

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-Built) 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. R-1: TRAFFIC CONTROL FOR ROADWAY WORK**

- A. The contract lump sum price paid for traffic control work includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals (including traffic water-filled barriers and flag persons) 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 control 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 control 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.

2.2 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.

2.3 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.

2.4 **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.

2.5 **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.

2.6 **Bid Item No. R-6: 10-INCH THICK CONCRETE BASE**

- A. 10-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-7: 8-INCH THICK CONCRETE PAVEMENT, GUTTER, OR PARKING STRIP

- A. 8-Inch Thick Concrete Pavement, Gutter, or Parking Strip 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 gutter or parking strip work and may increase or decrease measurements shown on the Drawings or establish new concrete work in the field.
- D. When concrete pavement, gutter, or parking strip 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.

2.8 Bid Item No. R-8: 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-9: RESET EXISTING GRANITE CURB

- A. Reset Existing Granite Curb will be measured for payment by the linear foot along the face of curb, and will be paid for at the Contract unit price. The bid item shall include removal of the existing granite curb slabs, cleaning of granite, excavation, backfill and

compaction of subgrade and resetting granite to proper grade.

- B. The City Representative may determine exact locations of existing granite curb to be reset, and may increase or decrease measurements shown on the Drawings or establish additional sections of existing granite curb to be reset in the field.

2.10 **Bid Item No. R-10: 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.

2.11 **Bid Item No. R-11: 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.

2.12 **Bid Item No. R-12: 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.

2.13 **Bid Item No. R-13: PULL BOX REPLACEMENT 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.

2.14 **Bid Item No. R-14: PULL BOX REPLACEMENT TYPE III (CONTINGENCY BID ITEM)****

- A. Payment for furnishing and installing Pull Box Type III, 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.

2.15 **Bid Item No. R-15: 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.

2.16 **Bid Item No. R-16: ADJUST CITY-OWNED HYDRANT AND WATER MAIN 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.

2.17 **Bid Item No. R-17: RECONSTRUCT CITY-OWNED HYDRANT AND WATER MAIN VALVE BOX CASTING COVER TO GRADE (CONTINGENCY BID ITEM)****

- A. At locations of street resurfacing, the number and locations of water main valve box castings to be reconstructed 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. Reconstruction of existing water main valve box castings will be measured for each casting satisfactorily reconstructed. Refer to Section 32 17 53.
- C. At locations of street base, parking strip, gutter, sidewalk, and curb ramp construction/reconstruction, reconstruction of water main valve box castings to new grade will be considered to be Incidental Work, and the number of castings to be reconstructed 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.

2.18 **Bid Item No. R-18: TEMPORARY TREE PROTECTION (CONTINGENCY BID ITEM)****

- A. Temporary Tree Protection will be measured for payment by the number of each temporary tree protection installed at locations indicated on plans, as specified in Section 01 56 39 – Temporary Tree and Plant Protection, and will be paid for at the Contract unit price per each as stated in the Schedule of Bid Prices.
- B. Temporary Tree Protection will include full compensation for furnishing all labor, materials, equipment, and all other work necessary for providing temporary tree protection for existing trees and specified oversight where excavation is occurring within specified limits described in Section 01 56 39 – Temporary Tree and Plant Protection.
- C. General Provisions, Section 9.04.B and 9.04.C, do not apply to this Bid Item. Quantities may vary by more or less than 25%. The unused portion of this Bid Item shall be credited to the City.

2.19 **Bid Item No. R-19: MOBILIZATION FOR ROADWAY WORK (Maximum 3% of the Sum of Bid Items R-1 through R-18)**

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

2.20 **Bid Item No. R-20: DEMOBILIZATION FOR ROADWAY WORK (Maximum 2% of the Sum of Bid Items R-1 through R-18)**

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

2.21 **Bid Item No. R-21: ALLOWANCE FOR AS-NEEDED TRANSIT SUPPORT PROVIDED BY CONTRACTOR**

A. Refer to Section 01 21 00 – Allowances.

2.22 **Bid Item No. R-22: ALLOWANCE FOR AS-NEEDED OVERHEAD CONTACT SYSTEM (OCS) SUPPORT PROVIDED BY CONTRACTOR**

A. Refer to Section 01 21 00 – Allowances.

2.23 **Bid Item No. R-23: ALLOWANCE FOR PARTNERING FACILITATION AND RELATED COSTS**

A. Refer to Section 01 21 00 – Allowances.

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

A. The contract lump sum price paid for traffic routing work for sewer 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.

