

CITY OF PACIFIC GROVE

SEWER COLLECTION SYSTEM CIPS 3, 4, 5, AND 8 IMPROVEMENTS PROJECT

NOTICE TO CONTRACTORS:

Bid Opening Date: April 10, 2020 at 2:00 PM

ADDENDUM NO. 3

The following changes are hereby made to the project plans, specifications, and contract documents:

- (1) Replace the following attached Technical Specification sections in their entirety:
 - a. Technical Table of Contents
- (2) Add attached Section 01 20 00, Price and Payment Procedures, which was inadvertently missing from the original Contract Documents.
- (3) To Section 01 11 00, Summary of Work, delete the extra Page 5 that follows Page 5 End of Section.
- (4) To Section 01 35 00, Special Project Procedures, delete the extra Page 7 that follows Page 7 End of Section.

Bidder shall sign, date, and include Addendum No. 3 in the bid proposal.

by: _____
Bidder

_____ Date

TABLE OF CONTENTS

SPECIFICATIONS GROUP

GENERAL REQUIREMENTS SUBGROUP

Division 01 – General Requirements

01 11 00	Summary of Work
01 20 00	Price and Payment Procedures
01 30 00	Administrative Requirements
01 33 00	Submittal Procedures
01 50 00	Temporary Facilities and Controls
01 55 26	Traffic Control
01 57 23	Temporary Storm Water Pollution Control
01 60 00	Product Requirements
01 70 00	Execution and Closeout Requirements
01 71 33	Protection of Adjacent Construction

FACILITY CONSTRUCTION SUBGROUP

Division 02 – Existing Conditions

02 21 00	Surveys
02 41 00	Demolition
02 42 00	Removal and Salvage of Construction Materials

Division 03 – Concrete

03 30 00	Cast-in-Place Concrete
03 60 00	Grouting
03 80 00	Concrete Cutting and Boring

Divisions 04 to 08 – Not Used

Division 09 – Finishes

09 97 00	Special Coatings
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Divisions 10 to 14 – Not Used

FACILITY SERVICES SUBGROUP

Divisions 21 to 28 – Not Used

SITE AND INFRASTRUCTURE SUBGROUP

Division 30 – Not Used

Division 31 – Earthwork

31 00 00	Earthwork
31 11 00	Clearing and Grubbing
31 23 33	Trenching and Backfilling
31 40 00	Shoring and Underpinning

Division 32 – Exterior Improvements

- 32 12 00 Flexible Paving
- 32 13 13 Concrete Paving
- 32 17 23 Pavement Markings

Division 33 – Utilities

- 33 31 00 Sanitary Utility Sewerage Piping
- 33 39 13 Sanitary Utility Sewerage Manholes, Frames, and Covers
- 33 41 00 Stormwater Utility Drainage Piping
- 33 42 33 Stormwater Curbside Drains and Inlets

Divisions 34 and 35 – Not Used

Process Equipment Subgroup

Division 40 - 48 – Not Used

SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

- 1.01 This Section describes the methods of measurement and payment for the specific bid items. All other provisions of the Contract Documents which relate to measurement and payment are applicable, except that where conflicts occur between this section and other provisions of the technical specifications or reference specifications, this measurement and payment section shall prevail.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.01 GENERAL

- A. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- B. Payment for all bid items shall include full compensation for all equipment, materials, labor, tools, trucking, and all other incidental work necessary to construct complete and operational systems which conform to the Contract Documents.

3.02 MEASUREMENT AND PAYMENT FOR BID ITEMS

- A. All lengths shall be measured in a horizontal plane (plan view dimensions), unless otherwise specified. All areas measured shall be based on the specified measurement definition included in each bid item description.
- B. All work shown, described, or otherwise required by the Contract Documents, shall be included within the given bid items.
- C. Basis for the submitted bid shall be on the quantities shown for the items on the Bid Sheet.
- D. Unit definitions of Measurement and Payment
 - 1. "Lump Sum", or "LS", shall mean a single Lump Sum Payment for the identified bid item. Partial payments may be made, based on the Engineer's estimate of the percent completion of the specified item. Provide schedule of values for lump sum bid items with pay designation of "SV" on the bid schedule. Refer to Section 01 30 00, Administrative Requirements, Para. 1.04 for submittal requirements for Schedule of Values.
 - 2. "Each" shall mean the actual number of identified bid items provided. Payment for the identified bid item will be based on providing each item, complete and in place in accordance with the contract documents.

3. Measurable units of quantity expressed in “Linear Feet” or “LF”; “Cubic Yard or CY”; “Ton”; “SF” or “SY” shall mean the number of indicated measurable quantities of the bid item. Payment for the identified bid item will be based on actual and measured quantities of the bid item installed.
4. For quantity changes for unit price work, refer to the General Conditions, Paragraph 13.03, and the Supplemental Conditions, Paragraph 14.7.

E. Final Pay Quantities.

1. Bid items that are designated a Final Pay Quantity bid item by having the notation (F) or (S-F) shown on the bid sheet or by designation in this Section 01 20 00, Measurement and Payment.
2. The quantity shown on the bid sheet for a Final Pay Quantity shall be the final pay quantity used for the purpose of payments, unless the dimensions of any portion of the item are modified by the Engineer, or the item or any portion of the item is eliminated.
3. If the dimensions of any portion of a Final Pay Quantity bid item are changed, and the changes result in an increase or decrease in the quantity of the item, the final pay quantity will be revised by the change in quantity.
4. If a portion of a Final Pay Quantity item, or the item is eliminated, the final pay quantity will be adjusted by the quantity eliminated.
5. The estimated quantity shown on the bid sheet for a Final Pay Quantity bid item shall be considered as an estimate only and no guarantee is made that a quantity computed based on the details and the plans, will equal the estimated quantity shown on the bid sheet. No allowance is made in the event that a computed quantity does not equal the estimate quantity.
6. In the case of a discrepancy between a quantity shown on the plans, and an estimated quantity shown on the bid sheet for a Final Pay Quantity item, payment will be based on the quantity shown on the bid sheet.

