround time to obtain environmental analytical results varies between 5 to 20 working days.

N. Analytical testing shall be done at a California State accredited laboratory (or an out-of-state accredited laboratory if appropriate). The selected laboratory shall guarantee a maximum of 10 days standard turnaround time at standard rates for results of analytical testing. All original copies of test results shall be forwarded to the City Representative. Emailed copies of results are acceptable as an interim step.

O. The Contractor shall tabulate the results from the laboratory results and submit it to the City Representative. Tabulation of the results shall compare the results against Tier 1 ESLs, ESL Construction Worker, ESL Residential, TTLC, STLC, 10x STLC, TCLP, 20x TCLP values.

1.5 CLASSIFICATION AND MANAGEMENT OF EXCAVATED MATERIALS

A. The pre-excavation profiling shall be done so as to classify the excavated soils for a "load and go" disposal to a permitted California landfill or equivalent out of State landfill for Class I, II & III disposal, or permitted disposal & recycling facilities.

B. An intermediate soil staging and loading facility is not provided as part of this Contract The Contractor may use its own or a subcontracted intermediate soil staging and loading facility. Such a facility shall be permitted in accordance with federal, State, and local regulations and meet the definitions of the California Code of Regulations (CCR) Title 22, 66260.10 for "Individual generation site", "Onsite", "Onsite facility".

C. Except as otherwise stated in the Contract Documents, the Contractor is responsible for the excavation, loading, handling, transportation, and disposal of all surplus waste excavated soils and sediments from dewatering activities, meeting requirements of a certified and permitted California landfill or an equivalent out-of-state landfill. All such disposal activities shall require the approval of the City Representative prior to actual loading and disposal.

D. Conditions for acceptance at various local landfills/waste disposal facilities include, filling out of a waste profile, that the surplus waste excavated soil hauled to the landfill will have greater than 50 percent solids, and cannot have any free liquids. It is the Contractor's responsibility to meet landfill requirements for disposal.

E. If the soils from this area cannot be reused, such surplus waste excavated soils shall be disposed at a certified and permitted California landfill for Class I, or Class II, or Class III, disposal or an equivalent out-of-state landfill. Acceptable landfills/waste disposal facilities for California Class I, II and III wastes are:

1. Republic Services, http://www.republicservices.com/Corporate/Business/WasteRecycling/Facilities/landfills.aspx
2. Waste Management Inc, https://www.wm.com/find-a-facility.jsp
3. Clean Harbors Buttonwillow LLC, www.cleanharbors.com

F. With the exception of this Article 1.4 herein, the Contractor shall not conduct any environmental or hazardous materials sampling or analysis without prior permission from the City Representative. This does not include the Contractor's obligation for any personnel air monitoring.

G. The Contractor shall inform the City Representative in writing and obtain City's approval prior to any sale, supply, or offer to sell excavated material. The Contractor shall similarly comply with Bay Area Air Quality Management District's (BAAQMD's) Regulation 11, Rule 14 for asbestos-containing serpentine. Additional information may be found at http://www.baaqmd.gov/regs/rg1114.pdf, the California Air Resource Board Advisory #161 (http://www.arb.ca.gov/cd/advs161.htm, and Title 17, Section 93106 of the California Code of Regulation (CCR). In such a case, the Contractor, at its own expense, shall perform all the engineering and chemical testing as required by the City and by federal, State, and local statutes, laws, regulations, and policies.

H. Asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound or deleterious matter shall be excavated separately from the soil layer, and shall not be reused as backfill. The removal, management, transportation, and disposal of asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions,

and other organic, unsound, or deleterious matter shall be incidental to its respective bid items.

I. Soils of different waste disposal classification shall be segregated when excavated, managed, transported, and disposed separately with no mixing of the different types of wastes.

J. Soil Disposal Spreadsheet: As warranted, the Contractor shall submit five hardcopies or a digital copy of a monthly spreadsheet of all imported fill deposited at the project site to the City Representative. The spreadsheet shall include information on project name, Contract No., date the soil was excavated, the location the soil was excavated (street address and depth range), quantity (cubic yards and tons), soil type, non-hazardous waste form No., or manifest No., Weight ticket No, transporter, and landfill information.

K. For work in this Contract, the Contractor shall take into account the productivity losses, if any, due to but not limited to encountering and managing hazardous or non-hazardous materials, the use of respirators and personal protective equipment. The City will not pay additional compensation to the Contractor due to encountering and managing hazardous or non-hazardous materials, use of respirators, and personal protective equipment.

L. The City reserves the option and right, at any time, to use its own forces to excavate, remediate, bioremediate, haul, recycle, or dispose of both, hazardous and non-hazardous materials at its own facilities, California State approved facilities, contracted facilities or contracted out-of-state facilities.

1.6 DEFINITIONS

A. Generator: The City is the "generator" as defined in Section 66260.10 of Article 2, Chapter 10, Division 4.5 of Title 22 of the California Code of Regulations (CCR) and in Title 40, Code of Federal Regulations (CFR) of any excavated pre-existing hazardous waste. The City will be responsible as the generator to the extent of the law.

B. Waste: Discarded material of any form as defined by the Code of Federal Regulations 40 CFR 261.2 (http://www.access.gpo.gov/nara/cfr) and the California Code of Regulations 22 CCR 66261.2 (http://ccr.oal.ca.gov).

C. Hazardous Waste: This may include excavated material, friable asbestos containing material (ACM) that is not naturally occurring in rock and soil, loose and peeling lead–based paints, and other material that is regulated by and requires management, handling, transport, treatment, storage, and disposal according to the requirements of the Federal Resource conservation Recovery Act (RCRA) and associated regulation 42 U.S.C. 6901 et seq. (http://www.access.gpo.gov/congress/cong013.html) and 40 CFR Part 260 et seq., or the California Hazardous Waste Control Law (http://crc.losrios.cc.ca.us/~hodappd/20a/ callaw/index.htm) and associated regulations (Health and Safety Code 25000 et seq. (http://www.leginfo.ca.gov/calaw.html) and 22 CCR 66260 et seq.).

D. References to hazardous material or contaminated material incorporate definitions of hazardous pollutants, hazardous contaminants, hazardous material, hazardous substances, hazardous waste, toxic pollutants, and toxic substances applicable in accordance with federal, State, and local statutes, laws, and regulations.

E. Management of excavated materials or "management" means transportation, transfer, recycling, recovery, disposal, handling, processing, storage, and treatment of excavated materials in accordance with federal, State, and local laws and regulations

F. Soil: earth material composing the superficial geologic strata (material overlying bedrock), consisting of clay, silt, sand, or gravel size particles as classified by the U.S. Soil Conservation Service. Soil does not include asphalt, concrete, aggregate base, vegetation, debris, wood, obstructions, and other organic, unsound, or deleterious matter.

G. Excavated material includes all soils (fill, alluvium, bedrock), and other materials generated in the course of the project work, which are to be excavated, handled, or disposed of as part of the Contract.

H. Waste excavated soil is excavated soil that is a waste and cannot be reused within the project site in accordance with reuse criteria of this Section. It is surplus and shall be managed, transported, and disposed of as part of the Contract. Waste excavated soil does not include asphalt, concrete, vegetation, wood, debris, obstructions, and other organic, unsound, or deleterious matter.

I. Naturally Occurring Asbestos (NOA): NOA in the City and County of San Francisco is typically associated with ultramafic, metamorphic or metamorphosed rocks within the Franciscan mélange, including serpentinite, greenstone, and blueschist. There are six regulated naturally occurring asbestos minerals: chrysotile, crocidolite (asbestiform riebeckite), amosite (grunerite-cummingtonite), tremolite, actinolite, and anthophyllite (CGS 2002). The six asbestos minerals are divided into two distinct mineral groups; serpentine minerals (chrysotile), and amphibole minerals, which include the remaining five above-mentioned minerals. These asbestos minerals are classified as known human cancer-causing substances by local, state, and federal health agencies (DTSC 2004), and regulated by name.

J. The following soil classifications with corresponding requirements are established solely for the purpose of payment for the handling, transportation and disposal of the excavated materials determined to be a waste:

1. California Class I (non-RCRA) hazardous waste: is waste excavated material that is classified as California (non-RCRA) hazardous waste, requires disposal at a California Class I disposal facility or a similarly permitted out-of-state facility and requires transport by a registered hazardous waste transporter.

2. California Class II and Class III designated waste (Class II and Class III): is non-hazardous waste, and is not a California or Federal hazardous waste. It requires disposal at a California Class II or Class III disposal facility or at a similarly permitted out-of-state facility without the need of a registered hazardous waste transporter.

3. Asbestos containing rock and soil where the asbestos is naturally occurring and not associated with cross contamination by building materials may be classified as California Class II waste. The Contractor shall contact the landfill it identifies to receive waste to assure that asbestos containing naturally occurring materials meet the acceptance criteria of the California Class II landfill.

1.7 WORKER'S MANDATORY ENVIRONMENTALTRAINING

A. At no cost to the City, the Contractor shall provide sufficient numbers of properly trained personnel (including its subcontractors) who may come in contact with, may be exposed to, disturb, operate equipment in, or otherwise excavate, handle, transport and dispose hazardous or contaminated excavated materials, asbestos, naturally occurring asbestos (NOA), and silica.

B. At no cost to the City, the Contractor shall ensure that its workers and that of its subcontractors have the following appropriate environmental training. It is the

Contractors responsibility (and not that of the City) to ensure that its workers and its subcontractors have the necessary training certifications, and personal protective equipment (PPE) as required by federal, state and local laws and regulations. The Contractor shall submit certifications or proof of such training when requested by the City.

C. At no cost to the City, the Contractor shall hire an experienced Certified Industrial Hygienist (CIH) and a Registered Geologist (RG) to assist it with the following:

1. HAZWOPER: This training is required of the Contractor's employees (including its subcontractors) who may come in contact with, may be exposed to, disturb, operate equipment in, or otherwise excavate, handle, transport and dispose hazardous or contaminated excavated materials, asbestos, naturally occurring asbestos (NOA), and silica. Employee(s) shall possess a current 40-hour Hazardous Waste Operation and Emergency Response ("HAZWOPER") training and certification and the associated 8-hour HAZWOPER refresher training (in accordance with Sections 5192 and 5144 of Title 8, CCR and Title 29 CFR, Sections 1910.120 and 1910.134), and shall be certified to wear appropriate personal protective equipment and respirators.

2. Cal/OSHA Asbestos Class II asbestos operations and Asbestos Competent Person (ACP): The Contractor shall meet its obligations under CCR Title 8, Section 1529 when Serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

   a. The Contractor and its subcontractors shall have its workers, trades people and Competent Person that will come in contact with serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) be trained for the Class II work activity level as per the Cal/OSHA standard 8 CCR § 1529.

   b. The Contractor shall have a Cal/OSHA asbestos Competent Person as it pertains to requirements specified in the Cal/OSHA standard 8 CCR § 1529, and when serpentine, serpentinite, or other ultramafic rocks containing Naturally Occurring Asbestos (NOA) is present.

3. SILICA: The Contractor shall meet its obligations under the Respirable Crystalline Silica standard for construction, found in the California Code of Regulations, Title 8, sections 1530.1, 1532.3, and 5155; and OSHA Regulation 29 CFR 1926.1153.

4. Health and Safety training.

5. Lead awareness training (for all trades who will come in contact and disturb lead containing paints as per Cal/OSHA 1532.1 Lead in Construction standard). If personal exposures to the workers exceed the 8-hr Permissible Exposure Level (PEL) of 50 micrograms/cubic meter, such worker(s) must have received training as a CDPH Certified Lead Worker (as per 17 CCR Division 1, Chapter 8).

6. Dust Control and Mitigation awareness training to enable the Contractor's personnel to comply with Section 01 35 50, Additional Environmental Procedures.

7. Medical examination and blood tests (as warranted).

8. Respiratory protection (including current respirator fit test records).

9. Storm water pollution prevention awareness training to enable the Contractor's personnel to comply with Section 01 57 13.

10. Other training as necessary and pertaining to the work being conducted.

D. Only qualified persons shall engage in hazardous materials-related work. Contractor and Subcontractor personnel, who come in contact with, are exposed to, disturb, operate equipment in, or otherwise handle hazardous or contaminated materials, or demolition debris shall have appropriate hazards communication, environmental training and medical monitoring.

E. The City will not grant extensions of time or increases in payment for costs associated with the Contractor's productivity losses, inability to provide properly trained personnel, costs of training Contractor's workers, or hiring of required personnel.

F. It is the Contractor's responsibility and liability to ensure that its workers and that of its subcontractors have the proper training, personal protective equipment (PPE), and respiratory protection.

G. The Contractor, not the City, is responsible for the health and safety, training, personal protective equipment (PPE), and monitoring and protection from exposure risks of its employees and subcontractors, as per federal, state and local statutes, laws and regulations.

H. The Contractor is obligated to conduct any required personal air monitoring of its workers, at its own expense, in accordance with Section 01 35 45 Health and Safety Criteria.

1.8 REGULATORY INDEMNIFICATION

A. The City will not indemnify against liability of the Contractor resulting from the activities or duties, which are the responsibility of the Contractor under the terms of this Contract. This includes, but is not limited to, liability arising from the arrangement of transportation of excavated material, whether on- or off-site. Therefore, the City will not assume any liability, present or future, incurred by the Contractor by reason of these activities.

B. The Contractor is specifically alerted to, and shall familiarize itself and its Subcontractor(s) to, the liability statutes of:

1. The Comprehensive Environmental Responses, Compensation, and Liability Act (CERCLA) of 1980 found in 42 USC, Section 9601 et seq.

2. The Superfund Amendments and Re-authorization Act (SARA) of 1986 found in 42 USC, Section 9601 et seq.

3. The California Hazardous Substance Account Act (HSAA) of 1981 found in California Health and Safety Code, Section 25300 et seq.

4. California Health and Safety Code, Division 20, Regulations and CCR 22 Section 6600 et. seq.

5. Cal/OSHA Lead in Construction Standard, Title 8, CCR, Section 1532.1.

6. BAAQMD Regulation 6 for Particulate Matter and Visible Emissions (http://www.baaqmd.gov/regs/rg0600.pdf) and Regulation 11 for Hazardous Pollutants (http://www.baaqmd.gov/regs/rulereg.htm).

7. The Final Regulation Order of the California Code of Regulations (CCR) Title 17, Public Health, Section 93105, on Asbestos Airborne Toxic Control Measure for

Construction, Grading, Quarrying, and Surface Mining Operations (http://www.arb.ca.gov/toxics/atcm/asb2atcm.htm).

8. The California Air Resources Board (CARB) Asbestos Airborne Toxic Control Measure for Surfacing Applications.

9. The San Francisco Building Code Section 106.3.2.6

10. San Francisco Health Code, Article 22B - Construction Dust Control Requirements.

11. The DPW Dust Control Order 171,378.

C. The Contractor shall be responsible for all liability and costs necessary to prevent its own or Subcontractors' operations from violating federal, State, or local statues, laws, regulations, and policies.

1.9 REQUIREMENTS FOR THE TRANSPORTER

A. As warranted, the Contractor shall ensure that its drivers as well as the subcontractor drivers have in their possession, during the hauling of material and soil, all applicable California State and local vehicle insurance requirements, valid driver's license, and vehicle registration and licensing. A current Class 1 Certificate of Compliance from the California Highway Patrol shall be affixed to each vehicle.

B. All hazardous materials/waste haulers shall possess a Hazardous Substance Removal Certification granted by the State of California, Contractors State License Board (1 800-321-2752 or http://www.cslb.ca.gov), and all other required certifications and insurance.

C. Haul trucks carrying excavated material shall be loaded so that the material does not extend above the walls of the truck bed, and there is no leakage from any vehicle. All truckloads shall be covered.

D. All truckloads containing Naturally Occurring Asbestos (NOA) and Serpentinite require both covering the load as well as lining the underneath of the truck bed ("burrito wrap") with 10mil HDPE. This is required regardless if the material is wet, hazardous, or non-hazardous.

E. The Contractor shall be responsible for cleaning up excavated material spill, which occurs during loading, handling, and transportation.

F. Preparation for shipment: Marking, labeling, placards, and packaging prior to transport shall be in accordance with all regulations and shall be the responsibility of the Contractor.

1.10 USE OF NON-HAZARDOUS WASTE MANIFEST FOR CLASS II MATERIAL OR LESSER

A. For transportation and disposal of the waste, the Contractor shall provide and prepare for the City Representative's signature, a Non-Hazardous Waste Manifest form obtained from the landfill provider. The Non-Hazardous Waste Manifest form shall be completed for each vehicle carrying excavated material classified as California Class II and Class III designated waste, or of a lesser waste classification. The Contractor shall submit the Non-Hazardous Waste Manifest form to the City Representative for the Generator's signature at least 72 hours in advance of the day of the off-haul with an estimate of the number of loads scheduled for off-haul. The Non-Hazardous Waste Manifest form shall contain the following information before providing the final copy for the City Representative to sign:

1. Name, address and phone number of the Generator, Project name, and Specification Section number.
2. The Contractor's billing information
3. The soil profile approval number and description of the waste.
4. Name, address and phone number of the transport company.
5. The Name, address, and telephone number of the receiving facility i.e., disposal facility.

B. The City will not be responsible for off haul delays if the Contractor does not notify the City Representative in a timely manner to sign the Non-Hazardous Waste Manifest forms.

C. On a monthly basis, the Contractor shall provide the City Representative with a copy of each completed Non-Hazardous Waste Manifest Form (with the landfills signature) and its corresponding certified weight ticket.

1.11 HAZARDOUS WASTE MANIFESTING PROCEDURES FOR CLASS I MATERIAL

A. As warranted, the Contractor shall furnish all labor, materials, equipment, and incidentals required to transport those materials identified as hazardous waste for the purpose of disposal.

B. The Contractor shall comply with all applicable regulatory requirements listed as well as other applicable federal, State, or local laws, codes, and ordinances, which govern or regulate transportation of wastes (including but not limited to DOT-HM 181 in accordance with 49 CFR 172).

C. All material classified as hazardous waste (Federal Class1 RCRA and California Class1 non-RCRA wastes only) shall be hauled off using a licensed hazardous waste transporter and the uniform hazardous waste manifest form (DTSC Form 8022A and/or EPA Form 8700-22 a.k.a. the manifest).

D. Preparation and handling of waste manifests: The Contractor shall provide and prepare the waste manifests and landfill profiles for each shipment of hazardous wastes from the site. The Contractor is hereby notified that hazardous waste manifest, waste profiling, and landfill service agreements have to be prepared and have to be approved by the landfill in advance of the off-haul. The Contractor shall consult with the City Representative for local requirements in filling out the forms.

1. 72 hours prior to off-haul, the Contractor shall provide the City Representative with an initial copy of the manifest for the City's review and approval.
2. The manifest shall describe the contents of each truck carrying materials to the waste disposal site, including the weight of the waste materials. Weight, not volume, shall be used to measure waste quantities.
3. The City Representative will provide a hazardous waste generator identification number for use on the manifest. The Contractor shall provide the State Transporter identification number and telephone number.
4. The licensed transporter shall also sign and date the manifest indicating that it has accepted the load described in the manifest on that particular day.
5. Only a City employee (and not the Contractor) will sign the manifest for the "generator" of the waste.

E. The Contractor shall notify the City Representative 72 hours prior to off-haul of all excavated material. If the manifest and other forms above are to be signed by the City Representative during periods other than the hours stipulated above, the Contractor shall give an additional 72-hour advance notice to the City Representative.

F. The City Representative will sign and keep the Generator's copy and give the remaining copies to the licensed transporter.

G. The licensed transporter shall carry the hazardous waste manifest with each truckload using the traffic control approved routes for off haul

H. Within 2 days of its return, the Contractor shall provide the City Representative with the completed waste manifest. The completed waste manifest shall be certified by the receiver of the waste shipment, confirming that the shipment was received at the waste treatment or disposal facility designated in the Contractor's bid, and certifying the weight of the shipment.

I. Should any waste manifest not be returned within 35 days of shipment, the Contractor shall initiate follow-up, shall document such follow-up effort in writing with an Exception Report in accordance with 40 CFR 262.42 and/or 22 CFR 66262.42, and shall provide a copy to the City Representative.

J. Mandatory City Information for the Manifest

1. Manifest Item 1: Generator's US EPA ID Number for Project. (Will be provided by the City Representative after NTP as deemed necessary)

2. Manifest Item 3: Emergency response Phone: # 24 hours line to be provided by the Contractor

3. Manifest Item 5:

1. Generator's Name and Mailing Address:

City and County of San Francisco
1390 Market St., Suite 210
San Francisco, CA. 94102

2. Generator's Site Address:

Name of the project

4. Manifest Item 14: The following information is mandatory:

1. Contract JO # & Name of Project: 10032497 (1048I) Sunset and Parkside Area Streets Pavement Renovation and Sewer Replacement.

2. Project Manager: Paul Barradas

3. Project Manager Phone Number #: (415) 554-8249

4. Profile # _____ (TBD by City Representative)

1.12 UNDERGROUND TANK REMOVAL PROCEDURES

A. The Contractor is alerted to the fact that underground structures and tanks may be encountered during excavation. In the event that an underground storage tank, pipes, and associated fixtures are encountered, the Contractor shall immediately suspend the work in the immediate area and notify the City Representative as well as the San Francisco Department of Public Health (415-252-3900).

B. The City Representative reserves the right to use City forces or City Contractors to remove any underground storage tank that may be discovered as part of this Contract. The Contractor shall work cooperatively with any City Contractor or City force in an effort to expedite the removal of the underground tank.

C. If directed by the City, the Contractor under differing site conditions, shall be responsible for removing and disposing the underground storage tank, pipes, and associated piping in the excavation area according to applicable laws and regulations including:

1. California Health and Safety Code (H&SC), Division 20, Chapter 6.9 (Section 25280 et.seq.)
2. California Code of Regulations (CCR), Title 23, Division 3, Chapter 16 (Section 2610 et.seq.)
3. California State Water Resources Control Board (SWRCB), Leaking Underground Fuel Tank (LUFT) Manual.
4. City & County of San Francisco, Department of Public Health, Underground Storage Tank Removal Regulations.
5. Article 21 of Part II, Chapter 5 (Hazardous Materials Ordinance) of the City and County of San Francisco, Health Code

D. The Contractor shall obtain all permits, excavate, sample, analyze and prepare all reports as required by the City's Department of Public Health.

E. The Contractor shall remove the underground tanks, pipes, and associated piping only in the presence of an inspector from the City's Department of Public Health.

F. The Contractor shall furnish three (3) copies of the draft report for review, and five (5) copies of the final report documenting the removal of an underground tank.

G. Such work will be considered as change order work.

1.13 DISPOSAL OF RAILROAD TIES AND TREATED WOOD WASTE

A. Railroad ties and wood treated with preservatives (e.g. utility poles, piers, pilings, posts, pressure treated lumber, etc), such as creosote, and/or pentachlorophenol, and/or Copper Napthenate, Zinc Napthenate, and/or Copper, Chromium, Arsenate (CCA), and/or Ammonical Chromium, Zinc, and Arsenate (ACZA) (that are not otherwise recycled by the Contractor) shall be transported and disposed of at a California Class 2 (non-hazardous) landfill.

B. For wood treated with chemical preservatives such as Chromate Copper Arsenate (CCA) treated wood: The Contractor shall comply with the Federal Insecticide, Fungicide, Rodenticide Act (FIFRA) and by the California Department of Pesticide Regulation (DPR) and Department of Toxic Substances Controls (DTSC) Regulations or for the treated wood waste as per the Health and Safety Code (HSC) 25150.7 and 25150.

C. The Contractor shall fill out a separate waste profile with the landfill for such materials.

D. The transportation and disposal of the railroad ties and treated wood waste shall be paid as a change order.

1.14 POLLUTION INSURANCE

A. All Work that involves the management, handling, transportation, and disposal of hazardous and contaminated (non-hazardous) materials shall be performed either by the Contractor or a properly licensed subcontractor, who shall furnish evidence of Contractor's Environmental Pollution Liability Insurance as specified in Section 00 73 16 – Insurance Requirements.

PART 2 – PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1. TEMPORARY STOCKPILING OF EXCAVATED MATERIAL AND IMPORT MATERIAL

A. The Contractor shall comply with Article 2.4: Excavation in the Public-Right of-Way and specifically Article 2.4.53(c) Storage of Materials and Equipment.

B. If feasible and in the event that the City Representative permits the Contractor to temporarily stockpile excavated and import material along the project alignment, the following conditions shall apply (including those in Section 01 35 50 – Additional Environmental Procedures):

1. Material shall be stockpiled at a location approved by the City Representative. The volume of the stockpile will be limited within the discretion of the City Representative.
2. Stockpiled materials shall not be stored for more than 48 hours.
3. The City Representative retains the right to suspend the use of temporary stockpiling in the event of negative public perception, aesthetic concerns, and regulatory concerns. In such an event, the Contractor is directed to remove the stockpile within 24 hours.
4. After a stockpile has been removed, the Contractor shall wet sweep and vacuum the area, street, and sidewalk to remove residual soil, restore the site to its original condition.
5. Stockpiles of site backfill soils shall be tarped using a different colored tarp from that of import soils.
6. Stock piles must be kept adequately wetted, treated with a chemical dust suppressant, or covered when material is not being added to or removed from the pile, and securely tarped & braced (weighted or tied down).
7. Stockpile Maintenance requirements in Section 01 35 50 - Additional Environmental Procedures and 01 57 13 - Temporary Erosion and Sediment Controls.

C. All costs associated with the temporary stockpiling of soils shall be borne by the Contractor, unless necessitated by an event that is otherwise compensable under the terms of the Contract. Such related incidental costs include, but are not limited to dust control, vacuum and wet sweeping, covering of stockpiles, multiple handling and transportation, multiple staging, work re-sequencing or rescheduling, time loss and standby time due to the duration of storage, and complying with Federal, State, and local requirements.

3.2. REUSE OF EXCAVATED SOILS AS BACKFILL

A. For work under the jurisdiction of the SFPUC's Water Department: For all water pipeline trench excavation under the jurisdiction of the SFPUC's Water Department, the

Contractor shall use clean import sand to backfill trench/excavation that shall meet the CDD standard specifications of the Water Department, as well as the import fill criteria of this contract specification. The Contractor shall not reuse existing soils excavated from the trench.

B. For work under the jurisdiction of the Recreation & Park Department: The Contractor shall use clean import soils (and not existing soils) to backfill the excavation of the irrigation lines and utilities.

C. For all other backfill work: The Contractor shall maximize the reuse of soils from the excavation, unless directed otherwise by the City Representative. In such a case, the following conditions shall apply:

1. The reuse of soils as backfill material shall meet the requirements of Section 31 23 33, Trenching and Backfilling, other Sections of this specification, and Sections 707 and 709 of the Standard Specifications and Plans, Department of Public Works, City and County of San Francisco. The Standard Specifications and Standard Plans are accessible online at http://www.sfpublicworks.org/services/standards-specifications-and-plans

2. With the City's approval, Class I soils may be reused within the "area of contamination" and within 150 linear feet from its origin, as long as its meets the engineering backfill and compaction requirements, is delineated with markers, documented, and meets the San Francisco Department of Public Health (SFDPH) requirements.

3. Asphalt, concrete, bentonite, bay mud, clay, bricks, cobblestones, rocks, rubble, scrap metal, railroad tracks and ties, debris, imported contaminated soils, vegetation, wood, debris, obstructions, and other organic, unsound, or deleterious matter will not be accepted as backfill material. The Contractor shall remove such materials matter prior to the placement and reuse of fill.

4. The Contractor shall notify the City Representative when and where the soils are used as backfill.

3.3. REUSE AND RECYCLING OF EXCAVATED SOILS AT OTHER FACILITIES

A. If the Contractor seeks to reuse or recycle surplus excavated soils at other projects or recycling facilities rather that dispose of them at a permitted landfill, the contractor at its cost shall:

1. Demonstrate that with the existing environmental test results that the soils can be reused or recycled. The Contractor at its expense may be allowed to conduct additional testing, and characterization of the soils, only with the City's prior approval.

2. Submit the acceptance criteria of the receiving facility or project.

3. Submit a letter of acceptance from the receiving facility or project. The letter shall indicate the volumes of soils accepted. Submit a value engineering calculation demonstrating cost savings to the City. Savings should be a spilt 50/50.

B. If the City accepts the above, the Contractor shall prior to reuse or recycling:

1. Incur on the risk of, and indemnify the City from any and all increased cost and future liability arising from the reclassification, recycling, or reuse or the surplus excavated soils if, upon reuse or recycling of such soils at any time thereafter, it is determined that the surplus excavated soils are in fact hazardous, and should not have been reused or recycled.

2. Submit a copy of the letter of acceptance and all records, including the financial statements for the value engineering saving prior to the approval of the reuse or recycling of these soils.
3. Bear all costs for any additional testing, characterization and profiling of the soils, including the value engineering cost.
4. Bear all costs for the transportation, and any other associated cost for moving these soils to another project or to a recycling facility.
5. Revise and retain its Pollution Liability insurance to cover this work.
6. Repay any cost that the City at its discretion will incur to conduct its own testing to confirm the Contractor's findings.
7. Submit a monthly Reuse and Recycling spreadsheet of all reused and recycled materials generated from the project. The spreadsheet shall include information of the receiving facility or project, quantity transported (Cubic Yards), weight tags from the recycling facility.
8. The City will issue a Change Order for this work to effectuate any saving that may accrue from this Section.
9. Such work will only be done as a change order after the acceptance and approval of the City and after the change order is processed.

3.4. IMPORT SOIL (FILL)

A. Import Soil (Fill) is soil or fill material received from sources outside of the project right-of-way. Import soil (fill) includes import bedding sand and import recycled backfill sand used in the base and subbase layers of a pavement or roadway or sporting field.

B. Environmental/chemical testing is required for each source and of the same soil classification type (based on the unified soil classification system) of the import soil (fill).

C. In advance of hauling in and use of import soil (fill) the Contractor for each source of import soil (fill), shall provide the City the original source of where the import soil (fill) is coming from, the name of the laboratory used to analyze the soils, and the date of chemical analysis. Laboratory results shall not be over 6 months old.

D. The Contractor shall provide chemical analytical results for each source and of the same soil classification type (based on the unified soil classification system) of import soil (fill) in accordance with the Recommended Fill Material Sampling Schedule stated in the Department of Toxic Substances Control (DTSC) Advisory Note for Clean Imported Material (as shown below). If the Contractor brings import soils from different sources, then the "Sample per Volume" count re-starts for each of different source of import soil (fill) (as shown below).

Import Fill Volumes (for each source of import soil (fill) and of the same soil classification type)	Samples Per Volume for each source of import soil (fill) and of the same soil classification type
Up to 1,000 cubic yards	1 sample per 250 cubic yards
1,000 to 5,000 cubic yards	4 samples for the first 1,000 yards + 1 sample per each additional 500 cubic yards
Greater than 5,000	12 samples for the first 5,000 cubic yards + 1 sample per each

cubic yards	additional 1,000 cubic yards

E. Each source of import soil (fill), import bedding sand and import recycled backfill sand of the same type, shall be analyzed as a four-point composite. Each composite shall be analyzed for Total Petroleum Hydrocarbons-Gasoline/BTEX/MTBE (EPA Method 8015 mod/8021), TPH-Diesel/Motor Oil (EPA Method 8015 with silica gel cleanup), Volatile Organic Carbons VOC's (EPA Method 8260), Semi-Volatile Organic Carbons SVOC's (EPA Method 8270), Organochlorine Pesticides (EPA Method 8081), Polychlorinated Biphenyls (EPA Method 8082), Title 22 Metals (EPA Methods 6000/7000 Series), Asbestos (CARB Method 435), Chromium +6 (EPA Method 7199), and soluble Total Concentration Leaching Potential (TCLP) and Soluble Threshold Limit Concentration (STLC) metals (as warranted – 10x STLC & 20x TCLP).

F. Import soils (fill) has to meet both the engineering backfill criteria and the chemical criteria of these contract specifications.

G. Chemical Criteria: To be accepted, the chemical concentrations of the import soil (fill) has to be equal or less than the values set forth in the Regional Water Quality Control Board (RWQCB)'s Environmental Screening Levels (ESLs), Tier 1 levels. Soils (fill) with the following chemical levels shall not be accepted as import soils (fill).

1. Exceedance of the chemical values set forth in the Regional Water Quality Control Board (RWQCB)'s Environmental Screening Levels (ESLs), Tier 1 levels.
2. Lead that exceeds 80 mg/kg.
3. Serpentine (naturally occurring asbestos) and odorous soils
4. Petroleum Hydrocarbons or Oil and Grease of any type that exceed 100 mg/kg.
5. Asphalt, concrete, bentonite, bay mud, clay, bricks, cobblestones, rocks, rubble, scrap metal, railroad tracks and ties, debris, soils containing asbestos, imported contaminated soils, vegetation, wood, debris, slag, obstructions, and other organic, unsound, unsatisfactory, or deleterious matter.

H. Environmental/chemical testing is not required of the base and subbase layers for the following materials that are used to build a pavement or roadway or sporting field: Base rock, Class II Aggregate Base (AB), Class II Recycled Base, Crushed Aggregate Base (CAB), Crushed Miscellaneous base (CMB), Processed Miscellaneous Base (PMB), Recycled Aggregate, Aggregate Subbase (ASB), reclaimed/recycled asphalt concrete (AC), and drain/crushed rock.

I. Reclaimed/recycled asphalt concrete (AC) is acceptable for the base and subbase layers to build a pavement or roadway or sporting field.

J. Crushed concrete is acceptable for the base and subbase layers to build a pavement or roadway or sporting field.

K. Import material for backfill shall comply with the Section 714 Standard Specifications and Plans, Department of Public Works, City and County of San Francisco. The Standard Specifications and Standard Plans are accessible online at http://www.sfpublicworks.org/services/standards-specifications-and-plans; and the specifications of the Water Department for work under the jurisdiction of the SFPUC's Water Department.

L. The City reserves the right to spot check and analyze the import soils (fill) as it deems necessary, including prior to it being brought on to the project site, even after the approval of the submittal of analytical results from the Contractor, as well as after its brought onsite.

M. Should the analyses of the import soils (fill) test out to exceed the above criteria, then the Contractor shall be given a chance to re-sample and spilt the samples with the City, for re-analyses. Should the re-analyses import soils (fill) test out to exceed the above criteria, then the Contractor shall have to remove the import soils (fill) brought onsite at its own expense and replace with clean import soil (fill). In such a case, the Contractor shall bear all the cost (including the City's cost) for re-analysis.

N. For Recreation and Park projects, and Community/Urban Gardens, the Contractor shall install a visual barrier (such as a plastic orange snow fence) in all areas between the native fill, backfill from other areas of the site, and the import (soil) fill. The Contractor shall call the City Representative for an inspection of the visual barrier, and wait for the approval of it, prior to the Contractor filling soil over it.

O. The Contractor shall call the City Representative for an inspection of the subbase placement, and wait for the approval of it, prior to the Contractor filling soil over it, so that the City Representative may check the proper grades and depths.

P. Analytical costs for imported fill (soil) incurred by the Contractor shall be Incidental Work to Section 31 23 33, Trenching and Backfilling.

Q. The Contractor shall furnish the above analytical results at least 10 working days prior to bringing in the import soil (fill). The acceptance of import soil (fill) will be made by the City Representative and will depend on the results of the analytical testing, backfill requirements in this Contract, regardless if it meets the testing requirements of Section 31 23 33, Trenching and Backfilling.

R. Import soil (fill) shall not be brought on-site, prior to the City Representative's approval of the analytical results submittal. Analytical results submitted shall be referenced on the import fill spreadsheet submittal.

S. Import soil (fill) shall be brought on-site at a rate where it is immediately used in the excavation. If the City Representative allows for import material to be stored overnight (only, and not longer) on site, then such import material shall be covered and placed at the Contractor's soils management yard, approved soil stockpile staging area or an area within the project alignment authorized by the City Representative. Stockpiles being stored overnight shall be completely covered with 10 mil HDPE plastic and braced (weighted or tied down) securely.

T. Import Fill Spreadsheet: As warranted, the Contractor shall submit five hardcopies or a digital copy of a monthly spreadsheet of all imported fill deposited at the project site to the City Representative. The spreadsheet shall include information on the project name, contract No., origin of import (street address, city), location of deposit (street address and depth range), quantity (cubic yards), soil type based on the unified soil classification system, the corresponding chemical, correspondent environmental analytical results submitted, truckers and trucking firm(s) used and trucking logs and invoices.

3.5. SECURING AREAS WITH EXPOSED, EXISTING SOIL

A. Wherever construction work exposes the existing soil or where existing soil is stockpiled, these areas shall be barricaded all around with continuous (no gaps greater than 4

inches) fencing (either metal wire or orange plastic), Triton barriers or other barricades at least 3 feet high. The Contractor shall ensure that barricades are installed taunt and secured against strong winds. Alternatively, the exposed, existing soil in excavation areas such as trenches, may be covered over with plates or other acceptable means. The intent is to secure the exposed, existing soil from public contact.

END OF SECTION

SECTION 03 10 00

CONCRETE FORMING AND ACCESSORIES

PART 1 – GENERAL

1.1 SCOPE

A. This specification section governs the furnishing, installing and removing of formwork to confine and shape concrete, including shoring and form supports, and installation of embedded items.

1.2 RELATED SECTIONS

A Section 03 20 00 – Concrete Reinforcing

B. Section 03 30 00 – Cast-in-Place Concrete

1.3 REFERENCED CODES AND STANDARDS

A. San Francisco Building Code (SFBC) 2010

B. American Concrete Institute (ACI) Standards

1. 301-10 – Specifications for Structural Concrete
2. 318-07 –Building Code Requirements for Structural Concrete
3. 347-04 – Guide to Formwork for Concrete
4. SP-15 – Field Reference Manual: Specifications for Structural Concrete (ACI 301-10) with Selected ACI and ASTM References

C. The Engineered Wood Association PS-1 – Construction and Industrial Plywood.

1.4 SUBMITTALS

A. Form-Facing Materials: Submit data on form-facing materials proposed if different from that specified in Section 2.1 of this specification.

B. Construction and Contraction Joints: Submit location and detail of construction and contraction joints if different from those indicated in Contract Drawings.

C. Reshoring and Backshoring Procedure: Before using reshoring or backshoring that is required or permitted, submit procedure, including drawings signed and sealed by a professional civil or structural engineer experienced in design of this work and is licensed in the State of California. Include on shop drawings formwork removal procedure and magnitude of construction loads permitted during reshoring and backshoring.