B. 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.

2.25 **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.

2.26 **Bid Item No. SW-3: 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.

2.27 **Bid Item No. SW-4: CONCRETE MANHOLE FOR 27-INCH TO 48-INCH DIAMETER SEWERS WITH FRAME AND COVER (PER SFDPW STANDARD PLAN 87,182)**

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.

- 2.28 **Bid Item No. SW-5: MODIFIED BOX MANHOLE FOR CONNECTION TO 3'X5' BRICK SEWER WITH FRAME AND COVER (PER SFDPW STANDARD PLAN 87,184 AND CAN BE USED AS AN INSERTION PIT FOR THE LINER)**
- A. Modified concrete manhole, including new frame and cover, shall be constructed as shown in contract drawings, SFDPW Standard Plans 87,184, and as specified in Section 33 33 30. Modified concrete manhole shall be paid for at the unit bid price for each manhole complete in place and satisfactorily constructed.
 - B. This manhole location can be used as an insertion pit for the liner. However, the location of the manhole must be approved by the City Representative prior to construction.
- 2.29 **Bid Item No. SW-6: PRECAST MANHOLE ON EXISTING BRICK SEWER WITH FRAME AND COVER (PER SFDPW STANDARD PLAN 87,185)**
- A. Precast manhole on existing brick sewer, including new frame and cover, shall be constructed as shown in contract drawings, SFDPW Standard Plans 87,184, and as specified in Section 33 33 30. Modified concrete manhole shall be paid for at the unit bid price for each manhole complete in place and satisfactorily constructed.
 - B. This manhole location can be used as an insertion pit for the liner. However, the location of the manhole must be approved by the City Representative prior to construction.
- 2.30 **Bid Item No. SW-7: CLEAN AND MORTAR EXISTING MANHOLE RISER**
- A. Cleaning and mortaring existing manhole with 1-inch thick single component microsilica enhanced fiber reinforced wet spray mortar will be measured for payment by the number of each satisfactorily completed in place as specified in Section 33 33 00 will be paid for at the unit price bid therefor.
- 2.31 **Bid Item No. SW-8: REMOVAL OF RAT WALK INSIDE 3'X5' EGG-SHAPED BRICK SEWERS PRIOR TO LINING**
- A. Removal of rat walk (1 layer of bricks) from inside the existing 3'x5' brick sewers prior to lining sewers, approximately 100 linear feet in length, satisfactorily performed, as specified in Section 33 33 00 – Sanitary Sewerage Utilities, Section 33 01 30.73 – Cured in Place Liner Pipe, and identified on the Contract Drawings, including all incidental work will be paid for at the at the unit price bid therefor.
- 2.32 **Bid Item No. SW-9: BYPASSING MAIN SEWER FLOW RELATED TO THE LINING AND MORTAR WORK**
- A. Bypassing main sewer flow prior to lining and mortar work, satisfactorily performed, as specified in Sections 33 33 00 and 33 01 30.73 including all incidental work shall be paid for at the lump sum price bid therefor.
- 2.33 **Bid Item No. SW-10: BYPASSING SIDE SEWER AND CULVERT FLOW RELATED TO LINING WORK (CONTINGENCY BID ITEM)****
- A. Bypassing side sewer flow prior to lining work, satisfactorily performed, as specified in Sections 33 33 00 and 33 01 30.73 including all incidental work shall be paid for at the unit price bid therefor.
 - B. If side sewer vent cannot be accessed for flow bypassing, Contractor may use the

pothole bid item near curb to access pipe. Contractor can insert camera at this time to inspect the side sewer. The side sewer replacement bid item is available to repair side sewer segments removed to bypass flow.

- 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.

2.34 **Bid Item No. SW-11: 12-INCH DIAMETER VCP SEWER ON CRUSHED ROCK BEDDING WRAPPED IN GEOTEXTILE FABRIC**

- A. VCP sewer on crushed rock bedding wrapped in geotextile fabric 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.

2.35 **Bid Item No. SW-12: MORTAR EXISTING 3'X5' BRICK SEWER WITH SINGLE COMPONENT MICROSilICA ENHANCED, FIBER REINFORCED WET SPRAY MORTAR, MINIMUM 1-INCH THICK**

- A. Spray entire circumference of existing 3'x5' brick sewer with 1-inch thick single component microsilica enhanced fiber reinforced wet spray mortar, satisfactorily constructed 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.