BASE BID

The base bid is comprised of the following:

Bid Item No. 1 – Mobilization/Demobilization

- A. Units: Lump Sum
- B. Measurement: Partial payments based on Engineer’s determination. Payment: Payment includes full compensation for all work required to complete the contract requirements for mobilization/demobilization.
 1. No payment for mobilization/demobilization work will be made until all the listed items have been completed to the satisfaction of the City.
 2. Contractor shall be compensated no more than 70% of total bid value for Mobilization/Demobilization for mobilization; the remaining 30% of the total bid value will be paid for as part of the Final Payment.
- C. Scope of bid item: Mobilization/demobilization includes, but is not limited to the following:

1. Mobilization/demobilization at the Project sites; under this single bid item; no additional compensation will be provided for separate mobilization and demobilization activities to the various CIP project sites.
2. Obtaining all required bonds, insurance, and permits.
3. Compliance with State Board funding requirements including Iron and Steel Requirements, Project Signage and other items specified in State Board Agreement.
4. Posting all Cal-OSHA required notices and establishment of safety programs and injury and illness prevention plan (IIPP).
5. Moving onto the site of all Contractors' plant and equipment required for project operations.
6. Arranging for and erection of Contractor's work areas and storage yards.
7. Coordination with utility companies during construction activities adjacent to utility agency facilities.
8. Providing and installing temporary communication facilities.
9. Potholing existing utilities to verify locations of subsurface utilities and tie-in points, pothole reports.
10. Providing and installing construction water and on-site sanitary facilities.
11. Designation of the Contractor's superintendent who will be present at the job site full time.
12. Documenting construction progress, including pre- and post-construction photographs, and progress photographs.
13. Preparing and submitting field record drawings.
14. Removing equipment, personnel, temporary facilities, and other construction resources at job completion.
15. Site cleanup.
16. All other incidental work as specified in Division 01 of the Specifications, and as necessary to complete mobilization/demobilization in accordance with the Contract Documents.

Bid Item No. 2 - Construction Survey

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for construction survey.
- D. Scope of bid item: Construction survey includes, but is not limited to the following:
 1. All survey Work related to sanitary sewer, pavement and ADA ramp works as described in Section 02 21 00, Surveys, and the Drawings.
 2. Replacement of property corner markers, including proper recordation.
 3. Protection in place, and restoration of survey monuments.
 4. Pothole surveys and pothole reports.

5. All other incidental work necessary to complete construction survey in accordance with the Contract Documents.

Bid Item No. 3 – Storm Water Pollution Control/SWPPP

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for storm water pollution control/SWPPP.
- D. Scope of bid item: storm water pollution control/SWPPP includes, but is not limited to the following:
 1. Proper management of storm water in accordance with local and State requirements, and Section 01 57 23, Temporary Storm Water Pollution Control.
 2. Single SWPPP preparation (one SWPPP for all CIP project sites), compliance with all SWPPP requirements including QSP inspections during construction. Complying with all reporting, monitoring, inspection and permitting requirements for protection of water quality.
 3. All other incidental work necessary to complete storm water pollution control/SWPPP in accordance with the Contract Documents.

Bid Item No. 4 - Sheeting, Shoring and Bracing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for sheeting, shoring and bracing.
- D. Scope of bid item: Work for sheeting, shoring and bracing includes, but is not limited to the following:
 1. Sheeting, shoring and bracing work inclusive of all CIP Project sites.
 2. Required fees, permits, plans, and submittals, prepared by California registered civil or structural engineer.
 3. Compliance with all requirements for Cal-OSHA construction safety in the excavation of trenches and pits, and in Section 31 23 33, Trenching and Backfilling.
 4. Trench excavation plans if required.
 5. Providing adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, which shall conform to the applicable construction safety orders.
 6. All other incidental work necessary to complete sheeting, shoring and bracing in accordance with the Contract Documents.

Bid Item No. 5 – Dewatering

- A. Units: Lump Sum (LS)

- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for dewatering.
- D. Scope of bid item: Work for dewatering includes, but is not limited to the following:
 - 1. Dewatering work at all CIP Project sites.
 - 2. Required plans and submittals.
 - 3. All labor, equipment and materials to perform dewatering, including pumps, generators, monitoring, alarms, and notifications, disposal plan, permits.
 - 4. Logging and reporting as required to document compliance with water quality goals/requirements.
 - 5. All other incidental work necessary to complete dewatering in accordance with the Contract Documents.

Bid Item No. 6 – Traffic Control

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for traffic control.
- D. Scope of bid item: traffic control includes, but is not limited to the following:
 - 1. Preparation of approved traffic control plans, inclusive of all CIP Project sites.
 - 2. Managing and notifying public and safety personnel (fire, police), utility services (US mail, garbage, etc.) of road closures, parking restrictions and other traffic related matters.
 - 3. Providing traffic control including flagmen, warning signs, cones, warning devices and other such labor, materials and equipment to provide traffic control for the Work.
 - 4. All other incidental work necessary to complete traffic control in accordance with the Contract Documents.

CIP-3

Bid Item No. 7A - 18" SS in Same Alignment as Existing – Pipe Bursting

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed sewer line, measured parallel to the ground slope along road surface.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.