D. Submit manufacturer's data sheet on the following:

1. Formwork release agent
2. Form liner

3. Form ties

4. Expansion joint materials

5. Waterstop materials and splices

1.5 QUALITY ASSURANCE

A. Design formwork under direct supervision of a professional civil or structural engineer experienced in design of this work and is licensed in the State of California.

B. Allowable tolerances shall be in accordance with the requirements of ACI 347 unless otherwise noted on Contract Drawings or specified.

C. Maintain copies of all applicable Codes and Standards at the project site at all times.

D. Conform to the requirements of the Division of Industrial Safety, State of California, and all other codes and regulations.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, protect, and handle products in accordance with manufacturer's instruction.

B. Store materials in a manner that will preclude any damage or deterioration and provide easy access for inspection and identification of each item.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Form-Facing Materials

1. General: Form face material in contact with concrete shall be lumber, plywood, tempered concrete-form-grade hardboard, metal, plastic, or paper that creates specified appearance and texture of concrete surface.

2. Exposed Surfaces: APA grade-stamped "B-B Plyform, Class I, Exterior" douglas fir plywood; minimum ¾ inch thick; each piece grade marked; clean, smooth, uniform in size and free of raised grain, torn surfaces, worn edges, patches or other defects; no mill oiling permitted.

3. Unexposed Surfaces: Made of wood, metal, or other acceptable material. Wood forms shall be constructed of sound lumber or plywood of suitable dimensions, free from knotholes and loose knots; plywood shall be sanded smooth and fitted with tight joints between panels. Metal forms shall be of an acceptable type for the class of work involved and of the thickness and design required for rigid construction.

4. Curved Surfaces: Form with metal, plywood, or adequately supported, surfaced and matched Douglas fir boards not more than 4-inches wide.

B. Formwork Accessories

1. Form Ties: Metal, removable to a depth of at least 1-1/2 inches below the surface of the concrete. Ties shall be of sufficient strength to prevent the spreading of the forms during concrete placement. The use of wire ties will not be permitted.

2. Form Release Agents: Use an approved non-staining coating which will permit the ready release of forms and which will not affect application of applied finishes. Form release agents containing mineral oils or petroleum solvents such as paraffin will not be permitted. Use specially formulated coatings for metal forms to prevent rust stains on concrete.

3. Chamfer Strips: Except as noted on Contract Drawings and at flush joints between concrete and other construction, provide ¾ inch triangular wood or plastic strips, place and secure in forms at external corners.

4. Expansion and Isolation Joint Material: Preformed, 1 inch thick, conforming to ASTM D994.

5. Water Stop Material: Waterstop-RX as manufactured by Cetco, a wholly owned subsidiary of AMCOL International Corp., or approved equal.

C. All other materials, not specifically described, but required for proper completion of concrete formwork, shall be as selected by Contractor and subject to the approval of the City Representative.

PART 3 – EXECUTION

3.1 PREPARATION

A. Contractor shall conform to the recommendations in ACI 318, Chapter 6.

B. Vertical and Horizontal Controls: Establish and maintain necessary benchmarks, lines, or controls throughout construction.

C. Obtain necessary information and provide for openings, sleeves, chases, pipes, recesses, nailers, anchors, ties, inserts, and similar embedded items. Coordinate with concrete and other related work for requirements governing embedment and sleeving of pipes and conduit.

D. Obtain written approval from the City Representative before framing openings not shown on Contract Drawings.

3.2 CONSTRUCTION OF FORMS

A. General:

1. Construct formwork to produce concrete surfaces conforming to tolerances in ACI 301. Construct formwork to the exact shapes, lines and dimensions of concrete members, arranged to allow erection in proper sequence and to permit removal without damage to concrete finish.

2. Unless otherwise indicated on Contract Drawings, construct formwork panels in sections as large as practicable. Construct forms of boards or plywood of same widths, shapes, and design for accurate location of form joints as indicated on the shop drawings. Fasten together with cleats; joists and studs may be used, at

Contractor's option, in lieu of cleats if required for structural integrity of formwork. Verify clear space between forms to insure allowable coverage for reinforcing steel and allowable tolerances for construction.

B. Framing and Bracing: Framing, bracing and supporting members shall be of ample size and strength to safely carry, without excessive deflection (exceeding allowable tolerances), all dead and live loads to which formwork may be subjected, and shall be placed sufficiently close to prevent any apparent bulging or sagging of forms.

C. Exposed Concrete Surfaces:

1. Make plywood panel patterns regular and symmetrical, joints plumb and level, horizontal joints continuous. Control reuse of forms for exposed surfaces to provide surface of uniform color and texture without sharp demarcation between adjacent surfaces.

2. Form ties for exposed concrete surfaces shall be arranged symmetrically and shall be aligned both vertically and horizontally (do not stagger).

3. In general, provide ¾-inch chamfer at corners for exposed concrete unless otherwise noted. At chamfers, the concrete cover for reinforcement is critical and the minimum specified thickness shall strictly apply.

4. Edges of all form panels in contact with concrete shall be flush within 1/32-inch and form for plane surfaces shall be such that the concrete will be plane within 1/16-inch in 4 ft. Form joints shall be tight to prevent the passage of mortar, water and grout.

D. Embedded Items: Contractor shall secure all inserts, bolts, plates, and other embedded items. Use templates for equipment anchor bolts and other embedded items where final alignment is critical. Fill voids with readily removable material to prevent entry of concrete.

E. Waterproofing Conditions: Concrete surfaces to receive waterproofing and damp-proofing materials shall be formed to provide a relatively smooth surface free of sharp corners, projections, and offsets at form joints. Form ties shall not penetrate or damage applied waterproofing and damp-proofing.

F. Camber forms for slabs and beams as required for compensating deflection of form members. Positive means of adjustment (wedges or jacks) of shores and struts shall be provided to permit realignment or readjustment.

G. Forms for walls of considerable height shall be arranged with tremies and hoppers for placing concrete in a manner that will prevent segregation and accumulation of hardened concrete on the forms or reinforcements above the fresh concrete.

H. Provide temporary openings at bottom of forms where necessary to facilitate cleaning and inspection before concrete placement. Provide blockouts for mechanical and electrical work wherever necessary.

I. Provide forms for footings wherever concrete cannot be placed against solid earth excavation.

J. Construction joints and expansion joints shall be provided where indicated on the Drawings. Otherwise, Contractor shall provide the layout for review and approval.

3.3 APPLICATION OF FORM COATINGS

A. Thoroughly clean forms and coat with approved form–coating material prior to initial use and before each reuse. Excess form coating material shall not stand in puddles in the forms nor shall such coating come in contact with hardened concrete against which fresh concrete is to be placed.

B. Apply form–coating material before reinforcing steel, anchoring devices and embedded items are placed and in strict accordance with manufacturer's directions.

3.4 FALSEWORK

A. Contractor shall be fully responsible for the proper strength, safety of the falsework, supports and bearing surfaces which are used in connection with the work. Falsework shall be designed to support imposed loads without deformation, deflection or settlement.

B. Wedges in pairs or jacks shall be used where required to maintain and/or adjust forms and formwork for beams, slabs and other parts of the structure at exact elevations. To ensure uniform bearing, single wedges are not permitted. Comply with requirements of ACI 347.

C. Vertical and lateral loads shall be carried to ground by falsework framing, or by the completed structure after it has attained the requisite strength. Falsework supports, when placed on ground, shall be protected against undermining or settlement.

3.5 REMOVAL OF FORMS AND FALSEWORK

A. Responsibility: The sole responsibility for removal of forms/falsework and for any resulting structural or finish damage rests with the Contractor. If forms are to remain, The Contractor shall adhere to all governing requirements and/or recommendations.

B. The removal of forms and falsework shall be carried out in such manner as to ensure the complete safety of the structure. Supports shall not be removed until members have sufficient strength to safely support their own weight and all superimposed loadings with proper factor of safety.

C. Unless otherwise specified in the Drawings, the minimum time for forms to remain in place shall be:

1. Side forms for footings, foundations, slabs on grade, or other components that do not resist bending shall not be removed in less than 48 hours after concrete placement. At times of low temperature or other adverse weather conditions, the Engineer may increase the required time to five days.

2. The falsework and forms supporting concrete girders, beams, joists, slabs, walls, or other members subject to bending stress, shall not be removed or released in less than 14 days after the concrete has been placed. In any case, the falsework and forms supporting the members shall not be removed until the concrete has attained a compressive strength of at least 80% of the design strength based on test results of field cured cylinders. Furthermore, such members shall not be loaded until the concrete has attained its 28-day compressive strength.

D. All forms, supports, and falsework shall be arranged so that they may be readily removed without hammering or prying against the concrete.

E. As soon as the forms have been stripped and the concrete surfaces exposed, fins and other projections shall be removed, recesses left by the removal of form ties shall be filled, and surface defects which do not impair structural strength shall be repaired. Clean all exposed concrete surfaces and adjoining work stained by leakage of concrete.

3.6 REUSE OF FORMS

A. Reuse of forms will be accepted, providing they are in good condition and have been cleaned, repaired, and resealed as required to achieve concrete of the specified quality and texture. Do not reuse form facing more than four times.

END OF SECTION

SECTION 03 20 00

CONCRETE REINFORCING

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Furnish and install reinforcing steel bars and accessories and perform all related and incidental work for the following:
   1. Cast-in-place concrete thrust blocks as shown on the contract drawings.
   2. Other equipment pads and curbs as shown on the contract drawings.

1.2 RELATED SECTIONS

A. Section 03 30 00 - Cast-in-Place Concrete

1.3 REFERENCES

Latest editions of the following codes and standards:

A.	ACI 301	Structural Concrete for Buildings
B.	ACI 315	American Concrete Institute - Detailing Manual
C.	ACI 318	Building Code Requirements for Reinforced Concrete
D.	AWS D1.4	Structural Welding Code
E.	CRSI	Manual of Standard Practice
F.	ASTM	American Society for Testing and Materials Standards

1.4 SUBMITTALS

A. Shop Drawings:
   1. The Contractor shall submit to the Engineer for review reinforcing steel shop drawings, prepared in accordance with ACI 315, showing a list of materials, sizes, dimensions, cutting, bending, placement details, splicing and/or laps
   2. Reinforcing steel shall not be fabricated and placed before the shop drawings have been reviewed and approved by the Engineer, and returned to the Contractor. Review of shop drawings by the Engineer in no way relieves the Contractor from the full responsibility for both the accuracy of these shop drawings, and the accurate and complete placing of the work.

B. Mill Test Reports: Certified mill test reports (tensile and bending), for each heat or melt of steel, showing physical and chemical analyses, shall be submitted to the Engineer before delivery to the job site. Where reinforcing is required or requested to be welded, mill test reports shall verify the weldability of the steel.

1.5 QUALITY ASSURANCE

A. Perform concrete reinforcement work in accordance with CRSI Manual of Practice and conforming to ACI 315. Also see paragraph 3.3 for inspection requirements.

1.6 DELIVERY, STORAGE AND HANDLING

A. Reinforcement shall be shipped and stored with bars of the same size and shape fastened in bundles with durable tags, marked in a legible manner with waterproof

markings showing the same designations as shown on the approved placing drawings.

B. Reinforcement shall be stored off the ground and shall be protected from moisture and kept free from dirt, oil, or other injurious contaminants. All steel which cannot be properly identified will be rejected, and shall be immediately removed from the job site.

PART 2 - PRODUCTS

2.1 REINFORCING MATERIALS

A. Steel bars: ASTM A615, Grade 60 for #4 and larger, and Grade 40 for #3, except where otherwise indicated. All reinforcement shall be deformed billet bars.

B. Steel wire: Cold drawn, plain, ASTM A82, unless otherwise indicated.

2.2 ACCESSORIES

A. Tie wire: Minimum 16 gage galvanized annealed wire.

B. Supports and spacers: Provide spacers, chairs, bolsters, and other devices to support and secure the reinforcement in place. Use plastic tip chairs for exposed finished concrete surfaces.

2.3 FABRICATION

A. All reinforcing steel shall be shop fabricated to conform to the required shapes and dimensions, in accordance with CRSI standards. Field bending will not be permitted, except that a No. 5 and smaller bars may be bent in the field when allowed by the Engineer.

B. Bars shall be cold bent.

C. Bars shall be bent around a revolving collar having a diameter not less than that recommended by the ACI 318. Hooks shall conform to the same code.

D. Bars that are to be butt spliced, placed through limited diameter holes in metal or have a threaded end shall have the applicable end(s) saw-cut.

E. Bars shall not be damaged in bending or straightening, and bars with kinks or improper bends shall not be used.

PART 3 - EXECUTION

3.1 PLACEMENT

A. Before placing concrete, the reinforcement shall be cleaned, free of mortar, oil, grease, dirt, loose mill scale, loose rust, and any other coating that would destroy or reduce the bond.

B. Contractor shall not place any reinforcement until approved shop drawings have been received on the job site.

C. Provide continuous reinforcement where possible, splice only as shown or approved stagger splices where possible.

D. Reinforcing bars shall be firmly and securely held in position by wiring with minimum No. 16-gauge black annealed wire at intersections, and by using precast mortar blocks or metal chairs, spacers, metal hangers, supporting wires, or other approved devices of sufficient strength to resist crushing under full load and to prevent displacement during concrete placing operations.

E. Minimum clear protective covering for reinforcement adjacent to concrete surfaces and minimum clear bar spacing shall be as specified on drawings, but in no case shall it be less than values specified in the "Building Code Requirements for Reinforced Concrete" (ACI 318).

F. Placing bars on layers of fresh concrete as the work progresses, or adjusting bars during the placing of concrete, will not be permitted.

3.2 SPLICING

A. Lap Splices:
Reinforcing bars shall be spliced as indicated by lapping and securely wiring together. Splices at locations other than those indicated are subject to the approval of the Engineer and, if permitted, shall conform to the lap lengths specified in ACI-318, except as indicated on Contract Drawings.

B. Welded Splices:
No reinforcing bars shall be welded or tack welded either during fabrication or erection unless specifically called for on the drawings, specified herein, or with prior written consent of the Engineer. All bars that have been welded without such approval shall be rejected and immediately removed from the work. When welding of reinforcement is approved or called for, it shall conform to the AWS Structural Welding Code-Reinforcing Steel, AWS D1.4. If the Contractor chooses to use ASTM A706 reinforcing steel to facilitate welding, it shall be at no extra cost to the City. Inspection by a testing laboratory is required for all reinforcing bar welding.

3.3 INSPECTION

A. Before any concrete is placed, the placing of reinforcing steel shall be inspected by the Contractor's Testing Agency. Any errors or discrepancies shall be corrected before the concrete is placed. Notify the Engineer not less than 48 hours before reinforcing steel inspection is required.

END OF SECTION

SECTION 03 30 00

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 DESCRIPTION

A. Furnish and install cast-in-place concrete as per contract drawings and perform all related and incidental work

1.2 RELATED SECTIONS

A. Section 03 20 00 – Concrete Reinforcing

1.3 REFERENCES

A. Latest editions of Applicable Standards from ACI Manual of Concrete Practices

B. Applicable ASTM (American Society for Testing and Materials) Standards

1.4 SUBMITTALS

The Contractor shall submit the following to the City for approval:

A. Aggregates: Proof of aggregates compatibility with cement to be used, and certification that aggregates meet specifications. State the source of the aggregates.

B. Admixtures, if used: Certificates of conformance to ASTM C260 or ASTM C494 as appropriate, shall be submitted by the admixture manufacturer prior to review of mix designs by the Engineer.

C. Concrete: Proposed concrete mix shall be designed by a recognized testing laboratory. A certificate for each mix showing slump, water/cement ratio, and weights per cubic yard of concrete for:
   1. Cement
   2. Pozzolan
   3. Admixtures, if used.

D. Manufacturer's specifications with application and installation instructions for all proprietary materials and items, including admixtures, bonding agents, joint systems, and curing compounds.

1.5 QUALITY CONTROL

A. Specifications herein set minimum results required. The Contractor is responsible for the quality of concrete cast-in-place and bears the burden of proof that all concrete as cast meets minimum requirements.

B. Codes and Standards: Comply with the provisions specified in latest editions of all applicable standards of "ACI Manual of Concrete Practice", including but not limited to the following:
   1. ACI 318 - Building Code Requirements for Structural Concrete
   2. ACI 301 - Specifications for Structural Concrete for Building

3. ACI 304 - Guide for Measuring, Mixing, Transporting, and Placing Concrete

C. Maintain copies of all applicable Codes and Standards at the project site at all times.

D. Acceptance tests for materials and design mixes:
1. No concrete shall be used in the work until the materials and mix designs have been accepted by the Engineer.
2. The Contractor shall furnish design mixes. The mixes will be tested and certified by the Contractor's Testing Agency. The testing agency shall comply with ASTM E329. The testing agency will sample, cast and test fresh concrete with standard concrete test cylinders. The responsibility for furnishing and placing concrete conforming with the requirements of the drawings and/or Specifications rests solely on the Contractor.

D. Tolerances:
1. Formed surfaces: Tolerances on formed surfaces shall be as specified in ACI 347, except where other tolerances as indicated.
2. Unformed surfaces: Tolerances on unformed surfaces shall be as specified in ACI 301 for the applicable surface finish, except where other tolerances as indicated.

1.6 JOBSITE CONDITIONS

A. Hot weather: Comply with the recommended practices of ACI 305R and the requirements specified herein. Procedures for hot weather concreting will be subject to the approval of the Engineer.

B. Cold weather: Comply with the recommended practices of ACI 306R and the requirements specified herein. Procedures for cold weather concreting will be subject to the approval of the Engineer.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Portland Cement: ASTM C150, Type II.

B. Aggregate: As per sections 800.03, 800.04, 800.05, and 800.06 of the Standard Specifications. Coarse aggregate shall be normal weight aggregate.

C. Water: Water shall be clean and potable, free from impurities detrimental to concrete. It shall comply with the provisions specified in section 800.07 of Standard Specifications

D. Admixtures: As per sections 800.08 of the Standard Specifications.

E. Liquid Curing Compounds
1. Pigmented curing compound conforming to ASTM C309, Type 2, Class A or B.
2. Non-pigmented curing compound conforming to ASTM C309, Type 1, Class A or B.
3. Non-pigmented curing compound conforming to ASTM C309, Type 1D,Class A.

F. Selection of Type of Liquid Curing Compound to be used shall be as per provisions specified in the Section 800.16 of the Standard Specifications

G. Curing paper: ASTM C 171, non-staining waterproof paper, regular type.

H. Form Material: As per applicable provisions specified in part 2 and part 4 of Standard Specifications

I. Other materials:
1. Expansion joint material: As specified in the applicable provisions of Part 2 and Part 4 of the Standard Specifications.
2. Non-shrink Cementitious Grout: SikaGrout 212, manufactured by Sika Corp., Embeco Grout manufactured by Master Builders or an approved equal.
3. Epoxy Grout: Sikadur 42, manufactured by Sika Corp., Ceilcote 648cp manufactured by Master Builders or an approved equal.

2.2 CONCRETE MIX DESIGNS

A. Mix designs for concrete shall be at the Contractor's expense and shall be prepared by a qualified testing agency. Mix designs prepared by the batching plant are acceptable if the batching plant has a qualified testing laboratory. Concrete mix designs, including quantities of admixture, shall be submitted for review and approval at least 30 days prior to placing any concrete.

B. Mix designs shall be proportioned in accordance with Section 5.3, "Proportioning on the Basis of Field Experience and/or Trial Mixtures" of ACI 318 with a maximum of water-cement ratio of 0.50. Submit mix designs for each class of concrete for review.

2.3 SCHEDULE OF CONCRETE CLASSES

B. Strength: Concrete shall develop compressive strengths as noted above at the age of 28 days. The tests shall be performed on concrete cylinders in accordance with ASTM C-39. The averages of all sets of three consecutive strength tests shall be equal to or greater than the specified strength and no individual strength test result shall fall below the specified strength by more than 500 psi.

PART 3 - EXECUTION

3.1 PRODUCTION OF CONCRETE

A. Concrete shall be ready mixed as per ASTM C 94. Equipment shall be adequate for the purpose and kept in good mechanical condition at all times. No hand-mixing will be permitted.

B. Ready-mix concrete shall be transported to the site in watertight agitator or mixer trucks loaded not in excess of rated capacities for the respective conditions as stated on the nameplate. Discharge at the site shall be completed within 1 ½ hours, or before the drum has revolved 300 revolutions, whichever comes first, after the introduction of water to the mix. Under conditions contributing to quick stiffening of the concrete, or when the temperature of the concrete is 85°F, or above, a time less than 1 ½ hours may be required. Central mixed concrete shall be plant-mixed a minimum of 1 ½ minutes per batch and then shall be truck-mixed or agitated a

minimum of 8 minutes. Agitation shall begin immediately after charging the truck, followed by agitation without interruption until discharged.

C. Mixers shall be equipped with an automatic device for recording number of revolutions of drum or blades prior to completion of mixing operation. Revolution counters shall be set at "0" and shall commence to operate when drum revolution begins after introduction of ingredients into the mixer. Delivery tickets shall show departure time from plants.

D. Retempering of concrete, that is, remixing with or without additional cement, aggregates, water, or admixtures, will not be permitted.

E. No water shall be added to the mix after the initial introduction of mixing water for the batch except when, on arrival at the job site, the slump of the concrete is less than that specified. In this case, additional water may be added only if neither maximum permissible water-cement ratio nor maximum slump is exceeded and if the addition of water is approved by the Engineer. The drum or blades shall then be turned an additional 30 revolutions or more until the mix is uniform.

3.2 PLACING CONCRETE

A. General:
1. Maintain continuous and accurate log of placing of concrete in structure. Record date, location, quantity, air temperature, test samples taken. A copy of the log shall be given to the Engineer.
2. Notify the Engineer 48 hours before placing of any concrete.

B. Preparation
1. Forms shall be constructed to sizes, shapes, lines, dimensions as required to obtain accurate alignment, location, grades, level, and plumb work in the finished structure. Formwork construction shall be as per section 411.04 of the Standard Specifications.
2. Remove debris, mud, water, and all foreign material(s) from places to receive concrete. All surfaces of forms and embedded materials shall be cleaned of all mortar or grout before the surrounding or adjacent concrete is placed.
4. Absorbent forms shall be thoroughly wetted before concrete is placed. Aggregate base/sand beds for slabs on grade shall be moist but not saturated when concrete is placed.
5. No concrete shall be placed until reinforcing is fastened in place and inspected nor until forms are complete. No concrete shall be placed before work that is to be embedded has been set. Reinforcing or other materials that have been set in place shall not be disturbed.
6. Before placing concrete, embedded pipes and conduits shall be sleeved providing ¼-inch clearance (min.) all around. Sleeves shall be positioned so as not to impair the strength of surrounding elements. All items to be embedded in the concrete shall be free from oil, or foreign matter, that would impede the bond of the concrete to these items.
7. Roughen and clean existing concrete to be joined with new concrete and coat with a concrete bonding agent; mix and apply in strict accordance with manufacturer's recommendations.

C. Conveying:
1. Transport concrete from mixer to place of final deposit as rapidly and directly as practicable and by methods which prevent segregation or loss of

ingredients and displacement of reinforcement, and which avoid rehandling. Do not deposit partially hardened concrete.

2. Conveying equipment shall be acceptable to the Engineer and shall be of a size and design such that detectable setting of concrete shall not occur before adjacent concrete is placed. Conveying equipment shall be cleaned at the end of each operation or workday. Equipment having components made of aluminum or magnesium alloys, which would have contact with plastic concrete during pumping, chutting or tremie operations, shall not be used.

D. Depositing:

1. Place no concrete when sun, wind, heat or other limitation of facilities will prevent proper finishing and curing procedures. Depositing under water will not be permitted.
2. Concrete shall not be dropped through the reinforcing steel in such a manner as to cause segregation of the aggregates. In no case, within the formwork or otherwise, shall concrete be permitted to fall from a height greater than 4-feet except through elephant trunks or other approved devices.
3. Deposit concrete in layers not exceeding 18-inches in thickness, force concrete around and under reinforcing and embedded items without displacing them. Integrate fresh concrete with that already placed; no retempering of concrete already placed will be allowed. After concrete has taken an initial set, protect forms from jarring and do not place any strain on ends of projecting reinforcement.
4. Splash or accumulation of hardened or partially hardened concrete shall be removed. Contact faces of forms for exposed concrete shall be protected from splash during placing of adjacent concrete.
5. Interruption in depositing longer than 45 minutes shall be cause for discontinuing casting of the section of work. In this event, cut back concrete and provide construction joints as the Engineer directs; clean forms and reinforcing as necessary to receive concrete at later time.

3.3 CONSOLIDATION

A. Concrete shall be thoroughly consolidated by placing the mechanical vibrator directly in concrete at 18 to 30-inches intervals for a period of approximately 5 to 15 seconds and withdrawing slowly or as directed. Thoroughly work concrete around reinforcing and embedded items and into corners and shapes of formwork. One vibrator will be required for each location where simultaneous concrete placing takes place, to ensure thorough vibrating of all sections. Provide sufficient spare vibrators on the job so as to have them readily available in case any vibrator in use should suddenly cease to function properly.

B. Mechanical vibrator shall be of the flexible immersion type having a frequency of not less than 8,000 rpm. Use and type of vibrator shall conform to ACI 309, "Standard Practice for Consolidation of Concrete."

C. Consolidate slabs four inches and less in thickness by means of vibrating screeds or for small areas such as curbs, by means of wood tampers.

3.4 CONSTRUCTION JOINTS

As per applicable provisions specified in the section 800.15 of Standard Specifications, except as modified herein:

A. Placement of construction joints and the manner in which they are provided, shall be approved by the Engineer or as shown on the Drawings. Construction joints shall be as few as possible and will not be permitted simply to save forms.

B. Construction joints including keys shall be cleaned and roughened by removing entire joint surface and exposing clean aggregate solidly embedded by means of sandblasting or other approved methods. Forms and reinforcing shall be cleaned of drippings, debris, etc.

3.5 CONCRETE FINISH

The concrete finish shall match the existing surrounding pavement.

3.6 CURING AND PROTECTION

The Curing and Protection shall be as per applicable provisions specified in the section 800.16 of the Standard Specifications, except as specified or modified herein. In the curing compound method, the nominal rate of applications shall be 200 square feet per gallon for pigmented curing compound and 250 square feet per gallon for non-pigmented type.

3.7 REMOVAL OF FORMS

As per applicable provisions of Part 2 & Part 4 of the Standard Specifications.

3.8 PATCHING AND REPAIRS

A. General: In accordance with requirements of ACI 301 and as follows; Immediately after removal of forms; inspect surfaces for defects; repair and/or patch defects within 48 hours after removal of forms and cure simultaneously with concrete. If rock pockets, in the opinion of the Engineer, are of such an extent or character as to affect the strength of the structure materially or to endanger the life of the steel reinforcement, he may declare the concrete defective and require the removal and replacement of the portions of the structure affected at the Contractor's expense.

B. Sacking: Superficial air voids and irregularities shall be filled with a cement mortar grout with all excess grout "sacked" off without the use of water. The following formula (all by volume) for cement grout shall be used for this purpose:
5 ½ parts sand
2 ½ parts Portland cement
1 ½ parts lime hydrate
Care shall be taken in the application of the grout and in sacking the excess grout from the surface in order that all voids will be filled without grout built up on the surface, and in order that a smooth surface is maintained.

C. Patching Mortar: In accordance with ACI 301, where patchwork is allowed, mixture shall match adjacent surfaces in color and texture. Determine exact mix by trial mixtures before patching; obtain approval from the Engineer of the proposed mix prior to application.

3.9 FIELD QUALITY CONTROL

A. Certification: In addition to the information specified in ASTM C94 to be provided on the delivery ticket with each batch of concrete, provide the following information on the same ticket:
1. Reading of the revolution counter at the first addition of aggregates to the mixer.
2. Times of day at which cement and aggregates are first intermingled, and at which water and cement are first intermingled.
3. Mix identification.

4. Weight of cement, aggregate, water and admixtures, and aggregate size.
5. Indicate that all ingredients are as previously approved for use.

B. Testing:
1. Compression Tests: Work related to compression tests shall be performed by the Contractor's Testing Agency. During progress of work four (4) compression test cylinders shall be taken for each placement of 150 cu. yd. or fraction thereof of each class of concrete placed each day. Make, cure, and store test cylinders as per ASTM C 31. One cylinder will be tested at 7 days for information; two at 28 days for acceptance; and one retained as a spare. Cylinders will be numbered in sets (1A, 1B, 1C, 1D) and a record kept on extent of pour represented by each set and type of concrete tested. Cylinders will be tested in accordance with ASTM C 39. If any test report indicates 28-day specimen below required strength level (within standard of acceptability established by ACI 318), and if required by Engineer, testing agency will take test cores of hardened concrete in accordance with ASTM C 42. Such concrete shown to be defective shall be removed and replaced. Cost of core tests, repairs, removal and replacement of defective concrete shall be paid by the Contractor at no additional cost to the City.
2. Slump Test: Slump tests will be performed as per ASTM C 143 (slump cone) at time of taking test cylinders.
3. Air Content Test: Air content tests will be performed per ASTM C231.

C. Inspection:
1. The Contractor shall advise the Contractor's Testing Agency and the Engineer of readiness to proceed at least 48 hours prior to each concrete placement. No placement shall be made without the inspection and acceptance of the Contractor's Testing Agency.
2. When forms are removed, voids, stone pockets and other defects shall not be remedied until the Engineer has inspected them and given directions.

3.10 DEFECTIVE CONCRETE

A. Defective work is any work which does not comply with all requirements of the Contract Documents.

B. The Engineer may require defective work to be demolished and rebuilt whenever, in his opinion, the work cannot be corrected to comply with Contract requirements.

C. The Engineer may have cores taken from any questionable area in the concrete work required for determination of concrete quality. The Contractor shall repair all core holes to the satisfaction of the Engineer. Core specimens shall be drilled and tested in accordance with the requirements of ASTM Designation C 42, "Obtaining and Testing Drilled Cores". The results of tests on such cores shall be the basis for acceptance, rejection or determining the continuation of concrete work.

3.11 DAMAGED WORK

A. Before final acceptance of the work, damaged surfaces, corners of concrete, and concrete finish, whether such damage shall have resulted from the action of the elements or from any cause whatsoever, shall be neatly repaired. Any damaged places where surfaces repairs are permitted shall be brought to a smooth, dense, watertight condition to the satisfaction of the Engineer.

END OF SECTION

SECTION 03 35 00

CONCRETE FINISHES

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. The work in this Section shall be performed in accordance with the Drawings and the Provisions of Bid and Contract Documents, and with the applicable provisions of SSDPWSF, Section 800 - Portland Cement Concrete and Related Materials and Work, and as amended by the following Special Provision.

1.02 DESCRIPTION

A. Work Included: Provide all material, labor, equipment and services necessary for the finishing concrete work at various locations indicated to match surrounding, as shown on the Drawings and as specified herein. The work includes but is not limited to:
   1. Placement and finishing of concrete.
   2. Concrete curing.
   3. Patching and repair.
   4. Provide and execute with surrounding materials and coloring
   5. Provide a minimum 36" sq. mock up for each finish type, see related sections

1.03 RELATED SECTIONS

A. Section 32 13 13 - Concrete Paving

1.03 QUALITY ASSURANCE

A. Allowable Tolerance: All work shall be of the exact size, dimensions locations and lines shown on the Plans unless otherwise specified or shown on the Drawings, permissible deviations shall be those shown in ACI 347.
   1. Maximum variation above or below a true plane shall be as follows, as determined by a 10 foot straightedge placed anywhere on the plane surface, in any direction:
      a. Light Broom Finish Concrete: 1/8 inch in 10 feet.
   2. All concrete - pavement and steps shall be free of depressions; puddling will not be allowed to occur.

B. Installers Qualifications: Qualified and competent workmen with a minimum five years work experience of same paving type installation, and placement of colored concrete shall work on the job.

C. Manufacturers Qualifications: The Product Manufacturer and Concrete Batch Production Manager shall have a minimum of five years experience in the production and mixing of integral concrete color admixture systems.

D. The Contractor shall provide the services of an experienced and authorized representative from the manufacturer of the integral concrete color admixture system. The Representative shall visit the batching plant and site of the Work to inspect, check and make recommendations as needed, to the Project Engineer. In each case the Contractor shall arrange to have the representative revisit the job site as often as necessary until any and all problems are corrected.

1.04 REFERENCE STANDARDS:

A. American Concrete Institute, (ACI)
1. ACI 347 - "Recommended Practice for Concrete Form work"
2. ACI 305R - "Hot Weather and ACI306R - "Cold Weather"

B. Portland Cement Association (PCA)
1. PCA publication, "Color, Texture in Architectural Concrete", published in 1980. Library of Congress catalog # 80-56340.

C. American Society of Testing Materials (ASTM)
1. ASTM - 156 "Standard Test Method for Water Retention by Concrete Curing Materials."
2. ASTM - C979 "Standard Specification for Pigments for Integrally Colored Concrete."
3. ASTM - C494 "Specification for Chemical Admixture for Concrete."

1.05 SUBMITTALS

A. General: Submittals to be in accordance with the requirements of Section 01300-Submittals.

B. Samples:

1. General: Samples shall provide a full range of workmanship, color, and texture proposed for the job to include: same type of materials, retarders, curing compounds, and other curing/finishing methods. Sample panels shall be prepared as many times as required to obtain approval and acceptance from the Engineer. Submit the following items.

2. Sidewalk Pavement: Submit two concrete panels. Each panel shall be 3 feet-0 inch square.
Color = Match existing
Finish texture = light broom

3. Curbs, Gutters and Curb Ramps: Submit two concrete panels. Each panel shall be 1 foot-6 inch square.

Color = CCSF Standard or per specs.
Finish texture = trowel finish

4. Aggregates to match existing paving:

D. Product Data: Submit six (6) copies of manufacturer's literature, specifications, applications, and installation instructions for:
1. Joint materials and systems.
2. Admixtures - integral color systems
3. Slip sheets
4. Curing compounds
5. Other materials that are integral to the final color, texture and finish of exposed concrete work.

E. Test Reports: Submit six (6) copies of laboratory and certification report for the integral concrete color admixture system. Report to certify that product (s) conforms to ASTM testing. All testing laboratories are subject to approval by Project Engineer.

F. Certification Reports: Submit six (6) copies of the certification report prepared by the manufacturer of the integral concrete color admixture system. Report to confirm that the mixing, packaging, of the color admixture and that the batching and placement are in accordance with manufactures recommendations.

1.07 MOCK-UP

A. General: Contractor to construct at full scale "mock-ups" of concrete work, as specified herein. The "mock-ups" shall be representative of all work necessary to complete the job, including cleaning and curing agents, and will be reviewed at the end of specified curing time for all concrete work.

B. Sidewalk paving mock -up: The mock-up is to be no less than 36 square inches and the installation is to include, but is not limited to the following:
1. Concrete depths per Roadway Drawings
2. Joints: control, - score lines, - expansion, - keyed per Details
3. Aggregates and Sparkle grain finishers.
4. Color: per approved and accepted sample.
5. Finish: Light broom finish, per approved and accepted sample.
6. Curb ramp: one at full size
7. Curbs, concrete and granite, 3 linear feet at width specified.

C. The "mock-ups" shall be prepared as many as three (3) times as necessary each to obtain approval from the Engineer.

D. The "mock-ups", as reviewed and accepted by the Engineer, will remain on site until the entire Contract is complete, and will become the standards to which the remainder of material furnished on the job shall conform.

1.08 MAINTENANCE

A. The Contractor shall provide the following:
1. Concrete design mix indicating proportions of aggregate, sand, water, reinforcing and efflorescent reducing admixtures, and integral color admixtures.
2. Product number and manufacturer's address and phone number for all concrete admixtures.

1.09 JOB CONDITIONS

A. Hot weather: Comply with the recommended practice of ACI 305R and the requirements specified herein.

B. Cold Weather: Comply with the recommended practice of ACI 306R and the requirements specified herein.

1.10 WARRANTY

A. The Contractor shall furnish a one year Warranty for all work covered by this Section per the requirements of Section 01 78 36.

PART 2 - PRODUCTS

2.01 PRODUCTS

A. Integral Color and Curing Compounds:

B. Match existing. Provide mockup to match surrounding existing paving.

1. Furnish proprietary materials in unopened manufacturer's standard containers with original labels showing: quantity, analysis where applicable, and name of manufacturer. Color admixture shall comply with the requirements of ASTM C-979-82. Calcium chloride shall not be permitted in the mix.

2. Integral color shall be pure, concentrated color pigments containing no fillers, adulterants or admixtures. Colors are manufactured by L.M. Scofield Company (800) 800-9900 or equal:

a. Concrete Paving: Color to match existing paving.

3. Curing compound shall be Color Seal II as manufactured by Davis Color (800)356-4848 or approved equal.

C. Curing Compounds for non colored concrete:

1. Type 1, clear water based resin type, free of wax, grease or other substances deleterious to materials applied to concrete in accordance with ASTM C309.

2. Curing compound shall not discolor concrete or effect bonding or other finishes applied thereof.

3. Curing compound shall restrict loss of water to not more than 0.500 grams per sq. cm. of surface when tested per ASTM C156.

D. Expansion Joint Filler:

1. Pre-molded bituminous material, non-extruding, conforming to ASTM D 944: thickness as shown on the Drawings.

2. Color and type as selected and approved by City Representative.

3. As manufactured by S.R. Meadows, Inc.; National Expansion Joint Co.; Celotex Corporation; or equal.

E. Backer Rod:

1. Extruded closed cell polyethylene foam rod.

2. ICEL backer rod as manufactured by Industrial Systems Dept., Plastic Products Group of Hercules Inc., Middletown, Delaware; Ethafoma SB or as manufactured by Dow Chemical Co. or equal.

F. Elastomeric Joint Sealant:

1. Non-sag 1 part polyurethane

2. Color of sealant to match color of the joint mortar.

3. Lithoseal Trafficalk 3G as manufactured by L.M. Scolfield, (415) 255-2728 or Sikaflex 1a as manufactured by Sika Chemical Co. Lyndhurst, NJ or equal.