2.36 **Bid Item No. SW-13: 27-INCH DIAMETER VCP SEWER ON CRUSHED ROCK BEDDING WRAPPED IN GEOTEXTILE FABRIC**

- A. VCP sewer on crushed rock bedding wrapped in geotextile fabric 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.

2.37 **Bid Item No. SW-14: LINE EXISTING 3'X5' EGG-SHAPED BRICK SEWER WITH CURED-IN-PLACE LINER (CIPL)**

- A. Lining of sewer with Cured-in-Place Liner will be measured horizontally along the centerline for payment by the number to each linear foot satisfactorily lined, complete in placed, as specified in Section 33 01 30.73 and will be paid for at the price bid per linear foot.

2.38 **Bid Item No. SW-15: LINE EXISTING 18-INCH DIAMETER IRON STONE PIPE (ISP) SEWR WITH CURED-IN-PLACE LINER (CIPL) (CONTINGENCY BID ITEM)****

- A. Lining of sewer with Cured-in-Place Liner will be measured horizontally along the centerline for payment by the number to each linear foot satisfactorily lined, complete in placed, as specified in Section 33 01 30.73 and will be paid for at the price bid per linear foot.
- B. In order to measure the length of the existing 18-inch ISP sewer accurately, video inspection is needed (Bid Item SW-16) in prior to manufacturing the liner. This length needs to be approved by the City Representative prior to manufacturing the liner.

- 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.

2.39 **Bid Item No. SW-16: CLEAN AND TELEVIEW EXISTING SEWERS PRIOR TO PERFORMING REHABILITATION SEWER WORK**

- A. Cleaning and televising existing sewers prior and after lining work, satisfactorily performed, as specified in Sections 33 33 00 and 33 01 30.73, including all incidental work will be paid for at the lump sum price bid therefor.

2.40 **Bid Item No. SW-17: REMOVE PROTRUDING SIDE SEWERS OR OBSTRUCTIONS REQUIRING INTERNAL REAMING FROM EXISTING SEWER PRIOR TO LINING WORK**

- A. Cleanly cutting and removing segment of side sewer or culvert that protrudes beyond the inner wall of sewer main and other obstructions requiring internal reaming prior to the lining work, satisfactorily complete, as specified in Section 33 31 30.73, including all incidental work will be paid for at the unit price bid under this bid item.

2.41 **Bid Item No. SW-18: INTERNALLY REINSTATE SIDE SEWERS, CULVERTS, AND OTHER CONNECTIONS IN LINED MAIN SEWER (CONTINGENCY BID ITEM)****

- A. Internally reinstating connections in lined main sewers will be measured for payment by the number of each connection (regardless of size) satisfactory reinstated, as specified in Section 33 33 00 and 33 01 30.73, 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.

2.42 **Bid Item No. SW-19: 6-INCH OR 8-INCH DIAMETER SIDE SEWER CONNECTIONS 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.

2.43 **Bid Item No. SW-20: TELEVISION INSPECTION OF EXISTING 6-INCH OR 8-INCH DIAMETER SIDE SEWERS AND 10-INCH DIAMETER CULVERTS LOCATED WITHIN LIMITS OF MAIN SEWER CONSTRUCTION AND REHABILITATION (CONTINGENCY BID ITEM)****

- A. Television inspection of existing side sewer and culverts 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. 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.

- 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.

2.44 **Bid Item No. SW-21: CONSTRUCTION OR REPLACEMENT OF 6-INCH OR 8-INCH DIAMETER SIDE SEWER LOCATED WITHIN LIMITS OF MAIN SEWER CONSTRUCTION AND REHABILITATION (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 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.

2.45 **Bid Item No. SW-22: CONSTRUCTION OR REPLACEMENT OF 10-INCH DIAMETER VCP CULVERT WITHIN SEWER WORK LIMITS (CONTINGENCY 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.

2.46 **Bid Item No. SW-23: STANDARD CONCRETE CATCH BASIN WITHOUT CURB INLET, WITH CAST IRON TRAP, AND WITH FRAME AND GRATING (PER SFDPW STANDARD PLAN 87,188 & 87,193)**

- A. Concrete catch basin without curb inlet, with cast iron trap, and with new frame and grating 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.

2.47 **Bid Item No. SW-24: 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.