- D. Scope of bid item: 18" SS in same alignment as existing – pipe bursting includes, but is not limited to the following:
1. HDPE Sanitary sewer pipe as shown on the drawings, adapters, connection to manholes shown, including access provisions for pipe bursting.
 2. Pipe bursting and HDPE pipe welding equipment, access/entry and pull pits.
 - 3.
 4. Re-connection of existing sewer laterals.
 5. Trenching, hand-digging, exposing, backfilling, compaction, including road surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 7. Control of surface waters.
 8. Verification of adjacent utilities.
 9. Mandrel, air testing and video inspection per Section 33 31 00.
 10. All other incidental work necessary to complete 18" SS in same alignment as existing – pipe bursting in accordance with the Contract Documents.

Bid Item No. 7B - 18" SS in Same Alignment as Existing – Open Trench

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed sewer line, measured parallel to the ground slope along road surface.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.
- D. Scope of bid item: 18" SS in same alignment as existing – open trench includes, but is not limited to the following:
1. HDPE Sanitary sewer pipe as shown on the drawings, adapters, connection to manholes shown.
 2. Removal of existing sanitary sewer as required for construction of new sewer.
 3. Re-connection of existing sewer laterals.
 4. Trenching, hand-digging, exposing, backfilling, compaction, including road surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 6. Control of surface waters.
 7. Verification of adjacent utilities.
 8. Mandrel, air testing and video inspection per Section 33 31 00.
 9. All other incidental work necessary to complete 18" SS in same alignment as existing – open trench in accordance with the Contract Documents.

Bid Item No. 8 - Replace Existing SS Manhole with New SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed replacements of existing sewer manholes with new 48" diameter SS manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, replace existing SS manhole with new SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace existing SS manhole with new SS manhole includes, but is not limited to the following:
 - 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover; remove existing manhole.
 - 2. Sewer manhole lining per Section 09 97 23.
 - 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 4. Aggregate base placed beneath manhole base.
 - 5. Control of surface waters.
 - 6. Verification of adjacent utilities.
 - 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 8. Leakage testing.
 - 9. All other incidental work necessary to complete replace existing SS manhole with new SS manhole in accordance with the Contract Documents.

Bid Item No. 9 - Replace Existing SS Manhole with New Drop SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed new 48" diameter drop SS manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, replace existing SS manhole with new drop SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace existing SS manhole with new drop SS manhole includes, but is not limited to the following:
 - 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover.
 - 2. Sewer manhole lining per Section 09 97 23.

3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
4. Control of surface waters
5. Verification of adjacent utilities.
6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
7. Leakage testing.
8. All other incidental work necessary to complete replace existing SS manhole with new drop SS manhole in accordance with the Contract Documents.

Bid Item No. 10 - Reconnect Existing Sewer Lateral to New Sewer

- A. Units: Each (EA)
- B. Measurement: The number of actually completed reconnections of existing sewer laterals to new sewer.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, reconnect existing sewer lateral to new sewer in accordance with the contract documents.
- D. Scope of bid item: reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer includes, but is not limited to the following:
 1. Couplings, pipe spools and fittings, wye fitting.
 2. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 3. Restoration of hardscaping, landscaping and other private property improvements impacted by construction.
 4. Control of surface waters.
 5. Verification of adjacent utilities.
 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 7. All other incidental work necessary to complete reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer in accordance with the Contract Documents.

Bid Item No. 11 - CIP 3 Sewer Bypassing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for sanitary sewer bypassing at this Project site.

- D. Scope of bid item: Work for CIP 3 sanitary sewer bypassing includes, but is not limited to the following:
1. Sewer bypassing work for construction at this CIP Project site.
 2. Required plans and submittals.
 3. All labor, equipment and materials to perform sewer bypassing, including pumps, generators, monitoring, alarms, and notifications.
 4. Logging and reporting as required to document safe and complete sewer bypassing with no sewage spills.
 5. All other incidental work necessary to complete CIP 3 sanitary sewer bypassing in accordance with the Contract Documents.

Bid Item 12 - Roadway Excavation

- A. Units: Cubic Yard (CY).
- B. Measurement:
1. Measurement for adjusted dimensions or eliminated portions shall be the actual volume of the specified adjustment.
 2. No payment will be made for roadway excavation outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the roadway excavation in accordance with the contract documents.
- D. Scope of bid item: roadway excavation includes, but is not limited to the following:
1. Excavating and removing existing pavement, asphalt dike, concrete, and base to subgrade, within the limits and extent shown on the drawings.
 2. Subgrade preparation, scarification, watering and re-compaction of upper 12 inches of subgrade.
 3. Erosion and dust control, control of surface waters.
 4. All other incidental work necessary to complete the roadway excavation in accordance with the Contract Documents.

Bid Item 13 - Hot Mix Asphalt (HMA)

- A. Units: Ton.
- B. Measurement:
1. Measurement for adjusted dimensions or eliminated portions shall be the actual weight of the specified adjustment.
 2. No payment will be made for HMA placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the hot mix asphalt in accordance with the contract documents.

- D. Scope of bid item: hot mix asphalt includes, but is not limited to the following:
1. Constructing hot mix asphalt to the limits and extent of shown on the drawings.
 2. Placement of tack coat over existing pavement.
 3. Erosion and dust control, control of surface waters.
 4. All other incidental work necessary to complete the hot mix asphalt in accordance with the Contract Documents.

Bid Item 14 - Slurry Seal

- A. Units: Square Yard (SQYD).
- B. Measurement: The actual square yard of coverage of slurry seal.
- C. No payment will be made for slurry seal placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- D. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the slurry seal in accordance with the contract documents.
- E. Scope of bid item: slurry seal includes, but is not limited to the following:
1. Providing the number of coats required per plans and specifications.
 2. All other incidental work necessary to complete slurry seal accordance with the Contract Documents.