PART 3- EXECUTION

3.01 CONCRETE MIX

A. General: In accordance with Sections 204.01 and 800 of SSDPWSF.

B. Integral Color: In accordance to manufacturer's recommendations.

3.02 FINISHING CONCRETE

A. All exposed concrete surfaces shall have Class 1 Surface Finish in accordance with SSDPWSF SECTION 210.06, 204.06, 411.10, and 411.11 similar with exceptions as noted herein:

1. Slope. All exposed surfaces shall be sloped for drainage.

3.03 FINISHES

A. General: Contractor is to produce finishes in accordance with Drawings, and as specified herein:

B. Match existing. Provide mockup to match surrounding existing paving.

3.04 JOINTS AND EDGES

A. General:
1. Construct joints in accordance with Drawings and approved shop drawings. See SSDPWSF SECTION 210.07, for reference only. Joint character shall match that of approved Mock-up.
2. Joints shall be made complete as shown; crossing joints shall physically intersect, and joints extending to vertical surfaces shall be fully made. If portions of joints cannot be completely executed with use of customary tools, set strips of metal or sealed wood into plastic concrete, and carefully remove after concrete has hardened. Align manually made joints carefully with those portions made by inserts.

B. Expansion Joints and Edging: Provide expansion joints at the location and intervals as shown on the approved shop Drawings, and at all locations where paving abuts any vertical surface such as: buildings, walls, and other structures.
1. Place approved joint material with top edge 1/4 inch below the paved surface, and secure in place to prevent movement.
2. Form joint and other edges in the fresh concrete using an edging tool to provide a smooth uniform impression.
3. Strike all edges before and after finishing.
4. After the curing period, clean expansion joints carefully and fill with approved joint compound, flush with the paved surface in such a manner as to avoid spilling onto paved surfaces.

C. Control Joints and Score Lines:

1. Construct for paved surfaces as shown on drawings and as herein specified.

2. Tooled Joints: Form joints in fresh concrete by grooving top portion with recommended cutting tool and finishing edges with a jointer.

3.05 CURING AND PROTECTION

A. In accordance with SSDPWSF SECTION 800.16 - PROTECTING AND CURING CONCRETE with exceptions noted herein. See product section - curing compound.

3.06 DEFECTIVE CONCRETE AND REPAIRS

A. General: In accordance with SSDPWSF SECTION 800.18 - REPAIRING IMPERFECT CONCRETE. Concrete shall be considered defective for the following reasons:

1. Failure of finished concrete profiles, and dimensional tolerances, to conform to the requirements and the allowable tolerances in this Section.

2. Concrete showing cracks, rock pockets, voids, graffiti, spalls, or other visual defects.

3. Failure of concrete finishes to match approved samples, as determined by the City Representative.

B. All defective concrete shall be subject to removal and replacement by the Contractor, at his expense, unless it is determined by the CITY REPRESENTATIVE that it can be patched as specified below or that the location of this defective concrete is not detrimental to the function and the appearance of the project.

C. Repairing and Patching: Immediately after removing forms, inspect all concrete surfaces and patch any pour joints, voids, rock pockets, toe holes, and other imperfections at once, but not until surfaces have first been examined by the CITY REPRESENTATIVE. Chip away defective areas to a depth of about one inch with the edges perpendicular to the surface. Use binding agent as required to ensure that patch will bond completely and permanently to concrete surface.

D. Repair exterior exposed- formed concrete surfaces that contain defects, which adversely affect the appearance of the finish. Repaired surfaces must match adjacent concrete in form, texture, and color. Prepare test samples prior to repairing concrete for City Representative's approval. Remove and replace the concrete having defective surfaces if the defects cannot be repaired to the satisfaction of the CITY REPRESENTATIVE. Surface defects, as such include: color and texture irregularities, cracks, spalls, graffiti, air bubbles, honey comb, rock pockets and holes left by tie rods and bolts, fins and other discoloration's that cannot be removed by cleaning.

3.07 CLEANUP

Clean up shall be performed as each portion of the work progresses. Refuse, excess dirt and sand shall be removed from the site, all walks and paving shall be broomed or washed down, and any damage sustained to the work of others shall be repaired and returned to its original new condition.

END OF SECTION

SECTION 31 23 00

EXCAVATION AND FILL

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Furnishing all labor, supervision, materials, equipment and incidentals as necessary to perform all excavation, backfill, fill and grading to complete the work shown on the Drawings and specified herein. The work shall include, but not necessarily be limited to, excavation for structures including all utility trenches, backfilling and fill, and disposal of waste and surplus materials.

1.2 RELATED SECTIONS

A. Section 03 10 00 – Concrete Forming And Accessories

1.3 REFERENCES

A. California and Federal OSHA Safety Standards.

B. American society for Testing and Materials (ASTM)) Standards.

1.4 SUBMITTALS

A. Contractor shall take a representative sample of proposed engineering fill, if required by the City, weighing approximately 75lbs., at least thirty (30) days prior to the first date of anticipated use of such material. City retains right to request Contractor's Testing Agency to sample and test proposed engineering fill. City also retains the right to direct the Contractor's Testing Agency to perform additional random sampling and testing, at no additional cost to the City. Contractor shall provide all of its testing agencies' results to the City for review and approval.

1.5 QUALITY CONTROL

A. All work shall comply with the rules and regulations of Local and State agencies having jurisdiction. Nothing contained herein shall be construed as permitting work that is contrary to such rules, regulations, and codes.

B. Testing and Inspection

1. The Contractor will retain a Testing and Inspection Agency to provide the soil testing and inspection during the specified operations.

2. Notify the City 48 hours prior to any filling or backfilling operation to allow for proper scheduling of tests and inspections.

3. The Testing and Inspection Agency will:

a. Sample and test fill materials. Approve the site stockpile materials for fill.

b. Approve methods of compaction.

c. Observe and provide emergency engineering control of excavation, preparation and compaction of subgrade, placement and compaction of fill and backfill material. Do not place forms, reinforcing, concrete, or fill material until excavation has been inspected and approved.

4. To accept excavated foundation surfaces and compacted fill will be based on the conducted inspections and tests. Inspection Agency will inform the Contractor immediately of any unsatisfactory observed conditions. No further work shall proceed until the unsatisfactory work to be corrected. It shall be the Contractor's sole responsibility to achieve the specified degree of compaction.

1.6 SITE CONDITION

A. Existing Conditions and Requirements

1. Verify existing conditions and accept as is.

2. On-site access: Use on-site access route as designated.

3. Verify or determine location all underground utilities and avoid any damage. Should damage occur, notify the Engineer and repair at no additional cost to the City.

B. Environment Requirements

1. Dust Control: Moist the ground during excavation operation, and moist the fill materials during fill and backfill operation.

1.7 PROTECTION

A. Work shall be conducted so as to avoid injury to persons and damage to property.

B. Protect excavation by shoring, bracing or sheet piling and other methods as required for preventing excavation cave-in.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Engineering Fill: Fill shall be the soil predominantly granular less than 3 inches in any dimension, free of organic and inorganic debris, and contain less than 20 percent mostly non-plastic fines passing a No. 200 sieve.

PART 3 – EXECUTION

3.1 PREPARATION

A. Take measures to prevent water from entering excavations.

B. Take precaution to prevent soil from caving in during excavation.

C. Do not undermine adjacent existing foundation during excavation if encountered.

D. Notify Engineer at least 48 hours prior to commencing and upon completion of excavation.

3.2 COMPACTION

A. Where referred to in the specifications, "compaction" or "relative compaction" shall refer to in-place density of soil expressed as a percentage of the maximum density of the same material as determined by ASTM D 1557.

B. Compaction equipment or methods which may cause displacement or damage to structures or utility piping and conduit shall not be used.

C. Required minimum density and maximum permissible lift thickness, of compacted fill:

Percent of Maximum Dry Density	Maximum Permissible Lift, Inches
As Specified	8" (Loose thickness)

D. Place and compact material in uniform layers not exceeding those specified. Compact the fill material or recompact on-site soil to density 95% at footing and slab on grade, 90% at walkway.

E. Where it is impractical to use large equipment for compaction or when such methods, in the opinion of the Engineer, are disturbing the surrounding natural subgrade, the fill shall be placed using hand-operated mechanical compactors. The lift thickness shall not exceed six (6) inches measured before compaction when hand-operated equipment is used.

3.3 FILLING AND BACKFILLING

A. Preparation:

1. Remove forms, water, rubbish and deleterious materials in areas to be backfilled. Any unsuitable materials shall be removed offsite.

2. Scarify and recompact the surface of areas to receive fill to eight-inch depth until surface is free of ruts and even surface.

3. Backfill shall not be placed until the area has been inspected.

B. Placing and Compacting:

1. Place fill materials to establish grades as shown.

2. Spread fill material in uniform lifts not exceeding specified thickness.

3. Before compaction begins, bring fill to water content which will permit proper compaction by either aerating material if it is too wet or spraying material with water if it is too dry.

4. Mix each lift thoroughly before compaction to provide uniform distribution of water content.

5. Compact each layer uniformly to specified relative compaction. Compaction by flooding, pounding, or jetting will not be permitted.

6. Scarify and recompact any layer not attaining compaction until specified minimum compaction is obtained.

7. Stabilize each layer that is unstable before placing the next lift.

8. Remove all intrusive water, dry the subgrade and fill to proper moisture content where groundwater or rainwater enters areas to be filled. Re-establish compaction specified in last layer before proceeding with operations.

9. Remove and dispose excess fill or backfill material offsite at Contractor's expense.

3.5 UTILITY TRENCHING

A. Excavation

1. Excavate subsoil as required for utility line, such as storm drain, sanitary sewer, water, and piping to existing utilities.

2. Cut trenches sufficiently wide to enable installation of utilities.

3. Correct unauthorized excavation at no cost to the City.

4. Stockpile excavated material in the area as designated at site and remove excess material off the site.

B. Bedding

1. Bedding fill shall consist of 6" thick of well-graded sand or pea gravel to support the pipe and conduit.

C. Backfilling

1. Backfill trenches to contours and elevations with engineering fill materials, or local fill materials.

2. Do not backfill over porous, wet, or spongy subgrade surfaces.

3. Local Fill Material: Place and compact material in continuous layers not exceeding 6 inches and compact to the depth as shown.

4. Maintain optimum moisture content of backfill materials to attain required compaction density.

5. Remove and dispose surplus backfill materials off site.

D. Tolerances

1. Top Surface of Backfilling: To match existing required elevations.

E. Field Quality Control

1. Field inspection and testing will be performed under provisions of Section 01 45 00.

2. Compaction testing will be performed in accordance to ASTM D 1557.

3. If tests indicate work not meeting specified requirements, remove and replace the work for retesting at no cost to the City.

F. Protection of Finished Work

1. Recompact fills subjected to vehicular traffic where occurs.

3.6 DISPOSAL

A. Surplus materials and debris shall be removed and disposed off site at Contractor's expense. The site condition shall be cleaned and be acceptable to the Engineer.

END OF SECTION

SECTION 31 23 33

TRENCHING AND BACKFILLING

PART 1 – GENERAL

1.1 DESCRIPTION

A. The Work specified in this Section includes pavement cutting, trench excavation, shoring of excavations during construction, limits of the trench support work, backfilling and compaction.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Other Contract Documents, including Drawings, relevant Sections of the Standard Specifications and Special Provisions apply to the Work specified herein.

B. Section 01 55 26 – Traffic Control

C. Section 33 33 00 – Sanitary Sewerage Utilities

1.3 REFERENCES

A. DPW Standard Specifications (SSDPWSF), revised November, 2000.

B. ANSI/ASTM C136 – Method for Sieve Analysis of Fine and Coarse Aggregates.

C. ANSI/ASTM D1557 – Test Methods for Moisture–Density Relations of Soils and Soil–Aggregate Mixtures Using 10 lb (4.54 kg) Rammer and 18 inch (457 mm) Drop.

D. ANSI/ASTM D6938 – Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Method (Shallow Depth)

E. Sections 6705 and 6707 of the California Labor Code.

F. DPW Order No. 187,005, "Regulations for Excavating and Restoring Streets in San Francisco".

G. Article 2.4 of the Public Works Code, "Excavation in the Public Right–Of–Way".

1.4 SUBMITTALS

A. Plans and calculations for the shoring system shall be submitted for review and approval by the City prior to trench excavation. If such plans vary from the shoring standard established by the Construction Safety Orders, the plans shall be prepared by a licensed Civil Engineer registered in the State of California. Approval will not relieve the Contractor of the responsibility to provide a satisfactory and safe shoring system.

B. Prior to commencing excavation or construction, the Contractor shall submit dewatering plans compatible with the shoring system to the City Representative for review and approval.

C. Details and calculations for full horizontal and vertical structural support for all exposed and/or undermined sections of water facilities, which are to be signed and stamped by a California licensed Civil or Structural Engineer.

1.5 POST EXCAVATION REPAIR AND MAINTENANCE OBLIGATION OF CONTRACTOR (WARRANTY PERIOD)

A. The Contractor is responsible to maintain, repair or reconstruct the site of the excavation so as to maintain a condition acceptable to the City for a period of three (3) years following the date of the acceptance of the Work.

1.6 EXCAVATION / SHORING SUPPORT

A. The Contractor shall provide all engineering, including design, details and calculations, installation and construction of shoring, sheeting and bracing necessary to support the sides of the excavation to prevent movement, which may damage adjacent pavements, utilities or structures, damage or delay the Work, or endanger life and health as required by Cal–OSHA and other applicable governmental regulations and agencies. All trench work will also be performed with the applicable provisions of California Labor Code Sections 6705 and 6707.

B. The provisions specified herein will complement and not substitute for, nor diminish, the obligations of the Contractor for providing a safe work area and for protecting the Work, structures and other improvement.

C. Regardless of the shoring system used, the Contractor shall prevent ground loss along the project alignment. Cantilever type of shoring walls is not acceptable. No sloping/benching type shoring system is allowed. Steel shims or filler plates will be installed to obtain a tight fit and bearing.

D. The Contractor is solely responsible for any damage to adjacent properties caused by its construction operations.

1.7 WATER FACILITY SUPPORT AND WORK AROUND

See Spec Section 33 11 28 – Protection of Existing Water and AWSS Facilities

1.8 HANDLING OF GROUND WATER

A. The Contractor is responsible for the continuous control of ground water at all times during the course of construction, including Saturdays, Sundays and holidays.

B. If required, dewatering plans shall be designed, stamped and signed by a licensed Civil Engineer registered in the State of California. By approving the plans, the City accepts no responsibility for the adequacy thereof nor for any damages to public or private property that may result. All such responsibility shall rest with the Contractor. The plans shall include detailed working drawings and pertinent descriptions of the proposed ground water control system, including a schedule of installation and details of the system operation plan, contingency plans for interruption or failure of the proposed ground water control system and disposal plans. Provisions shall also include removal of storm water or any other water that may enter into the excavations.

PART 2 – PRODUCTS

2.1 FILL MATERIALS

A. All fill materials shall be free of organic and deleterious materials, and stock piling shall be in accordance with the requirements of Section 700.06 of the DPW Standard Specifications.

A. Imported sand type or equivalent backfill shall be free from rock, concrete, organic material and other objectionable material. Backfill material will have 100% passing the 3/8" sieve size, 93% to 100% passing the No. 4 sieve size and 0% to 10% passing the No. 200 sieve size. Samples approximately 50 pounds weight shall be submitted to and approved by Contractor's Testing and Inspection Agency, prior to placement. Unacceptable material shall be immediately removed from the site. City retains right to sample and test proposed imported fill. City retains the right to direct the Contractor's Testing Agency to perform additional sampling and testing, at no additional cost to the City. Contractor shall provide all of its testing agencies' results to the City for review and approval.

B. CDF material shall be free of organic materials and other deleterious substances. The CDF material shall have produced 28 days unconfined compressive strength from 50 pounds per square inch (psi) to a maximum of 125 psi and shall contain aggregate no larger than 3/8" top size with the 3/8" aggregate comprised of less than 30% of the total aggregate content.

2.2 MATERIALS FOR TRENCH SUPPORT SYSTEM

A. Steel sheet piling, if employed, shall be of rolled steel shapes of the continuous interlocking type forming a continuous wall when individual sheets are installed side by side. Steel sheet piling shall be installed in a manner that interlocking is kept continuous without separation at the joints. Sheet pilings, if used, shall not be installed by hard driving. The Contractor shall propose and submit for approval, a suitable installation method, which will minimize noise and vibrations. Other equivalent methods that will effectively prevent water leakage through the joint such as insitu–soil cement mixing will be acceptable. The interlocking sheet piling and all accessories shall conform to the requirements of ASTM A328.

B. Lagging members, if employed, shall be installed in accordance with approved design and in a manner, which shall prevent loss of ground. Where, in the judgment of the City, the loss of ground cannot be prevented by wedging the lagging tight against the original ground, e.g., at the sandy non–cohesive soils, the Contractor shall prevent the loss of ground by an approved method. This shall not be a cause for changed condition or for claims for extra cost by the Contractor.

C. All timber, lumber and structural steel employed for the trench supporting system, whether new or used, shall be sound and free from defects that might impair their strength. Where sheet piles or soldier piles are to be removed, they may be removed after backfilling is completed. Voids left by such removal shall be immediately backfilled with an acceptable bode type structural mix ready on site, at no extra cost to this Contract. The Contractor shall meet the requirements to control settlements and plan its operations accordingly.

D. All timber lagging left in place shall be pressure treated with wood preservative in accordance with the requirements of Section 415.05 of the DPW Standard Specifications.

E. Except for bracing struts, allowable basic stresses for rolled steel sections, including sheet piling, may be increased by twenty percent (20%) for all temporary shoring structures. Allowable basic stresses for all temporary shoring structures shall be in accordance with the latest AISC Code. Allowable stresses for struts shall not exceed those allowed by the AISC Code for permanent structures. All welds shall be designed according to AISC Code without any increase in the allowable stresses for temporary structures. Lagging and all timber structures shall be designed using allowable stresses determined by the National Design Specifications In Wood Construction, latest Edition. The duration of the load shall not be taken as less than three (3) months.

F. Trench shields shall not be used for shoring.

PART 3 – EXECUTION

3.1 EXAMINATION

A. The Contractor shall verify fill material to be reused is acceptable.

3.2 PREPARATION

A. The Contractor shall identify required lines, levels, contours and datum shown on the Drawings.

B. The Contractor shall maintain and protect existing utilities remaining, which pass through the site.

C. The Contractor shall protect bench marks, existing structures, sidewalks and curbs from excavation equipment and vehicular traffic.

3.3 PAVEMENT CUTTING AND STREET EXCAVATION

A. Pursuant to Section 373 of the San Francisco Public Works Code, the Contractor may use concrete saw cutting or vibratory pavement breaker or equal.

B. No machine or device that breaks pavement by blows struck by a falling or driven hammer or weight will be allowed. Hoe–ram and trenching machines shall not be used for concrete street at the edge of pavement restoration. Such prohibition, however, shall not be construed as barring the use of hand tools or manually operated air tools such as jack hammers.

C. The use of the rock wheel cutter for street excavation is prohibited unless permitted by special order of the Director of Public Works for specific locations. If permitted, rock wheel cutter shall only be used to remove the pavement (concrete base and asphalt concrete wearing surface), and only after potholing has been done to determine the pavement thickness. Rock wheel cutters shall not be used on concrete streets, shall not be used as a trenching device, and shall not be used within 10 feet of a signalized intersection.

D. All areas of pavement to be cut shall be in neat and straight lines, and overcutting of lateral trenches will not be allowed. Dust control shall be provided by using non–potable water with the rock cutting wheel. Protection from flying rocks, debris, etc., shall be provided.

E. Excavation and backfill shall be in accordance with the requirements of Part 7 of the DPW Standard Specifications.

F. The pavement shall be restored in accordance with the requirements of Part 2 of the DPW Standard Specifications.

G. All City noise requirements shall be observed at all times.

3.4 TRENCH EXCAVATION

A. The Contractor shall excavate every type of material encountered within the limits of the Work to the lines, grades and elevations indicated on the Drawings and specified herein, except materials indicated on the Drawings or directed by the City to remain.

B. Unauthorized Excavation:
1. Unauthorized excavation will be excavation below indicated subgrade elevations or beyond indicated dimensions without specific instruction from the City.
2. Under footings, foundations or retaining walls:
   a. The Contractor shall fill unauthorized excavation by lowering the indicated bottom elevation of the footing or base to the excavation bottom, without altering the required top elevation.
   b. Lean concrete fill may be used to bring bottom elevations to proper position, subject to the City's approval.
3. Elsewhere, the Contractor shall backfill and compact unauthorized excavation as specified for authorized excavations, unless otherwise directed by the City.

C. Excavation of unsound subgrade material shall be in accordance with the requirements of Section 700.10 of the DPW Standard Specifications.

3.5 TRENCH SUPPORT WORK

A. The shoring of excavation during construction shall be in accordance with the requirements of Section 700.04 of the DPW Standard Specifications, and shall include adequate sheeting shoring and bracing etc. or equivalent method, for the protection of life and limb, and conforming to applicable safety orders of Cal–OSHA and the State of California Division of Industrial Safety.

B. Sections 6705 and 6707 of the California Labor Code shall apply to any excavation 5 feet or more in depth, constructed under this Contract.

C. Sheet piling, lagging and bracing may be removed during backfilling, and shall be in accordance with the requirements of Section 700 of the DPW Standard Specifications.

D. The width of the trench shall be in accordance with the requirements of Section 700 of the DPW Standard Specifications.

3.6 BEDDING

A. The Contractor shall support the new pipes during placement and compaction of crushed rock bedding fill. Crushed rock shall comply with the requirement of Section 703.05 and 712 of the DPW Standard Specifications and as shown on SW-drawings.

B. The placement of crushed rock bedding fill shall not alter the pipe alignment. Crushed rock bedding fill shall be placed to ensure continuous contact with the pipes. Care shall be taken to completely fill all spaces under the haunches.

3.7 BACKFILLING AND COMPACTION

A. The Contractor shall backfill excavations as promptly as progress of Work permits, and shall be in accordance with the requirements of Sections 703, 712 and all other applicable Sections of the DPW Standard Specifications.

B. The Contractor shall place crushed rock beneath and backfill material around structures. The Contractor shall not begin backfill operations until concrete has achieved a minimum compressive strength of 3,000 psi.

C. Placement of CDF Bedding Material:

1. The length of the CDF bedding material will be the width of the sewer trench less the minimum space necessary for formwork. The width of CDF bedding material shall be the outer diameter of the water main pipe plus one (1) foot on each side. The depth of CDF bedding material shall be three (3) feet below the bottom of the water main pipe and no higher than the water main pipe's spring-line. There shall be a minimum one (1) foot vertical separation between the top of the sewer main and the bottom of the CDF material.
2. CDF bedding material placement will be at the discretion of the City Representative. The CDF bedding material will be formed on all vertical sides. Placing CDF against sewer trench shoring to be removed or exposed soil will not be allowed. Any volume of CDF spillage due to improper form work will not be considered for payment and shall be removed prior to backfilling the trench.
3. The Contractor shall place the CDF prior to backfilling the sewer trench. Placing temporary backfill, and re-excavating the area at a later time to place CDF before final trench excavation is not allowed. If the water facility becomes damaged due to improper placement of CDF bedding prior to backfilling the sewer trench, then the Contractor will be held liable.

D. Compaction of fill and backfill materials shall be in accordance with the requirements of Section 707 and all other applicable Sections of the DPW Standard Specifications.

E.. The Contractor shall compact all materials by mechanical means in lifts not to exceed 8 inches unless permitted otherwise in writing by the City. Flooding or jetting will not be permitted. If compaction tests indicate that compaction or moisture content is not as specified, material placement shall be terminated and corrective action shall be taken by the Contractor prior to continued placement.

F. The Contractor shall compact all fill materials to the following relative dry densities per ASTM D1557, D6938 or other reference standards acceptable to the City:

1.	Asphaltic Concrete Pavement Subgrade Areas	95%
2.	Landscape Planting Areas	85%
3.	Structural Fill	95%
4.	Trench Backfill	90-95%*

*90% compaction from bottom of trench to within 4 ft of finish grade and 95% compaction for the remainder of the trench.

G. During compaction, the Contractor shall protect new and any existing pipes, and structural walls from damage due to the operations of the compaction equipment. The Contractor shall not operate earth–moving equipment within 5 feet of walls of concrete structures for the purpose of depositing or compacting backfill material. The Contractor shall compact backfill adjacent to concrete walls with hand–operated tampers or similar equipment that will not damage the structure.

H. The Contractor shall place detectable warning tape at a distance of 12 inches above the top of the sewer pipe.

3.8 REMOVAL OF WATER

A. The Contractor shall provide and operate equipment adequate to keep all excavations and trenches free of water. The Contractor shall avoid settlement or damage to adjacent properties. When dewatering the excavations, the Contractor shall dewater from outside the structural limits and from a point below the bottom of the excavation when possible. Dewatering, contingency and disposal plans will be submitted for approval by the City.

3.9 FIELD QUALITY CONTROL

A. The Contractor shall secure the Testing Agency's inspection and testing, and the City Representative's approval of testing results and visual inspection and approval for subgrades and fill layers before proceeding with construction thereon.

B. Fill and backfill materials shall be compacted to densities in accordance with the requirements of Sections 703, 706, 707 and 709 of the DPW Standard Specifications.

C. If, based on reports from a testing laboratory, subgrade or fills, which have been placed are below specified requirements, the Contractor shall provide additional compacting and retest at no cost to the City.

3.10 MAINTENANCE

A. The Contractor shall protect newly graded areas from traffic and erosion, and keep the areas free from trash and weeds. The Contractor shall repair and re–establish grades in settled, eroded and rutted areas to the specified tolerances.

B. Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, the Contractor shall scarify the surface, reshape and compact to the required density prior to further construction.

END OF SECTION

SECTION 31 23 34

PAVEMENT CUTTING AND EXCAVATION

PART 1 – GENERAL

1.01 DESCRIPTION

A. Work Included: The work specified in this Section includes pavement cutting, pavement excavation, backfilling and compaction.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Other contract documents, including Contract Drawings, Relevant Sections of the Standard Specifications and Special Provisions apply to the work specified herein.

B. Division 1, General Requirements.

1.03 REFERENCES

A. Standard Specifications of the City and County of San Francisco, Department of Public Works, Bureau of Engineering (SSDPWSF) Revised November 2000.

B. ANSI/ASTM C136 - Method for Sieve Analysis of Fine and Coarse Aggregates.

C. ANSI/ASTM D1557 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb (4.54 kg) Rammer and 18 inch (457 mm) Drop.

D. ANSI/ASTM D6938 – Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Method (Shallow Depth)

E. SFDPW Order No. 187,005, 'Regulations For Excavating and Restoring Streets in San Francisco".

F. Article 2.4 of the Public Works Code, "Excavation In The Public Right-Of-Way".

1.04 SUBMITTALS

A. Imported Backfill: Samples approximately 50 pounds weight shall be submitted to the Contractor's Testing Agency and the testing results shall be submitted to and approved by the Engineer and the Department of Public Works' Material Testing Laboratory, located at 2099 Kearny Street, San Francisco (Tel: 415-274-0278), prior to placement.

PART 2 – PRODUCTS

2.01 FILL MATERIALS

A. All fill materials shall be free of organic and deleterious materials and stock piling shall comply with the provisions of Section 700.06 of the SFDPW Standard Specifications.

B. Imported sand type or equivalent backfill shall be free from rock, concrete, organic material and other objectionable material. Backfill material shall conform to the following grading:

Sieve Size	Percentage Passing

3/8-inch	100
No. 4	93-100
No. 200	0-10

C. Unacceptable material shall be immediately removed from the site of work.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify that fill material to be reused is acceptable.

3.02 PREPARATION

A. Identify required base repair limit lines, levels, contours and datum shown in the contract drawings. Actual limits of base repair work may vary as directed by the Engineer in the field.

B. Protect survey bench marks or monuments, existing structures, utility poles, sidewalks and curbs from excavation equipment and vehicular traffic.

3.03 PAVEMENT CUTTING AND STREET EXCAVATION

A. Pursuant to Section 373 of the San Francisco Public Works Code, Contractor may use concrete saw cutting or vibratory pavement breaker or equal.

B. The Contractor shall not use any machine or device that breaks pavement by blows struck by a falling or driven hammer or weight. Hoe-ram and trenching machines shall not be used for concrete street at edge of pavement restoration. Such prohibition, however, shall not be construed as barring the use of hand tools or manually operated air tools such as jackhammers.

C. Rock Cutter: The use of the rock wheel cutter for street excavation is prohibited unless permitted by special order of the Director of Public Works for specific locations. If permitted, rock wheel cutter shall only be used to remove the pavement (concrete base and asphalt wearing surface), and only after potholing has been done to determine the pavement thickness. Rock wheel cutters shall not be used on concrete streets; shall not be used as a trenching device and shall not be used within 10 (ten) feet of a signalized intersection.

D. All areas of pavement to be cut shall be in neat and straight lines and overcutting of lateral trenches shall not be allowed. Dust control shall be provided by using non-potable water with the rockcutting wheel. Protection from flying rocks, debris, etc. shall be provided

E. The excavation and backfill shall be in accordance with the applicable requirements as set forth in Part 7 of the SFDPW Standard Specifications.

F. The pavement shall be restored in accordance with the applicable requirements as set forth in Part 2 of the SFDPW Standard Specifications and in these specifications.

G. All city noise requirements shall be observed at all times.

H. Water used for cutting machines shall be removed by vacuum pump or equivalent means immediately following the cutting machine. Cut residues shall not be removed and not

allowed to form slurry. The slurry collected in the vacuum pump's tank shall not be discharged to City sewers.

3.04 BACKFILLING AND COMPACTION

A. Backfilling excavations as promptly as progress of work permits and in accordance with all relevant requirements of Sections 703, 712 and all other applicable sections of the SFDPW Standard Specifications.

B. Compaction of fill and backfill materials shall be in accordance with the requirement of Section 707 and all other applicable sections of the SFDPW Standard Specifications.

C. Compact all materials by mechanical means in lifts not to exceed 8" unless permitted otherwise in writing by the City Representative. Flooding or jetting will not be permitted. If compaction tests indicate that compaction or moisture content is not as specified, material placement shall be terminated and corrective action shall be taken by the Contractor prior to continued placement.

D. Compact all fill materials to the following relative dry densities per ASTM D1557, D6938 or other reference standard acceptable to the City Representative:

1.	Asphaltic Concrete Pavement Subgrade Areas	95%
2.	Landscape Planting Areas	85%
3.	Structural Fill	95%
4.	Trench Backfill	90-95%*

*90% compaction from bottom of trench to within 4 ft of finish grade and 95% compaction for the remainder of the trench.

3.05 FIELD QUALITY CONTROL

A. Secure the Testing Agency's inspection and testing, and the City Representative's approval of testing results and visual inspection and approval for subgrades and fill layers before proceeding with construction thereon.

B. Fill and backfill materials shall be compacted to densities specified in the applicable provisions of Sections 703, 706, 707 and 709 of the SFDPW Standard Specifications.

C. If, based on reports from a Testing Laboratory, Subgrade or fills which have been placed are below specified requirements, provide additional compacting and retest at no cost to the City.

3.06 MAINTENANCE

A. Protection of newly graded areas:

1. Protect newly graded areas from traffic and erosion, and keep free from trash and weeds.

2. Repair and re-establish grades in settled, eroded and rutted areas to the specified tolerances.

B. Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify the surface, reshape, and compact to the required density prior to further construction.

END OF SECTION

SECTION 32 01 16.71

COLD MILLING ASPHALT PAVING

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for milling asphalt concrete pavement at the locations and to the dimensions shown on the Drawings, in accordance with the Project Manual and as directed by the City.

1.2 REFERENCE STANDARDS

A. DPW Standard Specifications (SSDPWSF), revised November, 2000.

B. San Francisco Police Code: Article 29 Regulation of Noise.

PART 2 – PRODUCTS

2.1 EQUIPMENT

A. Cold planer machine: In accordance with the requirements of Section 214.02 of the DPW Standard Specifications.

PART 3 – EXECUTION

3.1 MILLING EXISTING ASPHALT CONCRETE SURFACES

A. General: In accordance with the requirements of Section 214.01 of the DPW Standard Specifications.

B. Conduct of the Work: In accordance with the requirements of Section 214.03 of the DPW Standard Specifications.

3.2 PROTECTION

A. A temporary 1:18 slope of hot asphalt concrete wedge will be constructed along any longitudinal and/or transverse drop off exceeding ¾ inches during the same day that the milling is accomplished.

B. Asphalt concrete for temporary asphalt concrete wedge will be as approved by the City.

3.3 SURFACE PREPARATION

A. The temporary asphalt concrete wedges will be removed by the Contractor before placing the asphalt concrete wearing surface.

B. Full compensation for installing and removing the temporary asphalt concrete wedges before the placing of asphalt concrete wearing surface will be considered as Incidental Work to cold milling.

END OF SECTION

SECTION 32 12 16

ASPHALT PAVING

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for constructing new asphalt concrete wearing surface, Type A, 1/2–inch maximum with medium grading at the locations and to the dimensions shown on the Drawings, in accordance with the Project Manual and as directed by the City.

1.2 REFERENCE STANDARDS

A. DPW Standard Specifications (SSDPWSF), revised November 2000.

B. Caltrans Standard Specifications (CTSS), 2010.

C. Caltrans Revised Standard Specifications (CTRSS), March 2017.

1.3 PERFORMANCE QUALITY CONTROL

A. Compaction: In accordance with the requirements of Section 212.09 of the DPW Standard Specifications.

B. Pavement Finish Irregularity Requirements

1. The Contractor shall spread and compact the asphalt concrete wearing surface such that when a City furnished 10–foot rolling straight edge is rolled over the finished pavement surface, it will disclose no more than the following irregularities per lane mile:

Irregularity Range Per Lane Mile	Maximum Allowable Irregularities Per Lane Mile
3/16 inch to less than 1/4 inch	200 irregularities
1/4 inch to less than 5/16 inch	100 irregularities
5/16 inch or greater	0 irregularities

2. In addition, the above criteria will be used as a basis for calculating the maximum allowable amount of irregularities for each lane for each block throughout the Work limits. The maximum allowable amount of irregularities per lane block will be calculated by multiplying the maximum allowable number of irregularities per lane mile by the length of the block in feet and dividing by 5,280 feet.

3. The Contractor shall give the City 24 hours advance notice for the rolling straight edge tests.

4. The Contractor shall transport the said City furnished straight edge from 2025 Newcomb Avenue, San Francisco, 94124, or other place of storage, to the site and return said equipment to the place of storage when the need has ended.

5. City forces will perform the rolling straight edge operation at no cost to the Contractor. As City forces perform the rolling straight edge operation, the City Representative will observe same and the Contractor shall provide the necessary or required labor, flagman and equipment to complete said operation.

6. The Contractor shall furnish the City Representative with all the necessary or required labor, flagman and equipment, other than the 10–foot rolling straight edge, to complete the inspection of the finished pavement.

C. The City will have the option of requiring correction of pavement irregularities in excess of the maximum allowable or a reduction of payment due to the Contractor, based on the official rolling straight edge report. The reduction of payment will be as follows:

Irregularity Range	Payment Reduction Per Each Excess Irregularity
3/16 inch to less than 1/4 inch	$ 20.00
1/4 inch to less than 5/16 inch	$ 100.00
5/16 inch or greater	$ 200.00

1.4 SUBMITTALS

A. Prior to starting construction, the Contractor shall submit the asphalt concrete mix design, including the amount of asphalt binder to be mixed with the dry aggregate to the City Representative for approval. No resurfacing work will be allowed prior to the approval of the mix design. Asphalt concrete mix design will conform to Section 39 of the 2010 Caltrans Standard Specifications and as modified below under Article "Materials".

B. The Contractor shall submit (8) copies of the manufacturer's literature, Specifications, applications and installations for filler and/or sealer material to the City Representative for approval at least five (5) calendar days in advance of performing the filling and/or sealing work.

PART 2 – PRODUCTS

2.1 MATERIALS

A. The Contractor is encouraged to use Reclaimed Asphalt Pavement (RAP) in accordance with the 2010 Caltrans Standard Specifications and Revised Standard Specifications. Specifically, refer to 2010 CTRSS Section 39-2.02E outlining current maximum RAP substitution rate. Minimum RAP substitution rate shall be 15% of the aggregate blend.

B. Asphalt: In accordance with the requirements of CTSS Section 39–1.02C of the 2010 Caltrans Standard Specifications, except that asphalt will be either PG 64–10 or AR–4000.

C. Aggregate: In accordance with the requirements of CTRSS Section 39–2.02D of the 2010 Caltrans Revised Standard Specifications, except that aggregate grading will be as follows:

Sieve Sizes	Limits of Proposed	Operating Range	Contract Compliance
3/4"	–	100	100
1/2"	–	95–100	89–100
3/8"		80–95	75–100
No. 4	59–66	X±5	X±8
No. 8	43–49	X±5	X±8
No. 30	22–27	X±5	X±8
No. 200	–	3–8	0–11

Minimum Durability Index: When tested in accordance with AASHTO T 210 shall be 50.

D. Paint Binder: In accordance with the requirements of Section 212.06 of the DPW Standard Specifications, except that paint binder shall be emulsified asphalt Type SS-1 or SS-1h.

E. Sealer: It will be a combination of polymeric compounds, cures to a soft, highly flexible, rubber like material that is capable of maintaining a sealed joint or crack over a wide temperature range. Sealer will be cold applied SOF–SEAL, low modulus horizontal sealant, manufactured by:

W.R. Meadows, Inc.
865 Teal Drive
Benicia, CA 94510
Phone (707) 745-6666

or approved equal.

2.2 EQUIPMENT

A. Spreading Equipment: In accordance with the requirements Section 212.07 of the DPW Standard Specifications.

B. Compacting Equipment: In accordance with the requirements of Section 212.09 of the DPW Standard Specifications.

PART 3 – EXECUTION

3.1 SURFACE PREPARATION

A. Immediately before resurfacing, the Contractor shall, as Incidental Work, clean, repair cracks and apply paint binder in areas to be paved.

B. Cracks larger than one inch will be filled or sealed with hot asphalt concrete as directed by the City.

C. All cracks equal to or smaller than one inch and not smaller than 1/4 inches will be filled or sealed with approved sealer.

D. Placement of asphalt concrete wearing surface is to be completed within 120 hours after asphalt planing or placement of concrete base.

E. The Contractor shall not proceed with paving work until given written approval from the City.

F. The temporary asphalt concrete fill or wedges on the concrete base repair areas will be removed by the Contractor before placing asphalt concrete wearing surface.

3.2 INSTALLATION

A. Paint Binder: In accordance with the requirements of Section 212.06 of the DPW Standard Specifications.

B. Conform Areas: In accordance with the requirements of Section 212.10 of the DPW Standard Specifications.

C. Spreading: In accordance with the requirements of Section 212.08 of the DPW Standard Specifications.

D. Compaction: In accordance with the requirements of Section 212.09 of the DPW Standard Specifications.

3.3 SURFACE CONDITIONS

A. The Contractor shall examine the areas and conditions under which Work of this Section will be performed. Conditions detrimental to the timely and proper completion of the Work will be corrected. The Contractor shall not proceed until unsatisfactory conditions have been corrected.