2.48 **Bid Item No. SW-25: POST-CONSTRUCTION TELEVISION INSPECTION OF NEWLY CONSTRUCTED MAIN SEWERS**

- A. Post-construction television inspection of newly constructed main sewers conducted in accordance with National Association of Sewer Service Companies (NASSCO) Pipeline Assessment & Certification Program (PACP), as specified in Section 33 33 00, including all incidental work will be paid for at the lump sum price bid therefor.

2.49 **Bid Item No. SW-26: POST-CONSTRUCTION TELEVISION INSPECTION OF NEWLY REHABILITATED MAIN SEWERS AND INCLUDING SPRAY MORTAR SEGMENT**

- A. Post-construction television inspection of newly lined main sewers and including spray mortar segment conducted in accordance with National Association of Sewer Service Companies (NASSCO) Pipeline Assessment & Certification Program (PACP), as specified in Section 33 33 00, including all incidental work will be paid for at the lump sum price bid therefor.

2.50 **Bid Item No. SW-27: 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 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.

2.51 **Bid Item No. SW-28: RECONSTRUCT PAVEMENT OUTSIDE OF SEWER T-TRENCH LIMIT AND OUTSIDE OF BASE REPAIR 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 T-trench limit as required per "Regulations for Excavation and Restoring Streets in San Francisco" and outside base repair work limits per R-drawings or as directed by the City Representative, 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, and restoration of ACWS shall be considered as Incidental Work.
- 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.

2.52 **Bid Item No. SW-29: RECONSTRUCT PAVEMENT OUTSIDE OF SEWER T-TRENCH LIMIT WITH 2-INCH THICK ASPHALT CONCRETE WEARING SURFACE PER EXCAVATION CODE AS DIRECTED BY THE CITY REPRESENTATIVE (CONTINGENCY BID ITEM)****

- A. 2-inch thick asphalt concrete wearing surface will be measured for payment by the

square foot outside the sewer T-trench limit as required per “Regulations for Excavation and Restoring Streets in San Francisco” or as directed by the City Representative, 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, and restoration of ACWS shall be considered as Incidental Work.

- 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.

2.53 **Bid Item No. SW-30: FULL DEPTH GRINDING OF 2-INCH THICK ASPHALT CONCRETE WEARING SURFACE AS NECESSARY PER EXCAVATION CODE AS DIRECTED BY THE CITY REPRESENTATIVE (CONTINGENCY BID ITEM)****

- A. Full depth grinding of 2-inch thick asphalt concrete wearing surface will be measured for payment by the square foot as required per “Regulations for Excavation and Restoring Streets in San Francisco” as directed by the City Representative, 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, and restoration of ACWS shall be considered as Incidental Work.
- 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.

2.54 **Bid Item No. SW-31: EXPLORATORY HOLES OR POTHOLE (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 only 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 cubic yard. Exploring hole or pothole dimensions is typically 4-feet by 4-feet by 6-feet, but may vary in size.
- 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 cubic yard satisfactorily completed, as indicated in the Schedule of Bid Prices.
- E. 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.

2.55 **Bid Item No. SW-32: DESIGN OF STRUCTURAL SUPPORT FOR SFWD FACILITIES WITHIN SEWER TRENCH**

- A. Design of support structures for water department facilities encountered within the sewer trench, including details and calculations as specified in Section 01 41 28 – Protection of

Existing Water and AWSS Facilities, will be paid for at the lump sum price bid therefor.

2.56 **Bid Item No. SW-33: MOBILIZATION FOR SEWER AND DRAINAGE WORK (MAXIMUM 3% OF THE SUM OF BID ITEMS SW-1 THROUGH SW-32)**

- A. Mobilization and demobilization will be paid based on the entire contract, not individual locations.
- 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 this Bid Item.

2.57 **Bid Item No. SW-34: DEMOBILIZATION FOR SEWER AND DRAINAGE WORK (MAXIMUM 2% OF THE SUM OF BID ITEMS SW-1 THROUGH SW-32)**

- A. Mobilization and demobilization will be paid based on the entire contract, not individual locations.
- B. Under demobilization, when the City Representative is satisfied that the Contractor is diligently pursuing commencement of work including submittal of final documents (as-built drawings and post construction TV inspection DVDs) will be paid the amount under this Bid Item.
- C. Any extension of the Contract Time that may be granted will not of itself constitute grounds for a claim for additional payment under this Bid Item.