Bid Item 15 - Place Hot Mix Asphalt Dike (Type A)

- A. Units: Linear Foot (LF).
- B. Measurement:
1. The actual amount of asphalt dike completed, measured longitudinally along the dike face.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the asphalt concrete dike – type A in accordance with the contract documents.
- D. Scope of bid item: place hot mix asphalt dike (type A) includes, but is not limited to the following:
1. Earthwork including excavation, subgrade preparation, and backfill.
 2. Hot mix asphalt for the dike, tack coat.
 3. Compliance with the HMA dike detail shown on the plans.
 4. Painting dike red (2-coats) where indicated on the plans.
 5. All other incidental work necessary to complete place hot mix asphalt dike (type A) in accordance with the Contract Documents.

Bid Item 16 - Cold Plane Asphalt Concrete Pavement (2")

- A. Units: Square Yard (SQYD).
- B. Measurement:

1. Measurement: The actual square yards of cold planing of existing roadway at depth specified.
 2. Removal/disposal of asphalt concrete removed.
 3. No payment will be made for cold planing outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the cold plane asphalt concrete pavement (2") in accordance with the contract documents.
- D. Scope of bid item: cold plane asphalt concrete pavement (2") includes, but is not limited to the following:
1. Cold planing 2" depth of existing asphalt concrete roadway within the limits shown.
 2. Erosion and dust control, control of surface waters.
 3. All other incidental work necessary to complete the cold plane asphalt concrete pavement (2") in accordance with the Contract Documents.

Bid Item 17 - Class 2 Aggregate Base

- A. Units: Cubic Yard (CY).
- B. Measurement: The actual cubic yards of installed Class 2 Aggregate Base.
- C. No payment will be made for Class 2 Aggregate Base placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- D. Payment includes full compensation for all furnishing, labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the Class 2 Aggregate Base in accordance with the contract documents.
- E. Scope of bid item: Class 2 Aggregate Base includes, but is not limited to the following:
1. Placement, moisture conditioning and compaction of aggregate base.
 2. Erosion and dust control, control of surface waters.
 3. All other incidental work necessary to complete the Class 2 Aggregate Base in accordance with the Contract Documents.

Bid Item 18 - Roadside Sign – One Post

- A. Units: Each (EA).
- B. Measurement: The number of roadside signs actually provided.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to Roadside Sign – One Post in accordance with the contract documents.
- D. Scope of bid item: Roadside Sign – One Post includes, but is not limited to the following:
1. New signs and posts as indicated on the drawings.

2. All other incidental work necessary to Roadside Sign – One Post in accordance with the Contract Documents.

Bid Item 19 - Adjust Valve Box Frame and Cover to Grade

- A. Units: Each (EA)
- B. Measurement: The number of actually completed adjustment of valve box frames/covers to grade.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, adjust valve box frame and cover to grade in accordance with the contract documents.
- D. Scope of bid item: adjust valve box frame and cover to grade includes, but is not limited to the following:
 1. Coordination with Cal AM water operations staff.
 2. Masking and protecting existing valve box frame and cover during cold planing and HMA placement operations.
 3. Adjusting the valve box frame and cover to grade with new concrete collar.
 4. All other incidental work necessary to complete adjust valve box frame and cover to grade in accordance with the Contract Documents.

Bid Item 20 - Adjust Monument Cover to Grade

- A. Units: Each (EA)
- B. Measurement: The number of actually completed adjustment of monument covers to grade.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, adjust monument cover to grade in accordance with the contract documents.
- D. Scope of bid item: adjust monument cover to grade includes, but is not limited to the following:
 1. Coordination with City of Pacific Grove public works staff.
 2. Masking and protecting existing monument cover during cold planing and HMA placement operations.
 3. Adjusting the monument cover to grade with new concrete collar.
 4. Protecting, restoring survey monument in accordance with California State law.
 5. All other incidental work necessary to complete adjust monument cover to grade in accordance with the Contract Documents.

Bid Item 21, 22 - 6" or 8" Thermoplastic Traffic Stripe

- A. Units: Linear Foot (LF).
- B. Measurement:
 1. The actual length of striping completed, measure along the center of the stripe.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and

in place, the 6" or 8" thermoplastic traffic stripe in accordance with the contract documents.

- D. Scope of bid item: 6" or 8" thermoplastic traffic stripe includes, but is not limited to the following:
1. Removal of conflicting striping
 2. Layout of new striping.
 3. Thermoplastic striping material as specified.
 4. Providing the number of coats required and specified.
 5. Installation of pavement markers per Cal Trans standard details.
 6. All other incidental work necessary to complete : 6" or 8" thermoplastic traffic stripe in accordance with the Contract Documents.
- E. Temporary traffic stripes or delineators installed and removed as part of the construction traffic control is included in the price paid for Traffic Control, and is not included in this bid item.

Bid Item 23 - Thermoplastic Pavement Marking

- A. Units: Square Foot (SF).
- B. Measurement: The actual square feet of markings completed. Area quantities for the standard markings are included in the Caltrans Standard Plans.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the thermoplastic pavement marking in accordance with the contract documents.
- D. Scope of bid item: thermoplastic pavement marking includes, but is not limited to the following:
1. Removal of conflicting markings
 2. Layout of new markings, providing stencils.
 3. Arrows, letters, symbols, crosswalk hatching, and other painted pavement markings and legends.
 4. Providing the number of coats required/specified.
 5. All other incidental work necessary to complete thermoplastic pavement marking in accordance with the Contract Documents.

CIP-4

Bid Item No. 24 - Replace Existing 8" SS with 8" SS - Pipe Bursting

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed sewer line, measured parallel to the ground slope along road surface.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.
- D. Scope of bid item: replace existing 8" SS with 8" SS - Pipe Bursting includes, but is not limited to the following:

1. HDPE sanitary sewer pipe as shown on the drawings, adapters, connection to manholes shown.
2. Pipe bursting and HDPE pipe welding equipment, access/entry and pull pits.
3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
4. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
5. Control of surface waters.
6. Verification of adjacent utilities.
7. Mandrel, air testing and video inspection per Section 33 31 00.
8. All other incidental work necessary to complete replace existing 8" SS with 8" SS - Pipe Bursting in accordance with the Contract Documents.

Bid Item No. 25 - Replace Existing SS Manhole with New SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed replacements of existing sewer manholes with new 48" diameter SS manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, replace existing SS manhole with new SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace existing SS manhole with new SS manhole includes, but is not limited to the following:
 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover, remove existing manhole.
 2. Sewer manhole lining per Section 09 97 23.
 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 4. Aggregate base placed beneath manhole base.
 5. Control of surface waters.
 6. Verification of adjacent utilities.
 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 8. Leakage testing.
 9. All other incidental work necessary to complete replace existing SS manhole with new SS manhole in accordance with the Contract Documents.

Bid Item No. 26 - Interior Coating of Existing SS Manhole

- A. Units: Each (EA)

- B. Measurement: The number of actually completed interior coatings of existing sewer manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, interior coating of existing SS manhole in accordance with the contract documents.
- D. Scope of bid item: interior coating of existing SS manhole includes, but is not limited to the following:
 - 1. Surface preparation, cleaning.
 - 2. Sewer manhole lining per Section 09 97 23.
 - 3. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 4. All other incidental work necessary to complete interior coating of existing SS manhole in accordance with the Contract Documents.

Bid Item No. 27 - Reconnect Existing Sewer Lateral to New Sewer

- A. Units: Each (EA)
- B. Measurement: The number of actually completed reconnections of existing sewer laterals to new sewer.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, reconnect existing sewer lateral to new sewer in accordance with the contract documents.
- D. Scope of bid item: reconnect existing sewer lateral to new sewer includes, but is not limited to the following:
 - 1. Couplings, pipe spools and fittings, welded HDPE saddle, HDPE welding equipment.
 - 2. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 3. Restoration of hardscaping, landscaping and other private property improvements impacted by construction.
 - 4. Control of surface waters.
 - 5. Verification of adjacent utilities.
 - 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 7. All other incidental work necessary to complete reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer in accordance with the Contract Documents.

Bid Item No. 28 - CIP 4 Sewer Bypassing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for CIP 4 sanitary sewer bypassing at this Project site.
- D. Scope of bid item: Work for CIP 4 sanitary sewer bypassing includes, but is not limited to the following:
 - 1. Sewer bypassing work for construction at this CIP Project site.
 - 2. Required plans and submittals.
 - 3. All labor, equipment and materials to perform sewer bypassing, including pumps, generators, monitoring, alarms, and notifications.
 - 4. Logging and reporting as required to document safe and complete sewer bypassing with no sewage spills.
 - 5. All other incidental work necessary to complete CIP 4 sanitary sewer bypassing in accordance with the Contract Documents.

Bid Item No. 29 - Replace Grade Rings on Existing SS Manhole, and Interior Coating

- A. Units: Each (EA)
- B. Measurement: The number of actually completed grade ring replacements/interior coatings of existing sewer manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, interior coating of existing SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace grade rings on existing SS manhole, and interior coating includes, but is not limited to the following:
 - 1. Surface preparation, cleaning.
 - 2. Sewer manhole lining per Section 09 97 23.
 - 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 4. Remove old grade rings and replace with new.
 - 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 6. All other incidental work necessary to complete replace grade rings on existing SS manhole, and interior coating in accordance with the Contract Documents.

Bid Item No. 30 - Replace Cone, Grade Rings on Existing SS Manhole, and Interior Coating

- A. Units: Each (EA)

- B. Measurement: The number of actually completed cone/grade ring replacements/interior coatings of existing sewer manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, interior coating of existing SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace cone, grade rings on existing SS manhole, and interior coating includes, but is not limited to the following:
 - 1. Surface preparation, cleaning.
 - 2. Sewer manhole lining per Section 09 97 23.
 - 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 4. Remove old cone and grade rings, replace with new.
 - 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 6. All other incidental work necessary to complete replace cone, grade rings on existing SS manhole, and interior coating in accordance with the Contract Documents.

CIP-5

Bid Item No. 31 - Replace Existing 6" SS with 8" SS - Pipe Bursting

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed sewer line, measured parallel to the ground slope along road surface.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.
- D. Scope of bid item: replace existing 6" SS with 8" SS - Pipe Bursting includes, but is not limited to the following:
 - 1. HDPE sanitary sewer pipe as shown on the drawings, adapters, connection to manholes shown.
 - 2. Pipe bursting and HDPE pipe welding equipment, access/entry and pull pits.
 - 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 4. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 5. Control of surface waters.
 - 6. Verification of adjacent utilities.
 - 7. Mandrel, air testing and video inspection per Section 33 31 00.

8. All other incidental work necessary to complete replace existing 6" SS with 8" SS - Pipe Bursting in accordance with the Contract Documents.

Bid Item No. 32 - Replace Existing SS Manhole with New SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed replacements of existing sewer manholes with new 48" diameter SS manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, replace existing SS manhole with new SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace existing SS manhole with new SS manhole includes, but is not limited to the following:
 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover, remove existing manhole.
 2. Sewer manhole lining per Section 09 97 23.
 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 4. Aggregate base placed beneath manhole base.
 5. Control of surface waters.
 6. Verification of adjacent utilities.
 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 8. Leakage testing.
 9. All other incidental work necessary to complete replace existing SS manhole with new SS manhole in accordance with the Contract Documents.

Bid Item No. 33 - New SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed new sewer manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, new SS manhole in accordance with the contract documents.
- D. Scope of bid item: new SS manhole includes, but is not limited to the following:
 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover.
 2. Sewer manhole lining per Section 09 97 23.

3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
4. Aggregate base placed beneath manhole base.
5. Control of surface waters.
6. Verification of adjacent utilities.
7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
8. Leakage testing.
9. All other incidental work necessary to complete new SS manhole in accordance with the Contract Documents.

Bid Item No. 34 - Reconnect Existing Sewer Lateral to New Sewer

- A. Units: Each (EA)
- B. Measurement: The number of actually completed reconnections of existing sewer laterals to new sewer.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, reconnect existing sewer lateral to new sewer in accordance with the contract documents.
- D. Scope of bid item: reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer includes, but is not limited to the following:
 1. Couplings, pipe spools and fittings, welded HDPE saddle, HDPE welding equipment.
 2. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 3. Restoration of hardscaping, landscaping and other private property improvements impacted by construction.
 4. Control of surface waters.
 5. Verification of adjacent utilities.
 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 7. All other incidental work necessary to complete reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer in accordance with the Contract Documents.

Bid Item No. 35 - New 6" Sewer Collector

- A. Units: Lump Sum (LS)

- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for new 6" sewer collector.
- D. Scope of bid item: Work for new 6" sewer collector includes, but is not limited to the following:
 - 1. New 6" PVC SDR 35 gravity sewer collector, extending from School classrooms to tie in to new 8" HDPE sewer, and including two new cleanouts.
 - 2. Re-connection of six sewer laterals to this new collector (standard wye fittings).
 - 3. Surface restoration of pavement, hardscaping, landscaping and other private property improvements.
 - 4. Control of surface waters.
 - 5. Verification of adjacent utilities.
 - 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 7. All other incidental work necessary to complete new 6" sewer collector in accordance with the Contract Documents.

Bid Item No. 36 - CIP 5 Sewer Bypassing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for CIP 5 sanitary sewer bypassing at this Project site.
- D. Scope of bid item: Work for CIP 5 sanitary sewer bypassing includes, but is not limited to the following:
 - 1. Sewer bypassing work for construction at this CIP Project site.
 - 2. Required plans and submittals.
 - 3. All labor, equipment and materials to perform sewer bypassing, including pumps, generators, monitoring, alarms, and notifications.
 - 4. Logging and reporting as required to document safe and complete sewer bypassing with no sewage spills.
 - 5. All other incidental work necessary to complete CIP 5 sanitary sewer bypassing in accordance with the Contract Documents.

CIP-8

Bid Item No. 37 - 8" SS in Same Alignment as Existing

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed sewer line, measured parallel to the ground slope along road surface.

- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.
- D. Scope of bid item: 8" SS in same alignment as existing includes, but is not limited to the following:
 - 1. Sanitary sewer pipe as shown on the drawings, adapters, connection to manholes shown.
 - 2. Re-connection of existing sewer laterals.
 - 3. Restore existing sewer lateral connections to new sewer.
 - 4. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 6. Control of surface waters.
 - 7. Verification of adjacent utilities.
 - 8. Mandrel, air testing and video inspection per Section 33 31 00.
 - 9. All other incidental work necessary to complete 8" SS in same alignment as existing in accordance with the Contract Documents.

Bid Item No. 38 - Replace Existing SS Manhole with New SS Manhole

- A. Units: Each (EA)
- B. Measurement: The number of actually completed replacements of existing sewer manholes with new 48" diameter SS manholes.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, replace existing SS manhole with new SS manhole in accordance with the contract documents.
- D. Scope of bid item: replace existing SS manhole with new SS manhole includes, but is not limited to the following:
 - 1. New sewer manhole, including concrete rings, eccentric cone, base, shelves, grade rings, frame and cover, remove existing manhole.
 - 2. Sewer manhole lining per Section 09 97 23.
 - 3. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 - 4. Aggregate base placed beneath manhole base.
 - 5. Control of surface waters.
 - 6. Verification of adjacent utilities.
 - 7. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.

8. Leakage testing.
9. All other incidental work necessary to complete replace existing SS manhole with new SS manhole in accordance with the Contract Documents.

Bid Item No. 39 - Reconnect Existing Sewer Lateral to New Sewer

- A. Units: Each (EA)
- B. Measurement: The number of actually completed reconnections of existing sewer laterals to new sewer.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, reconnect existing sewer lateral to new sewer in accordance with the contract documents.
- D. Scope of bid item: reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer includes, but is not limited to the following:
 1. Couplings, pipe spools and fittings, wye fitting.
 2. Excavation, hand-digging, exposing, backfilling, compaction, and surface asphalt restoration, restoration of striping in areas not subject to surface pavement works.
 3. Restoration of hardscaping, landscaping and other private property improvements impacted by construction.
 4. Control of surface waters.
 5. Verification of adjacent utilities.
 6. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 7. All other incidental work necessary to complete reconnect existing sewer lateral to new sewer reconnect existing sewer lateral to new sewer in accordance with the Contract Documents.

Bid Item No. 40 - CIP 8 Sewer Bypassing

- A. Units: Lump Sum (LS)
- B. Measurement: Partial payments based on Engineer's determination.
- C. Payment: Payment includes full compensation for all work required to complete the contract requirements for CIP 8 sanitary sewer bypassing at this Project site.
- D. Scope of bid item: Work for CIP 8 sanitary sewer bypassing includes, but is not limited to the following:
 1. Sewer bypassing work for construction at this CIP Project site.
 2. Required plans and submittals.
 3. All labor, equipment and materials to perform sewer bypassing, including pumps, generators, monitoring, alarms, and notifications.

4. Logging and reporting as required to document safe and complete sewer bypassing with no sewage spills.
5. All other incidental work necessary to complete CIP 8 sanitary sewer bypassing in accordance with the Contract Documents.

Bid Item 41 - Roadway Excavation

- A. Units: Cubic Yard (CY).
- B. Measurement:
 1. Measurement for adjusted dimensions or eliminated portions shall be the actual volume of the specified adjustment.
 2. No payment will be made for roadway excavation outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the roadway excavation in accordance with the contract documents.
- D. Scope of bid item: roadway excavation includes, but is not limited to the following:
 1. Excavating and removing existing pavement, concrete, and base to subgrade, within the limits and extent of shown on the drawings.
 2. Subgrade preparation, scarification, watering and re-compaction of upper 12 inches of subgrade.
 3. Erosion and dust control, control of surface waters.
 4. All other incidental work necessary to complete the roadway excavation in accordance with the Contract Documents.

Bid Item 42 - Wood Mulch

- A. Units: Cubic Yard (CY).
- B. Measurement:
 1. This item is a designated as a Final Pay Quantity bid item.
 2. Measurement for adjusted dimensions or eliminated portions shall be the actual volume of the specified adjustment.
 3. No payment will be made for wood mulch installation outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the wood mulch in accordance with the contract documents.
- D. Scope of bid item: wood mulch includes, but is not limited to the following:
 1. Placement of wood mulch and weed barrier.
 2. Erosion and dust control, control of surface waters.

3. All other incidental work necessary to complete the wood mulch in accordance with the Contract Documents.

Bid Item 43 - Hot Mix Asphalt (HMA) - Type A

- A. Units: Ton.
- B. Measurement:
 1. Measurement for adjusted dimensions or eliminated portions shall be the actual weight of the specified adjustment.
 2. No payment will be made for HMA placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the hot mix asphalt - type A in accordance with the contract documents.
- D. Scope of bid item: hot mix asphalt - type A includes, but is not limited to the following:
 1. Constructing hot mix asphalt to the limits and extent of shown on the drawings.
 2. Placement of tack coat over existing pavement areas.
 3. Erosion and dust control, control of surface waters.
 4. All other incidental work necessary to complete the hot mix asphalt - type A in accordance with the Contract Documents.

Bid Item 44 - Class 2 Aggregate Base

- A. Units: Cubic Yard (CY).
- B. Measurement: The actual cubic yards of installed Class 2 Aggregate Base.
- C. No payment will be made for Class 2 Aggregate Base placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer.
- D. Payment includes full compensation for all furnishing, labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the Class 2 Aggregate Base in accordance with the contract documents.
- E. Scope of bid item: Class 2 Aggregate Base includes, but is not limited to the following:
 1. Placement, watering and compaction of aggregate base.
 2. Erosion and dust control, control of surface waters.
 3. All other incidental work necessary to complete the Class 2 Aggregate Base in accordance with the Contract Documents.

Bid Item No. 45 - 12" RCP

- A. Units: Linear Foot (LF)
- B. Measurement: Linear feet of installed storm drain line, measured parallel to the ground slope along road surface.

- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, pipeline in accordance with the contract documents.
- D. Scope of bid item: 12" RCP includes, but is not limited to the following:
 - 1. Storm drain pipe as shown on the drawings, adapters, connection to existing pipes with concrete collars, manholes and inlets shown.
 - 2. Abandonment of existing storm drain pipe per Section 02 42 00.
 - 3. Removal and disposal of interfering pipe or appurtenances
 - 4. Trenching, hand-digging, exposing, backfilling, compaction, including road surface and striping restoration.
 - 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 6. Control of surface waters.
 - 7. Verification of adjacent utilities.
 - 8. Air testing and video inspection per Section 33 41 00.
 - 9. All other incidental work necessary to complete 12" RCP in accordance with the Contract Documents.

Bid Item 46 - Remove Existing Catch Basin/Provide New Catch Basin

- A. Units: Each (EA)
- B. Measurement: The number of actually completed removed/new catch basins.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, remove existing catch basin/provide new catch basin in accordance with the contract documents.
- D. Scope of bid item: remove existing catch basin/provide new catch basin includes, but is not limited to the following:
 - 1. Coordination with Utility Owner.
 - 2. Remove existing catch basin from current location, and installing new catch basin in new location shown on the drawings.
 - 3. Excavation, backfill, compaction and control of surface waters.
 - 4. Connecting storm drain to existing pipe using a concrete collar or to existing manhole with clean penetration and mortar packing joint.
 - 5. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 - 6. All other incidental work necessary to complete remove existing catch basin/provide new catch basin in accordance with the Contract Documents.

Bid Item 47 - Adjust Valve Box Frame and Cover to Grade

- A. Units: Each (EA)
- B. Measurement: The number of actually completed adjustment of valve box frames/covers to grade.

- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, adjust valve box frame and cover to grade in accordance with the contract documents.
- D. Scope of bid item: adjust valve box frame and cover to grade includes, but is not limited to the following:
 - 1. Coordination with Cal AM water operations staff.
 - 2. Masking and protecting existing valve box frame and cover during cold planing and HMA placement operations.
 - 3. Adjusting the valve box frame and cover to grade with new concrete collar.
 - 4. All other incidental work necessary to complete adjust valve box frame and cover to grade in accordance with the Contract Documents.

Bid Item 48 - Adjust Utility Cover to Grade

- A. Units: Each (EA)
- B. Measurement: The number of actually completed adjustment of utility covers to grade.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, adjust utility cover to grade in accordance with the contract documents.
- D. Scope of bid item: adjust utility cover to grade includes, but is not limited to the following:
 - 1. Coordination with Utility Owner.
 - 2. Masking and protecting existing utility frame/cover during cold planing and HMA placement operations.
 - 3. Adjusting the utility box frame and cover to grade, restoring it to pre-construction condition or better.
 - 4. All other incidental work necessary to complete adjust utility cover to grade in accordance with the Contract Documents.

Bid Items 49, 51, 52, 53 - Minor Concrete (Cross Gutter, Driveway, Sidewalk, Curb Ramp)

- A. Units: Square Foot (SF).
- B. Measurement: The actual square feet of installed concrete structure (cross gutter, driveway, sidewalk, curb ramp).
- C. No payment will be made for concrete work placed outside of the dimensions, tolerances, and areas specified unless ordered by the Engineer
- D. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the minor concrete (cross gutter, driveway, sidewalk, curb ramp) in accordance with the contract documents.
- E. Scope of bid item: minor concrete (cross gutter, driveway, sidewalk, curb ramp) includes, but is not limited to the following:
 - 1. Replace existing concrete improvement to be removed, with new concrete work, including subgrade/base material, doweling, rebar, formwork, finish work, and other requirements per plans and details.

2. Excavation, hand-digging, exposing, backfilling, compaction, and surface replacement, sand bedding/base.
3. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
4. Protecting in place existing private property improvements adjacent to areas of work.

All other incidental work necessary to complete minor concrete (cross gutter, driveway, sidewalk, curb ramp) in accordance with the Contract Documents.

Bid Item 50 - Minor Concrete (Curb and Gutter, and Retaining Curb)

- A. Units: Linear Foot (LF).
- B. Measurement:
 1. The actual amount (lineal footage) of curb and gutter completed, measured longitudinally along the curb and gutter.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the minor concrete (curb and gutter, and retaining curb) in accordance with the contract documents.
- D. Scope of bid item: minor concrete (curb and gutter, and retaining curb) includes, but is not limited to the following:
 1. Replace existing concrete improvement to be removed, with new concrete work, including subgrade/base material, doweling, rebar, formwork, finish work, and other requirements per plans and details.
 2. Excavation, hand-digging, exposing, backfilling, compaction, and surface replacement, sand bedding/base.
 3. Hauling and disposing of all waste, unsuitable, and excess material in accordance with the Contract Documents.
 4. Painting curb red (2-coats) where indicated on the plans
 5. All other incidental work necessary to complete minor concrete (curb and gutter, and retaining curb) in accordance with the Contract Documents.

Bid Item 54 - Reset Roadside Sign (One Post)

- A. Units: Each (EA)
- B. Measurement: The number of actually completed resetting of roadside sign.
- C. Payment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, reset roadside sign (one post) in accordance with the contract documents.
- D. Scope of bid item: reset roadside sign (one post) includes, but is not limited to the following:
 1. Coordination with City of Pacific Grove public works staff.
 2. Removing roadside sign to allow for other work items.
 3. Setting and re-installing existing roadside sign in same location, orientation and height as previously existed.
 4. All other incidental work necessary to complete reset roadside sign (one post) in accordance with the Contract Documents.

Bid Item 55 - 6" Thermoplastic Traffic Stripe

- A. Units: Linear Foot (LF).
- B. Measurement:
 - 1. The actual length of striping completed, measure along the center of the stripe.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the 6" thermoplastic traffic stripe in accordance with the contract documents.
- D. Scope of bid item: 6" thermoplastic traffic stripe includes, but is not limited to the following:
 - 1. Removal of conflicting striping
 - 2. Layout of new striping.
 - 3. Thermoplastic striping material as specified.
 - 4. Providing the number of coats required and specified.
 - 5. Installation of pavement markers per Cal Trans standard details.
 - 6. All other incidental work necessary to complete: 6" thermoplastic traffic stripe in accordance with the Contract Documents.

Bid Item 56 - Thermoplastic Pavement Marking

- A. Units: Square Foot (SF).
- B. Measurement: The actual square feet of markings completed. Area quantities for the standard markings are included in the Caltrans Standard Plans.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to construct complete and in place, the thermoplastic pavement marking in accordance with the contract documents.
- D. Scope of bid item: thermoplastic pavement marking includes, but is not limited to the following:
 - 1. Removal of conflicting markings
 - 2. Layout of new markings, providing stencils.
 - 3. Arrows, letters, symbols, crosswalk hatching, and other painted pavement markings and legends.
 - 4. Providing the number of coats required/specified.
 - 5. All other incidental work necessary to complete thermoplastic pavement marking in accordance with the Contract Documents.

ADDITIVE/DEDUCTIVE BID ITEM

The following additive/deductive bid items are defined:

Additive/Deductive Bid Item No. 1

- Delete Bid Item No. 24 - Replace Existing 8" SS with 8" SS - Pipe Bursting, in its entirety.
- Reduce quantity of sewer MHs in Bid Item No. 25 - Replace Existing SS Manhole with New SS Manhole, from 13 sewer MHs to 9 sewer MHs (reduce quantity by 4 sewer MHs).
- Delete Bid Item No. 27 - Reconnect Existing Sewer Lateral to New Sewer, in its entirety.

TESTING

- A. The City will perform or will contract for the performance of the following tests. The City will pay for the costs of the initial tests. Should test results show that any work, construction, materials, or methods is unacceptable, the Contractor shall pay for all costs associated with any necessary retesting before or after corrective measures have been made. Such costs will be deducted from payments due to the Contractor.
1. Compaction Test and R-Values- Testing for soil compaction and R-Values will be provided by a Soils Engineer under separate contract with the City.
 2. Bacteriological tests for potable water systems.
- B. The Contractor shall furnish and pay for all labor, materials, tools, and supplies required to make the following performance tests in the presence of the Engineer:
1. Video logging for sanitary sewer mains and storm drains.
 2. Air and Deflection testing for sanitary sewer mains and storm drains.
 3. Sewer manhole leakage testing where specified.
 4. Other Test Required by the Contract Documents

All tests must be passed, and any test reports requested by the City shall be provided to the City prior to acceptance of the work.

END OF SECTION