B. The Contractor shall notify the County Surveyor at (415) 554-5833 to report any monuments in danger of disturbance, destruction or removal. All City monuments are to be protected per State Land Surveyors Act and Section 01 71 33 – Protection of Adjacent Construction. The Contractor shall not disturb, destroy or remove any survey monuments without the approval from the County Surveyor. The Contractor shall salvage any monuments removed during construction and deliver these monuments to the Survey Department at 1155 Market Street, 3rd Floor, San Francisco.

3.4 FIELD QUALITY CONTROL

A. The Contractor may be required to perform water tests to satisfactorily demonstrate the proper drainage of the constructed asphalt pavement. The Contractor shall flush with water approximately 50 feet of the upstream end of each gutter for 2 minutes with minimum flow rate of 0.02 cubic feet per second or approximately 20 gallons equivalence. After 5 minutes, the City Representative and the Contractor shall make visual inspection of the gutter to demonstrate proper drainage and no ponding. All water tests will be considered Incidental Work.

B. The Contractor shall make corrections necessary to demonstrate proper drainage with no ponding, and no separate payment will be made. The Contractor's correction method will be approved by the City. The City's approval does not release the Contractor from the successful execution of the remedy and the requirement to demonstrate proper drainage of the constructed gutter.

END OF SECTION

SECTION 32 13 13

CONCRETE PAVING

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for constructing concrete base, concrete pavement, concrete parking strip, concrete bus pad, concrete gutter, concrete curb, concrete sidewalk and concrete curb ramps at the locations and to the dimensions shown on the Drawings, in accordance with the Project Manual and as directed by the City Representative.

B. Preparation of subgrade to proper elevation, including excavating, backfilling, removal of existing pavement, existing gutter, existing curb, existing sidewalk, existing curb ramp, and compaction as required will be done as Incidental Work to the above mentioned new concrete work.

C. Tree roots under pavement and sidewalk areas will be removed with a sharp edge instrument to a depth of 8 inches below finished grade as Incidental Work. Feeder roots greater than 2 inches in diameter will be checked by the Bureau of Urban Forestry. Call the 311 Customer Service, prior to removal by the Contractor.

1.2 REFERENCE

A. DPW Standard Specifications (SSDPWSF), revised November, 2000.
B. DPW Standard Plans, dated April, 2007.
C. ACI 318-14 Building Code Requirements for Structural Concrete.
D. 2015 Caltrans Standard Specifications
E. 2015 Caltrans Revised Standard Specifications.

1.3 SPECIAL INSTRUCTIONS

A. Notifications
   1. Underground Service Alert
      a. Before commencing any excavation, the Contractor shall obtain an Underground Service Alert (USA) inquiry identification number by calling (800) 642-2444.
      b. The Contractor shall allow four (4) calendar days after the identification number is obtained and before excavation work is started so that utility owners can be notified by the Contractor.
      c. Identification numbers will not be given more than ten (10) calendar days prior to starting excavation work.

B. Curb Ramps
   1. Curb ramps will be constructed in accordance with the details shown in the DPW Standard Plans.
   2. The Contractor shall investigate subsidewalk basement in sidewalk areas prior to saw cutting and excavation for curb ramps. If there is a subsidewalk basement and there is sufficient cover to construct the curb ramp, saw cutting and excavation will proceed with care. If there is not sufficient cover to construct the curb ramp, the Contractor shall notify the City Representative and stop the construction of the curb ramp.
   3. The Contractor shall notify the County Surveyor at (415) 554-5833 to report any monuments in danger of disturbance, destruction or removal. All City monuments are to be protected per State Land Surveyors Act and Section 01 71 33 – Protection of Adjacent Construction. The Contractor shall not disturb, destroy or remove any survey

monuments without the approval from the County Surveyor. The Contractor shall salvage any monuments removed during construction and deliver these monuments to the Survey Department at 1155 Market Street, 3rd Floor, San Francisco.

4. The Contractor shall complete the construction of curb ramps, sidewalk, curb and gutter within 72 hours from the commencement of excavation work, so as not to obstruct pedestrian traffic or travel thereon more than is reasonably necessary.

C. Broken Water Meter Boxes
   1. Broken San Francisco Water Department (SFWD) meter boxes will be replaced before placing new sidewalk. Call SFWD at (415) 550-4945 to pick up the meter boxes free of charge.

D. Temporary Wearing Surface for Restored Concrete Base
   1. After achieving the concrete base depth as shown on the plans or stated in the specifications, the Contractor may use temporary asphalt on the restored concrete base. The temporary asphalt concrete on the restored concrete base shall be removed by the Contractor before placing the final asphalt concrete wearing surface.
   2. The final asphalt concrete wearing surface and restored base depths shall be as shown on the plans.
   3. Installing temporary asphalt concrete surface on the concrete base areas will be considered as Incidental Work to the Concrete Base bid item. Refer to 01 55 26- Traffic Control, Special Instructions for temporary ramp requirements.

E. California Code and Regulations
   1. The Contractor shall comply with all Cal–OSHA Code requirements during this Contract – Article 37, Section 2946 "Provisions for Preventing Accidents Due to Proximity to Overhead Lines" and Article 37, Section 2947 "Warning Signs Required".

F. MUNI Railway
   1. If MUNI overhead wires are encountered, the overhead wires will be kept energized at all times. The overhead trolley wires carry a minimum of 600 Volts DC and have an 18 +/- feet clearance from the existing roadway. The Contractor shall adapt its methods and equipment to this condition, and take precautions against accidents and damage to the overhead wires and feeder cables when performing paving work and/or concrete work with overhead wires and feeders energized.

G. Local Access
   1. The Contractor shall provide local access to garages by the end of each work shift by placing steel plate(s) over excavated area(s). It is the responsibility of the Contractor to notify residents of the Construction Schedule prior to any Work that may disrupt access to garages or other entrances and provide access during construction where as needed or requested by the City.

H. Spray Paint
   1. Prior to the start of construction, the Contractor shall provide the City Representative with sufficient spray paint, at no cost to the City, for markings necessary for this Contract.

I. Limit Construction Activities
   1. Excavation site may not exceed two (2) consecutive blocks at any time unless otherwise noted in traffic control or environmental management of excavated materials specifications.

J. Survey Control
   1. Where roadway pavement reconstruction occurs, the Contractor is responsible for providing primary control, with control line and grades, from existing off site monument markers and lines. The Contractor shall maintain and preserve all lines, grades and

benchmarks and provide for all other survey control work. The Contractor shall establish construction control line with hubs every 25 feet prior to construction work.

2. The Contractor shall replace or reestablish hubs missing or displaced during construction at no cost to the City.
3. The Contractor shall retain the services of a State of California registered Land Surveyor with a minimum of one year experience in engineering surveying and control procedure for public works construction, who will establish horizontal and vertical controls as needed by the Contractor.
4. The survey control work will be considered Incidental Work and no separate payment will be made.

K. Granite Curb

1. Granite curb shall only be replaced with concrete curb on curved sections and as part of the curb ramp construction. Existing granite curb in good condition shall be reset to new grade. If existing granite curb is damaged, contractor shall notify City Representative.
2. In the event granite curb is to be replaced with concrete curb, the Contractor shall remove them from the site as City property. All delivery must be initiated and authorized by City Representative. Only granite curb greater than 4 feet in length will be accepted. The granite curb will be neatly and securely placed on pallets so they can be moved about safely after delivery. The granite curb will be delivered, including off loading, to the Treasure Island Maintenance Yard at 701 14th Street at Avenue I, Treasure Island, or where directed by the City Representative within the City.
   a. Contact Mike Kelly of the Bureau of Street and Sewer Repair at Mike.Kelly@sfdpw.org.
   b. Provide a minimum of 48 hour notice for delivery / cancellation via written notification with the following information:
      Project Name
      Project Number
      City Representative Name
      Contractor Contact Number
      Estimated Delivery Quantity
3. The Contractor shall clean the granite curb of dirt, debris, and other construction material and exercise care in transporting the granite curb so as to minimize damage.
4. Salvage, hauling and delivery of existing granite curb to the designated areas from the site will be done as Incidental Work.
   a. Delivery is to be made between 8am to 3pm, Monday through Friday.
   b. During delivery, driver is to check in with the Yard Master for designated deliver location.
   c. Yard Master may reject mix and/or unclean load.
   d. Additional charges will be incurred for:
      1) Cleaning and Sorting, if Yard must double-handle load to sort, clean and stack delivery
      2) Yard Opening and Operation during non-operation hours and unscheduled deliveries

L. Cobblestones

1. In the event cobblestones are encountered in any street under construction, the Contractor shall remove them from the site as City property. All delivery must be initiated and authorized by City Representative. The cobblestones will be neatly and securely placed on pallets so they can be moved about safely after delivery. The cobblestones will be delivered, including off loading, to the Treasure Island Maintenance Yard at 701 14th Street at Avenue I, Treasure Island, or where directed by the City Representative within the City.

a. Contact Mike Kelly of the Bureau of Street and Sewer Repair at Mike.Kelly@sfdpw.org.
b. Provide a minimum of 48 hour notice for delivery / cancellation via written notification with the following information:
Project Name
Project Number
City Representative Name
Contractor Contact Number
Estimated Delivery Quantity

2. The Contractor shall clean the cobblestones of dirt, debris, and other construction material and exercise care in transporting the cobblestones so as to minimize damage.

3. Salvage, hauling and delivery of existing cobblestones to the designated areas from the site will be done as Incidental Work.
a. Delivery is to be made between 8am to 3pm, Monday through Friday.
b. During delivery, driver is to check in with the Yard Master for designated deliver location.
c. Yard Master may reject mix and/or unclean load.
d. Additional charges will be incurred for:
1) Cleaning and Sorting, if Yard must double-handle load to sort, clean and stack delivery;
2) Yard Opening and Operation during non-operation hours and unscheduled deliveries.

M. Concrete Curing
1. Comply with all specification requirements found in the Contract Documents, including those found in the DPW Standard Specifications.

2. The Contractor shall protect all concrete work from mechanical injury (including, but not limited to, mechanical injury from non-project persons tampering with the fresh concrete) until thoroughly set and the strength thereof is sufficient to prevent damage. At a minimum, Contractor shall assign its own personnel, at no additional cost to the City, to monitor finished concrete work until it has cured and cannot be damaged.

1.4 SUBMITTALS

A. The Contractor shall submit concrete mix design(s) for all intended applications in accordance with project specifications, DPW Standard Specifications Section 800.01, and ACI 318.

B. The Contractor shall submit manufacturer's literature, specifications, applications and installations for color pigment to be used in curb ramps for the Engineer's approval: L.M Scofield "C–24 Charcoal Gray", QC Integral Colors "IC–3 Ash Gray", Solomon Colors "Charcoal Gray 920", or approved equal.

C. Mill Test Reports
1. Certified mill test reports (tensile and bending), for each heat or melt of steel, showing physical and chemical analyses, shall be submitted to the City Representative for review and approval before the material delivery to the job site.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Concrete Batching: A concrete batching ticket specifying mix design information shall accompany all concrete deliveries and shall be subject to verification by City Representative.

B. Dowel bars shall be shipped and stored with dowel bars of the same size and shape fastened in bundles with durable tags, marked in a legible manner with waterproof markings.

C. Dowel bars shall be stored off the ground and be protected from moisture. Keep free from soil, oil, or other injurious contaminants. All steel, which cannot be properly identified, will be rejected, and shall be immediately removed from the job site.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Portland Cement: In accordance with the requirements of Section 800.02 of the DPW Standard Specifications. The Contractor may substitute supplementary cementitious materials such as fly ash or natural pozzolan; silica fume; or ground granulated blast furnace slag (GGBFS) such that the total amount of portland cement shall not be less than 40% by weight of the total amount of cementitious material. The minimum amount of portland cement shall not be less than 225 pounds per cubic yard. Supplementary cementitious materials can be used in all concrete products with the exception of concrete base.

1. If fly ash or natural pozzolan is used, the total amount of fly ash or natural pozzolan shall not exceed 30% by weight of the total amount of cementitious material.
   a. Fly ash shall conform to AASHTO M 295, Class F. The available alkali, as sodium oxide equivalent, shall not exceed 1.5% when determined in conformance with ASTM C311 or the total alkali, as sodium oxide equivalent, shall not exceed 5% when determined in conformance with AASHTO T105.

2. If silica fume is used, the total amount of silica fume shall not exceed 10% by weight of the total amount of cementitious material.
   a. Silica fume shall conform to AASHTO M307 with reduction in mortar expansion of 80% minimum using the cement from the proposed mix design.

3. If ground granulated blast furnace slag is used, the total amount of GGBFS shall not exceed 50% by weight of the total amount of cementations material.
   a. GGBFS shall conform to AASHTO M302, grade 100 or grade 120.

B. Aggregate: In accordance with the requirements of Sections 800.03, 800.04, 800.05 and 800.06 of the DPW Standard Specifications. The Contractor shall substitute recycled concrete for a portion of the virgin aggregate in an amount no less than fifteen percent (15%) of the total dry aggregate mass. The recycled concrete material will meet or exceed the specified requirements. When recycled material is used for concrete base, exposed concrete applications such as gutter, curb, sidewalk and curb ramp, the Sodium Sulfate Soundness Test (ASTM C88) is waived. Recycled concrete material will not be allowed in structural concrete or decorative concrete with an exposed aggregate finish.

C. Concrete Curb Ramps: Color pigment will be extra high strength, non–floating, dispersible, non–glare, permanent and unaffected by sunlight. It will be composed of extremely fine sub–micron particle size and will not create the loss of concrete strength.

D. Concrete Cast-In-Place Detectable Warning Tiles: In accordance with the requirements of Section 32 17 34 – Concrete Detectable Warning Tiles.

E. Dowel Bars: Dowel bars shall be deformed.
   1. Dowel bars shall conform to ASTM A615 or ASTM A1035, Grade 60, unless otherwise indicated.

F. Accessories
   1. Tie wire: Minimum 16 gage black annealed wire.
   2. Supports and spacers: Provide spacers, chairs, bolsters, and other devices to support and secure the dowel bars in place. Supports for dowel bars on ground, aggregate base or sand over vapor barrier shall be precast concrete blocks of sufficient strength, size and spacing to support the bars in proper locations.

2.2 MIXES

A. Concrete Mix Design Requirements:
Proportioning for concrete mix designs shall be in accordance with ACI 318-14 Section 26.4-Concrete Materials and Mixture Requirements. Maximum allowed concrete slump shall be 4.5 inches and the maximum allowed water-cementitious materials ratio shall be 0.5 (except for concrete bus pad mix design as noted below).

   1. **Concrete Base:** Concrete base shall have a minimum compressive strength of 5,000 psi at 28 days. Performance admixtures to accelerate the setting of the concrete shall be used per manufacturer's recommendation. Concrete base mix design shall be in accordance with requirements of Section 800 of the DPW Standard Specifications.

   2. **Concrete Bus Pad:** Concrete for bus pad shall have a minimum compressive strength of 6,000 psi at 28 days. The maximum allowed water-cementitious material ratio shall be 0.40. Concrete bus pad mix design shall be in accordance with Standard Plan 96,607 Revision 2 and Section 800 of the DPW Standard Specifications. Traffic shall not be allowed on the concrete bus pad until concrete compressive strength exceeds 2,500 psi. Cure concrete bus pad for 7 days minimum, during such time, traffic shall not be allowed on concrete bus pad, unless otherwise approved by City Representative. Also, following admixture requirements shall be met:
      a. Admixtures shall be compatible and contain no chlorides, sulfides, or nitrides.
      b. Admixtures for water reduction and setting time modification shall conform to ASTM C494.
      c. Admixtures for use in producing flowing concrete shall conform to ASTM C 1017.

B. Returned plastic concrete (RPC) may be incorporated into new minor (concrete curb, gutter, sidewalk and curb ramp) concrete mixes per Caltrans Revised Specification Section 90-9 in an amount not exceeding 15 percent per Section 90-9.02A.

C. **Concrete Pavement, Concrete Parking Strip:** In accordance with the requirements of Sections 210.04, 800.08 and 800.11 of the DPW Standard Specifications.

D. **Concrete Curb:** In accordance with the requirements of Sections 202.06 and 800.11 of the DPW Standard Specifications.

E. **Combined Concrete Curb and Gutter:** In accordance with the requirements of Sections 202.06 and 800.11 of the DPW Standard Specifications.

F. **Concrete Sidewalk:** In accordance with the requirements of Sections 204.01 and 800.11 of the DPW Standard Specifications. Also, following admixture requirements shall be met:

   1. Admixtures shall be compatible and contain no chlorides, sulfides, or nitrides.
   2. Admixtures for water reduction and setting time modification shall conform to ASTM C494.
   3. Admixtures for use in producing flowing concrete shall conform to ASTM C 1017.

G. **Curb Ramps**
   1. Curb Portion of Work: In accordance with the requirements of Sections 202.06 and

800.11 of the DPW Standard Specifications.
2. Sidewalk Portion of Work: In accordance with the requirements of Sections 204.01 and 800.11 of the DPW Standard Specifications.
3. Curb Ramp Color: To obtain the approved permanent dark visual color contrast of 70 percent between the ramp and the adjacent sidewalk, use one of the following approved manufacturers and color types, or approved equal:
   a. L.M. Scofield "C–24 Charcoal Gray".
   b. QC Integral Colors "IC–3 Ash Gray".
   c. Solomon Colors "Charcoal Gray 920".

PART 3 – EXECUTION

3.1 PREPARATION

A. Preparation and Compaction of Subgrade: In accordance with the requirements of Section 200 of the DPW Standard Specifications.
   1. Concrete Base: In accordance with the requirements of Section 207 of the DPW Standard Specifications.
   2. Concrete Pavement, Concrete Parking Strip and Concrete Bus Pad: In accordance with the requirements of Section 210 of the DPW Standard Specifications.
   3. Concrete Curb: In accordance with the requirements of Section 202 of the DPW Standard Specifications.
   4. Combined Concrete Curb and Gutter: In accordance with the requirements of Section 203 of the DPW Standard Specifications.
   5. Concrete Sidewalk: In accordance with the requirements of Section 204 of the DPW Standard Specifications.
   6. Concrete Curb Ramps
      a. Curb Portion of Work: In accordance with the requirements of Section 202 of the DPW Standard Specifications.
      b. Sidewalk Portion of Work: In accordance with the requirements of Section 204 of the DPW Standard Specifications.

B. Preparation of subgrade to proper grade, excavating, backfilling and compacting will be considered as Incidental Work to the applicable bid items where excavation is required to perform the Work.

C. Asphalt shaving or grindings will not be used as fill material.

D. Saw cutting and removal of concrete base, concrete pavement, concrete parking strip, concrete gutter, concrete curb, concrete sidewalk and concrete curb ramps to construct and/or reconstruct curb ramps, and to remove existing curb ramps will be considered as Incidental Work to the applicable bid items where removal of the said items are required to perform the Work.

3.2 INSTALLATION

A. Concrete Installation (All Applications): The Contractor shall install concrete in accordance with proportioning, mixing, transporting, and placing requirements identified in DPW Standard Specification Sections 800.13 and 800.14.

B. Concrete Base
   1. Concrete Base: In accordance with the requirements of Section 207 of the DPW Standard Specifications.
   2. Placing Concrete: In accordance with the requirements of Section 207.05 of the DPW Standard Specifications.

3. Construction Joints: In accordance with the requirements of Section 207.06 of the DPW Standard Specifications.
4. Dummy Joints: In accordance with the requirements of Section 207.07 of the DPW Standard Specifications.
5. Protection and Curing: In accordance with the requirements of Section 207.08 of the DPW Standard Specifications.

C. Concrete Pavement and Concrete Parking Strip
1. Concrete Pavement and Concrete Parking Strip: In accordance with the requirements of Section 210 of the DPW Standard Specifications, except that the thickness for concrete pavement and concrete parking strip will be 8 inches unless otherwise noted.
2. Placing Concrete: In accordance with the requirements of Section 210.05 of the DPW Standard Specifications.
3. Construction Joints: In accordance with the requirements of Section 210.07 of the DPW Standard Specifications.
4. Dummy Joints: In accordance with the requirements of Section 210.08 of the DPW Standard Specifications.
5. Protection and Curing: In accordance with the requirements of Section 210.09 of the DPW Standard Specifications.

D. Concrete Bus Pad
1. Placing Concrete: In accordance with the requirements of Section 210.05 of the DPW Standard Specifications.
2. Construction Joints: In accordance with the requirements of Standard Plan 96,607 Revision 2.
3. Protection and Curing: In accordance with the requirements of Section 800.16 and Standard Plan 96,607, Revision 2.
4. Dowel Bars: In accordance with the requirements of Standard Plan 96,607, Revision 2.
   a. Dowel bars shall be secured firmly in position. Use No. 16-gauge black annealed wire at each steel intersection. Use precast mortar blocks, metal chairs, spacers, metal hangers, supporting wires, and other approved devices to set steel in position with sufficient strength to resist crushing under full load and to prevent displacement during concrete placing operations.
   b. Precast Concrete Blocks: Precast concrete blocks shall not be less than 3 inches square with embedded wires and shall have at least the same 28-day compressive strength as the surrounding concrete. Space concrete blocks no less than 1'-6" and no more than 3 feet apart.
   c. Minimum concrete cover for dowel bars and minimum clear bar spacing shall be as specified on standard plan, but in no case shall be less than values specified in ACI 318.
   d. Placing bars on layers of fresh concrete as the work progresses, or adjusting bars during the concrete placement, will not be permitted.
   e. Dowel Bars Around Opening: Whenever conduit, piping, sleeves, boxes or other embedded items interfere with the proper placement of dowel bars as detailed, the Contractor shall submit to the City Representative the proposed dowel bar adjustment for review.
   f. Inspection: No concrete shall be deposited until the Contractor's Testing Agency has inspected the dowel bar placement and the Engineer has been given 24 hours advanced notice to perform their own inspection and has given permission to place concrete.

E. Concrete Curb
1. Concrete Curb: In accordance with the requirements of Section 202 of the DPW Standard Specifications.
2. Placing Concrete: In accordance with the requirements of Section 202.07 of the DPW Standard Specifications.

3. Construction Joints: In accordance with the requirements of Section 202.08 of the DPW Standard Specifications.
4. Finishing: In accordance with the requirements of Section 202.09 of the DPW Standard Specifications.
5. Protection and Curing: In accordance with the requirements of Section 202.10 of the DPW Standard Specifications.
6. Repair and Replacement: In accordance with the requirements of Section 202.12 of the DPW Standard Specifications.
7. Painting: In accordance with the requirements of Section 202.13 of the DPW Standard Specifications.

F. Combined Concrete Curb and Gutter
1. Concrete Curb and Gutter: In accordance with the requirements of Section 203 of the DPW Standard Specifications.
2. Placing Concrete: In accordance with the requirements of Section 202.07 of the DPW Standard Specifications.
3. Construction Joints: In accordance with the requirements of Sections 210.07 and 210.08 of the DPW Standard Specifications.
4. Finishing: In accordance with the requirements of Section 202.09 of the DPW Standard Specifications.
5. Protection and Curing: In accordance with the requirements of Section 202.10 of the DPW Standard Specifications.
6. Repair and Replacement: In accordance with the requirements of Section 202.12 of the DPW Standard Specifications.
7. Painting: In accordance with the requirements of Section 202.13 of the DPW Standard Specifications.

G. Concrete Sidewalk
1. Concrete Sidewalk: In accordance with the requirements of Section 204 of the DPW Standard Specifications.
2. Placing Concrete: In accordance with the requirements of Section 204.05 of the DPW Standard Specifications.
3. Joints: In accordance with the requirements of Section 204.07 of the DPW Standard Specifications and Standard Plan 87,173.
4. Reinforced Steel Bars: In accordance with the requirements of Standard Plan 96,608.
5. Finishing: In accordance with the requirements of Section 204.06 of the DPW Standard Specifications.
6. Protection and Curing: In accordance with the requirements of Section 204.09 of the DPW Standard Specifications.
7. Sidewalk will not be constructed monolithic with curb.
8. Street Names: In accordance with the requirements of Section 204.08 of the DPW Standard Specifications.
9. Installation of Reinforced Steel Bars at re-entrant corners on a diagonal: In accordance with the requirements of Standard Plan 96,608.

H. Concrete Curb Ramps
1. Curb Portion of Work: In accordance with the requirements of Section 202 of the DPW Standard Specifications.
2. Sidewalk Portion of Work: In accordance with the requirements of Section 204 of the DPW Standard Specifications.
3. All curb ramps will be poured separately from any adjacent construction such as, gutter, curb or sidewalk.
4. Curb ramps will be constructed in accordance with the requirements of the DPW Standard Plans.

3.3 FIELD QUALITY CONTROL

A. The Contractor shall perform water tests to satisfactorily demonstrate the proper drainage of the constructed curb and gutter, including curb and gutter at constructed curb ramps. The Contractor shall flush with water approximately 50 feet of the upstream end of each curb and gutter, including curb and gutter at curb ramps, for 2 minutes with a minimum flow rate of 0.02 cubic feet per second or approximately 20 gallons equivalence. After 5 minutes, the City Representative and the Contractor shall make visual inspection of the gutter to demonstrate proper drainage and no ponding. All water tests will be considered Incidental Work.

B. The Contractor shall make corrections necessary to demonstrate proper drainage with no ponding, and no separate payment will be made. The Contractor's correction method will be approved by the City. The City's approval does not release the Contractor from the successful execution of the remedy and the requirement to demonstrate proper drainage of the constructed curb and gutter work, including curb and gutter at constructed curb ramps.

END OF SECTION

SECTION 32 14 16

BRICK UNIT PAVING

PART 1—GENERAL

1.01 SECTION INCLUDES

A. The work consists of providing brick paving for traffic islands, sidewalks, and curb ramps. The work includes but is not limited to brick pavers, mortar, expansion joint materials, and slip sheet; cleaning; and adjustment of frames and castings as indicated in Specifications and Plans.

1.02 RELATED SECTIONS

A. The following Sections contain requirements that relate to this Section:

1. Section 32 13 13, Concrete Paving

1.03 REFERENCES

A. ASTM C67Test Methods of Sampling and Testing Brick and Structural Clay Tile

B. ASTM C109 Test Method for Compressive Strength of Hydraulic Cement Mortars (Using two inches or 50-mm. Cube Specimens).

C. ASTM C144 Aggregate for Masonry Mortar.

D. ASTM - C150 Portland Cement.

E. ASTM C207 Hydrated Lime for Masonry Purposes.

F. ASTM C216 Facing Brick (Solid Masonry Units made from Clay or Shale).

G. ASTM C270 Mortar for Unit Masonry.

H. ASTM D1752 Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction

I. ASTM C1028 Standard Test Method for Evaluating the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method

J. UBC Standard No. 24-28, Method of Sampling and Testing Grout.

1.04 SUBMITLALS

A. Brick:

1. Three full-size brick samples for each type.

2. Manufacturer's material specifications and installation recommendations.

3. Certificates of Compliance.

B. Expansion Joint Materials: Joint filler, sealant back-up and polyethylene slip sheet:

1. Three material samples of each.

2. Manufacturer's material specifications and installation recommendations for each.

3. Certificates of Compliance for each.

C. Mortar:

1. Proposed pre-mixed product.

2. Color sample for Engineer's approval.

1.05 MOCK-UPS

A. General: Construct to scale, a "Mock-up" of brick paving for each brick type and pattern for each location. The "Mock-up" shall be representative of all work necessary to complete the job at each location, including saw- cut removal of existing work; brick cutting and fitting, mortaring, curing; and adjustments of castings to meet finished grade.

B. Adjacent Mock-ups: Provide full scale extension of new work to match existing patterns, starting at the existing single soldier course band along concrete interface, and including the following:

1. Herringbone field, radiating border around tree pit and utility covers; and soldier course patterns.

2. Mortar joint size, color and finish to match existing.

3. Removal of all partial units of existing brick at starting point and replacement with whole brick units; and removal and replacement of all missing, broken, cracked, and chipped bricks within the public-right-of-way within 5-foot radius from edge of new work.

4. Expansion joint materials.

5. Adjustment of castings.

C. Prepare mock-ups as many times as necessary to obtain approval from the Engineer. All bricks cut in field are subject to approval by the Engineer.

D. Mock-ups may remain as part of completed work.

E. Mock-ups reviewed and accepted by the Engineer shall serve as the standard conformance for materials and workmanship for subsequent work.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: The Contractor, personally or through an authorized representative shall supervise the work constantly and keep the same foreman and workmen on the job from beginning to completion. The foreman shall be present on the job site whenever work is in progress. Only qualified and competent workmen with a minimum 5 years work experience installing same paving type shall work on the job.

B. Certificates:

1. Provide certificates stating that the grout, setting materials, and admixtures are compatible with themselves and the bricks. Have the certificate signed by the brick supplier, manufacturer, and installer.

C. Single source for setting products: Provide mortar, grout, and latex admixtures from a single source or manufacturer, unless otherwise approved by Engineer.

D. The supplier of adhesives, grouts and mortars shall have been regularly engaged in the manufacture of these materials a minimum of 10 years, and shall submit to the Engineer a list of three similar installations, each having a minimum 10 years service.

1.07 MAINTENANCE

A. Protect, clean and maintain brick to preserve original color and texture throughout the duration of the Contract.

PART 2—PRODUCTS

2.01 BRICKS

A. Bricks shall match existing brick type for various locations and conform to the requirements of ASTM C216, Grade "SW", Type "FBS", "Standard Specification for Facing Brick" and ASTM C902-92 Pedestrian Paving and Light Vehicular, Class SX, Type 1; and to the following specifications:

1. Brick Size: Field verify dimensions of existing bricks on sidewalk and curb ramp of contrasting color. Common size is 3-5/8 inches by 7-5/8 inches by 2 inches actual dimensions laid flat. Curb ramp brick varies slightly.

2. Size Variation: 1/8 inch maximum in any dimensions.

3. Color: Match existing sidewalk.

4. Texture: Die face free from concave indentations, having rough texture and color, and shall have eased edges on the long sides.

5. Wire cut face for curb ramp brick must be essentially free of concave indentations normal to typical wire cut faces. Fire flashed brick is not acceptable.

6. A minimum compressive strength of 3,000 pounds per square inch when based on an average of five bricks.

7. 24-hour absorption (percent) - 4.5 minimum.

8. Maximum water absorption by 5-hour boiling (percent) - 8.0 minimum.

9. Saturation co-efficient - 0.55 minimum.

B. All brick shall be sampled, tested and accepted in accordance with ASTM C216, ASTM C67 and ASTM 902-92.

1. Curb ramp brick shall be slip resistant, tested and approved in accordance with ASTM C1028, based on passing the friction coefficient of 0.8 minimum under all conditions.

2.02 EXPANSION JOINT MATERIALS

A. Expansion joint: Conform to ASTM D1752-67 Type II, Grace standard cork expansion joint filler, Code 4323, or approved equal; no known equal. Provide filler equal to the full depth of brick and mortar bed less depth of the sealant and back-up.

B. Joint sealant: Sonneborn-DeSota "Sonoclastic" elastomeric paving joint sealant, or Grace "Daraseal U," Traffic Grades, two component urethane base sealant, or

approved equal. Apply in accordance with the manufacturer's specifications and instructions, complete with priming material, bond breaker and back-up. The sealant material shall comply with Federal Specification TT-S-00227e, Type I, Class A. The sealant joint width shall be 3/8 inch by 3/8 inch deep. Sealant color shall match the mortar color.

C. Back-up of butyl rubber rod: Percora "Back-Up" No. 89, or Sonneborn No. 94, Sonaform Backer Rod, or approved equal.

D. Polyethylene slip sheet: Polyethylene Slip Sheeting shall be 10-mil.

2.03 MORTAR

A. The standard of quality for all latex portland cement and epoxy adhesives, and grouting materials specified herein shall be manufactured by Laticrete International, Inc., Bethany, CT 06524-3423. Alternate manufacturers must be approved by the Engineer in accordance with provisions of Section 01 25 00, Substitution Procedures.

1. Equivalent Product Manufacturers: Custom Building Products, Seal Beach, CA; Mapel Corp., Elk Grove Village, ILL.; Hydroment (Bostik), Middleton, MA.

B. Portland Cement Mixes: As manufactured by Laticrete International. Provide Laticrete 211 Crete Filler Powder and Laticrete 226 Thick Bed Mortar Mix for leveling/scratch coat or Laticrete Floor Grout and Joint Filler (specify color) for grouting as required.

C. Latex Additives: As manufactured by Laticrete International. Provide Laticrete 4237 Thin Set Mortar Additive, Laticrete 3701 Mortar Admix and Laticrete 1776 Grout Admix Plus. Installation shall be in strict accordance with manufacturer's instructions. The use of polyvinyl acetate, natural rubber, or resin latex emulsions shall not be permitted.

1. Latex Portland cement bedding and grouting mortar shall be weather, frost, shock resistant, and shall meet the following physical requirements.

a. Compressive Strength: Thick bed mortar: 4000 lbs per square inch min.

b. Compressive Strength: Thin bed bonding grouting mortars: 5000 lbs per square inch min.

c. Tensile Strength: Thin bed bonding grouting mortars; 500 lbs per square inch min.

d. Bond Strength: Thin bed, bonding grouting mortars 500 lbs per square inch min.

e. Water Absorption: 4 percent max.

f. Ozone Resistance: 200 hours @ 200 ppm and no loss of strength

g. Smoke and Flame contribution factors: 0

h. Non-conductive; infinitely resistant to conductivity

PART 3—EXECUTION

3.01 FIELD QUALITY CONTROL

A. Inspect the depth and workmanship of the concrete sub-slab for the finished brickwork. Verify that the sub-slab is clean and free of deleterious materials and that grades provide for positive drainage. Sub-slab conditions not acceptable for brick installation shall be reported to the Engineer in writing. Obtain the Engineer's instructions prior to proceeding with the work affected.

3.02 INSTALLATION

A. Wet bricks until they attain absorption rates of not over 1.4 oz. per minute in accordance with ASTM C67. When being laid, the brick shall have suction sufficient to hold the mortar and to delete the excess water from the grout, but shall be sufficiently damp so that the mortar will remain plastic enough to permit the brick to be leveled and plumbed immediately after being laid.

B. Brick work shall be plumb level, and true to line. All corners and angles shall be square unless otherwise indicated on the Contract Drawings.

C. Brick shall be clean and free of dust, dirt, or other foreign materials before laying.

D. Lay brick to match existing pattern unless otherwise directed. Adjust the double soldier course and contiguous herringbone pattern to conform to all horizontally curved granite curbs.

E. All pattern work shall be accurately and uniformly done.

F. Lay bricks in a full mortar bed over a concrete base slab. The full mortar bed shall vary in thickness to conform to existing brick edge, concrete sidewalk paving and to attain minimum slope for drainage.

G. Mortar joints shall match existing or be 3/8-inch nominal tooled to a shallow smooth, dense, concave joint. Bricks shall be solid, butted and shoved in place. Excess mortar shall be removed immediately from brick pavers. The centerline of all mortar joints shall be straight and aligned in each direction. Brick paving, mortar joint center lines shall conform to a horizontal 4-inch module in each direction, except as noted otherwise, and all joint relationships and control points shall be maintained.

H. At completion of the brick paving, all masonry surfaces shall be thoroughly cleaned in accordance with the Structural Clay Products Institute - Technical Notes on Brick and Tile Construction, No. 20 Revised, latest edition. Sandblasting will not be permitted. The method of cleaning must be approved in writing by the Engineer prior to proceeding with laying brick, but such approval will not relieve the Contractor of the responsibility for having the brick work cleaned satisfactorily.

I. Brick Paving at Street Furniture, Equipment and Pole Foundations: Provide continuous radiating soldier course around base plates, frames and castings; and poles. Locate expansion joints at least 1 foot from poles.

3.03 MIXES

A. Mortar and Grout Mixes:

1. Latex Slurry Bond Coat

a. 200 lbs. (4 bags) Laticrete 211 Crete Filler Power.

b. 5 gal. (1 pail) Laticrete; 4237 Latex Thin Set Mortar Additive or Laticrete 3701 Latex Admixture or Laticrete 4237 (top mortar bed slurry). Adjust liquid amount to obtain proper consistency.

2. Latex Thin Bed Mortar Mix

a. 165 lbs (3 bags) Laticrete 211 Crete Filler Powder.

b. 6 gal. (1 pail) Laticrete 4237 Latex Thin Set Mortar Additive. Adjust liquid amount to obtain proper consistency.

3. Latex Grout

a. 50 lbs (1 bag) Laticrete Floor Grout and Joint Filler 500 Series. Provide color.

b. 1 gal. (2 jars) Laticrete 1776 Grout Admix Plus. Adjust liquid amount to obtain proper consistency.

4. Latex Portland Cement Leveling Bed to 1 inch

a. 300 lbs. (5 bags) Laticrete 226 Thick Bed Mortar Mix.

b. 5 gal. (1 pail) Laticrete 3701 Mortar Mix. Adjust liquid amount to obtain proper consistency.

3.04 EXPANSION JOINT LOCATIONS

A. At juncture of brick paving and concrete curb or driveway.

B. Around street equipment and furnishings; utility and trolley poles. Provide expansion joint around the one brick course around said features.

C. On centerline of street light or other lights, parallel to curb and through brick sidewalk.

D. Expansion joints shall be inconspicuous and appear identical in size, shape, and color to the adjacent mortar joints. Conform expansion joint to brick pattern.

E. At property or building line parallel to curb.

F. Install not more than 10'-0" on center to nearest joint.

3.05 EXPANSION JOINT INSTALLATION

A. Construct expansion joint materials to the full depth of the brick and mortar bed at all expansion joint locations.

B. Install a polyethylene slip sheet, 10 mils thick and 3 feet wide, centered on the joint between the brick mortar and the concrete base slab on grade at the herein before specified expansion joint locations.

3.06 MORTAR PROPORTIONING AND MIXING

A. Accurately measure all materials; shovel measurements are not acceptable. Use a mechanical mixer of at least 1 cubic foot capacity. Mix materials for a minimum of 3 minutes, but in no case less than the time required to secure a uniform mass. The drum shall be completely emptied before the next batch of materials is placed therein.

B. Stir and mix at frequent intervals to prevent separation of the materials.

C. Adjust mortar consistency to the satisfaction of the mason. The amount of water added shall not exceed industry standards. The mortar shall not be used after the cement has begun its final set and in no case shall it be used more than 1 hour after the completion of the original mixing. Retempering of mortar will not be permitted.

D. When partial batches are mixed, extreme care shall be used in measuring all ingredients.

E. The color shall be a standard commercial brand of chemically inert coloring material accurately measured by weight in a definite manner for each batch of mortar to produce a consistently even medium grey color. The mortar for the mortar joints shall be integrally colored with Conrad Sovig "Permatint" color mix, in a ratio of 2 pounds of 1339 brown with 8 pounds of 110l black.

1. Use 4 pounds of said color mixture per sack of cement or their equal in color and quality. Proportion and mix according to manufacturer's directions. Mortar color shall match the approved color sample at the Engineer's office.

3.07 FRAMES AND CASTINGS

A. At areas where brick pavement is constructed, all frames and castings, including covers, gratings, and boxes shall be adjusted to conform to final grades. The adjustment of frames and castings is incidental to the brick paving work and be in accordance with the requirements of SFDPW Standard Specifications, Section 217.

B. Prior to the start of this work, the Contractor shall locate and show all frames and castings on a set of drawings.

C. Provide adjusting rings for resetting the low pressure and high pressure hydrant valve castings.

D. The San Francisco Water Department (SFWD) will supply the required adjusting rings for the 6-inch and 8-inch valve box castings at the City Distribution Division Corporation Yard, 1990 Newcomb Avenue, San Francisco, at no cost to the Contractor.

E. Adjustment of SFWD frames larger than 8 inches in diameter shall be done by the SFWD, at no cost to the Contractor. Contractor shall notify the SFWD Distribution Division, 4 calendar days in advance of scheduled work that requires resetting of valve castings larger than 8 inches in diameter.

F. Place brick pavement around each casting no later than 2 calendar days after said casting has been adjusted and concrete has been placed.

G. Existing manholes and valves shall be accessible at all times.

END OF SECTION

SECTION 32 17 19

ASPHALT CONCRETE TRAFFIC CALMING DEVICES

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for constructing new or replacement asphalt concrete vertical deflection traffic calming devices, necessitated by pavement restoration or utility projects. Vertical deflection traffic calming devices include speed humps, speed cushions, speed tables and raised crosswalks. These devices are to be constructed at the locations and to the dimensions and details shown on the Drawings, in accordance with the Project Manual and as directed by the City.

1.2 RELATED SECTIONS

A. 01 55 26 Traffic Control

B. 32 12 16 Asphalt Paving

1.3 REFERENCE STANDARDS

A. DPW Standard Specifications (SSDPWSF), revised November 2000.

B. Caltrans Standard Specifications (CTSS), 2010.

C. Caltrans Revised Standard Specifications (CTRSS), March 2017.

D. San Francisco Municipal Transportation Agency (SFMTA) Standard Plans

1. STR-7687 Rev 3, Standard Plan - Speed Hump
2. STR-7687.1 Rev. 0, Standard Plan - Speed Table
3. STR-7687.2 Rev. 0, Standard Plan - Asphalt Raised Crosswalk
4. STR-7687.3 Rev 0, Traffic Striping & Signs - Vertical Deflection Devices
5. STR-7932 Rev 0, Construction Specs - Typical Speed Cushion Streets 37ft to 50ft Wide

1.4 DEFINITIONS

A. Speed Hump: Speed humps are 12 feet long measured in the direction of traffic flow and have a height of 3.25-3.75 inches at their highest point. Speed humps are the most effective traffic calming device in reducing vehicular speeds on a residential street. Refer to drawing STR-7687 Rev 3, Standard Plan Speed Hump for details.

B. Speed Cushion: Speed cushions are speed humps that include wheel cutouts to allow large vehicles, such as Muni buses and emergency response vehicles, to pass unaffected while reducing passenger vehicle speeds. Refer to drawing STR-7932 Rev 0, Construction Specs Typical Speed Cushion Streets 37ft to 50ft Wide for details.

C. Speed Table: Speed tables are midblock traffic calming devices that raise the wheelbase of a vehicle to reduce its traffic speed. Speed tables, which have the same profile as raised crosswalks, are longer than speed humps and flat-topped, with a height of 3.25-3.75 inches and a length of 22 feet in the direction of traffic flow, comprised of two 6-foot long ramps on either side and a 10-foot long plateau (or 'table'). Refer to drawing STR-7687.1 Rev. 0, Standard Plan Speed Table for details.

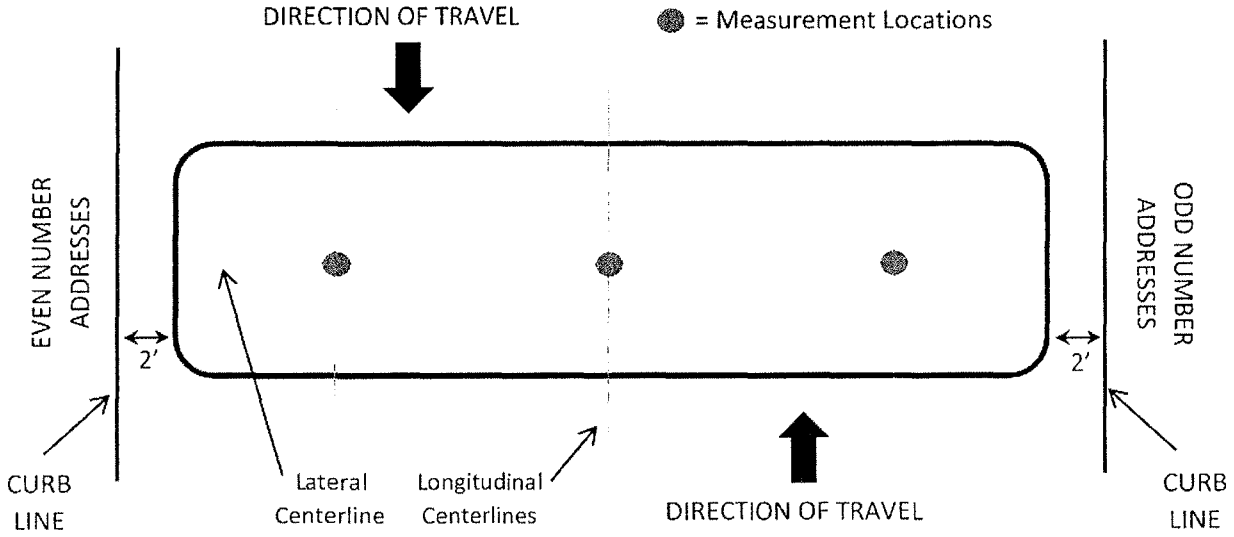
D. Raised Crosswalk: Raised crosswalks are speed tables with crosswalk markings and signs that channelize pedestrian crossings and provide pedestrians with a level street crossing. Raised crosswalks are longer than speed humps and flat-topped, with a height of 3.25 – 3.75 inches and a minimum length of 22 feet in the direction of traffic flow, comprised of two 6-foot long ramps on either side of a minimum 10-foot long plateau. Designs include a channel that is 2 – 4 feet from the curb ramp and a 4-foot ramp up/down on each side to facilitate pedestrian access. Refer to drawing STR-7687.2 Rev 0, Standard Plan Asphalt Raised Crosswalk for details.

1.5 PERFORMANCE QUALITY CONTROL

A. Contractor shall measure height of every asphalt traffic calming device post-construction to verify that the device meets specifications, and submit those measurements to the City Representative.

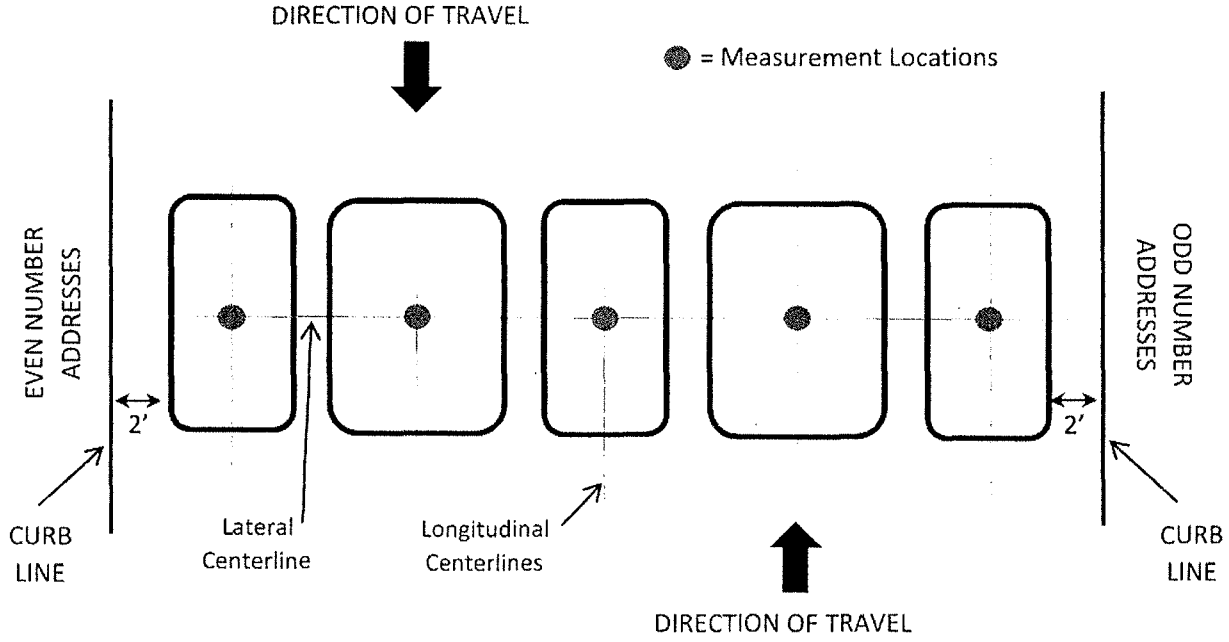
1. Speed humps, speed tables and raised crosswalks – three (3) height measurements must be recorded. Divide the device into three equal sections and measure the height at the points where the lateral centerline of each section intersects the longitudinal centerline described in Figure 1.

Figure 1. QC Measurements for Speed Humps, Speed Tables and Raised Crosswalks



2. Speed cushions – there are two primary types of speed cushions, 3-hump and 5-hump, therefore either three (3) or five (5) height measurements must be recorded depending on the type. Measure the height at the points where the lateral centerline of each hump intersects the longitudinal centerline described in Figure 2.

Figure 2. QC Measurements for Speed Cushions (3-hump or 5-hump)



B. If a device, or any portion thereof, is measured and does not meet specifications, Contractor must immediately correct it and re-measure prior to providing final measurements to the City Representative.

1.6 SUBMITTALS

A. Prior to starting construction, the Contractor shall submit the asphalt concrete mix design, including the amount of asphalt binder to be mixed with the dry aggregate to the City Representative for approval. No work will be allowed prior to the approval of the mix design. Asphalt concrete mix design will conform to Section 39 of the 2010 Caltrans Standard Specifications and as modified below under Article "Materials".

B. The Contractor shall submit (8) copies of the manufacturer's literature, Specifications, applications and installations for filler and/or sealer material to the City Representative for approval at least five (5) calendar days in advance of performing the filling and/or sealing work.

1.7 PRE-CONSTRUCTION MEETING

A. The Contractor shall notify the SFMTA Traffic Calming Program at TrafficCalmingProgram@sfmta.com and the Traffic Engineer through the City Representative of the proposed schedule for removing and constructing any traffic calming devices.

1. Notify SFMTA at least five (5) calendar days in advance of removing a traffic calming device, and to schedule a field visit to layout new traffic calming devices.
2. Notify SFMTA when final pavement is restored and provide a schedule for construction of the new or replacement traffic calming devices (within 2 weeks of completing asphalt concrete wearing surface).

B. Prior to removing existing traffic calming devices, Contractor shall mark location for replacement at same location, preferably with survey nail and washer on the curb so marks remain visible after any trenching or paving work.

C. If non-standard speed bumps or rumble strips are to be removed and new traffic calming devices are to be constructed, SFMTA Livable streets will locate the new devices with the Contractor in the field.

PART 2 – PRODUCTS

2.1 MATERIALS

A. The Contractor is encouraged to use Reclaimed Asphalt Pavement (RAP) in accordance with the 2010 Caltrans Standard Specifications and Revised Standard Specifications. Specifically, refer to 2010 CTRSS Section 39-2.02E outlining current maximum RAP substitution rate. Minimum RAP substitution rate shall be 15% of the aggregate blend.

B. Asphalt: In accordance with the requirements of CTSS Section 39–1.02C of the 2010 Caltrans Standard Specifications, except that asphalt will be either PG 64–10 or AR–4000.

C. Aggregate: In accordance with the requirements of CTRSS Section 39–2.02D of the 2010 Caltrans Revised Standard Specifications, except that aggregate grading will be as follows:

Sieve Sizes	Limits of Proposed	Operating Range	Contract Compliance
3/4"	–	100	100
1/2"	–	95–100	89–100
3/8"		80–95	75–100
No. 4	59–66	X±5	X±8
No. 8	43–49	X±5	X±8
No. 30	22–27	X±5	X±8
No. 200	–	3–8	0–11

Minimum Durability Index: When tested in accordance with AASHTO T 210 shall be 50.

D. Paint Binder: In accordance with the requirements of Section 212.06 of the DPW Standard Specifications, except that paint binder shall be emulsified asphalt Type SS-1 or SS-1h.

E. Sealer: It will be a combination of polymeric compounds, cures to a soft, highly flexible, rubber like material that is capable of maintaining a sealed joint or crack over a wide temperature range. Sealer will be cold applied SOF–SEAL, low modulus horizontal sealant, manufactured by:

W.R. Meadows, Inc.
865 Teal Drive
Benicia, CA 94510
Phone (707) 745-6666

or approved equal.

PART 3 – EXECUTION

3.1 EXAMINATION

A. The Contractor shall not proceed with construction of traffic calming devices until pavement resurfacing has been inspected and accepted by the City Representative.

B. New or replacement traffic calming devices should be constructed within two (2) weeks of completing asphalt concrete wearing surface (to allow time for rolling straight edge test/paving acceptance).

3.2 CONSTRUCTION

A. Layout the area of the traffic calming device.

B. Key the traffic calming device to existing pavement by cutting and milling inside perimeter 2-feet wide by 2-inches deep.

C. Apply paint binder in accordance with the requirements of Section 212.06 of the DPW Standard Specifications.

D. Place and compact hot-mix asphalt to cross section indicated on plans in no more than two (2) lifts. Hot tamp hand-placed materials by means of pneumatic tampers or by other methods that will produce the same degree of compaction as pneumatic tampers.

E. Final Compaction shall be equivalent to an 8-ton static roller.

F. Seal edges with approved sealer to prevent moisture penetration.

G. Install white reflective temporary pavement markings (chevrons) on traffic calming device prior to opening to traffic. Refer to drawing STR-7687.3 Rev 0 Traffic Striping & Signs Vertical Deflection Devices for signage and additional pavement markings as required by the Traffic Engineer.

END OF SECTION

SECTION 32 17 34

CONCRETE DETECTABLE WARNING TILES

PART 1 – GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for furnishing and installing concrete cast-in-place detectable warning tiles embedded in all curb ramps at the locations and to the dimensions shown on the Drawings, in accordance with the Project Manual and as directed by the City.

1.2 REFERENCES

A. Drawings and General Provisions of this Contract apply to this Section.

B. Americans with Disabilities Act (ADA) Title 49 CFR Transportation, Part 37.9 Standards for Accessible Transportation Facilities, Appendix A, Section 4.29.2 Detectable Warnings on Walking Surfaces.

C. California Code of Regulations (CCR) Title 24 Part 1 Articles 2, 3 and 4, and Part 2 Section 205 definition of "Detectable Warning", Section 1127B.5 for "Curb Ramps", and Section 1133B.8.5 for "Detectable Warnings at Hazardous Vehicle Areas".

D. American Society for Testing and Materials (ASTM) Test Methods B117, C1028, D543, D570, D638, D695, D790, D1037, D2486, D2565, D5420 and E84.

E. SFPW Accessible Street Crossing Standards, latest edition.

F. SFPW Standard Specifications (SFPWSS), revised November, 2000.

1.3 SUBMITTALS

A. Product Data: The Contractor shall submit manufacturer's literature describing products, installation procedures and maintenance instructions.

B. Samples for Verification Purposes: The Contractor shall submit two (2) tile samples minimum 6" x 8" of the kind proposed for use. Samples will be properly labeled and will contain the following information: Contract name, submitted by, date of submittal, manufacturer's name, catalog number and date of fabrication.

C. Shop Drawings: The Contractor shall submit Shop Drawings showing plans of tile placement, including joints, all materials to be used and an outline of installation procedures.

D. Material Test Reports: The Contractor shall submit current test reports from qualified independent testing laboratory indicating that materials proposed for use are in compliance with requirements and meet the properties indicated. Tests listed in Section 1.4 will be performed by a certified and qualified independent testing laboratory on a cast-in-place tactile tile system. All test reports submitted will be certified by the testing laboratory and will be no more than six (6) months old from the time of the submittal.

1.4 QUALITY CONTROL

A. The Contractor shall provide concrete cast-in-place detectable warning tiles and accessories as produced by a single manufacturer.

B. Installer's Qualifications: The Contractor shall engage an experienced installer certified in writing by tile manufacturer, who has successfully completed tile installations similar in material, design and extent to that indicated for this Contract.

1.5 DELIVERY, STORAGE AND HANDLING

A. Tiles will be suitably packaged or crated to prevent damage in shipment or handling. Finished surfaces will be protected by sturdy wrappings.

1.6 GUARANTEE

A. Concrete cast-in-place detectable warning tiles will be guaranteed in writing for a period of five (5) years from date of the Contract's Final Completion. The guarantee includes, but is not limited to, defective work, breakage, deformation, loosening of tiles, and failure of fasteners and anchors.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Cast-in-place detectable warning tiles will be made of a polymer composite concrete and be ADA and CCR compliant.

B. Color: Yellow conforming to Federal Standard 595B Table IV, Color No. 33538. Color will be homogeneous throughout the tile.

C. Domes: Square grid pattern of raised truncated domes of 0.2 inches nominal height, base diameter of 0.9 inches and top diameter of 0.45. Domes will have a center to center spacing of 1.67 inches and a base to base spacing of 0.77 inches, measured between the most adjacent domes on square grid.

D. Tiles will meet or exceed the following test criteria using the most current test methods:
1. Polymer Composite Concrete Based Tiles

Property	Limit
Compressive Strength	11,000 psi minimum
Tensile Strength	1,700 psi minimum
Flexural Ultimate Strength	2,700 psi minimum
Slip Resistance	0.80 minimum
Water Absorption	Not to exceed 2%
Abrasion Resistance	<0.03 cm^3/cm^2

E. The field area will consist of a non slip surface with a minimum static coefficient of friction of 0.80, wet and dry.

F. Tile Size: Individual panel size will be a minimum of 2 feet wide by 3 feet long. Minimum 3 feet of detectable warning tile depth is required at each curb ramp unless noted otherwise on contract drawings.

G. Filler: Non-shrink grout per the grout manufacturer's requirements.

H. Cleaning materials used on site will have code acceptable low VOC solvent content and low flammability.

I. The Specifications of the concrete, sealants and related materials will be in accordance with the Contract Documents and the guidelines set by their respective manufacturers.

2.2 MANUFACTURERS

A. Available manufacturers and models subject to compliance with these Specifications include the following or approved equal:

Manufacturer	Material	Model
TekWay Dome-Tiles manufactured by StrongGo LLC	Polymer Composite Concrete	Cast-in-place

2.3 EQUIPMENT

A. The Contractor shall provide all tools, equipment and services required for the satisfactory installation per manufacturer's instruction as Incidental Work. Equipment, which may be required, include typical mason's tools, a 4 feet long level with electronic slope readout, 25 pound weights, vibrator and small sledge hammer with 2" x 6" x 20" wood tamping plate, and a device for cutting the tiles.

PART 3 – EXECUTION

3.1 PREPARATION

A. During all concrete pouring and tile installation procedures, the Contractor shall ensure adequate safety guidelines are in place and that they are in accordance with the applicable industry and government standards.

B. The physical characteristics of the concrete will be consistent with these Specifications while maintaining a slump range of 4 inches to 7 inches to permit solid placement of the cast-in-place tactile tile system.

C. The concrete will be poured and finished, true and smooth to the required dimensions and slope prior to tile placement.

3.2 INSTALLATION

A. The Contractor shall not be allowed to install curb ramps until all submittals have been reviewed and approved by the City.

B. The tiles shall be installed per manufacturer's instructions.

C. The tiles will be oriented such that the rows of detectable warning tiles are parallel with the direction of the ramp.

D. The largest size tile manufactured will be used to minimize multiple tiles on the ramp. When multiple tiles are used, the domes will be aligned between the tiles and throughout the entire detectable warning tile installation. The tiles will be placed to the back of curb in accordance with the Drawings. Cutting the tiles may be required.

E. Panel to panel joints between detectable warning panels must be laid out by adjoining factory edges. All grade break joints shall be factory edges; no cutting of tiles shall be allowed at grade breaks.

F. The tiles will be tamped or vibrated into the fresh concrete to ensure that there are no voids or air pockets, and the field level of tile is flush to the adjacent concrete surface or as the Drawings indicate to permit proper water drainage and eliminate tripping hazards between adjacent finishes.

G. While the concrete is workable, a 1/8 inch radius edging tool will be used to create a finished edge of concrete, then a steel trowel will be used to finish the concrete around the tile's perimeter, flush to the field level of the tile.

H. Concrete detectable warning tiles shall have a beveled edge sloped at 1:2 maximum to create a smooth transition between the back of curb and detectable warning tiles.

I. All visible gaps/joints shall be filled to create smooth transitions throughout. Grinding of filler material shall be performed to create smooth transitions, if necessary.

J. An overly wet mix will cause the cast-in-place detectable warning tiles to float. Under these conditions, suitable weights such as 2 concrete blocks or sandbags (25 lb) will be placed on each tile.

3.3 CLEANING AND PROTECTING

A. The Contractor shall protect detectable warning tiles against damage during construction to comply with tile manufacturer's Specifications.

B. During and after the tile installation and the concrete curing stage, it is imperative that there will be no walking, leaning or external forces placed on the tile to rock the tile, causing a void between the underside of tile and concrete.

C. The Contractor shall protect detectable warning tiles against damage from rolling loads following installation by covering with plywood or hardwood.

D. The Contractor shall clean tiles prior to the date scheduled for inspection. The tiles will be cleaned by the method specified by the tile manufacturer. Protective covering provided by manufacturer shall be removed at completion of curb ramp construction.

END OF SECTION

SECTION 32 17 53

ADJUSTMENT OF FRAMES AND CASTINGS

PART 1 - GENERAL

1.1 DESCRIPTION

A. This Section includes provisions for resetting existing and castings to finished grade after resurfacing work.

1.2 CITY-OWNED FRAMES AND CASTINGS

A. City–owned street frames and castings are facilities of City departments, which include, but are not limited to, the following:
   1. Department of Public Works
   2. Department of Electricity
   3. Police Department
   4. Fire Department
   5. San Francisco Public Utility Commission
   6. Municipal Transportation Agency.
   7. Department of Technology

B. Adjustment of City–owned frames and castings will be paid per the applicable bid items. If no such bid items exist, the Work is considered incidental to the reconstruction work.

1.3 NON-GOVERNMENTALLY-OWNED FRAMES AND CASTINGS

A. Non-governmentally-owned include, but not limited to, the following companies:
   1. Pacific Gas and Electric Company
   2. AT&T
   3. Comcast

B. All frames and castings shall be identified for the owners and made accessible immediately after paving operations.

C. The Contractor shall notify utility companies of completion of asphalt paving work within one week.

D. Copies of notifications to utility companies shall be submitted to the City Representative.

1.4 REFERENCE STANDARDS

A. DPW Standard Specifications (SSDPWSF), revised November, 2000.

B. DPW Standard Plans, dated April, 2007.

C. San Francisco Water Department Standard Drawings.

1.5 PERFORMANCE QUALITY CONTROL

A. For San Francisco Water Department (SFWD) facilities, all adjusted or reconstructed valve box covers shall not rattle, and shall be flushed with the finished pavement grade. The valve box covers shall be free of excess asphalt or other material covering the perimeters of the covers. After the paving work, the Contractor shall check to make sure that valve box covers are easily removable from the valve box.

B. The Contractor shall be fully liable for any accidents created by valve box covers installed by the Contractor until the installation is accepted by SFWD inspectors.

C. The SFWD will remove the valve box covers and check the operability of the valve. The Contractor shall remove all materials that have fallen into the valve box due to the Contractor's operations, to the satisfaction of the SFWD inspector.

1.6 COST FOR PRIVATELY OWNED ITEMS

A. The Contractor shall be responsible for negotiating an agreement for payment with the owner(s) of privately owned manhole covers, frames and castings to be adjusted to finished grades.

PART 2 - PRODUCTS

2.1 SFWD MATERIALS

A. The SFWD will provide, at no cost to the Contractor, adjusting rings for resetting SFWD valve box covers, pipe risers and base plates for valve box reconstruction. The Contractor shall provide all other materials. After determining the quantities of each type of adjusting rings (1", 1-1/2", 2"), pipe risers and base plates, the Contractor shall make the material request to the SFWD inspector. The Contractor shall pick up the materials to be furnished by SFWD from the SFWD Yard per the quantities approved by the SFWD inspector.

PART 3 - EXECUTION

3.1 SPECIAL INSTRUCTIONS

A. Existing SFWD and San Francisco Fire Department (SFFD) valves shall be made accessible at all times.

3.2 INSTALLATION

A. Contractor shall adjust City-owned frames and castings no later than one week after completing asphalt paving work on a block or intersection.

B. The final layer of asphalt concrete shall be placed around each City–owned casting no later than two (2) calendar days after said casting has been adjusted and concrete has been placed.

C. The adjustment of manhole frames and other castings shall be in accordance with the requirements of Section 217 of the DPW Standard Specifications.

3.3 SFWD VALVE BOX COVERS ADJUSTMENT (6", 8", 12" AND 16")

A. Before any asphalt concrete grinding operations, the Contractor shall identify all valve box covers by marking from nearby reference points like curbs, sidewalks, or other street furniture, but not by marking on the street surface to be grinded. SFWD inspectors will mark the locations of valve box covers that had been paved over. The Contractor shall pay special attention to all identified valve box covers during grinding to avoid damaging these SFWD facilities.

B. Grinding machines will not be allowed to be closer than one foot from the edge of these covers. Asphalt concrete surrounding a valve box cover will be removed by hand.

C. The Contractor shall reconstruct the surrounding asphalt concrete edge prior to resurfacing the rest of the asphalt concrete wearing surface.

D. The Contractor shall take necessary precautions to prevent grindings or new asphalt from falling into SFWD valve boxes during these operations.

E. Grinding the top of the valve box during the cold planing is absolutely prohibited.

F. The Contractor shall reconstruct the valve box as described below under Article "SFWD valve box reconstruction", at the Contractor's cost if the valve box be ground at the top.

G. The placement of steel rings on SFWD–owned castings will be performed during the paving operation, except when it is necessary to reconstruct as described below under Article "SFWD valve box reconstruction".

H. A maximum of two (2) steel rings may be used for adjustment of SFWD castings to grade during paving operation. Any SFWD–owned casting, which cannot be satisfactorily adjusted by using no more than two (2) steel rings will require reconstruction as described below under Article "SFWD valve box reconstruction".

3.4 SFWD VALVE BOX RECONSTRUCTION (6", 8", 12" AND 16")

A. During construction or repair of the concrete base, or when the cover adjustment cannot be done with two (2) rings, the Contractor shall remove valve box assemblies. The Contractor shall obtain from SFWD, materials for reconstructing the new valve box assemblies, including pipe risers and base plates. The Contractor shall cut the pipe to length according to field conditions, install the base plate, cover the plate with asphalt or concrete as appropriate, and set the pipe riser, ensuring that its cover is flush with the finished pavement grade.

3.5 SFWD CASTINGS LARGER THAN 16"

A. The Contractor shall notify the SFWD inspector of any SFWD castings that are larger than 16", and submit proposed adjustment method for approval.

END OF SECTION

SECTION 33 01 30.63

SEWERAGE SYSTEM MORTAR REHABILITATION

PART 1 - GENERAL

1.01 CALCIUM ALUMINATE CEMENTITIOUS STRUCTURAL REHABILITATION COATING

This specification defines the method and material for the rehabilitation of sanitary manhole utilizing a spray applied calcium aluminate cementitious (CAC) structural rehabilitation system. The purpose of this work is to obtain a dense and durable concrete mortaring that is resistant to biosulfuric acid attack and meets the strength requirements described elsewhere in this specification.

1.02 DESCRIPTION

A. The work specified in this Section shall include:

1. Eliminating voids in walls.
2. Properly preparing interior to produce a surface suitable for application and adhesion of the specified coating system.
3. Bypassing main sewer flow as necessary.
4. Rehabilitate all interior surfaces of manholes and sewers in accordance with specifications.
5. Testing of CAC mortar material.
6. Furnishing all labor, equipment, materials, and supervision necessary to accomplish the rehabilitation as specified.

1.03 RELATED WORK SPECIFIED ELSEWHERE

A. Other contract documents, including Drawings, Relevant Sections of the SFDPW Standard Specifications and these Specifications apply to work specified herein.

B. Division 1, General Requirements.

C. Section 33 33 00 – Sanitary Sewerage Utilities.

1.04 REFERENCES

A. Department of Public Works Standard Specifications, November 2000.

B. Standard Specifications for Public Works Construction - 1991 Edition ("Green Book").

C. American Society of Testing and Materials (ASTM) Standards. (Latest Edition).

1.05 SUBMITTALS

A. The Contractor shall provide six (6) copies of the following:

1. Manufacturer's product data, including physical properties, surface preparation, repairs, application and curing instructions, Material Safety Data Sheets

(MSDS/SDS), and field quality control.

2. Manufacturer's product data and MSDS/SDS for repair, resurfacing and infiltration control materials, if necessary, and proof of compatibility of the materials.

3. Independent laboratory reports proving performance properties of mortar material.

4. Manufacturer's warranty and warranty application procedures.

5. Nozzle men and applicator's certification from the coating manufacturer, applicator and foreman reference and contact information on recently completed manhole rehabilitation using this coating within the last three (3) years.

PART 2 - PRODUCTS

2.01 MATERIALS FOR CAC MORTAR

A. Mortar material furnished under this specification shall be a prepackaged mortar mix, including all cement, aggregates, and any required additives. It is the intent of this specification that the Contractor only be required to add the proper amount of potable water so as to produce concrete suitable for spray application. Do not add Portland cement, other aggregates, or any admixtures whatsoever to mortar material. Typical package weights shall not be less than 50 lbs and shall be identical for all material furnished on this project.

B. The chemical composition of the cement portion as well as the aggregates of the mortar mix shall be as follows:

Al_2O_3	CaO	$FeO + Fe_2O_3$	SiO_2
39-44%	35-39%	9-14%	5-7%

C. The properties of the mortar mix are typically as follows:

Property	ASTM Test	Result
Compressive Strength	ASTM C109	
1 Day		5,500 psi
7 Days		6,000 psi
28 Days		7,000 psi
Flexural Strength	ASTM C78	
1 Day		900 psi
7 Days		1,100 psi
28 Days		1,300 psi
Slant Shear Bond Strength	ASTM C882 Modified	
7 Days		2,500 psi
28 Days		2,500 psi
Splitting Tensile Strength	ASTM C496	
1 Day		550 psi
7 Days		600 psi
28 Days		700 psi

Shrinkage	ASTM C596	< 0.08% cured @ 90% relative humidity

D. Mortar mix must have at least seven (7) years of successful performance in similar applications and be supplied by an ISO 9001 certified manufacturer.

E. Mortar mix shall be designed to withstand long-term exposure to a bacterially corrosive hydrogen sulfide environment that may be expected to produce a pH of 1 on normal Portland cement based concrete or typical brick and mortar surfaces.

F. Water used in mixing shall be fresh, clean, potable water, free from injurious amounts of oil, acid, alkali, vegetable, sewage and/or organic matter.

2.02 MATERIALS FOR REPAIR AND INFILTRATION CONTROL

A. A rapid setting crystalline enhanced hydraulic cement product specifically formulated for infiltration control shall be used to stop minor infiltration flows in accordance with the manufacturer's recommendations. The material shall meet the following strength requirements:

Compressive Strength (ASTM C597B)	600 psi 1,000 psi	(24 hours) (7 days)
Bond Strength (ASTM C321)	30 psi 80 psi	(1 hour) (1 day)

B. All materials, labor, equipment, and incidentals required to correct inflow and infiltration conditions will be considered incidental to rehabilitation.

PART 3 - EXECUTION

3.01 SAMPLING AND TESTING

A. The Contractor will retain a Testing and Inspection Agency to provide the testing and inspection of the material used on this project. Contractor shall provide all of its testing and inspection results to the City Representative for review and approval.

B. Four (4) two-inch cubes of CAC mortar shall be cast each day or from each of two (2) pallets as selected by the City Representative, and shall be tested from compressive strength per ASTM C109. One (1) of these samples shall be tested at 24 hours and the remaining 7 samples shall be tested at 28 days. The CAC mortar shall meet the compressive strength as defined in section 2.01.

C. Other testing required showing conformance with these specifications shall be the responsibility of the Contractor. Certified test reports and certificates, when so directed, shall be submitted in duplicate to the City Representative.

D. City retains right to sample and test proposed material. City retains the right to direct the Contractor's Testing Agency to perform additional sampling and testing, at no additional cost to the City.

3.02 QUALIFICATIONS

A. The applicator shall be certified by the CAC coating system manufacturer.

B. The nozzle operator and foreman shall have a minimum of three (3) years' experience each installing the coating system for similar work and project conditions.

C. Either the foreman or nozzle operator shall be on-site during all preparation and installation activities.

3.03 EQUIPMENT

Equipment shall be of spray type and approved by the material manufacturer. Alternate equipment may be utilized provided it meets the performance requirements of the specification. All equipment must be kept in operating condition and good repair.

3.04 SURFACE PREPARATION

A. Prior to the installation of the mortar coating, the host sewer surfaces shall be prepared to produce a surface suitable for application and adhesion of the CAC mortar material. Contractor shall ensure the surfaces are clean and free of laitance, loose material, residue and all existing coating and mortaring materials. The Contractor shall thoroughly clean all the surfaces to be coated to remove grease, sludge, direct, magnesium hydroxide, other foreign deposits, and all deleterious materials that may affect the bonding of the mortar. Root shall be removed.

B. Cleaning and surface preparation shall include the inspection of the existing structure for damage and infiltration. The Contractor shall protect the host structure from damage due to cleaning, and any damage shall be repaired prior to installation of CAC mortar coating.

C. Prior to coating installation, patching, localized repairs, and resurfacing shall be performance in accordance with the coating manufacturer's recommendations. Repair, resurfacing and material to eliminate active infiltration shall be compatible with the CAC mortar material and shall meet specifications as specified in section 2.02.

D. Sub-surfaces shall be thoroughly saturated with water prior to the application of the mortar materials. In no instance shall shotcrete be applied in an area where running water exists.

3.05 INSTALLATION

A. The coating shall be installed in accordance with the manufacturer's recommendations.

B. The Contractor shall provide all equipment necessary to individually gauge, control, and monitor the actual amounts of all component materials necessary to complete the mortar installation.

C. All CAC mortar materials shall be thoroughly mixed by mechanical means to ensure all agglomerated particles are reduced to original size or removed prior to placement into the application equipment (i.e. the hopper). Each batch of material should be entirely discharged before recharging with fresh material. Mixing equipment shall be cleaned at regular intervals to remove all adherent materials.

D. The addition of water to the mix shall be in strict accordance with the Manufacturer's recommendations.

E. Re-mixing or tempering shall not be permitted. Rebound materials shall not be reused.

F. CAC mortar material shall not be applied to a frozen surface or to a surface that may freeze within 12 hours of application. Frozen conditions shall be defined as ambient temperatures of 40 degrees Fahrenheit or below.

G. Sequence of application may be from bottom to top or vice versa if rebound is properly removed.

H. Application shall be from an angle as nearly perpendicular to the surface as practicable, with the nozzle held at least 1 foot from the working sub-surface (except in confined control). If the flow of material at the nozzle is not uniform and slugs, sand spots, or wet sloughs result, the nozzle operator shall direct the nozzle away from the work until the faulty conditions are corrected. Such defects shall be replaced as the work progresses.

Application shall be suspended if:

1. Air velocity separates the cement from the aggregate at the nozzle.

2. Ambient temperature approaches freezing and the newly placed material cannot be protected and insulated.

I. The time interval between successive layers of material application must be sufficient to allow "tackiness" to develop but not final set.

J. Construction joints within a manhole shall be avoided. In the event a construction joint is necessary and approved by the City Representative, it shall be sloped off to a thin, clean, regular edge, at a 45-degree angle. Prior to placement of the adjoining materials, the sloped portion and adjacent applied material shall be thoroughly cleaned as necessary, then moistened and scoured with an air jet.

K. Nozzle operator shall bring the material to an even plane and to well-formed corners.

L. After the body coat has been placed, the surface shall be trued with a thin-edge screed to remove high areas and expose low areas. Low areas shall be properly filled with additional material to insure a true, flat surface.

M. The minimum thickness of CAC mortar shall be a 1-inch cover over all surfaces. Refer to Section 3.08 for thickness verification.

N. At the pipe interface with the manhole, the CAC shall be placed up to the leading edge of the pipe and flush with the inside diameter of the pipe surface.

O. When mortaring manhole only, CAC shall not be sprayed into any existing pipes. If CAC does enter a pipe, the Contractor shall remove all CAC from the pipe.

P. CAC coating shall be tapered as to not create an abrupt angle, where applicable.

3.06 CURING

A. If the material has been applied and furnished in accordance to the specifications, and it has been determined that the environment is not moist enough for natural curing, the contractor will be required to apply a curing compound to all coated surfaces. Curing compound shall meet the requirements of ASTM C309 and have the approval of the CAC material Manufacturer and the City Representative prior to use.

B. Moist curing may also be used in lieu of curing compound. If moist curing is selected, it should be implemented just after the notice of uniform heat generation of the installed mortar. Moist curing can consist of the use of soaker hoses, water sprinklers, or vapor/misting machines. Regardless of delivery method, moist curing should continue for a minimum of 18 hours.

3.07 PROTECTION OF ADJACENT SURFACES

A. During progress of the work, adjacent areas or grounds which may be permanently discolored, stained or otherwise damaged by dust and rebound material, shall be adequately protected and, if contacted, shall be cleaned by early scraping, brushing or washing as the surroundings permit.

3.08 THICKNESS VERIFICATION

A. In order to verify that the dry coating thickness meets the minimum requirement, the Contractor shall core the CAC coating at three (3) locations at each manhole or at each pipe segment at locations selected by and as directed by the City Representative. The testing locations shall be determined by the City Representative after rehabilitation work is complete. The core holes shall be repaired in accordance with the manufacturer's recommendations. The average thickness of samples shall be calculated separately, and shall be equal to or greater than the minimum coating thickness as specified, and if it is not, then the manhole shall have the surface prepared per the manufacturer's recommendation and additional coating shall be applied, at no additional cost to the City. If this thickness test fails, then core samples and repair may be required at additional locations to verify coating thickness.

3.09 CLEAN UP

A. Upon completion of the installation work and after required testing indicates the manhole is acceptable, Contractor shall restore the project area affected by his operation.

3.10 CORRECTION OF DEFECTS IN SEWER CONSTRUCTED IN THIS CONTRACT

A. The City will inspect the work prior to expiration of the three year post-construction period, following the date of acceptance of the work.

B. All defects shall be corrected by the Contractor at no expense to the City.

END OF SECTION

SECTION 33 11 28

PROTECTION OF EXISTING WATER AND AWSS FACILITIES

PART 1 GENERAL

1.1 DESCRIPTION

A. Design and install temporary supports to work around the San Francisco Public Utilities Commission's (SFPUC) Potable Water (PW), Recycled Water (RW), and Auxiliary Water Supply System (AWSS) facilities to protect and provide uninterrupted service to these facilities. Contractor will be held responsible for any damage related to or caused by failure to exercise due care. Repair of existing utilities and improvements damaged during construction shall be at the Contractor's expense.

B. The Contractor shall furnish, install and remove upon completion of the work, Settlement Reference Points (SRP) and Settlement Monitoring Points (SMP) for the San Francisco Public Utilities Commission's (SFPUC) Auxiliary Water Supply System (AWSS) piping as shown on drawings and conduct the survey of SRPs and SMPs as specified hereinafter.

C. The Contractor shall perform all required work as stated in this specification section and as shown on the Drawing(s) and furnish all materials, other than those specified to be furnished by the City, which are necessary or required to complete the work.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Section 01 33 00 – Submittal Procedures

1.3 RECORD DRAWINGS AND STANDARDS

Records of the existing PW, RW, and AWSS facilities and Standard requirements are available for examination by bidders/awarded Contractor at the SFPUC's City Distribution Division (CDD), Engineering Section, 1990 Newcomb Ave, San Francisco, CA 94124. Telephone number 415-550-4994.

Contractors are warned that changes which do not appear in the records for existing CDD facilities may have been made. The City makes no representation as to the completeness or accuracy of said records and assumes no responsibility thereto.

1.4 DEFINITIONS

A. Maximum Allowable Settlement: Level at which no further movement will be acceptable and if reached requires work to be halted until submittal and acceptance of a written plan detailing corrective actions and restorative measures.

B. Response Values: Predetermined values within the instrument range indicating different levels of response as specified herein.

C. Settlement Monitoring Point: A system of points along the alignment of the AWSS for monitoring vertical deformation (settlement or heave) at or near the ground surface using optical survey techniques.

E. Settlement Reference Point: A stable, fixed control point established at a surface structure above ground that is referenced during settlement monitoring point measurements to permit calculation of vertical movements.

1.5 REFERENCES

A. AWSS Standard Plans – see exhibits "A" and "B" at the end of this Section:

Drawing No.	Title
HPL-5993 Ch. 3	AWSS Standard Details AWSS Settlement Point; 07/09/84
HPL-5993.1 Ch. 1	AWSS Settlement Point for Double Spigot; 05/16/83

B. AWSS Settlement Monitoring Drawings in the Contract showing approximate locations of settlement monitoring and reference points.

C. State of California Labor Code, Section 6705 and 6707.

D. State of California Construction Safety Orders, Article 6 - Excavation.

1.6 SUBMITTALS

Submit the following to City Representative for review and acceptance. Work shall not start until acceptance of submittals:

A. Work plan, support details, and calculations.

1) Work Plan for working around existing PW, RW, and AWSS facilities. The plan shall show the locations of proposed facilities, existing utilities and pipelines, proposed pipe supports for SFPUC CDD facilities, pipe storage, spoil bank, excavation and pipe laying equipment, shoring system, and a description of how the work will proceed around the existing SFPUC CDD facilities. Provide drawings that include dimensions to allow determining the distances of objects relative to the SFPUC CDD facilities. Sizes of existing and proposed facilities, width and depth of proposed trench, and any other pertinent information must be shown in the drawings. For proposed structural facilities, such as retaining walls, potentially impacting CDD facilities, submit elevation and or section views showing horizontal and vertical locations of CDD facilities relative to the proposed structure.

2) Where supports are required per this specification, submit support details and calculations, signed and stamped by a California licensed Civil or Structural Engineer, for structural support for the protection of exposed and/or undermined sections of SFPUC CDD pipe or facilities. At the discretion of SFPUC CDD Engineering, revised support details and calculations may be required to be submitted if conditions vary significantly following excavation.

3) Submit minimum (7) days before planned excavation.

B. Control Density Fill (CDF) mix design where CDF is required per this Specification. Submit certified laboratory test results within the past 1-year that the mix proportions and materials comply with these Specifications.

C. Survey of Settlement Reference and Monitoring Points data: The Contractor shall submit elevations of all SMPs and SRPs (to be provided in "feet") by a State of California licensed Land Surveyor in addition to deflection calculations for each pipe joint.

Data and calculations shall be submitted once prior to the start of construction, once a week during construction, once at the end of construction and final survey is completed, and when threshold values are exceeded as specified below. Pipe deflection angles and elevation readings calculated from SMPs and SRPs are to be tabulated in chronological order with all previous results for review and approval within 24 hours of the survey being performed.

PART 2 PRODUCTS

2.1 CONTROLLED DENSITY FILL

A. Materials shall conform to the following:

1) Cement: ASTM C150, Type II or V.

2) Aggregate: ASTM C33. Aggregate shall consist of fine aggregate with a maximum size of 1/4", free of clay, organics, and other deleterious materials. Less than 10 percent by weight shall pass the No. 200 sieve, and material passing the No. 40 sieve shall be non-plastic as determined in accordance with ASTM D4318.

3) Water: Potable.

4) Pozzolans: ASTM C618, Class C fly ash. Class F fly ash and slag is not permitted.

5) Air entraining: ASTM C260. Air content shall not exceed 25 percent.

6) Admixtures: Shall not contain chloride ions and shall not cause delayed strength gain.

B. Mixes:

1) Performance requirement: proportioned to be free-flowing, self-consolidating, hand tool excavatable, low-shrink slurry.

2) Mix design requirement: The Contractor and its supplier shall determine the materials and proportions used to meet the requirements of the Specifications.

3) Strength: Unconfined compressive strength at 28 days shall be between 50 to 125 psi tested per ASTM D 4832.

4) Flowability: 6 to 9 inches when tested per ASTM C-143 or ASTM D 6103.

5) Cementitious Material: Portland Cement. Where pozzolans are used, pozzolans shall be limited to maximum 60% of the weight of cement.

2.2 AWSS SETTLEMENT REFERENCE AND MONITORING POINTS

A. AWSS Settlement Reference and Monitoring Well Covers

6-inch valve cover, H-20 load rated, cover similar to the San Francisco Water Department's 6-inch gate valve cover.

B. Required survey monitoring of AWSS facilities outside of trenches and/or excavations:

Refer to the AWSS Settlement Monitoring Drawing(s) for the location of SMPs to be installed as part of the contract work; and

1) For trench/excavation crossing AWSS, the SMPs shall be located starting on the closest pipe bell near the edge of the trench and/or excavation and installed outward away from the trench and/or excavation; and

2) Rod, guide pipe, and monitoring well shall be per Drawings "HPL-5993" and/or "HPL-5993.1", which are attached to this specification section and shall be at the approximate locations as shown on the AWSS work contract drawing(s), which are included in the contract documents. The exact SRP and SMP locations shall be determined in the field and approved by the SFPUC CDD Representative.

C. Required monitoring of AWSS facilities inside of trenches and/or excavations:

1) Exposed AWSS pipe joints in trenches and/or excavations shall be identified as a SMP regardless of whether the joint is called out on the AWSS Settlement Monitoring Drawing(s) to be surveyed and monitored. Price for additional survey locations when required by the specifications and/or by the SFPUC CDD Representative shall be based on the Contractor's total bid price for SMPs divided by the quantity of SMPs as shown on the AWSS work drawing(s) to be installed, surveyed and removed. Field verification of the exact location shall be required and approved by SFPUC CDD Engineering.

2) Additional SMPs within trenches and/or excavations may be necessary on either or both sides of the AWSS joint to distinguish the difference between vertical displacement and joint deflection.

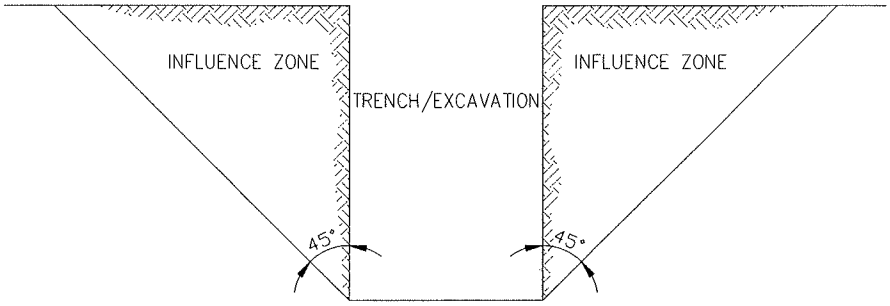
D. Placement of SRP(s) for survey monitoring of SMPs:

1) A settlement reference point shall be designated by a marking on a hydrant or other stable, permanent fixture located within the public right-of-way. The same location shall be surveyed for reference over the course of the project. Refer to the AWSS Settlement Monitoring Drawing(s) for the location of SRP(s) to be installed as part of the survey monitoring work.

PART 3 EXECUTION

3.1 SUPPORT AND REPLACEMENT OF EXISTING PW, RW, AND AWSS FACILITIES

A. Inspection, Review and Approval of Methods



1) If existing SFPUC CDD facility, not shown on the drawing or is shown on the drawing outside of the influence zone, is found to be within the influence zone of the proposed trench/excavation as shown in the figure above, the Contractor is required to contact CDD Engineering and request an inspection to review and approve the field methods being used and/or proposed for the protection of CDD facility.

2) If two or more consecutive SFPUC CDD lead filled, cast-iron pipe joints are located within the trench/excavation, CDD requires replacement of the existing pipe with new ductile iron pipe with elastomeric EPDM joint gaskets within the influence zone.

3) Existing valves exposed in trench/excavation:

   a) If existing valve with lead filled joints is exposed within the trench/excavation, CDD requires replacement of the existing valve and cast-iron pipe with new ductile iron pipe with elastomeric EPDM joint gaskets within the influence zone.

   b) If existing valve with restrained elastomeric gasketed joints connecting to ductile-iron pipe is exposed within trench/excavation, pipe support requirement shall be the same as that for ductile-iron pipe as specified in the following requirement. If valve is not restrained, restraints shall be added by CDD at the project owner's cost.

4) Pipe supports are required where CDD pipe is exposed more than:
   a) 6 ft. for cast-iron pipe with no exposed joint.
   b) 3.5 ft. for cast-iron pipe with exposed joint.
   c) 10 ft. for ductile-iron pipe with no exposed joint.
   d) 6 ft. for ductile iron pipe with exposed joint(s).

5) Sheet pile driving adjacent to existing CDD pipe shall maintain a minimum clear spacing between back of sheet pile and edge of pipe of:
   a) 1.5 ft. for ductile iron pipes.
   b) 4 ft. for cast-iron pipes. If within 4 ft., settlement monitoring is required for both LPW and AWSS lines. Settlement monitoring of LPW lines shall

be the same as for AWSS lines unless approved otherwise by CDD Engineering.

6) Main disconnection/reconnection for PW and RW shall be performed by SFPUC CDD. Pipe laying and valve replacement shall be performed by the Contractor. Excavation, backfilling, paving, traffic control, permitting, and any other support work necessary for the PW and RW replacement work including work to be performed by SFPUC CDD shall be the Contractor's responsibility. All AWSS replacement work shall be performed by Contractor or subcontractor qualified by CDD to perform AWSS main installation. All replacement valves and piping for CDD replacement is supplied by CDD.

7) Submit details and calculations for structural support for the protection of exposed and/or undermined sections of SFPUC CDD facilities if required per this specification. Details and calculations shall be signed and stamped by a California licensed Civil or Structural Engineer. Structural supports shall be designed to protect (1) AWSS pipes constructed with Class H cast iron lead jointed pipe operating at 350 psi static pressure, (2) AWSS pipes constructed with Class 56 ductile iron pipe, (3) PW pipes constructed with Class B cast iron lead jointed pipe operating at 150 psi static pressure, and (4) PW or RW pipes constructed with Class 53 ductile iron pipe operating at 150 psi static pressure. Maximum deflection in pipe support members shall not exceed L/500, where L is the unsupported length of the member.

B. Restoration of Facilities

If project work exposes CDD facilities, the Contractor is required to

1) backfill and compact in compliance with the latest San Francisco Department of Public Works (SFDPW) Street Excavation Regulations; and

2) perform soil compaction testing for backfill material placed within three (3) feet, horizontally or vertically, from the outside edge of a water facility, with all test results furnished to CDD Engineering.

For excavations that expose more than four (4) feet of CDD facilities or pipe joint (4-inch and smaller pipes are excluded), backfill is required to be constructed with control density fill (CDF) material.

CDF material shall begin at (3) feet below the CDD facility and continue up to the bottom of the CDD facility. CDF material shall not extend beyond the spring-line of any CDD facility. Width of CDF backfill shall be OD of CDD pipe + 1ft on each side. Compaction test must be performed on the backfill material below the CDD facility immediately before CDF placement.

3.2 INSTALLATION OF AWSS SETTLEMENT REFERENCE AND MONITORING POINTS AND SUPPORT OF PIPE

A. Installation

The SRPs and SMPs shall be installed prior to the start of construction work requiring excavation around AWSS pipe.

For SRPs at fire hydrants, the contractor shall select the top center of fire hydrant. The contractor must ensure that the exact same point is used to establish survey control prior to monitoring of SMPs and additional SRPs.

For installation of SMPs outside of trench/excavations, the Contractor shall expose the bell of the pipe so that the position of the guide pipe on the bell can be visually verified before backfilling. The installation method used shall not cause the guide pipe to move from its intended position.

For installation of SMPs inside of trench/excavations, the Contractor shall verify the leveling rod is positioned on top of the pipe by verifying the pipe crown with a level vial and marking the exact location on the pipe to ensure consistent monitoring of the same point.

The correct positioning of each SRP and SMP on the top of the pipe bell shall be verified and approved by a CDD Representative by visual inspection. To request an inspection by a CDD Representative, please contact CDD Engineering a minimum of five (5) business days in advance to schedule the inspection.

It is the responsibility of the Contractor to maintain all SRP and SMP installations in working order at all times.

The Contractor shall contact CDD Engineering to perform a "drop test" before installation of SMPs or SRPs to determine the ability of the pipe to maintain pressure. The CDD Representative will isolate the AWSS line during the installation of SMPs and SRPs and reactivate the line after the construction of the SMPs and SRPs is completed by the Contractor. To request a drop test by a CDD Representative, please contact CDD Engineering a minimum of five (5) business days in advance to schedule the test.

B. Removal

The SMPs and SRPs shall be removed by the Contractor, including pipe guides, monitoring well frames and covers and the roadway restored to its original condition(s).

C. Survey of Settlement Reference and Monitoring Points

1) The Contractor shall obtain elevations of all SMPs and SRPs, by a State of California licensed Land Surveyor.

2) Initial Survey: Record the elevations within an accuracy of 0.005 feet (1/16-inch) for each settlement monitoring point on all surveys. After completion of each instrument installation, take 3 sets of verification data readings for each instrument to demonstrate the adequacy of the installation, to demonstrate the proper operation and precision of the instrument, and to establish an initial value. Differential Leveling and Total station accuracy shall comply with the accuracy standard specified in Caltrans Second Order Differential Leveling Specifications and Second Order (Vertical) TSSS Survey Specifications respectively. If differential leveling survey method is used, a collimation (Two-Peg) test shall be performed to ensure accuracy

within 0.003 feet prior to each survey run. Submit the initial readings to the City Representative.

3) Monitoring Schedule: Take readings of all SMPs and SRPs prior to the start of construction, once after the construction work is completed, and a final time two weeks after all construction work is completed on the city block. Intermediate monitoring frequency during construction shall as a minimum comply with the following:

Monitoring Frequency During Sheet Pile Driving	Monitoring Frequency During Excavation or Backfill	Monitoring Frequency in or Around Open Trench	Monitoring Frequency Away from Open Trench
Daily[1]	Daily[2]	3 Days[3]	Once[4]

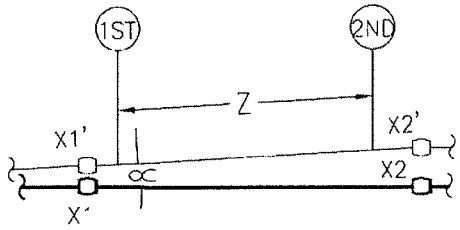
Notes:
1 For SMP's within 25 ft. of pile driving, monitor daily if pile installation using vibratory hammer and every four hours if pile installation using impact hammer.
2 Daily for SMPs within 25 ft. of a trench section being actively excavated or backfilled.
3 Once every three days for SMPs within 25 ft. of an open trench after excavation is completed and utilities are being installed.
4 Once after trench within 25 ft of SMP is completely backfilled unless directed otherwise by the City Representative.

4) Elevation readings from SMPs and SRPs are to be tabulated in chronological order with all previous results and sent to CDD Engineering within 24 hours of the survey being performed. Measurements shall be provided in "feet". Provide a plot of measured values versus time, including a time history of construction activity likely to influence such readings.

D. Response Values and Required Actions

1) The Maximum Allowable Settlement shall not result in any joint deflecting more than 1/4 degrees, where the deflection angle is calculated using this equation:

$$\alpha = \tan^{-1} \frac{(X1 - X1') - (X2 - X2')}{Z}$$



α = DEFLECTION ANGLE IN DEGREES
x_1 = INITIAL READING OF 1ST SMP
x_1' = CURRENT READING OF 1ST SMP
x_2 = INITIAL READING OF 2ND SMP
x_2' = CURRENT READING OF 2ND SMP
z = DISTANCE BETWEEN SMPs

2) The response values are measured as a percentage of the Maximum Allowable Settlement. The Contractor shall abide by the following Response Values.

Threshold Value	Contractor Response Value	Shutdown Value
50%	80%	100%

3) When a given response value is reached, the Contractor shall provide written notice within the specified time and respond in accordance with the following:

a) Threshold Value: The Contractor shall provide written notice within 24 hours of occurrence and meet with the City Representative within 24 hours of providing notice to discuss his means and method to determine what corrective actions, if any, shall be made to better control ground movement. Instrument readings shall be required on a daily basis, unless instructed otherwise, until five consecutive working days of readings do not worsen the settlement by more than 5% of the Maximum Allowable.

b) Contractor Response Value: The Contractor shall provide written notice and meet with the City Representative within 24 hours to discuss his means and method to determine what corrective actions shall be made to better control ground movement. The Contractor shall actively control ground movement in accordance with the corrective actions to prevent reaching the Shutdown Value:

c) Shutdown Value: Contractor shall stop all work immediately and provide written notice within one hour upon occurrence. The Contractor shall meet with the City Representative to develop a plan of action before the work can be resumed. A drop-test will be performed by CDD prior to continuation of work. If shutdown value is reached from surveys after completion of construction, a drop-test will be performed by CDD to determine if any repairs are required.

E. Arrangement with Utility Companies

The Contractor shall make all necessary arrangements with the public service utility companies and obtain all necessary permits for any work or alteration of facilities as may be required due to the above described work.

F. Street and Sidewalk Restoration

Sidewalk and pavement restoration shall include the replacement of traffic lane(s) and crosswalk stripes, parking stall markings, and curb painting that might be obliterated during the installation/removal of the SRPs and SMPs construction.

3.3 EXPOSE, TEST, AND REPAIR OF AWSS FACILITIES

A. Requirement of Repair Work

Should readings from any two sets of surveys indicate a change in deflection at or exceeding the Shut Down Value, the Contractor shall stop all construction work in the vicinity of the AWSS facilities until the AWSS facilities have been inspected, repaired, if necessary, and the CDD Representative authorizes the Contractor to resume construction work.

If the CDD Representative determines that repairs are required, the Contractor will be responsible for preparing and restoring the site(s) for repairing the damaged joint(s). Repair of damaged joint(s) shall be done by CDD at Contractor's expense.

Site preparation and restoration will include

1) Contractor shall submit for review and approval by CDD Engineering, structural plans and details for the support and protection of AWSS facilities in the vicinity during repair of the damaged joint;

2) Contractor shall support and protect AWSS facilities per approved submittal(s);

3) Contractor shall excavate a trench as required by CDD Engineering to expose the damaged AWSS pipe joint for repair purposes;

4) Upon direction and approval from a CDD Representative, Contractor shall remove support and protection devices, and restore facilities as described in this Section; and

5) CDD Representative shall inspect and approve all site preparation and restoration for AWSS joint repair work.

B. Contractor Responsible for all Costs

Exposure and restoration, testing, replacement, and repair of existing AWSS facilities as described in this Section including furnishing of materials, labor, equipment including pump and tools necessary, or required, to do such work shall be at the expense of the Contractor.

The Contractor shall be responsible for all CDD labor and material costs associated with repairing the damaged AWSS facilities.

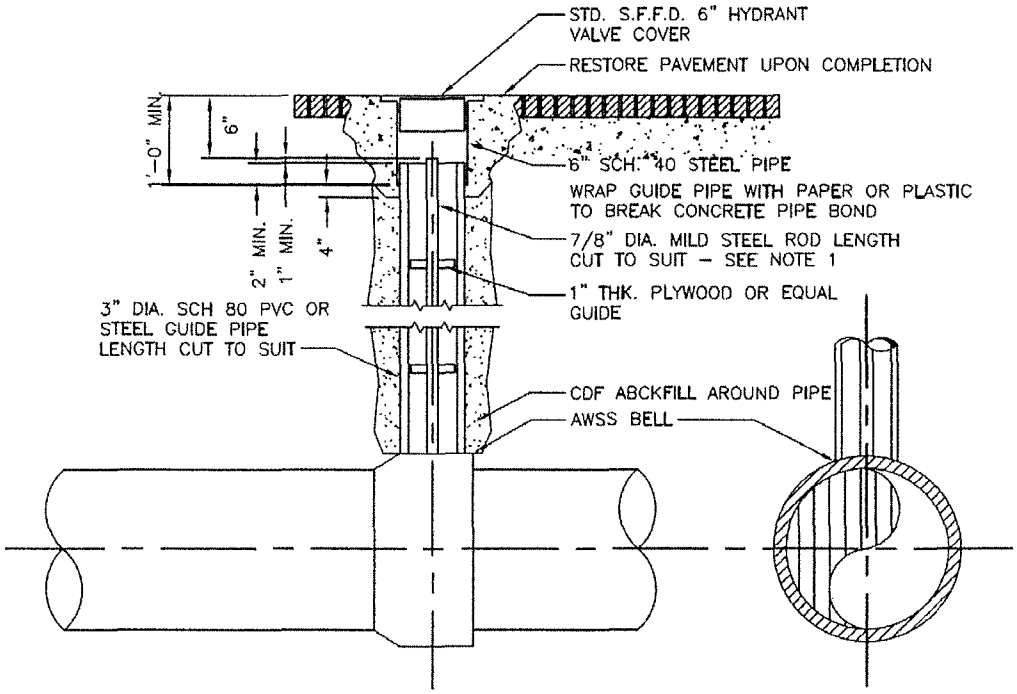
C. Testing

The Contractor is hereby notified that change in deflection of an AWSS pipe joint in exceedance of the shut-down value may require individual joint repairs or replacement of all the pipes between two adjacent SRPs (on each side of the surveyed joint) at CDD's discretion. The pipe repairs/replacement shall require CDD to isolate the pipe by closing gate valve(s), testing the replaced pipe section at a pressure of 300 psi (or other pressure designed by the CDD Engineer), repair any joints showing leakage or lead extrusions, and reactivating the pipe.

A CDD Representative will witness all pressure tests. The Contractor shall inform CDD Engineering a minimum of five (5) business days before all tests.

NOTES:

1. THE CONTRACTOR SHALL REPORT THE LENGTH OF THE ROD TO THE NEAREST HUNDREDTH OF A FOOT TO THE CITY.
2. PLYWOOD SHALL BE PRESS FIT TO THE 7/8"ø STEEL ROD AND SHALL FLOAT IN THE GUIDE PIPE.
3. MONITORING HOLE COVER AND FRAME ASSEMBLIES SHALL BE RATED FOR H-20 LOADING.
4. CONTRACTOR SHALL RESTORE ROADWAY TO MATCH EXISTING UPON COMPLETION OF SURVEY WORK.



CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
SAN FRANCISCO WATER DEPARTMENT

AUXILIARY WATER SUPPLY SYSTEM - STANDARD DETAILS

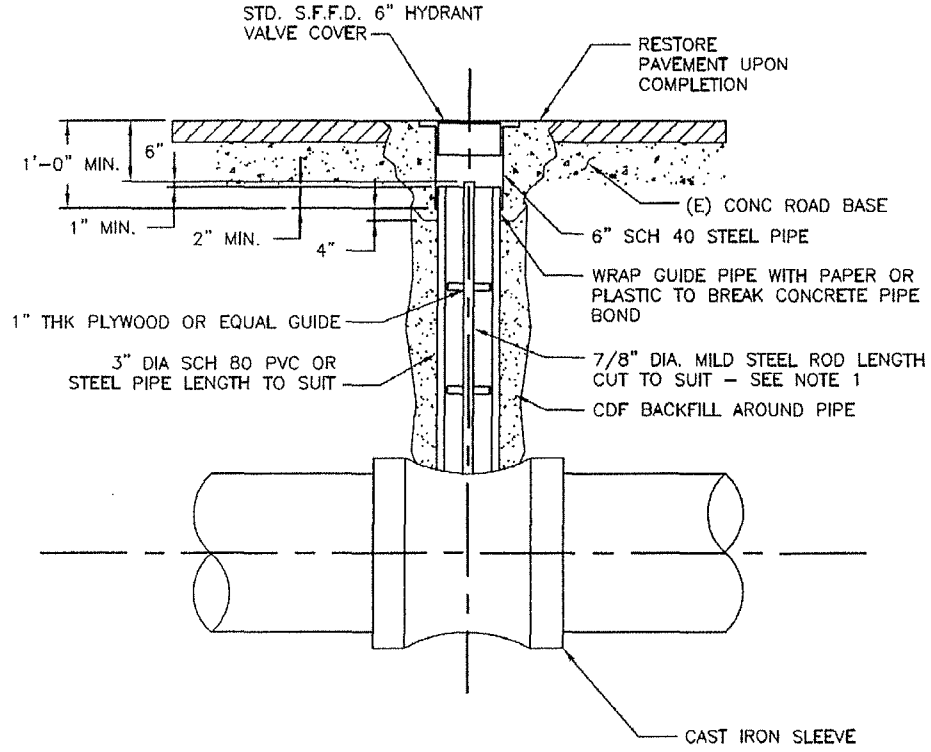
AWSS SETTLEMENT MONITORING POINT FOR BELL AND SPIGOT PIPE

	BY: DOUG LEE	DR: GLORIA CHU	DRAWING NO.
APPROVED: SAM YOUNG	CH: THANH NGUYEN	SCALE: NONE	HPL-5993
CDD MANAGER: KATIE MILLER	DATE: 08/2015	VERSION:	

EXHIBIT "A"

NOTES:

1. THE CONTRACTOR SHALL REPORT THE LENGTH OF THE ROD TO THE NEAREST HUNDREDTH OF A FOOT TO THE CITY.
2. PLYWOOD SHALL BE A PRESS FIT TO THE 7/8"ø STEEL ROD AND SHALL FLOAT IN THE GUIDE PIPE.
3. MONITORING HOLE COVER AND FRAME ASSEMBLIES SHALL BE RATED FOR H-20 LOADING.
4. CONTRACTOR SHALL RESTORE ROADWAY TO MATCH EXISTING UPON COMPLETION OF SURVEY WORK.



CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
SAN FRANCISCO WATER DEPARTMENT

AUXILIARY WATER SUPPLY SYSTEM -- STANDARD DETAILS

AWSS SETTLEMENT MONITORING POINT FOR DOUBLE SPIGOT PIPE

	BY: DOUG LEE	DR: GLORIA CHU	DRAWING NO.
APPROVED: SAM YOUNG	CH: THANH NGUYEN	SCALE: NONE	HPL-5993.1
CDD MANAGER KATIE MILLER	DATE: 08/2015		

EXHIBIT "B"

END OF SECTION

SECTION 33 24 00

GROUNDWATER WELLS

1.01 DESCRIPTION

A. Groundwater well - this term is inclusive of an artesian well, dewatering well, exploratory well, extraction well, geotechnical well, monitoring well, horizontal remediation well, piezometer, production well, recharge well, water table well, water well, water supply well, water observation well, well, or wick drain.

B. In the event that a groundwater well is encountered in the alignment, the Contractor shall be responsible for its preservation or removal/destruction (if destruction is called for).

C. If such a well was not installed by the Contractor as part of its work under this Contract, but is identified in the contracts plans and specifications to be removed/destroyed, then such work will be considered as Incidental Work to Mobilization (Bid Item SW-26).

D. If such a well was installed by the Contractor as part of its initial work under this Contract, and has to be destroyed at the end of the work, then such the removal/destruction of the well shall be paid for by the Contractor.

E. If such a well was not installed by the Contractor as part of its work under this Contract, and it was encountered as a differing site condition then the removed/destruction of the well (if destruction is called for) will be considered as change order work and paid through the Allowance for Unforeseen Environmental Work (Bid Item SW-31).

1.02 DAMAGE TO GROUNDWATER WELLS

A. Should the groundwater well be left intact, it is critical that the well seal and well head not be damaged. The purpose of the well seal consisting of a bentonite seal and a cement grout seal is to isolate the filter pack around the slotted well casing from the surface. Consequently, any physical movement of the well casing or sufficient removal of adjacent supporting material can damage the seal. A damaged seal would result in the necessary destruction of the well to limit surface access to the underlying ground water.

B. Should the Contractor damage or displace any groundwater well, the Contractor shall immediately suspend the work in the immediate area, and notify the Resident Engineer. In such a case, the Contractor (at no cost to the City) shall be responsible for its removal and destruction, and replacement according to the procedures of this specification.

1.03 DESTRUCTION, REPLACEMENT, INSTALLATION/CONSTRUCTION OR DECOMMISSIONING OF GROUNDWATER WELLS

A. For the removal/destruction, or replacement, or installation/construction or decommissioning of a groundwater well, or to operate a groundwater well the Contractor shall follow the procedures of:
   1. The California State Department of Water Resources Bulletin 74 Water Well Standards (74-81 and 74-90).

      http://www.water.ca.gov/pubs/groundwater/water_well_standards__bulletin_74-90_/ca_well_standards_bulletin74-90_1991.pdf
   2. The San Francisco Department of Public Health (DPH), Environmental Health Services, Water Quality Unit (DPH EHS).

B. To install/construct, destroy, replace, decommission or operate a groundwater wells and drill a soil borings, the Contractor shall complete and submit a permit application to the San Francisco Department of Public Health (DPH). The Contractor shall pay for all fees (including but not limited to the application, preparation of the work plan, and filing fee, as well as any DPH consulting, oversight, inspection hourly rates and deposit fees), at least fifteen (15) working days in advance of the well destruction. The application and work plan shall be submitted to the:

City and County of San Francisco
Department of Public Health (SFDPH)
Environmental Health Services
Water Quality Program-Monitoring Wells Section
1390 Market Street, Suite 210
San Francisco, CA 94102
(415) 252-3954

https://www.sfdph.org/dph/EH/Wells/default.asp

C. For the destruction, decommissioning, replacement, or installation/construction of a groundwater well, the Contractor (or its specialty subcontractor) shall possess a State of California C-57 (Well Drilling) license.

1.04 GROUNDWATER WELL REPORT

A. Within thirty (30) calendar days of completion of the destruction, or replacement, or installation/construction of a groundwater well, the Contractor shall submit three (3) copies of a draft report documenting the destruction or replacement of the well, for the review by the Resident Engineer and SFDPH. After which, the Contractor shall submit three (3) copies of a final report, three (3) electronic copies on CD's. The report shall be prepared by a State - Certified Engineering Geologist (CEG) or a State-Registered Civil Engineer (RCE). The report shall include but not be limited to the following:

1. permit application
2. well location
3. method of destruction or construction
4. total well depth
5. well diameter (hole diameter if over drilled)
6. depth to water
7. grout composition
8. volume of grout used
9. depth to casing separation and length removed
10. surface restoration
11. photographs
12. the California Department of Water Resources (DWR), Well Drillers Report, Form 188
13. disposal records

END OF SECTION

SECTION 33 33 00

SANITARY SEWERAGE UTILITIES

PART 1 - GENERAL

1.01 DESCRIPTION

A. The work specified in this Section shall include:

1. Constructing 12-inch, 15-inch, 18-inch and 21-inch diameter bell and spigot type extra strength vitrified clay pipe (VCP) on crushed rock bedding wrapped in geotextile fabric.
2. Construction of cast-in-place or precast concrete manholes.
3. Constructing 6-inch or 8-inch diameter side sewer connections and 10-inch diameter VCP culverts.
4. Construction of 10-inch diameter VCP culvert.
5. Televising existing side sewers and culverts, and locating and televising unknown connections in the field to verify whether connections are active.
6. Repair or replacement of existing active damaged side sewers and/or culverts.
7. Connection of 6 or 8-inch diameter side sewers and 10-inch diameter culverts.
8. Handling, transportation and disposal of hazardous excavated materials and contaminated soils including all incidental work, if necessary.
9. Plugging and filling, abandoning, and removing existing sewer facilities and sewer structures where indicated on contract plans.
10. Post construction television inspection of newly constructed or rehabilitated main sewers, side sewers, and culverts.
11. Connections to and between sewers, structures and culverts.
12. Furnishing and installing cast iron water traps for existing catch basins, including cleanout caps within the contract limits.
13. Furnishing and installing detectable warning tape for trench restoration after backfilling and prior to pavement restoration per detail on Contract drawings.
14. Temporary restoration of pavement inside sewer trench as necessary per excavation code.
15. Reconstructing pavement inside the sewer T-trench limit with concrete base per detail on Contract drawings.
16. Restoring pavement per excavation regulations.
17. Furnish and install all trench excavation, shoring and bracing conforming to applicable safety orders as specified; and de-water as necessary.
18. Performing necessary work due to unforeseen conditions related to sewer work and drainage work.
19. Supporting SFWD facilities within the sewer trench.
20. Bypassing main sewer flow and diversion of side sewer and culvert flow during construction.
21. At conclusion of work, cleaning existing catch basins located within contract limits.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Other contract documents, including Drawings, Relevant Sections of the SFDPW Standard Specifications and these Specifications apply to the work specified herein.

B. Division 1, General Requirements.

C. Section 01 55 26 – Traffic Control

D. Section 31 23 33 – Trenching and Backfilling

E. Section 31 23 34 – Pavement Cutting and Excavation

F. Section 32 12 16 – Asphalt Paving

G. Section 33 11 28 – Protection of Existing Water and AWSS Facilities

H. Section 33 01 30.63 – Sewerage System Mortar Rehabilitation

1.03 REFERENCES

A. Department of Public Works Standard Specifications, November 2000.

B. ANSI/ASTM C12 - Practice for Installing VCP Lines.

C. ANSI/ASTM C-425 - Compression joints for VCP and fittings.

D. San Francisco Plumbing Code & California Plumbing Code

E. San Francisco Public Works Code

F. ASTM D1348, D2657, D3350 - Joints for HDPE and Fittings.

1.04 SUBMITTALS

The Contractor shall provide six (6) copies of the following:

A. Certified report of the actual test results for VCP Extra Strength pipes meeting the requirements of ASTM C700 for approval by City Representative in accordance with the requirements of Section 305.05 of the SFDPW Standard Specifications.

B. Certified report of the actual test results for precast components of concrete manholes meeting the requirements of ASTM C-478 for approval by City Representative in accordance with the requirements of Section 310 of the SFDPW Standard Specifications.

C. Certified report for manhole frame and cover meeting the requirements of ASTM A-48 for approval by City Representative.

D. Certified report for catch basin frame and grating meeting the requirements of ASTM A-48 for approval by City Representative.

E. Certified report for cast-iron water trap for catch basin including cleanout cap meeting the requirements of ASTM A-48 for approval by City Representative.

F. Side sewer connection detail

G. Mechanical shear band repair coupling for pipe to pipe connections on main line sewers.

H. Certified report of the actual test results for HDPE pipe meeting the ASTM Standard D-3350 specification.

I. Detectable warning tape for sewer trench.

PART 2 - PRODUCTS

2.01 MATERIALS

A. VCP extra strength pipes used in this contract shall be in accordance with the applicable requirements of Sections 305 and 306 of the SFDPW Standard Specifications.

B. VCP main sewers and fittings for pipe diameter 12-inch and larger shall be of bell and spigot type unless directed by City Representative.

C. Manholes shall be constructed of precast Concrete Sections in accordance with ASTM, Designation C478 or cast in place in accordance with the applicable requirements of Section 303 of the SFDPW Standard Specifications and in accordance with SFDPW Standard Drawings 87,181, 87,182, and 87,184. Manhole frame and cover shall be in accordance with SFDPW Standard Drawing 87,190.

D. Geotextile fabric shall be AASHTO M288, Class 2, Non-Woven.

E. Cast-iron water trap for catch basin shall be in accordance with SFDPW Standard Drawing 87,194 meeting the requirements of ASTM A-48. Cleanout cap for cast iron water trap shall be "T" cone expandable cleanout plug S-802 of ETCO Specialty Products, Inc. from Groeniger and Co. or approved equivalent.

F. Catch basin shall be constructed of Class 6-3500-1½ concrete precast sections in accordance with the applicable requirements of Section 304 or cast in place in accordance with the applicable requirements of Section 303. Concrete catch basin shall be constructed without curb inlet and in accordance with SFDPW Standard Drawing 87,188.

G. HDPE pipes shall conform to ASTM Standard D-3350 and shall have nominal diameter as shown on SW-Drawings.

H. Side Sewer connection shall be Tap-Tite Fitting manufactured by Tap-Tite Co., Tap-N-Tee Sewer Connector manufactured by Flex Connection Inc. dba Joints, Twistee Sewer Saddle manufactured by Mission Rubber Co. or approved equal.

I. Detectable warning tape shall be 6-inch wide 5-MIL thick green metallic warning tape with words "CAUTION: BURIED SEWER".

J. Mortar Material shall conform to Specifications Section 33 01 30.63.

K. Slurry grout for plugging and abandoning existing sewers shall be a slurry mixture containing a minimum of 2 sacks of Type II cement per cubic yard mixture, and in accordance to Section 302 of the SFDPW Standard Specifications.

L. Hydraulic Cement shall be premixed Portland cement based hydraulic cement consisting of Portland cement, graded silica aggregates, special plasticizing and accelerating agents. It shall not contain chlorides, gypsum, plasters, iron particles or gas forming agents, or promote the corrosion of steel it may come in contact with. It

shall be formulated at the factory and supplied in factory sealed and labeled pre-measured containers, which shall contain the complete quantity of materials required for this work. Invert patch compound shall be sued to fill minor voids and cracks, to bring substrates up to profile, to provide watertight seals at invert, lateral line and house connections. The fast setting hydraulic cement patch is designed to be troweled or knead applied and capable of providing a watertight seal when cured and shall conform to the following specifications:

Property	ASTM Test	Result
Set Time	ASTM C-191-92	3 – 5 min
Compressive Strength	ASTM C-109-91	
1 Hour		700 psi
1 Day		2,000 psi
28 Days		5,500 psi

PART 3 - EXECUTION

3.01 EXAMINATION

A. The Contractor shall verify that trench is ready to receive work and excavations, dimensions and elevations are as indicated on drawings.

3.02 PREPARATION

A. The Contractor shall clean existing sewers with high velocity hydro cleaning equipment before excavation work.

All high-velocity sewer cleaning equipment shall be truck-mounted for ease of operation. The equipment shall have a minimum of 500 feet of one inch ID high pressure hose with a selection of cleaning nozzles.

The equipment shall have a minimum working pressure of 1,000 pounds per square inch. The nozzles shall be capable of producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned.

All sludge and dirt shall be flushed downstream within the sewer system and shall not cause line stoppage due to heavy accumulation. Sludge, dirt, sand, or other solids shall not be removed from the sewer system unless directed by the City Representative. In order to prevent heavy accumulation, the Contractor may need to flush the downstream sewer segments up to maximum of two downstream blocks and/or as directed by the City Representative.

B. The Contractor shall hand trim excavations to required elevations. Correct over-excavation with crushed rock.

C. The Contractor shall remove large stones or other hard matter which could damage piping or impede consistent backfilling or compaction.

3.03 BEDDING

A. Bedding shall be crushed rock as specified in Section 31 23 33 of these Specifications and shown in the SW-drawings.

B. Bedding material shall be placed as shown on the contract drawings. Care should be taken to completely fill all spaces under the haunches.

3.04 MANHOLES

A. Manholes shall be constructed in accordance with SFDPW Standard Drawings 87,181, 87,182 & 87,185 at the locations shown on the Contract Drawings.

B. Construction of manholes shall be in accordance with Section 310 of the SFDPW Standard Specifications. Manholes elected by Contractor to be cast-in-place shall be constructed in accordance with the applicable requirements of Section 303 of the SFDPW Standard Specifications.

C. Concrete base of new manholes shall have reinforcing steel, be allowed to set overnight at the minimum time, and shall not be subjected to any load on the same day the concrete base was poured. No. 4 steel reinforcement is required in concrete base for Standard Drawing 87,181.

D. All new or salvaged manhole frames and covers to be used on new manholes shall be in accordance with the SFDPW Standard Drawing 87,190 or as directed by the City Representative.

E. Maximum distance between the pavement and top of the manhole cone shall be 15" or as directed by the City Representative otherwise.

F. Side sewer connections to the manhole shall not be more than 12" higher than the manhole invert.

3.05 INSTALLATION OF MAIN SEWER

A. The Contractor shall have available at all times either (1) a transit and rod or (2) a sewer laser beam instrument suitable for transferring elevations from established points to the sewer work and drainage work. The spirit level, taut string, and/or straight edge will not be acceptable for sewer construction work.

B. HDPE main sewer shall be installed in accordance with the requirements of Section 322 of the SFDPW Standard Specifications.

C. VCP main sewer shall be installed in accordance with the requirements of Section 305.07 of the SFDPW Standard Specifications.

D. Lay pipe to slope gradients noted on the contract drawings, unless conform elevation conflicts with slope, in which case, conformance to existing elevation takes precedence

E. The Contractor shall not use soil mounds or any blocking to bring the pipe to grade. Contractor shall not apply pressure to the top of the pipe, such as with a backhoe bucket, to push the pipe down to grade.

F. Refer to Section 31 23 33 for trenching, backfill, bedding and compaction requirements.

G. The Contractor shall furnish and install detectable warning tape as indicated in detail on SW-Drawing.

3.07 SIDE SEWER AND CULVERT T.V. INSPECTION AND ABANDONING INACTIVE SIDE SEWERS AND CULVERTS

A. General

All existing active side sewers and culverts and newly constructed side sewers interiors shall be inspected by television in the MPEG format on DVD media, to evaluate their structural condition and to evaluate the Contractor's quality of workmanship after constructing a new sewer facility. These side sewers shall be televised either from the side sewer air vent or inside open trench. As directed by the City Representative, Contractor may be asked to televise side sewers and culverts located outside the limits mentioned but within paving contract limit.

The Contractor shall record the locations and the extent of pipe defects as to leakage, bad and offset joints, constricted inside diameter, sagging lines, obstruction due to roots intrusion, broken, cracked, and collapsed pipe of each active side sewer by video picture and voice recording. The number and locations of existing active side sewers and culverts as indicated on the sewer plan and to be televised are approximate only, and may be increased, decreased or deleted as directed by the City Representative. The Contractor shall provide and furnish the City with a copy of the "T.V. Inspection Log and DVD" to Construction Manager, 30 Van Ness Avenue, 5th Floor, San Francisco, CA 94103 through the City Representative.

DVD submitted by the Contractor should have a typed label on the front of the DVD providing the following information:

1. Contract ID Number (#)
2. Street Names with Limits
3. Side Sewer TV Inspection
4. Contract Title
5. Date

B. The Contractor shall perform the following for all side sewers and culverts:

1. Confirm connection points of active side sewers by dye-testing at sidewalk vents.
2. Investigate, locate, and confirm active side sewers not identified by sidewalk vents by dye-testing at building fixtures and/or rodding.
   a. Side sewers rodded to show lengths short of one (1) foot behind the curb shall be considered as inactive. The Contractor shall abandon these side sewers by excavating at their end points and plugging as shown on SFDPW Standard Plan 87,198.
   b. Side sewers rodded to show lengths beyond one (1) foot behind the curb are to be assumed as active and shall be connected to the new sewer.
3. Prior to connecting existing side sewer to the new main, televise side sewer with a mini-camera from the connections at the main sewer to the vent location on the sidewalk. If there is no vent or sidewalk, terminate side sewer television inspection at the property line.
4. Television inspection of side sewers shall be performed by personnel who are trained to identify cracks and other defects in side sewer. The video equipment used to perform side sewer inspection must provide clear and well focused pictures and identify street address of property and be able to give accurate measurement of locations where defects are identified. If Contractor encounters debris inside active side sewers, Contractor shall flush all debris out prior to televising in order to ensure a clear and complete television

recording.

5. Record locations of active side sewers and their conditions in the form of a log.
6. Televising of newly constructed side sewer laterals shall be preformed from the farthest practicable upstream location thru the connection to the main sewer line. In no case may the television inspection exclude more than 10% of the pipe length; and as such, this exclusion will only be allowed from the uppermost portion of the run. Side sewer TV must be preformed prior to substantial completion.
7. Contractor shall furnish a copy of the side sewer and culvert DVD(s) and log(s), at the same time as the post construction main sewer DVD(s) are furnished, to the City Representative. If side sewer TV inspection DVD(s) and log(s) are not furnished, the respective progress payment will be withheld.

3.08 SIDE SEWER CONNECTION

A. The sewer plan indicates side sewer connections at all side sewer vent locations or at least one lateral for each property. The number and locations of these connections are approximate only.

B. The Contractor shall confirm that each property has been provided with a satisfactory connection for all its side sewers per Section 316.06 of the SFDPW Standard Specifications.

C. This item includes any necessary side sewer extensions to make the proper connection.

3.09 REPAIR OR REPLACEMENT OF 6 OR 8-INCH DIAMETER SIDE SEWER AND CULVERT

A. The Contractor is responsible to coordinate and make TV inspection DVD available to the City Representative for review as soon as possible after TV inspection has been performed, and obtain Resident Engineer's approval prior to reconnecting the side sewer to the main.

B. The City Representative shall review the television inspection of the each side sewer/culvert, and evaluate its structural condition.

If existing side sewer or culvert has defects stated in section "T.V. INSPECTION OF EXISTING SIDE SEWERS/CULVERTS AND ABANDONING INACTIVE SIDE SEWER", then side sewer or culvert shall be repaired or replaced as necessary by the Contractor with the City Representative's approval.

All locations, invert elevations and slopes of side sewers shall be conformed unless otherwise directed by the City Representative.

3.10 PRE- AND POST-CONSTRUCTION MAIN SEWER VIDEO

A. CCTV-General

Existing main sewer and newly constructed main sewer interiors shall be inspected by television in MPEG format on DVD media to detect active connections prior to plugging and filling the sewer and to evaluate the Contractor's quality of workmanship after constructing a new sewer facility.

All pipes shall be thoroughly cleaned prior to inspection, and inspections must be conducted in accordance with the latest version of National Association of Sewer

Service Companies (NASSCO) Pipeline Assessment & Certification Program (PACP). **Personnel on the job are required to be trained and PACP certified.**

The Contractor shall record by color video picture and voice recording, the main sewer and locations of the side sewer connections. **The video shall have the project name, limits of the sewer being televised, and the upstream and downstream manhole numbers (the Start_Node and End_Node fields from the pipe's GIS) superimposed on the beginning of each segment.** The camera shall travel through the sewer at a speed of a half of a foot (0.5 feet) per second. A continuous counter in feet measurement shall be superimposed at the bottom of the screen to show the distance from the starting manhole or a reference point to an exit manhole or reference point. The date of the video recording shall be superimposed on the screen and/or audio recording. There shall be sufficient artificial light in the interior of the sewer to produce a clear and well-focused picture.

The DVD shall have a label with the project name, specification number and limits including the date of the television inspection. The Sewer TV Inspection Log shall have the locations measured in feet of the side sewer connections from the commencement point of the camera, a sketch showing the project limits and the direction the camera was pulled through the sewer. The Contractor shall provide and furnish the City with a copy of the "Main Sewer TV Inspection Log and TV DVD" to Construction Manager: 30 Van Ness Avenue, 5th Floor, San Francisco, CA 94103, through the City Representative.

Within one week following the pre-construction meeting, the City Representative will provide the Contractor electronically the following files for performing main sewer inspections:

1. For pre-construction inspection, a shape file of existing sewer lines and nodes for manholes and non-manhole junctions with current asset ID's

2. For post-construction inspection, a shape file of newly constructed sewer lines and nodes with new asset ID's.

3. A shape file of City base map consisting of right-of-way/blocks and streets.

Contractor will:

1. Import sewer line shape file to sewer inspection software such as Pipelogix, POSM, WinCan or others.
2. Select the corresponding pipe record to be inspected by identifying upstream manhole ID from pipe list. Enter the MXASSETNUM field from the pipe's GIS into the NASSCO Pipe_Segment_Reference field, use the Start_node field from the pipe's GIS in the NASSCO Upstream_MH field and the End_Node field from the pipe's GIS for the Downstream_MH field.
3. Begin inspection
4. Pause at defects and features
5. Pause and turn camera view at each lateral connection point
6. Code all observations such as defects, locations of lateral connections, change in pipe alignment, unusual conditions, and other discernible features, as defined in the PACP defect codes
7. End inspection at FINISH manhole or other non-manhole junction (connection to another main sewer or change in pipe size per sewer line shape file).
8. Prepare one video file for each individual inspection from manhole to manhole or node
9. Export observation database to PACP Data exchange format for delivery to

the City.

If a manhole is NOT shown in GIS map, Contractor shall assign a manhole ID number by using the following convention: *Contract ID Number - MH – Number (ex: 10XXXXXXXX-MH-1).* Detail information such as manhole ID, pipe diameter, pipe material, on street, from street and to street must be clearly input in the pipe header form for the pipe.

Database file, DVD & Log:
Contractor shall submit database files, video files in MPEG format on DVDs, and digital inspection logs in PDF format. All inspection data will be standardized per PACP guidelines and later imported into City's comprehensive GIS system for proper identification, evaluation, sharing and management of asset. Therefore, Contractor must submit data in a format compatible to City's current database.

DVD submitted by the Contractor should have a typed label on the front of the DVD providing the following information:

1. Contract ID Number (#)
2. Street Names with Limits
3. Main Sewer Post-Construction TV (or Pre-Construction)
4. Contract Title
5. Date

The Contractor shall submit the post-construction main sewer video DVDs within five (5) calendar days after the completion of the sewer work at each location for review. If post-construction main sewer TV inspection DVDs are not furnished, the respective progress payment will be withheld.

3.11 CORRECTION OF DEFECTS IN SEWER FACILITIES CONSTRUCTED IN THIS CONTRACT

A. The Contractor will provide warranty of three (3) year period, following the date of acceptance of the work, for all the sewer facilities constructed under this contract.

B. The City will inspect the sewer facilities prior to the end of three (3) year post-construction period, following the date of acceptance of the work.

C. Adjacent pipes at each joint are to be concentric. Maximum allowable eccentricity is 1% of pipe I.D. or 3/16-inch, whichever is greater. Greater eccentricity shall be corrected.

D. Any defects shall be corrected by the Contractor at no expense to the City.

3.12 CLEANING EXISTING CATCH BASINS LOCATED WITHIN PROJECT LIMIT

At the conclusion of all the work under this contract, Contractor shall clean all existing catch basins and storm water inlets located within the project limit as specified on the contract drawings. Cleaning shall include but not limited to removal of sediments and other debris in the barrels and cast iron traps. The Contractor shall notify the City Representative at least 24 hours in advance before cleaning the existing catch basins. After cleaning catch basins, the Contractor shall get approval of City Representative for satisfactory work performance.

3.13 CAST IRON WATER TRAP FOR CATCH BASIN

A. After cleaning existing catch basins, the Contractor shall check the condition of existing water trap if one exists. If existing catch basin does not have cast iron water

trap or existing water trap is not in good condition or according to our standards, the Contractor shall furnish and install new cast-iron water trap including cleanout cap per SFDPW Standard Plan 87,194.

If existing water trap is in good condition but does not have a specified cleanout cap, the Contractor shall furnish and install cleanout cap including all incidental work at no cost to City. All work shall be done as directed by City Representative.

3.14 CATCH BASIN

A. Catch basin shall be constructed in accordance with SFDPW Standard Drawing 87,188 at the location shown on the Contract Drawing and in accordance with Section 312 of the SFDPW Standard Specifications.

B. Rim Elevations of the Catch basins shall conform to the Curb Ramp Drawings. Remove existing storm water inlets and construct catch basins and restore curb, gutter and sidewalk where applicable.

C. Catch basin frame and grating shall be in accordance with the SFDPW Standard Drawing 87,193.

D. New catch basins shall include cast iron water trap with cleanout cap.

3.15 INSTALLATION OF VCP CULVERTS

A. VCP culverts shall be installed in accordance with the requirements of Section 306.06 of the SFDPW Standard Specifications.

3.16 RECORD DRAWINGS

A. Prior to acceptance of the work for warranty, the Contractor shall furnish the City Representative one (1) neatly and legibly marked, in red pencil, set of full size record drawings showing all changes in the Contract Plans as specified in Section 01 77 00. Changes shall include, but not be limited to the field changes or adjustments in the final location or dimensions of the contract work; changes due to requests for information, changes due to change orders and changes to reflect the actual existing conditions. Marking of the drawings shall be accurate and current, and be done at the time work is performed. These drawings shall be presented monthly to the City Representative for review.

B. Each completed Record Drawing shall be signed by the Contractor and Construction Manager to indicate he has reviewed the drawings for completeness. Each completed Record Drawing shall be transmitted to the Project Engineer through the City Representative as soon as the work on that drawing is completed.

C. If record drawings are not furnished, the final payment will be withheld.

3.17 HANDLING AND DISPOSAL OF SEEPAGE, STORM WATER AND SEWAGE

A. The Contractor shall protect the work from water damage, shall keep excavations dry, shall dispose of water from all sources, shall do all necessary pumping, and shall install suitable conduits to remove and divert all sanitary, ground water, tidewater, storm water flow and unforeseen sub-drain, so as to prevent back-up, by-passing to

the Bay, flooding damage to property, and damage to City's Right Of Way in accordance with the requirements of Sections 301 and 700.08 of SFDPW Standard Specifications and the requirements as set forth in this Section.

B. The Contractor shall not impede or obstruct any wet weather flow anywhere in the sewer system. Backing up of flow is not allowed. The Contractor shall be cautioned that a sudden storm can cause heavy flow in the sewer system that could reach ground level. The bypassing sewer flow system shall be adequate to handle a 5-year storm routinely and heavy flow that could reach ground level during the period of construction.

C. The Contractor is hereby informed that the work inside existing sewers or sewer trench involves contact with raw sewage, sludge, grease and hydrogen sulfide may be present. The Contractor shall provide all safety equipment including gas-monitoring devices to detect the presence of toxic gases. OSHA health and safety requirements shall be strictly enforced.

D. The Contractor shall take adequate measures to prevent the impairment of the operation of the sewer system. The Contractor shall prevent construction material, pavement, concrete, earth, paints, thinners, solvents or other debris or toxic material from entering a sewer or sewer structure including surface flow collection system, like catch basin and culvert.

E. Contractor shall provide for the transfer and dispose of sanitary and storm flow around the section or sections of pipe that are to be installed. The bypass shall be made for diversion of the flow at an existing upstream access point and gravity or pumping the flow into a downstream access point of adjacent system. The pump and bypass lines shall be of adequate capacity and size to handle the flow. The flow height shall not exceed one foot above the crown of any active sewer pipe access point.

F. The bypass pumping should be scheduled for 24-hour continuous duty from the start of the operation with backup equipment available for periods of maintenance and refueling. The Contractor shall obtain a night noise permit for any work between the hours of 8:00 PM and 7:00 AM, as specified in Section 2908 of the Police Code.

3.18 DRAINAGE MAINTENANCE

A. The Contractor shall be responsible for maintaining and keeping in operation all storm water inlets and catch basins throughout the entire project site, both inside and outside the phased construction work are, for the duration of the project, including the performance of the punch list until final acceptance of the project.

B. The Contractor shall check and remove all debris from the storm water inlets and catch basins prior to the rainy season and clear any clogged inlets and catch basins during the rainy season.

C. Prior to the final inspection and acceptance, the Contractor will check the storm water inlets and catch basins for debris and remove debris, if any.

3.19 CONTRACTOR SHALL NOT ALLOW DEBRIS TO ENTER SEWAGE SYSTEM

A. The Contractor shall take adequate measures to prevent the impairment of the operation of the sewer system. He/she shall prevent construction material, pavement, concrete, earth, or other debris from entering a sewer, sewer structure, catch basin or storm water inlet.

3.20 REMOVAL OF EXISTING CONCRETE SLURRY

A. The Contractor shall notify the City Representative immediately upon discovering concrete slurry within the sewer trench. The City Representative will arrange appropriate authority to witness the slurry material.

B. The Contractor shall remove existing concrete slurry when encountered within the trench width limit, including all incidental work.

C. Concrete slurry removal from the trench shall be disposed off as Contractor's property in a legal manner.

END OF SECTION

Leger, Cheryl (BOS)

From: Yuli Huang <yulihuang@gmail.com>
Sent: Thursday, September 8, 2022 11:46 AM
To: SOTF, (BOS)
Subject: Re: SOTF - Sunshine Ordinance Task Force September 7, 2022 Meeting - Agenda and Packet Online

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Dear Ms. Leger,

Thank you very much for the time and effort you diligently provided last evening.

Could you please advise if there is an appeal process against the motion and finding associated with File No. 22013 Item 6 of the Sunshine Ordinance Task Force September 7, 2022 meeting?

If so, I would like to present my argument as follows and request a re-determination. The motion by Member of SOTF to find no violation, on the basis that the requested document does not exist and that "it is a public record if the requested document exists [to be aligned with the wording in the minutes]," contradicted the statement in the Summary of the California Public Records Act 2004, via the office of the Attorney General, California Department of Justice: "A writing includes all forms of recorded information that currently exist or that may exist in the figure." Because the requested document is a submittal required by the Contract Documents of the project, it may reasonably be expected to exist in the future and hence is a writing and public record pursuant to Government Code §6252 (e) and the Summary of the California Public Records Act 2004. Therefore, SOTF's finding and the underlying reasoning would become groundless.

If not, may I submit the following public comment? The motion associated with File No. 22013 Item 6 by Member of SOTF to find no violation, on the basis that the requested document does not exist and that "it is a public record if the requested document exists [to be aligned with the wording in the minutes]," contradicted the statement in the Summary of the California Public Records Act 2004, via the office of the Attorney General, California Department of Justice: "A writing includes all forms of recorded information that currently exist or that may exist in the figure." Because the requested document is a submittal required by the Contract Documents of the project, it may reasonably be expected to exist in the future and hence is a writing and public record pursuant to Government Code §6252 (e) and the Summary of the California Public Records Act 2004. Therefore, SOTF's finding and the underlying reasoning would become groundless.

I appreciate your advice and look forward to hearing from you.

Best,
Yuli

On Fri, Sep 2, 2022 at 1:52 PM SOTF, (BOS) <sotf@sfgov.org> wrote:

Good Afternoon:

The agenda and packet for the of the Sunshine Ordinance Task Force September 7, 2022, 4;00 p.m. meeting is online at the following link:

https://sfgov.org/sunshine/sites/default/files/sotf_090722_agenda.pdf

The packet material is linked to each item listed on the agenda. Click anywhere on the title of the item to open the link to the pdf of the packet material in question. Regarding item 9, all records are located in Parts 1, 2 and 3.

Cheryl Leger

Assistant Clerk, Board of Supervisors

Cheryl.Leger@sfgov.org

Tel: 415-554-7724

Fax: 415-554-5163

www.sfbos.org

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Respondent's Response

Leger, Cheryl (BOS)

From: Steinberg, David (DPW)
Sent: Thursday, March 3, 2022 11:25 AM
To: Leger, Cheryl (BOS)
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Hi Cheryl,

You previously wrote that Mr. Huang withdrew Complaint 22013, but today's email had an attachment for that file. I want to confirm that we are not being called to the committee next week, as we haven't prepared a response.

Thanks,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 11:17 AM
To: sf.texts.research@pm.me; Pojman, Natalie (DPH) <natalie.pojman@sfdph.org>; Colfax, Grant (DPH) <grant.colfax@sfdph.org>; Hawkes, Alison (DPH) <alison.hawkes@sfdph.org>; Yuli Huang <yulihuang@gmail.com>; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Hanley Chan <han2683@outlook.com>; Murphy, Mary (HSA) <Mary.C.Murphy@sfgov.org>; Olivieri, Victor (VAC) <victor.olivieri.vac@sfgov.org>; Wynship Hillier <wynship@hotmail.com>; Grier, Geoffrey (DPH - Contractor) <geoffrey.grier@sfdph.org>
Subject: FW: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Mr. Hillier and Mr. Grier: This notice is an update to the notice sent out last Friday. Apologies.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org

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From: SOTF, (BOS)
Sent: Friday, February 25, 2022 3:46 PM
To: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Good Afternoon:

The case summaries outlined below for File Nos. 22012 and 22013 show that Respondents in the attached complaints filed with the Sunshine Ordinance Task Force (SOTF) did not provide the requested records. In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainants allege:

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Also, notice is hereby given that the Education, Outreach and Training Committee (Committee) of the Sunshine Ordinance Task Force (Task Force) shall hold hearings on the complaints listed below to: 1) determine if the Task Force has jurisdiction; 2) review the merits of the complaints; and/or 3) issue a report and/or recommendation to the Task Force. ***PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 4, 2022, 5:00 PM.***

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents

available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda. *(attachments)*

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the

Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make. *(attachments)*

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021, and June 12, 2021, meetings).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3 2022..***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From: Steinberg, David (DPW)
Sent: Monday, March 7, 2022 11:40 AM
To: Leger, Cheryl (BOS)
Cc: Young, Victor (BOS); vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Cheryl and Chair Hyland:

Although Public Works did not have enough time to provide a written response in time for tomorrow's hearing, we are prepared to move ahead and withdraw our request for a postponement of consideration of our case at the March 8, 2022, hearing.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Steinberg, David (DPW)
Sent: Thursday, March 3, 2022 4:18 PM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Ok, thanks for the explanation.

As I wrote in the attached letter requesting a postponement, we did not prepare a response in time to submit by today's deadline based on your March 1 email that the complaint had been closed. Because we relied on that information, we believe it would be unfair to hold the hearing as scheduled March 8.

Thank you.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

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From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 4:05 PM
To: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

You are correct, I did tell Mr. Huang that he could withdraw his complaint, however, Mr. Huang changed his mind about the withdrawal. It is now up to the committee on how they will proceed with this case.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org

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From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Thursday, March 3, 2022 11:25 AM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Hi Cheryl,

You previously wrote that Mr. Huang withdrew Complaint 22013, but today's email had an attachment for that file. I want to confirm that we are not being called to the committee next week, as we haven't prepared a response.

Thanks,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888

sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 11:17 AM
To: sf.texts.research@pm.me; Pojman, Natalie (DPH) <natalie.pojman@sfdph.org>; Colfax, Grant (DPH) <grant.colfax@sfdph.org>; Hawkes, Alison (DPH) <alison.hawkes@sfdph.org>; Yuli Huang <yulihuang@gmail.com>; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Hanley Chan <han2683@outlook.com>; Murphy, Mary (HSA) <Mary.C.Murphy@sfgov.org>; Olivieri, Victor (VAC) <victor.olivieri.vac@sfgov.org>; Wynship Hillier <wynship@hotmail.com>; Grier, Geoffrey (DPH - Contractor) <geoffrey.grier@sfdph.org>
Subject: FW: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Mr. Hillier and Mr. Grier: This notice is an update to the notice sent out last Friday. Apologies.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
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From: SOTF, (BOS)
Sent: Friday, February 25, 2022 3:46 PM
To: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Good Afternoon:

The case summaries outlined below for File Nos. 22012 and 22013 show that Respondents in the attached complaints filed with the Sunshine Ordinance Task Force (SOTF) did not provide the requested records. In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the

requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainants allege:

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Also, notice is hereby given that the Education, Outreach and Training Committee (Committee) of the Sunshine Ordinance Task Force (Task Force) shall hold hearings on the complaints listed below to: 1) determine if the Task Force has jurisdiction; 2) review the merits of the complaints; and/or 3) issue a report and/or recommendation to the Task Force. ***PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 4, 2022, 5:00 PM.***

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact

information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

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File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make. *(attachments)*

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021, and June 12, 2021, meetings).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3 2022..***

Cheryl Leger

Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From:	Steinberg, David (DPW)
Sent:	Tuesday, March 8, 2022 9:13 AM
To:	Leger, Cheryl (BOS)
Subject:	RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING
Attachments:	03.08.22 response for EOTC hearing.docx

Hi Cheryl,

Here's our response.

-d.

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

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From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Monday, March 7, 2022 11:46 AM
To: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Thank you, David. If you have a written response, please forward it.

Cheryl

From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Monday, March 7, 2022 11:40 AM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Cheryl and Chair Hyland:

Although Public Works did not have enough time to provide a written response in time for tomorrow's hearing, we are prepared to move ahead and withdraw our request for a postponement of consideration of our case at the March 8, 2022, hearing.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
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Sent: Thursday, March 3, 2022 4:18 PM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Ok, thanks for the explanation.

As I wrote in the attached letter requesting a postponement, we did not prepare a response in time to submit by today's deadline based on your March 1 email that the complaint had been closed. Because we relied on that information, we believe it would be unfair to hold the hearing as scheduled March 8.

Thank you.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 4:05 PM
To: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

You are correct, I did tell Mr. Huang that he could withdraw his complaint, however, Mr. Huang changed his mind about the withdrawal. It is now up to the committee on how they will proceed with this case.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163

www.sfbos.org

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From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Thursday, March 3, 2022 11:25 AM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Hi Cheryl,

You previously wrote that Mr. Huang withdrew Complaint 22013, but today's email had an attachment for that file. I want to confirm that we are not being called to the committee next week, as we haven't prepared a response.

Thanks,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 11:17 AM
To: sf.texts.research@pm.me; Pojman, Natalie (DPH) <natalie.pojman@sfdph.org>; Colfax, Grant (DPH) <grant.colfax@sfdph.org>; Hawkes, Alison (DPH) <alison.hawkes@sfdph.org>; Yuli Huang <yulihuang@gmail.com>; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Hanley Chan <han2683@outlook.com>; Murphy, Mary (HSA) <Mary.C.Murphy@sfgov.org>; Olivieri, Victor (VAC) <victor.olivieri.vac@sfgov.org>; Wynship Hillier <wynship@hotmail.com>; Grier, Geoffrey (DPH - Contractor) <geoffrey.grier@sfdph.org>
Subject: FW: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Mr. Hillier and Mr. Grier: This notice is an update to the notice sent out last Friday. Apologies.

Cheryl Leger

Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org

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From: SOTF, (BOS)
Sent: Friday, February 25, 2022 3:46 PM
To: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Good Afternoon:

The case summaries outlined below for File Nos. 22012 and 22013 show that Respondents in the attached complaints filed with the Sunshine Ordinance Task Force (SOTF) did not provide the requested records. In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainants allege:

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Also, notice is hereby given that the Education, Outreach and Training Committee (Committee) of the Sunshine Ordinance Task Force (Task Force) shall hold hearings on the complaints listed below to: 1) determine if the Task Force has jurisdiction; 2) review the merits of the complaints; and/or 3) issue a report and/or recommendation to the Task Force. ***PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 4, 2022, 5:00 PM.***

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of

business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda. *(attachments)*

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make. *(attachments)*

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021, and June 12, 2021, meetings).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3 2022..***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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From: David Steinberg, Custodian of Records, San Francisco Public Works

To: Sunshine Ordinance Task Force, EOTC Chair Hyland

Date: 7 March 2022

RE: Complaint #22013

Public Works acknowledges that the Sunshine Ordinance Task Force has jurisdiction over this matter and that any records that might be considered responsive to Mr. Huang's request would be public.

Mr. Huang has submitted three records requests related to a Public Works project and the department has provided to him the records we have that are responsive and even one that I would argue isn't responsive but that we delivered out of a desire to be fully transparent.

In his complaint, Mr. Huang does not argue that the department has withheld any records responsive to his Dec. 3, 2021, request, which we logged as Public Records Request #22-6702. Rather, he is arguing that the department did not follow its own procedures and that there should be documents to release.

Mr. Huang's assumptions are incorrect, but that isn't the matter before you. Whether the department should have created documents isn't in the jurisdiction of the SOTF. The issue before you is whether there are documents and if there are whether any were improperly withheld. As we told Mr. Huang, there are no additional records responsive to his request and there is no requirement that we create any. For these reasons, we ask the committee to recommend that the Task Force determination that no violation exists and close this complaint.

Leger, Cheryl (BOS)

From: Steinberg, David (DPW)
Sent: Friday, March 11, 2022 5:45 PM
To: SOTF, (BOS)
Cc: yulihuang@gmail.com
Subject: File No. 22013
Attachments: 03.11.22 to Darcy Harty.pdf

As directed by the Sunshine Task Force EOTC this week, I wrote to the contractor and asked for the records requested by Mr. Huang. Attached is a copy of my email. I also spoke with a representative of the contractor today, who told me that no such document exists. I asked him to send that information in an email, which I will forward to you as soon as I receive it.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Steinberg, David (DPW)
To: Willie@darcyharty.com
Subject: Request for documentation
Date: Friday, March 11, 2022 9:13:00 AM
Attachments: image001.jpg
Importance: High

Hi Willie,

I left a voicemail for you yesterday, but wanted to follow up with the specific request. Public Works received a request for a document for the Sunset and Parkside Sewer and Pavement Renovation Project that we don't have and we were ordered to ask the contractor for its copy of such a document, if it exists. The request was for "calculation package that determines and supports the choice of hammering parameters and hammering operation plan including precautionary measures." If there is no such document, there is no requirement that you create one, but if you are in possession of the record, please send it to me as soon as possible.

A second, separate request was made for additional documentation, and I will follow up with you on that.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

Leger, Cheryl (BOS)

From: Steinberg, David (DPW)
Sent: Thursday, March 17, 2022 3:02 PM
To: SOTF, (BOS)
Cc: yulihuang@gmail.com
Subject: RE: File No. 22013
Attachments: 03.17.22 from Darcy Harty.pdf

I am following up to let you know that I have heard from the contractor, who confirms that no record as described and requested by Mr. Huang exists. Attached is a copy of the response.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Steinberg, David (DPW)
Sent: Friday, March 11, 2022 5:45 PM
To: SOTF, (BOS) <sotf@sfgov.org>
Cc: yulihuang@gmail.com
Subject: File No. 22013

As directed by the Sunshine Task Force EOTC this week, I wrote to the contractor and asked for the records requested by Mr. Huang. Attached is a copy of my email. I also spoke with a representative of the contractor today, who told me that no such document exists. I asked him to send that information in an email, which I will forward to you as soon as I receive it.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
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49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: willie darcyharty.com
To: Steinberg, David (DPW)
Subject: Re: Request for documentation
Date: Thursday, March 17, 2022 12:48:34 PM
Attachments: image002.jpg

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Hi David

Apologies, I had meant to respond to you sooner on this.

As discussed, we do not have a "calculation package that determines and supports the choice of hammering parameters and hammering operation plan including precautionary measures."

If you need anything else, please let me know

Willie

William Tobin
D'Arcy & Harty Construction Inc
(Office) (415) 822-5200
(Fax) (415)822-0747
(Cell) (415) 726-3052

From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Wednesday, March 16, 2022 5:57 PM
To: willie darcyharty.com <willie@darcyharty.com>
Subject: RE: Request for documentation

Hi Willie,

I just wanted to follow up on our call the other day since I haven't heard back from you in response to this request.

Please let me know if you have the record(s) requested.

Thanks much.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Steinberg, David (DPW)
Sent: Friday, March 11, 2022 9:14 AM
To: Willie@darcyharty.com
Subject: Request for documentation
Importance: High

Hi Willie,

I left a voicemail for you yesterday, but wanted to follow up with the specific request. Public Works received a request for a document for the Sunset and Parkside Sewer and Pavement Renovation Project that we don't have and we were ordered to ask the contractor for its copy of such a document, if it exists. The request was for "calculation package that determines and supports the choice of hammering parameters and hammering operation plan including precautionary measures." If there is no such document, there is no requirement that you create one, but if you are in possession of the record, please send it to me as soon as possible.

A second, separate request was made for additional documentation, and I will follow up with you on that.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
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sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

Leger, Cheryl (BOS)

From: SOTF, (BOS)
Sent: Tuesday, February 22, 2022 8:45 AM
To: 'yulihuang@gmail.com'
Subject: RE: New Response Complaint Form

Dear Mr. Huang: I am in receipt of and thank you for your google form below. In order to process your complaint, I need your initial request and any responsive records received. I have assigned file no. 22013 to your case so please refer to this number when corresponding with me. Thank you.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org

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From: Google Forms <sfbdsupvrs@gmail.com>
Sent: Friday, February 18, 2022 6:35 PM
To: SOTF, (BOS) <sotf@sfgov.org>
Subject: New Response Complaint Form

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Your form has a new entry.
Here are the results.

Complaint against which Department or Commission the San Francisco Department of Public Works

Name of individual contacted at Department or Commission	David A. Steinberg
Alleged Violation	Public Records
Please describe alleged violation	The San Francisco Department of Public Works provided a document responding to Public-Record Request #21-6702. I reviewed this document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf". I confirm that it is non-compliant with the request as justified as follows. I want to file a complaint and seek advice and help from the Sunshine Ordinance Task Force. The document is a digital file of the Bid Documents associated with the Invitation to Bid, a call to contractors to submit a proposal on the Sunset and Parkside Sewer and Pavement Renovation Project for a specific service. The Invitation to Bid has been publicly available at https://proposal-bid-notices.construction.com/bid/5984/city-county-of-san-francisco-san-francisco-public-works-. The digital file of the Bid Documents was available at http://www.sfpublicworks.org/biddocs. Public Works did not release them in response to Request #21-6702. After the publication of the Invitation to Bid, the Contractor submitted the bid with the bidding forms. The Contractor should have submitted drawings to scale indicating materials, details, and calculations for all permits in a format as required by the San Francisco Department of Public Works. Plans and calculations for the shoring system should have been submitted for review and approval by the City prior to trench excavation. As required by the Project Manual, the Contractor should have provided all engineering, including design, details and calculations, installation and construction of shoring, sheeting, and bracing necessary to support the sides of the excavation to prevent movement, which may damage adjacent pavements, utilities, or structures, damage or delay the Work, or endanger life and health as required by Cal-OSHA and other applicable governmental regulations and agencies. The Contractor should have proposed and submitted for approval, a suitable installation method, which will minimize noise and vibrations. The Contractor should have taken necessary precautions and implemented mitigation measures to prevent or reduce the release of pollutants in the form of dust, fume, mists, excessive noise and vibration into the air and surrounding environments. Details and calculations should have been signed and stamped by a California licensed Civil or Structural Engineer. The Contractor produced submittal after the publication of the Invitation to Bid. The submittal by the Contractor must substantially differed from the digital file of the Bid Documents. Therefore, the document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf" is non-compliant with the request, and the documents demanded by Request #21-6702 have not been released by the San Francisco Department of Public Works. The Contractor used excavator-mounted pile-driving harmers to install sheet piling into

the sandy ground, generating soil movement and potentially damaging adjacent structures. The Contractor should have submitted the required documents to the City for review and approval. The San Francisco Department of Public Works should have reviewed and approved these documents prior to issuing the Notice to Proceed. Therefore, the request of the following items is reiterated:

1. The design and details of the sheet piling installation procedure.
2. The calculation package determined hammering parameters for sheet piling installation, including the maximum duration of continuous hammering events, the specified rated number of blows per minute, the specified energy per blow, the specified stroke length, the specified capacity and pressure of the compressor, and the specified vibratory frequency of the pile driver.
3. The design, calculations, and implementation details of mitigation measures to prevent damage to the adjacent structures.

The Public Records Act requires an agency to make available to any person a copy of an "identifiable record or records" in its possession, unless the record is specifically exempt from disclosure. (Please see California Government Code § 6253(b).) The City's obligation under the Sunshine Ordinance, like the Public Records Act, is to produce public records in its custody. (See San Francisco Administration Code § 67.20(b).) There is no requirement that a department or officer construct a document to meet the specifications of the request. However, suppose the San Francisco Department of Public Works finishes conducting a diligent search and confirms that it finds no documents responsive to the request. In that case, it is considered a consensus that the documents requested and required by the Invitation to Bid and the associated Project Manual are not in its possession, which is, in turn, evident failure of the San Francisco Department of Public Works to review and approve a complete set of required submittal prior to issuing the Notice to Proceed to the Contractor.

It would be much appreciated if you could please advise how to proceed.

Date 02/18/2022

City San Francisco

If anonymous, please let us know how to contact you. Thank you.

Yuli Huang, 408-874-5721, yulihuang@gmail.com

Sent via Google Form Notifications

Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Friday, February 25, 2022 4:26 PM
To:	Steinberg, David (DPW)
Cc:	yulihuang@gmail.com
Subject:	SOTF - Complaint Filed with the Sunshine Ordinance Task Force - File No. 22013
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf; Preparing SOTF Respondent Materials FINAL for PILOT.pdf; Complaint 22013.pdf

Good Afternoon:

David Steinberg and Public Works have been named as Respondents in the attached complaint filed with the Sunshine Ordinance Task Force (SOTF). In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainant alleges:
Complaint Attached.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Friday, February 25, 2022 3:46 PM
To:	Young, Victor (BOS)
Subject:	SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf; Preparing SOTF Respondent Materials FINAL for PILOT.pdf; Complaint 22013.pdf; Complaint 22012.pdf

Good Afternoon:

The case summaries outlined below for File Nos. 22012 and 22013 show that Respondents in the attached complaints filed with the Sunshine Ordinance Task Force (SOTF) did not provide the requested records. In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainants allege:

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Also, notice is hereby given that the Education, Outreach and Training Committee (Committee) of the Sunshine Ordinance Task Force (Task Force) shall hold hearings on the complaints listed below to: 1) determine if the Task Force has jurisdiction; 2) review the merits of the complaints; and/or 3) issue a report and/or recommendation to the Task Force. ***PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 2, 2022, 5:00 PM.***

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing

that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3 2022..***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

Click here to complete a Board of Supervisors Customer Service Satisfaction form.

Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Friday, February 25, 2022 4:26 PM
To:	Steinberg, David (DPW)
Cc:	yulihuang@gmail.com
Subject:	SOTF - Complaint Filed with the Sunshine Ordinance Task Force - File No. 22013
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf; Preparing SOTF Respondent Materials FINAL for PILOT.pdf; Complaint 22013.pdf

Good Afternoon:

David Steinberg and Public Works have been named as Respondents in the attached complaint filed with the Sunshine Ordinance Task Force (SOTF). In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainant alleges:
Complaint Attached.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Friday, February 25, 2022 4:36 PM
To:	'yulihuang@gmail.com'; Steinberg, David (DPW); 'sf.texts.research@pm.me'; Colfax, Grant (DPH); Pojman, Natalie (DPH); Hawkes, Alison (DPH); 'Hanley Chan'; Olivieri, Victor (VAC); 'Wynship Hillier'; Grier, Geoffrey (DPH - Contractor)
Cc:	Young, Victor (BOS)
Subject:	SOTF - Notice of Hearing; March 8, 2022; Remote meeting; 5:30 PM

Good Afternoon:

You are receiving this notice because you are named as a Complainant or Respondent in one of the following complaints scheduled before the Education, Outreach and Training Committee to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee.

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 2, 2022, 5:00 PM.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

For a document to be considered, it must be received at least four (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3, 2022.***

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission listed below.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3, 2022.***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org


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Leger, Cheryl (BOS)

From: Yuli Huang <yulihuang@gmail.com>
Sent: Friday, February 25, 2022 4:42 PM
To: SOTF, (BOS)
Subject: Re: New Response Complaint Form

Hi Cheryl,

May I request that my complaint associated with File No. 22013 be anonymous? I believe I filed the anonymous complaint via Google Form and provided my contact information for contact purposes only.

Best,
Yuli

On Tue, Feb 22, 2022 at 8:45 AM SOTF, (BOS) <sotf@sfgov.org> wrote:

Dear Mr. Huang: I am in receipt of and thank you for your google form below. In order to process your complaint, I need your initial request and any responsive records received. I have assigned file no. 22013 to your case so please refer to this number when corresponding with me. Thank you.

Cheryl Leger

Assistant Clerk, Board of Supervisors

Cheryl.Leger@sfgov.org

Tel: 415-554-7724

Fax: 415-554-5163

www.sfbos.org

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to submit to the Board and its committees—may appear on the Board of Supervisors website or in other public documents that members of the public may inspect or copy.

From: Google Forms <sfbdsupvrs@gmail.com>
Sent: Friday, February 18, 2022 6:35 PM
To: SOTF, (BOS) <sotf@sfgov.org>
Subject: New Response Complaint Form

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Your form has a new entry.
Here are the results.

Complaint against which Department or Commission	the San Francisco Department of Public Works
Name of individual contacted at Department or Commission	David A. Steinberg
Alleged Violation	Public Records
Please describe alleged violation	The San Francisco Department of Public Works provided a document responding to Public-Record Request #21-6702. I reviewed this document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf". I confirm that it is non-compliant with the request as justified as follows. I want to file a complaint and seek advice and help from the Sunshine Ordinance Task Force. The document is a digital file of the Bid Documents associated with the Invitation to Bid, a call to contractors to submit a proposal on the Sunset and Parkside Sewer and Pavement Renovation Project for a specific service. The Invitation to Bid has been publicly available at https://proposal-bid-notices.construction.com/bid/5984/city-county-of-san-francisco-san-francisco-public-works-. The digital file of the Bid Documents was available at http://www.sfpublicworks.org/biddocs. Public Works did

not release them in response to Request #21-6702.
After the publication of the Invitation to Bid, the Contractor submitted the bid with the bidding forms. The Contractor should have submitted drawings to scale indicating materials, details, and calculations for all permits in a format as required by the San Francisco Department of Public Works. Plans and calculations for the shoring system should have been submitted for review and approval by the City prior to trench excavation. As required by the Project Manual, the Contractor should have provided all engineering, including design, details and calculations, installation and construction of shoring, sheeting, and bracing necessary to support the sides of the excavation to prevent movement, which may damage adjacent pavements, utilities, or structures, damage or delay the Work, or endanger life and health as required by Cal-OSHA and other applicable governmental regulations and agencies. The Contractor should have proposed and submitted for approval, a suitable installation method, which will minimize noise and vibrations. The Contractor should have taken necessary precautions and implemented mitigation measures to prevent or reduce the release of pollutants in the form of dust, fume, mists, excessive noise and vibration into the air and surrounding environments. Details and calculations should have been signed and stamped by a California licensed Civil or Structural Engineer.
The Contractor produced submittal after the publication of the Invitation to Bid. The submittal by the Contractor must substantially differed from the digital file of the Bid Documents. Therefore, the document claimingly released by Public Works, "1000015025-Project Manual 2 of 2.pdf" is non-compliant with the request, and the documents demanded by Request #21-6702 have not been released by the San Francisco Department of Public Works.
The Contractor used excavator-mounted pile-driving harmers to install sheet piling into the sandy ground, generating soil movement and potentially damaging adjacent structures. The Contractor should have submitted the required documents to the City for review and approval. The San Francisco Department of Public Works should have reviewed and approved these documents prior to issuing the Notice to Proceed. Therefore, the request of the following items is reiterated:
1. The design and details of the sheet piling installation procedure.
2. The calculation package determined hammering parameters for sheet piling installation, including the maximum duration of continuous hammering events, the specified rated number of blows per minute, the specified energy per blow, the specified stroke length, the specified capacity and pressure of the compressor, and the specified vibratory frequency of the pile driver.
3. The design, calculations, and implementation details of mitigation measures to prevent damage to the adjacent structures.
The Public Records Act requires an agency to make available to any person a copy of an "identifiable record or records" in its possession, unless the record is specifically exempt from disclosure. (Please see California Government Code § 6253(b).) The City's obligation under the Sunshine Ordinance, like the Public Records Act, is to produce public records in its custody. (See San Francisco Administration Code § 67.20(b).) There is no requirement that a department or officer construct a document to meet the specifications of the request. However, suppose the San Francisco Department of Public Works finishes conducting a diligent search and confirms that it finds no documents responsive to the request. In that case, it is considered a consensus that the documents requested and required by the Invitation to Bid and the associated Project Manual are not in its possession, which is, in turn, evident failure of the San Francisco Department of Public Works to review and approve a complete set of required submittal prior to issuing

the Notice to Proceed to the Contractor.
It would be much appreciated if you could please advise how to proceed.

Date	02/18/2022
City	San Francisco
If anonymous, please let us know how to contact you. Thank you.	Yuli Huang, 408-874-5721, yulihuang@gmail.com

Sent via Google Form Notifications

Leger, Cheryl (BOS)

From: Steinberg, David (DPW)
Sent: Monday, March 7, 2022 11:40 AM
To: Leger, Cheryl (BOS)
Cc: Young, Victor (BOS); vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Cheryl and Chair Hyland:

Although Public Works did not have enough time to provide a written response in time for tomorrow's hearing, we are prepared to move ahead and withdraw our request for a postponement of consideration of our case at the March 8, 2022, hearing.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Steinberg, David (DPW)
Sent: Thursday, March 3, 2022 4:18 PM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Ok, thanks for the explanation.

As I wrote in the attached letter requesting a postponement, we did not prepare a response in time to submit by today's deadline based on your March 1 email that the complaint had been closed. Because we relied on that information, we believe it would be unfair to hold the hearing as scheduled March 8.

Thank you.

Regards,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888
sfpublicworks.org · twitter.com/sfpublicworks

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 4:05 PM
To: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; vicechairhyland@gmail.com
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

You are correct, I did tell Mr. Huang that he could withdraw his complaint, however, Mr. Huang changed his mind about the withdrawal. It is now up to the committee on how they will proceed with this case.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
Tel: 415-554-7724
Fax: 415-554-5163
www.sfbos.org

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From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Thursday, March 3, 2022 11:25 AM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Subject: RE: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Hi Cheryl,

You previously wrote that Mr. Huang withdrew Complaint 22013, but today's email had an attachment for that file. I want to confirm that we are not being called to the committee next week, as we haven't prepared a response.

Thanks,

David A. Steinberg
Custodian of Records & Executive Assistant to the Director
San Francisco Public Works | City and County of San Francisco
49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888

sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, March 3, 2022 11:17 AM
To: sf.texts.research@pm.me; Pojman, Natalie (DPH) <natalie.pojman@sfdph.org>; Colfax, Grant (DPH) <grant.colfax@sfdph.org>; Hawkes, Alison (DPH) <alison.hawkes@sfdph.org>; Yuli Huang <yulihuang@gmail.com>; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Hanley Chan <han2683@outlook.com>; Murphy, Mary (HSA) <Mary.C.Murphy@sfgov.org>; Olivieri, Victor (VAC) <victor.olivieri.vac@sfgov.org>; Wynship Hillier <wynship@hotmail.com>; Grier, Geoffrey (DPH - Contractor) <geoffrey.grier@sfdph.org>
Subject: FW: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Mr. Hillier and Mr. Grier: This notice is an update to the notice sent out last Friday. Apologies.

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From: SOTF, (BOS)
Sent: Friday, February 25, 2022 3:46 PM
To: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: SOTF - Notice of Appearance - Education, Outreach and Training Committee: March 8, 2022, 5:30 p.m. REMOTE MEETING

Good Afternoon:

The case summaries outlined below for File Nos. 22012 and 22013 show that Respondents in the attached complaints filed with the Sunshine Ordinance Task Force (SOTF) did not provide the requested records. In an effort to provide the SOTF information in an easy to understand format the SOTF has prepared a revised request format for responding to complaints (attached). The SOTF encourages you to use the attached "Respondent – Requested Information and Format" in preparing your response to the attached complaint. Your input into the

requested information would be appreciated as the SOTF evaluates the request response format to streamline the complaint process. **The SOTF is requesting that you submit your response to the allegations including any and all supporting documents, recordings, electronic media, etc., to the Task Force within five (5) business days of receipt of this notice.** In developing and submitting your response, please use the attached instructions, "Preparing San Francisco Sunshine Ordinance Task Force Respondents Materials," to address your defense of this complaint. This is your opportunity to provide a detailed explanation to allow the Task Force to be fully informed in considering your response prior to the meeting.

Please refer to the File Number when submitting any new information and/or supporting documents pertaining to this complaint.

The Complainants allege:

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Also, notice is hereby given that the Education, Outreach and Training Committee (Committee) of the Sunshine Ordinance Task Force (Task Force) shall hold hearings on the complaints listed below to: 1) determine if the Task Force has jurisdiction; 2) review the merits of the complaints; and/or 3) issue a report and/or recommendation to the Task Force. ***PLEASE CONFIRM YOUR ATTENDANCE BY WEDNESDAY MARCH 4, 2022, 5:00 PM.***

Date: March 8, 2022

Location: Remote Meeting

Time: 5:30 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22009: Complaint filed by Hanley Chan against Mary Murphy and Victor Olivieri (Veterans Affairs Commission) for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.5, 67,6, 67.7, and 67.7.1, by failing to post an agenda and provide notice of hearing at least 72 hours before the meeting.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

In addition a, hearing to review and possibly consolidate complaints filed by Wynship Hillier against the Behavioral Health Commission.

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda.

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make.

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021 and June 12, 2021 meetings).

File No. 21095 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities o the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact information for the Sunshine Ordinance Task Force. (February 3,2021, February 9, 2021, and February 17, 2021, meetings).

File No. 21099 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, failing to include a message for people with disabilities on the agenda, failing to include language on the agenda regarding Sunshine Rights, and failing to include the contact

information for the Sunshine Ordinance Task Force. (February 9, 2021 Executive Committee meetings).

File No. 21103 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15 and California Government Code Sections 54953 and 54954(a)(1) by failing to refer/post explanatory documents provided to the policy body, failing to agenda and other documents on file available to the public, failing to provide a brief description of each item of business, failing to allow an opportunity for public comment on each on the agenda, failing to take a roll call vote, failing to make documents available on the internet, failing to take a roll call vote, failing to specify for each item of business the proposed action or statement that the item is for discussion only, failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes, and failing to announce agenda changes at the beginning of the meeting or as soon thereafter as possible. (February 17, 2021, meetings).

File No. 21118 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9 and 67.15 and California Government Code Sections 54953(a)(b) and 54954(a) by failing to refer/post explanatory documents provided to the policy body, failing to provide a brief description of each item of business, failing to take a roll call vote, and failing to adopt a rule providing that each person wishing to speak on an item before the body shall be permitted to be heard once for up to three minutes,. (March 17, 2021 Behavioral Health Commission and March 9, 2021 Implementation and Executive Committee).

File No. 21021 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7 and 67.9, by failing to provide meaningful and sufficiently clear agenda descriptions, distribute agenda packets to members of the public, 67.15 by failing to provide an opportunity for public comment on each item on the agenda, and California Public Records Act by failing meeting with quorum and failing to list disability information on the agenda. *(attachments)*

File No. 21036 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7(a) by failing to post the Agenda 72 hours in advance of the meeting and failure to provide a description of each item of business; 67.7(b) failing to post documents on the website or make available to the public; agenda; 67.9(a) failure to post relevant documents on the internet; 67.15(c) failing to allow public comment; and 67.21(e) failing to make. *(attachments)*

File No. 21087 - Complaint filed by Wynship Hillier against the Behavioral Health Commission for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.7, 67.9, and 67.15, by failing to make documents available to the public as soon as they are available, by failing to list proposed actions on the agenda, acting on a matter not listed on the agenda and by failing to approve a rule allowing the public to address the body; and California Government Code 54954(a) by failing to provide the time and place for holding regular meetings. (January 20, 2021, February 3, 2021, February 9, 2021, February 18, 2021, and June 12, 2021, meetings).

For a document to be considered, it must be received at least five (4) working days before the hearing. ***For inclusion into the agenda packet, supplemental/supporting documents must be received by 5:00 pm, March 3 2022..***

Cheryl Leger

Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Wednesday, August 24, 2022 10:37 AM
To:	WOLF, MARC (CAT)
Subject:	FW: SOTF - Notice of Appearance, September 7, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf

From: SOTF, (BOS)
Sent: Wednesday, August 24, 2022 10:23 AM
To: Lim, Victor (DEM) <victor.lim@sfgov.org>; Maya Zubkovskaya <mary04@sbcglobal.net>; Son, Chanbory (CPC) <Chanbory.Son@sfgov.org>; Lynch, Laura (CPC) <laura.lynch@sfgov.org>; Ionin, Jonas (CPC) <jonas.ionin@sfgov.org>; dratlerj@gmail.com; KWART, JEN (CAT) <Jen.Kwart@sfcityatty.org>; Feitelberg, Brittany (PUC) <BFeitelberg@sfwater.org>; Anonymous <arecordsrequestor@protonmail.com>; Hawkes, Alison (DPH) <alison.hawkes@sfdph.org>; Colfax, Grant (DPH) <Grant.Colfax@sfdph.org>; sf.texts.research@pm.me; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; yulihuang@gmail.com; Sergei Severinov <serolga@yahoo.com>; Reilly, Lynn (POL) <lynn.reilly@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; Somera, Alisa (BOS) <alisa.somera@sfgov.org>; mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT) <David.Ries@sfcityatty.org>
Subject: SOTF - Notice of Appearance, September 7, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting

Good Morning:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance.***

Date: September 7, 2022

Location: Remote Meeting

Time: 4:00 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 20123: Complaint filed by Maya Zubkovskaya against the Department of Emergency Management for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.24(d)(2), by failing to disclose certain portions of law enforcement information.

File No. 21151: Complaint filed by Jerry Dratler against Rich Hillis, Charnbory Son, and the Planning Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to public records request in a timely and/or complete manner.

File No. 21153: Complaint filed by Anonymous (ARE) against Dennis Herrera and the Office of the City Attorney for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.29-5(a), by failing to keep or cause to be kept a calendar with certain minimum information about his business meeting, and to disclose them as public records and willful failure to discharge any duties imposed by the Sunshine Ordinance, Brown Act or the Public Records Act and 67.34 willful violation constituting official misconduct.

File No. 22012: Complaint filed by Anonymous (SFT) against Director Greg Colfax and the Department of Public Health for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22014: Complaint filed by Sergei Severinov against Lt. Lynn Reilly and the Police Department for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21(b), by failing to respond to a public records request in a timely and/or complete manner.

For inclusion in the agenda packet, supplemental/supporting documents must be received by ***5:00 PM, September 1, 2022.***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From: Yuli Huang <yulihuang@gmail.com>
Sent: Monday, August 29, 2022 9:38 AM
To: SOTF, (BOS)
Subject: Re: SOTF - Notice of Appearance, September 7, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting

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confirmed. --Yuli

On Wed, Aug 24, 2022 at 10:22 AM SOTF, (BOS) <sotf@sfgov.org> wrote:

Good Morning:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance.***

Date: September 7, 2022

Location: Remote Meeting

Time: 4:00 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 20123: Complaint filed by Maya Zubkovskaya against the Department of Emergency Management for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.24(d)(2), by failing to disclose certain portions of law enforcement information.

File No. 21151: Complaint filed by Jerry Dratler against Rich Hillis, Charnbory Son, and the Planning Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to public records request in a timely and/or complete manner.

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File No. 22014: Complaint filed by Sergei Severinov against Lt. Lynn Reilly and the Police Department for allegedly violating Administrator Code (Sunshine Ordinance), Section(s) 67.21(b), by failing to respond to a public records request in a timely and/or complete manner.

For inclusion in the agenda packet, supplemental/supporting documents must be received by ***5:00 PM, September 1, 2022.***

Cheryl Leger

Assistant Clerk, Board of Supervisors

Tel: 415-554-7724

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Leger, Cheryl (BOS)

From: Yuli Huang <yulihuang@gmail.com>
Sent: Tuesday, September 13, 2022 10:09 AM
To: SOTF, (BOS)
Cc: Young, Victor (BOS)
Subject: Re: Request for a Reconsideration associted with File No. 22013, Item 6 of the SOTF September 7, 2022 meeting

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Dear Ms. Leger,

It would be great if you could please confirm the Request for a Reconsideration has been received.

Best,
Yuli

On Fri, Sep 9, 2022 at 11:29 AM Yuli Huang <yulihuang@gmail.com> wrote:
Dear Ms. Leger,

I am writing to request a Reconsideration associated with File No. 22013, Item 6 of the Sunshine Ordinance Task Force September 7, 2022 meeting.

RE: Action: Moved by Member Schmidt, seconded by Member Wolfe to find no violation; with caveat that the record would be public if it existed.

The basis of the finding of no violation appeared to be that because the requested document does not currently exist, it is not a public record. This basis contradicts the definition and legal opinion documented in the Summary of the California Public Records Act 2004, by the office of the Attorney General, California Department of Justice: "A writing includes all forms of recorded information that currently exist or that may exist in the future." The requested document is a submittal required by the Contract Documents; Public Works would be entitled to acquire the document per the Contract Documents. The requested document may reasonably be expected to exist in the future and hence is a writing and public record pursuant to Government Code §6252 (e) and the definition and legal opinion documented in the Summary of the California Public Records Act 2004. The basis of SOTF's finding is compromised. Therefore the finding of no violation and the underlying reasoning would become groundless. I believe a reconsideration is warranted.

This information is new because I had not been aware of or presented it, nor was it discovered, considered, or discussed by SOTF.

This information is pertinent because it rightly eliminates the ambiguity in the definition of "writing" and "public record" on which SOTF based its finding. It clarifies that not only information that currently exists but also information that may exist in the future falls into the category of public records. Therefore it significantly compromises the basis of SOFT's finding of no violation and warrants a reconsideration.

A copy of the Summary of the California Public Records Act 2004 is enclosed for your reference.

Thank you very much, and look forward to hearing from you.

Best,
Yuli

On Fri, Sep 9, 2022 at 10:52 AM SOTF, (BOS) <sotf@sfgov.org> wrote:

Dear Parties: The following is the determination of the Sunshine Task Force regarding file 22013 at the September 7, 2022 hearing.

File No. 22013: Complaint filed by Yuli Huang against David Steinberg and Public Works for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, by failing to respond to a public records request in a timely and/or complete manner.

Action: Moved by Member Schmidt, seconded by Member Wolfe to find no violation; with caveat that the record would be public if it existed.

The motion PASSED by the following vote:

Ayes: 9 - Schmidt, Wolfe, LaHood, Yankee, Neighbors, Hyland, Wong, Padmanabhan, Stein

Noes: 0 - None

Absent: 1 - Hill

Cheryl Leger

Assistant Clerk, Board of Supervisors

Cheryl.Leger@sfgov.org

Tel: 415-554-7724

Fax: 415-554-5163

www.sfbos.org

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Leger, Cheryl (BOS)

From: Young, Victor (BOS)
Sent: Tuesday, September 13, 2022 1:33 PM
To: Leger, Cheryl (BOS)
Cc: Somera, Alisa (BOS); Calvillo, Angela (BOS)
Subject: FW: Request for a Reconsideration associted with File No. 22013, Item 6 of the SOTF September 7, 2022 meeting

Cheryl

Checking in to see if you have responded to the request for reconsideration.

1. Did they submit documents/information that was not available during the meeting that can change the decision of the TF in writing?
2. He did submit new information but I don't think it would make a difference in a new hearing.
3. Maybe we should double check with chair and send it to committee to determine if the information would qualify it for a new hearing??
4. For discussion maybe we should redefine the ability to ask for reconsideration. Too many loopholes.

Victor Young
Assistant Clerk
Board of Supervisors
phone 415-554-7723 | fax 415-554-5163
victor.young@sfgov.org | www.sfbos.org

From: Yuli Huang <yulihuang@gmail.com>
Sent: Tuesday, September 13, 2022 10:09 AM
To: SOTF, (BOS) <sotf@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: Re: Request for a Reconsideration associted with File No. 22013, Item 6 of the SOTF September 7, 2022 meeting

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Best,
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Yuli

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Action: Moved by Member Schmidt, seconded by Member Wolfe to find no violation; with caveat that the record would be public if it existed.

The motion PASSED by the following vote:

Ayes: 9 - Schmidt, Wolfe, LaHood, Yankee, Neighbors, Hyland, Wong, Padmanabhan, Stein

Noes: 0 - None

Absent: 1 - Hill

Cheryl Leger

Assistant Clerk, Board of Supervisors

Cheryl.Leger@sfgov.org

Tel: 415-554-7724

Fax: 415-554-5163

www.sfbos.org

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Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Thursday, September 22, 2022 11:22 AM
To:	yulihuang@gmail.com; Steinberg, David (DPW); Anonymous; Jung, Charles (REG); Arntz, John (REG); San Francisco Living Wage; gizellejane215@gmail.com; Fletcher, Karen (ADP); Tullock, Cristel (ADP); Worsfold, Stephen (RET)
Cc:	Young, Victor (BOS); Somera, Alisa (BOS); mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT); Calvillo, Angela (BOS)
Subject:	SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf

Good Morning:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance.***

Date: October 5, 2022

Location: Remote Meeting

Time: 4:00 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22013: Hearing Regarding Request for Reconsideration of Complaint 22013. Complaint filed by Yuli Huang against David Steinberg and Public Works for finding no violation of Administrative Code (Sunshine Ordinance), Section 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22104: Hearing Regarding Request for Reconsideration of Complaint No. 22036: Complaint filed by Anonymous (ARE) against Charles Jung (Elections Commission) for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.25, by failing to respond to an Immediate Disclosure Request in a timely and/or complete manner.

File No. 22030: Complaint filed by Gizelle Rabi and Karl Kramer against Karen Fletcher and the Adult Probation Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21 by failing to respond to a request for public records in a timely and/or complete manner.

File No. 21148: Complaint filed by Jordan Santagata and Karl Kramer against the San Francisco Employees' Retirement System for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, 67.24,

and 67.25 and California Public Records Act, Section(s) 6254.26, by failing to respond to a request for public records in a timely and/or complete manner.

For inclusion in the agenda packet, supplemental/supporting documents must be received by ***5:00 PM, September 29, 2022.***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

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Leger, Cheryl (BOS)

From:	Leger, Cheryl (BOS)
Sent:	Thursday, September 22, 2022 12:08 PM
To:	yulihuang@gmail.com; Steinberg, David (DPW); Anonymous; Jung, Charles (REG); Arntz, John (REG); San Francisco Living Wage; gizellejane215@gmail.com; Fletcher, Karen (ADP); Tullock, Cristel (ADP); Worsfold, Stephen (RET)
Cc:	Young, Victor (BOS); Somera, Alisa (BOS); mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT); Calvillo, Angela (BOS)
Subject:	FW: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force SPECIAL MEETING; 7:00 PM; Remote Meeting
Attachments:	SOTF - Complaint Procedure 2019-10-02 FINAL.pdf

Dear Parties and SOTF Members: This Sunshine Task Force meeting is a ***Special Meeting and will begin at 7:00 PM, not the usual 4:00 PM.***

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From: SOTF, (BOS)
Sent: Thursday, September 22, 2022 11:22 AM
To: yulihuang@gmail.com; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Anonymous <arecordsrequestor@protonmail.com>; Jung, Charles (REG) <charles.jung@sfgov.org>; Arntz, John (REG) <john.arntz@sfgov.org>; San Francisco Living Wage <sflivingwage@gmail.com>; gizellejane215@gmail.com; Fletcher, Karen (ADP) <karen.fletcher@sfgov.org>; Tullock, Cristel (ADP) <cristel.tullock@sfgov.org>; Worsfold, Stephen (RET) <stephen.worsfold@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; Somera, Alisa (BOS) <alisa.somera@sfgov.org>; mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT) <David.Ries@sfcityatty.org>; Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>
Subject: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting

Good Morning:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance.***

Date: October 5, 2022

Location: Remote Special Meeting

Time: 7:00 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22013: Hearing Regarding Request for Reconsideration of Complaint 22013. Complaint filed by Yuli Huang against David Steinberg and Public Works for finding no violation of Administrative Code (Sunshine Ordinance), Section 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22104: Hearing Regarding Request for Reconsideration of Complaint No. 22036: Complaint filed by Anonymous (ARE) against Charles Jung (Elections Commission) for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.25, by failing to respond to an Immediate Disclosure Request in a timely and/or complete manner.

File No. 22030: Complaint filed by Gizelle Rabi and Karl Kramer against Karen Fletcher and the Adult Probation Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21 by failing to respond to a request for public records in a timely and/or complete manner.

File No. 21148: Complaint filed by Jordan Santagata and Karl Kramer against the San Francisco Employees' Retirement System for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, 67.24, and 67.25 and California Public Records Act, Section(s) 6254.26, by failing to respond to a request for public records in a timely and/or complete manner.

For inclusion in the agenda packet, supplemental/supporting documents must be received by ***5:00 PM, September 29, 2022.***

Cheryl Leger
Assistant Clerk, Board of Supervisors
Tel: 415-554-7724

Click here to complete a Board of Supervisors Customer Service Satisfaction form.

Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Friday, September 23, 2022 8:53 AM
To:	Steinberg, David (DPW)
Cc:	yulihuang@gmail.com
Subject:	FW: FW: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force SPECIAL MEETING; 7:00 PM; Remote Meeting

David: Please see the response to your request below.

Cheryl Leger
Assistant Clerk, Board of Supervisors
Cheryl.Leger@sfgov.org
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Fax: 415-554-5163
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From: Yuli Huang <yulihuang@gmail.com>
Sent: Thursday, September 22, 2022 8:22 PM
To: SOTF, (BOS) <sotf@sfgov.org>
Subject: Re: FW: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force SPECIAL MEETING; 7:00 PM; Remote Meeting

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Hi Ms. Leger,

Thank you for your email.

I do not agree. Public Works may send another representative to the meeting.

Best,
Yuli

On Thu, Sep 22, 2022 at 12:24 PM SOTF, (BOS) <sotf@sfgov.org> wrote:

Mr. Huang: I just received the email below from David Steinberg who states that due to the religious holiday on October 5, he will be unable to attend the Sunshine Task Force hearing and is requesting a postponement. I write to ask if you agree to postpone the case? Thank you.

Cheryl Leger

Assistant Clerk, Board of Supervisors

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From: Steinberg, David (DPW) <david.steinberg@sfdpw.org>
Sent: Thursday, September 22, 2022 12:16 PM
To: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>

Cc: Young, Victor (BOS) <victor.young@sfgov.org>
Subject: RE: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force SPECIAL MEETING; 7:00 PM; Remote Meeting
Importance: High

Cheryl,

Because Oct. 5 is a religious holiday, I request that the item related to Mr. Huang's request for reconsideration be postponed until the following month. While I understand that there are some SOTF members who are attending after sundown, that is a decision they are able to make as volunteers. As a City employee, I have taken that day off and would be unable to attend.

Regards,

David A. Steinberg (he/him/his)

Custodian of Records & Executive Assistant to the Director

San Francisco Public Works | City and County of San Francisco

49 South Van Ness Avenue, Suite 1647 | San Francisco, CA 94103 | (628) 271-2888

sfpublicworks.org · twitter.com/sfpublicworks

For public records requests, please go to sfpublicworks.org/records.

From: Leger, Cheryl (BOS) <cheryl.leger@sfgov.org>
Sent: Thursday, September 22, 2022 12:08 PM
To: Yuli Huang <yulihuang@gmail.com>; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Anonymous <arecordsrequestor@protonmail.com>; Jung, Charles (REG) <charles.jung@sfgov.org>; Arntz, John (REG) <john.arntz@sfgov.org>; San Francisco Living Wage <sflivingwage@gmail.com>; gizellejane215@gmail.com; Fletcher, Karen (ADP) <karen.fletcher@sfgov.org>; Tullock, Cristel (ADP) <cristel.tullock@sfgov.org>; Worsfold, Stephen (RET) <stephen.worsfold@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; Somera, Alisa (BOS) <alisa.somera@sfgov.org>; mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT) <David.Ries@sfcityatty.org>; Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>

Subject: FW: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force SPECIAL MEETING; 7:00 PM; Remote Meeting

Dear Parties and SOTF Members: This Sunshine Task Force meeting is a ***Special Meeting and will begin at 7:00 PM, not the usual 4:00 PM.***

Cheryl Leger

Assistant Clerk, Board of Supervisors

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From: SOTF, (BOS)
Sent: Thursday, September 22, 2022 11:22 AM
To: yulihuang@gmail.com; Steinberg, David (DPW) <david.steinberg@sfdpw.org>; Anonymous <arecordsrequestor@protonmail.com>; Jung, Charles (REG) <charles.jung@sfgov.org>; Arntz, John (REG)

<john.arntz@sfgov.org>; San Francisco Living Wage <sflivingwage@gmail.com>; gizellejane215@gmail.com; Fletcher, Karen (ADP) <karen.fletcher@sfgov.org>; Tullock, Cristel (ADP) <cristel.tullock@sfgov.org>; Worsfold, Stephen (RET) <stephen.worsfold@sfgov.org>
Cc: Young, Victor (BOS) <victor.young@sfgov.org>; Somera, Alisa (BOS) <alisa.somera@sfgov.org>; mark.price.wolf@sfcityatty.org; RIES, DAVID (CAT) <David.Ries@sfcityatty.org>; Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>
Subject: SOTF - Notice of Appearance, October 5, 2022 - Sunshine Ordinance Task Force; 4:00 PM; Remote Meeting

Good Morning:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance.***

Date: October 5, 2022

Location: Remote Special Meeting

Time: 7:00 p.m.

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

Complaints:

File No. 22013: Hearing Regarding Request for Reconsideration of Complaint 22013. Complaint filed by Yuli Huang against David Steinberg and Public Works for finding no violation of Administrative Code (Sunshine Ordinance), Section 67.21, by failing to respond to a public records request in a timely and/or complete manner.

File No. 22104: Hearing Regarding Request for Reconsideration of Complaint No. 22036: Complaint filed by Anonymous (ARE) against Charles Jung (Elections Commission) for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.25, by failing to respond to an Immediate Disclosure Request in a timely and/or complete manner.

File No. 22030: Complaint filed by Gizelle Rabi and Karl Kramer against Karen Fletcher and the Adult Probation Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21 by failing to respond to a request for public records in a timely and/or complete manner.

File No. 21148: Complaint filed by Jordan Santagata and Karl Kramer against the San Francisco Employees' Retirement System for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, 67.24, and 67.25 and California Public Records Act, Section(s) 6254.26, by failing to respond to a request for public records in a timely and/or complete manner.

For inclusion in the agenda packet, supplemental/supporting documents must be received by ***5:00 PM, September 29, 2022.***

Cheryl Leger

Assistant Clerk, Board of Supervisors

Tel: 415-554-7724

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Leger, Cheryl (BOS)

From:	SOTF, (BOS)
Sent:	Thursday, October 20, 2022 8:58 AM
To:	chesa@chesaboudin.com
Cc:	Matt Yankee; Leger, Cheryl (BOS); Calvillo, Angela (BOS)
Subject:	SOTF - Notice of Hearing- November 2, 2022 at 4:00 PM - Sunshine Ordinance Task Force

Good Afternoon:

You are receiving this notice because you are named as a Complainant or Respondent in the following complaints scheduled before the Sunshine Ordinance Task Force to: 1) hear the merits of the complaint; 2) issue a determination; and/or 3) consider referrals from a Task Force Committee. ***Please confirm your attendance for this hearing with the Sunshine Task Force Administrator at sotf@sfgov.org.***

Date: November 2, 2022

Location: Remote Meeting

Time: 4:00 p.m.

(Please note that discussion of complaints will not begin earlier that 5:00 p.m. Copies of the agenda with login information will be provided when finalize by October 28, 2022.)

Complainants: Your attendance is required for this meeting/hearing.

Respondents/Departments: Pursuant to Section 67.21 (e) of the Ordinance, the custodian of records or a representative of your department, who can speak to the matter, is required at the meeting/hearing.

If you would like to provide any additional supplemental/supporting documents related to the complaint they must be received by ***5:00 pm, October 26, 2022,*** for inclusion in the agenda packet. Please be sure to reference the complaint number when submitting documents.

Complaints:

- **File No. 22013: Hearing Regarding Request for Reconsideration of Complaint 22013.** Complaint filed by Yuli Huang against David Steinberg and Public Works for finding no violation of Administrative Code (Sunshine Ordinance), Section 67.21, by failing to respond to a public records request in a timely and/or complete manner.

- **File No. 21109: Hearing Regarding Request for Reconsideration of Complaint 18086.** Complaint filed by Mark Sullivan against the Mission Dolores Green Benefit District Formation Committee for allegedly violating Administrative Code (Sunshine Ordinance), Section 67.14, by failing to allow video and audio recording filming and still photography of a policy body.

- **File No. 22030**: Complaint filed by Gizelle Rabi and Karl Kramer against Karen Fletcher and the Adult Probation Department for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21 by failing to respond to a request for public records in a timely and/or complete manner.

- **File No. 21148**: Complaint filed by Jordan Santagata and Karl Kramer against the San Francisco Employees' Retirement System for allegedly violating Administrative Code (Sunshine Ordinance), Section(s) 67.21, 67.24, and 67.25 and California Public Records Act, Section(s) 6254.26, by failing to respond to a request for public records in a timely and/or complete manner.

- **File No. 21086:** Complaint filed by Anonymous against District Attorney Chesa Boudin and the Office of the District Attorney for allegedly violating Administrative Code (Sunshine Ordinance), Sections 67.21, 67.26, 67.27, 67.25, 67.24 and California Government Code 6254.5 by failing to respond to a public records request in a timely and/or complete manner.

Victor Young
Assistant Clerk, Board of Supervisors


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