2.58 **Bid Item No. SW-35: ALLOWANCE FOR DE-ENERGIZING AND RE-ENERGIZING MUNI OVERHEAD WIRES, RELOCATION OF MUNI OVERHEAD WIRES, AND PROVIDING SERVICES OF MUNI INSPECTORS FOR SEWER AND DRAINAGE WORK**

- A. Allowance amount will be paid as directed by the City Representative for de-energizing and re-energizing MUNI overhead wires, relocation of MUNI overhead wires, and providing services of MUNI inspectors for sewer and drainage work. Pricing and procedural matters for this Allowance work will be governed by Article 6 of the General Conditions, Document 01210.

2.59 **Bid Item No. SW-36: ALLOWANCE TO PERFORM NECESSARY WORK DUE TO UNFORESEEN CONDITIONS RELATED TO SEWER WORK**

- A. Refer to Section 01 21 00 – Allowances.

2.60 **Bid Item No. SW-37: ALLOWANCE FOR UNFORESEEN ENVIRONMENTAL WORK**

- A. Refer to Section 01 21 00 – Allowances.

THE FOLLOWING WORK SHALL BE DONE AS INCIDENTAL WORK TO THE SW BID ITEMS ABOVE:

1. Investigating, locating by dye-testing, abandoning inactive side sewers, if any, and rodding of side sewers.
2. The channelization of the cunette of new manholes and existing manholes.

3. Restoration of trench with temporary hot patch ACWS prior to resurfacing with final layer of asphalt concrete wearing surface.
4. Connections to and between sewers, structures, and culverts.
5. Side sewer connections to structures.
6. Cleaning existing sewers by flushing with high velocity hydro-cleaning equipment prior to excavation and removal.
7. Removing and/or abandoning existing sewers and structures.
8. Cleaning of existing catch basins and storm water inlets to remain located within the project limit and to be remained.
9. Extension and cutting of side sewer connections to the new pipe within the main sewer trench.
10. Furnishing and installing cleanout caps for cast iron water traps in existing catch basins to be remained.
11. Saw-cutting, removing and disposing of existing pavement.
12. Street excavation, backfilling and compaction, satisfactorily performed.
13. Restoration of concrete base (T-trench restoration for all streets as detailed on SW-Drawing), parking strip, concrete curb, concrete pavement, concrete sidewalk, median islands, and landscaping within the sewer trench.
14. Add temporary AC until final pavement of concrete roadway.
15. Removal or grinding of temporary ACWS within the sewer trench prior to street pavement renovation.
16. 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.
17. All cost of work in the remaining portions of Sections 31 23 33, 32 12 66 and 33 33 00 shall be included as Incidental Work in the items of the bid schedule to which such work is appurtenant.
18. At locations of street base reconstruction, base repair, or concrete street reconstruction, adjustment of castings to new grade will be considered Incidental Work and the number of castings to be adjusted will not be measured for the payment.
19. Prior to plugging and filling, provide a television inspection of existing sewer to locate active side sewers.
20. Plug existing culvert, main sewer, and abandon existing manholes and catch basins.
21. Preparation of subgrade for paving to proper grade, including excavation, backfilling, and compacting shall be considered Incidental to the pavement restoration work.
22. Spray paint to be provided by Contractor to the City Representative to make all necessary markings at the project site.
23. Television inspection of existing sewer prior to all work.
24. Bypassing main sewer and side sewer flow if necessary.
25. Removal and disposal of existing asphalt concrete, bricks, concrete, soil, and debris prior to lining work.
26. Preserving Survey Monuments per City Order No. 176,707.
27. Re-establishing City Survey Monuments per City Order No. 176,707, if disturbed, and for which a bid item has not been provided.
28. Supporting and working around existing Governmental utilities encountered within the limits of the sewer trench, unless otherwise specified in the contract documents.
29. Supporting and working around San Francisco Water Department (SFWD) and Auxiliary Water Supply System (AWSS) facilities located within the sewer trench.
30. CDF Bedding support for water main encountered in sewer trench.
31. 27" diameter VCP connection to existing concrete manhole.

- 32. Installing temporary rubber removal plug.
- 33. All cost involving restoring landscaping, sidewalk, curb, and pavement restoration near South Van Ness Avenue and Howard Street (drive thru coffee shop) due to sewer work.

2.61 **BID ITEM CS-1: 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. 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.

2.62 **BID ITEM CS-2: 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 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 included 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.

2.63 **BID ITEM CS-3: 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. 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 permitted 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 included 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.

2.64 **BID ITEM CS-4: 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. 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 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 included 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.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION