## <u>Bid Proposal</u> "INGLEWOOD LIBRARY PARKING LOT REHABILITATION"

#### To the Mayor and City Council City of Inglewood Inglewood, CA 90301

The undersigned declares that he/she has carefully examined the location of the proposed work and has otherwise satisfied himself/herself as to the nature and location of the work, and is fully informed as to all conditions and matters which can in any way affect the work or cost thereof, that he/she has examined the Specifications and Plans, and has read the accompanying "**INSTRUCTIONS TO BIDDERS**" and hereby agrees to provide the following:

To furnish all labor, materials, equipment, transportation, and services and to do all the work required for the **"INGLEWOOD LIBRARY PARKING LOT REHABILITATION"** and in strict conformity with the specifications and at the following total lump sum prices, to Wit.

Item No.	Bid Item Description	Quantity	Unit	Unit Price	Amount
1.	Mobilization, De-Mobilization	1	LS		
2.	Construction Surveying and Staking	1	LS		
3.	Erosion Control and Water Pollution Control Plan Preparation and Implementation	1	LS		
4.	Cold Mill Existing AC Pavement 1.5-Inch Thick Uniform Depth	46350	SF		
5.	Construct 1.5-Inch Thick Conventional AC Overlay	425	TON		
6.	Remove and Construct 3-Inch Thick AC Pavement	50	TON		
7.	Remove and Construct 7-Inch Thick Class 2 AB	60	CY		
8.	Remove and Construct Curb Per SPPWC Std Plan 120- 3, Type A1-6	295	LF		
9.	Remove and Construct Curb Extension Per Detail	2	EA		
10.	Adjust Utility Manhole to Grade	1	EA		
11.	Adjust Utility Vault to Grade	2	EA		
12.	Remove Parking Meter Pole and Foundation	63	EA		
13.	Remove Existing Wheel Stops	127	EA		
14.	Install New Wheel Stops	102	EA		
15.	Install Signing and Striping	1	LS		
16.	Install Parking Lot Luminaire, Pole and Foundation Complete.	4	EA		
17.	Install Parking Lot Lighting Conduit and Conductors Complete.	300	LF		
18.	Install Parking Lot Pull Box.	1	EA		
19.	Remove Existing Parking Lot Lighting Pole and Luminaire Complete.	3	EA		
	TOTAL BID WRITTEN IN WORDS	TOTAL BID IN FIGURES			

	\$
-	

IN CASE OF DISCREPANCY BETWEEN THE WORDS AND FIGURES, THE WORDS SHALL PREVAIL. The undersigned understands that the City of Inglewood reserves the right to accept or reject any or all bids submitted; to re-advertise at its discretion.

## **Division II - Technical Specification**

The **2021 edition of "Standard Specifications for Public Works Construction"**, as amended by the Contract Documents, is incorporated into the Contract Documents by this reference. The Work described herein shall be done in accordance with the provisions of the Standard Specifications, as amended by the Contract Documents.

## 3-10 SURVEYING

Subsection 3-10.2, Line and Grade is amended by adding thereto the following:

The line and grades for construction will be parallel to and offset from the position of the work. From the established lines and grades, the Contractor shall extend the necessary lines and grades for construction of the work and shall be responsible for the correctness of same.

Section 3-10 is amended by adding thereto the following new Subsection 3-10.3 Survey Service.

3-10.3 Survey Service. For this improvement work, the Contractor shall furnish all labor, equipment, and (Private Engineer) services, and be responsible for all surveying, staking, and layout necessary for the improvements. In the event of a substantial discrepancy between information shown on the Plans and actual field conditions, the Contractor shall cease any affected work and notify the City Engineer. The City Engineer will provide direction and authority to proceed. Surveying by Private Engineers on the Work shall conform to the quality and practice required by the City Engineer. Consequently, any reference to the Engineer providing such services in Subsection 3-10 shall be disregarded.

Survey monuments shall be furnished, installed and in compliance to Section 309 Monuments.

Payment for surveying service shall be paid at the lump sum price bid for construction survey and staking, including conformance surveying, and no additional payment thereof. Payment for replacement of monuments and centerline ties shall be paid as specified in the bid proposal and no additional payment thereof.

## 3-12 WORK SITE MAINTENANCE

Subsection 3-12.1 General is amended by adding thereto the following paragraphs:

The Contractor shall provide and operate a self-loading motor sweeper with spray nozzles every day for the purpose of keeping the entire project site clean as acceptable to the City Engineer.

The Contractor shall keep adjacent properties clean and free of rubbish and debris in a timely manner as necessary and as directed by the Engineer.

Payment for the cleanup and dust control shall be included in the price paid for other items of work. No additional payment will be made for project site maintenance.

Subsection 3-12.6.3 Storm Water Pollution Prevention Plan (SWPPP) is amended by adding thereto the following paragraph:

Storm Water Pollution Prevention Measures, All storm water pollution measures shall be in accordance with the submitted SWPPP. In the event circumstances during the course of construction require changes to the original SWPPP, the QSP shall direct the revisions to the SWPPP, if that authority is rated within the SWPPP Table 1.1, or shall notify the QSD of the Change that requires to SWPPP to be amended. No responsibility shall accrue to the Agency as a result of the plan or as a result of knowledge of the plan. All work installed by the Contractor in connection with the SWPPP but not specified to become a permanent part of the project shall be removed and the site restored in so far as practical to its original condition prior to completion of construction or when directed by the Agency's representative.

The Contractor shall be required to implement a Storm Water Pollution Prevention Plan (SWPPP) for this project prepared by a Qualified SWPPP Developer (QSD). The SWPPP shall be submitted to the City for review and acceptance at the Pre-Construction Conference.

The Contractor's attention is directed to the California Storm Water Quality Association (CASQA) website at:

https://www.casqa.org/resources/bmp-handbooks

The CASQA website contains a SWPPP template and other important information necessary for the preparation of a SWPPP. The Contractor shall ensure that the SWPPP prepared for this project complies with the requirements of State Construction General Permit, Order No. 2009-0009-DWQ, NPDES NO. CAS000002.

Additionally, the Contractor shall guarantee that the SWPPP complies with the following measures from the Regulatory Permits and Environmental Commitment Measures:

- Projects shall not discharge substances in concentrations toxic to human, plant, animal, or aquatic life or that produce detrimental physiological responses.
- Projects shall not discharge waste classified as "hazardous" as defined in Title 22 CCR section 66261 and the California Water Code section 19179;
- No oil, petroleum products, or rubbish shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into waters of the United States.
- No equipment maintenance will be done within or near any stream channel where petroleum products or other pollutants from the equipment may enter waters of the United States.
- Equipment refueling shall not occur within waters of the United States.
- Any oil or grease leaks shall be immediately cleaned up.

Upon acceptance of the SWPPP by the City, the City (or its authorized representative) shall obtain coverage under the Construction General Permit by electronically submitting the complete PRDs (Permit Registration Documents) via the SMARTS system as required by the Construction General Permit.

The Contractor shall be responsibility for complying with all requirements of the SWPPP and the State Construction General Permit.

The Contractor shall ensure that the SWPPP is developed and amended or revised by a Qualified SWPPP Developer (QSD). The Contractor shall ensure that Best Management Practices (BMPs) within the SWPPP are implemented by a Qualified SWPPP Practitioner (QSP). To properly demonstrate compliance with requirements of the Construction General Permit, the QSD shall include information in the SWPPP that supports the conclusions, selections, use, and maintenance of BMPs.

The Contractor shall designate a QSP, who shall be directly responsible for implementing the SWPPP requirements during the course of construction until a notice of termination for this project has been accepted by the Board. Contractor shall keep the SWPPP at the project site and make it available for review upon request of a representative of the RWQCB or the Engineer.

The Construction Superintendent shall prepare a Construction Schedule and BMP Sequencing Schedule for the project and include it into the SWPPP at the designated location.

**Special Note:** The Contractor shall ensure that the SWPPP has been prepared, *in advance*, for submittal at the Pre-Construction Conference. Failure to provide an adequate SWPPP for submittal at the Pre-Construction Conference will delay Contractor's start of work, however, the Notice to Proceed shall be issued and working days shall commence, regardless of construction work occurring due to the Contractor's delay in submitting an adequate SWPPP.

The Construction Superintendent shall prepare a Notice of Termination (NOT), included in the SWPPP, and submit it to the RWQCB following acceptance of the work by the City, but prior to final payment.

Throughout the duration of the work, the Construction Superintendent shall ensure the following construction storm water monitoring actions are performed:

- Conduct site inspections before and after storm events.
- Conduct inspections of construction sites prior to anticipated storm events and after actual storm events to identify areas contributing to a discharge of storm water associated with construction activity, and evaluate whether control practices to reduce pollutant loadings identified in the SWPPP are adequate and properly implemented or whether additional control practices are needed. A record of the inspections must include the date of the inspection, the individual(s) who performed the inspection, and the observations.
- Any noncompliance or anticipated noncompliance shall be reported to the City immediately, for reporting to the Regional Water Quality Control Board (RWQCB). The notifications shall identify the type(s) of noncompliance, describe the actions necessary to achieve compliance, and include a time schedule, subject to the modifications by the RWQCB, indicating when compliance will be achieved.

The Contractor shall maintain a copy of the Construction General Permit and the SWPPP at the construction site and shall make the SWPPP available to operating personnel and local, State, and Federal agencies' representatives during construction activities.

The Contractor shall allow authorized agents of the California Regional Water Quality Control Board (Regional Board), State Water Resources Control Board, U.S. Environmental Protection Agency, and local storm water management agencies, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter, at reasonable times, upon the construction site and the Contractor's facilities pertinent to the work.

- 2. Have access to and copy, at reasonable times, any records that must be kept as specified in the Construction General Permit.
- 3. Inspect, at reasonable times, the construction site and related erosion and sediment control measures.
- 4. Sample or monitor, at reasonable times, for the purpose of ensuring compliance with the Construction General Permit.

Prior to commencing work, the Contractor shall coordinate with and request the QSD to make amendments to the SWPPP as are required to make it coincide with the Contractor's planned operations and submit the amendments to the City for electronic submittal to the SMARTS system.

The Contractor is notified that the SWPPP must be amended from time to time during construction to reflect actual construction practices and such amendments shall be submitted to the City within five (5) working days of the City's written request. If the Contractor plans to amend the SWPPP, due to field conditions or any other reason, he shall propose the necessary amendments to the City for approval at least five (5) working days prior to implementation.

The SWPPP and amendments shall not be construed to be a waiver of the Contractor's obligation to review and understand the Construction General Permit before submitting a Bid. By submitting a Bid, the Contractor acknowledges satisfaction as to the requirements of the Construction General Permit.

3-12.6.5 Payment.

Add the following:

Full compensation for compliance with the provisions of Section 3-12.6.5 "Water Pollution Control," of the Standard Specifications, and as amended by these Special Provisions, will be paid for at the bid item price for "Implement Storm Water Pollution Prevention Plan (SWPPP)," which price shall include full compensation for preparing a SWPPP (including necessary amendments), and for furnishing all labor, materials, tools, equipment, and incidentals for doing all work involved to implement the SWPPP, and no additional compensation shall be allowed therefore. The Contractor shall be responsible for payment of any administrative fines that may be imposed on the City due to the Contractor's failure to comply with the terms of the applicable permits regulating Water Pollution Control. Administrative fines, if imposed, will be withheld from the Contractor's payments.

Payment for Erosion Control and Water Pollution Control Plan Preparation and Implementation shall be paid for at the contract Lump Sum (LS) price and shall include full compensation for, but not limited to, furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in installing, constructing, maintaining, removing, and disposing of erosion control BMPs as specified in the project plans and these special provisions and no additional compensation will be allowed therefor.

## PART 2

## CONSTRUCTION MATERIALS

#### SECTION 200 - ROCK MATERIAL

#### 200-2 UNTREATED BASE MATERIALS

200-2.1 General.

Untreated base material shall be crushed aggregate base.

200-2.2 Crushed Aggregate Base.

200-2.2.3 Quality Requirements.

The minimum R-value requirement will not be waived.

## SECTION 201 - CONCRETE, MORTAR, AND RELATED MATERIALS

#### 201-1 PORTLAND CEMENT CONCRETE

201-1.1 Requirements.

201-1.1.1 General.

The same brand type, source of cement, and aggregate shall be used for all Portland cement concrete per the approved submittal.

Fly ash shall not be used.

201-1.2 Materials.

201-1.2.4 Chemical Admixtures.

1. Retarding Densifyer. The material shall be of the hydroxylated carboxylic acid type in liquid form and shall not entrain air or cause foaming. The retarding densifyer shall be used in strict compliance with the printed recommendations of the manufacturer. There shall be no reduction in the cement content of the concrete mix because of the addition of the retarding densifyer.

The admixture shall be such that its addition to the concrete mix will:

- a. Decrease drying shrinkage;
- b. Increase compressive strength for all concrete strength for all concrete ages from 3 days to 1 year;

- c. Increase flexural strengths, modulus of elasticity and abrasion resistance;
- d. Increase the slump and placement workability;
- e. Retard the initial set and increase the density; and
- f. Shall contain no calcium or tri-ethanolamine.

At the discretion of the Engineer, the Contractor may be required to submit proof that the admixture he proposed to use meets the foregoing requirements. Such proof shall be in the form of comparative tests of plain and admixture containing mixes performed by an acceptable local laboratory with testing based on use of the project materials and in accordance with the requirements of ASTM C 157. An approved admixture conforming to these requirements is plastiment retarding densifyer in liquid form.

## 201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS

201-3.1 General.

Contractor shall submit materials to Engineer for approval.

201-3.4 Type "A" Sealant (Two-Part Polyurethane Sealant). Sealant shall be Type "A" with Polyethylene foam filler. Submit two samples to the Engineer for approval.

## 201-4 CONCRETE CURING MATERIALS

201-4.1 Membrane Curing Compounds.

201-4.1.1 General.

Concrete curing compound shall be Type 2.

## SECTION 211 - MATERIAL TESTS

## 211-4 HAND HELD VISCOMETER TEST.

211-4.2 Calibration

Delete the second and third sentences of subsection 211-4.2 Calibration of the Standard Specifications and replace with the following:

In one continuous operation, turn off the spindle rotation, remove the spindle vertically from the binder (after heating), discontinue stirring the binder and immediately insert the spindle back into the center of the binder. While holding the viscometer level, turn the spindle on and watch the needle on the viscometer dial and record the maximum value obtained on the dial.

## <u>SECTION 214 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT</u> <u>MARKERS</u>

Delete the section complete and replace with the following:

All equipment, materials, and components for signing and striping, and the installation thereof, shall conform to the 2023 Caltrans <u>Standard Plans</u>, and <u>Standard Specifications</u>, Section 81, "Miscellaneous Traffic Control Devices," Section 82 "Signs and Markers", and Section 84, "Markings", unless otherwise noted in these Special Provisions and on the Plans. These Plans and Specifications are hereinafter referred to as State Standard Plans and State Standard Specifications. Copies of these documents are available for review at the Caltrans website –

https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications

All materials required for the completion of work as shown on the Plans shall be provided by the Contractor.

## SECTION 82 – SIGNS AND MARKERS

## 82-3 ROADSIDE SIGNS

82-3.03 Construction. Relocated signs shall be installed using existing posts at new locations and shall be set at a minimum 30-inch depth and at a minimum 12-inch square portland cement concrete (PCC). The post depth of the concrete footing shall be sufficient to extend at least 6-inches below the bottom of the posts. <sup>1</sup>/<sub>4</sub>-inch expansion paper shall be placed between the sign foundation and sidewalk.

New signs shall be installed using metal posts set at a minimum of 30-inch depth in a minimum 12-inch square PCC, except as specified otherwise, the metal post shall be 2-inch square "Qwik Punch" posts. The length of the metal post shall be sufficient to extend from the top of the sign to 30-inches below the top of the concrete footing and provide a 7-foot clearance between the finished grade and the bottom of the lowest sign panel. The depth of the concrete footings shall be sufficient to extend at least 6-inches below the bottom of the posts. <sup>1</sup>/<sub>4</sub>-inch expansion paper shall be placed between the sign foundation and sidewalk.

Drill holes for bolts, threaded rods, or expansion anchorage devices drilled in existing concrete by a method that will not shatter the concrete adjacent to the holes.

Repair any spalling or chipping of concrete structures at contractor's expense.

Marker and delineators shall conform to the provision in Section 81, "Miscellaneous Traffic Control Devices."

82-3.04 Payment. Payment for signing shall be included in the lump sum price bid for signing and striping, and no additional compensation will be allowed therefor.

## **SECTION 84 - MARKINGS**

## 84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.02 Materials.

84-2.02A General. Traffic stripes, pavement markings, crosswalks, and arrow markings shall be thermoplastic, unless otherwise shown on the Plans.

Curb markings shall be paint, two (2) coats. Contractor shall repaint all curb markings within the project limits as noted on the plans.

84-2.02B Thermoplastic. Traffic striping shall be thermoplastic including arrows and other pavement legends.

84-2.02C Paint. Paint shall be ready-mixed rapid dry type.

Ready-mixed paints shall be suitable for use on either asphalt concrete or Portland cement concrete.

84-2.03 Construction.

84-2.03A General. The Contractor shall furnish the necessary control points for all striping and markings and shall be responsible for the completeness and accuracy thereof to the satisfaction of the Engineer.

The Contractor shall establish all traffic striping between these points by stringline or other method to provide striping that will vary less than <sup>1</sup>/<sub>2</sub>-inch in 50-feet from the specified alignment.

When no previously applied figures, markings, or traffic striping are available to serve as a guide, suitable layouts shall be spotted in advance of the permanent paint application. Parking stalls and traffic lines may be spotted by using a rope as a guide for marking spots every 5-feet, by using a marking wheel mounted on a vehicle, or by any other means satisfactory to the Engineer.

The Contractor shall mark or otherwise delineate the parking stalls in the new parking lot before opening it to traffic.

The Contractor shall provide an experienced technician to supervise the location, alignment, layout, dimensions, and application of the paint.

Spotting shall be completed prior to the removal of any existing stripes. Existing stripes and markings shall be removed prior to painting new stripes and markings, but in no case shall any section of street be left without the proper striping for more than 24 hours, or over weekends or holidays.

The installation of traffic stripes includes placement of raised pavement markers when called for on the plans.

Adhesive for raised pavement markers shall be per Section 81, "Pavement Markers."

Existing traffic stripes (including raised pavement markers), pavement legends, and markings that do not conform to the plans shall be removed by wet sandblasting per Section 81-8.03B, "Remove Pavement Markers," and Section 84-9.03B, "Remove Traffic Stripes and Pavement Markings" of the State Standard Specifications.

84-2.04 Payment. Payment for striping details, pavement markings, and curb markings shall be included in the lump sum price bid for signing and striping, and no additional compensation will be allowed.

#### PART 3

#### CONSTRUCTION METHODS

#### SECTION 300 - EARTHWORK

#### 300-1 CLEARING AND GRUBBING

300-1.1 General.

Subsection 300-1.1 General of the Standard Specifications is amended by adding thereto the following paragraphs:

Demolition and removal of irrigation equipment, turf, site furnishings, signage, root shaving, redwood header, tree and shrub removal, and such other items not mentioned that are required by the Plans and Specifications, are part of this work in this section.

Prior to demolition, removals, and earthwork, the Contractor shall construct and maintain a temporary 6-foot high chain-link fence with a minimum of two access gates and perimeter fence to protect the area of improvements during construction period.

All obstructions within project limits shall be removed to a minimum of 12-inches below subgrade.

Soil backfill for holes caused by the removal of the existing structures foundations shall be filled with selected site soils and recompacted in 6-inch layers to the density of 95-percent relative compaction.

Tree removal shall include grinding stumps and associated roots to the diameter of the trunk at existing grade and to 3-foot depth below existing grade. Grindings shall be removed from this 3-foot hole. The hole shall then be filled with soil and compacted to 95-percent relative compaction.

All equipment and facilities shown on the Plans to be salvaged, removed and stockpiled, adjusted, and/or relocated shall be measured, marked, and identified in the field.

Contractor shall note the locations, dimensions, and configurations of all existing equipment to be salvaged, and shall clearly mark or tag all equipment to be reused in the field prior to removal to facilitate reassembly; Contractor shall notify Engineer of any damaged or non-salvageable materials prior to commencing any removal or grading operations. Materials found to be damaged after the work commences shall be assumed to be the responsibility of the Contractor. Contractor will not be paid for the replacement or repair of facilities or equipment believed by the Engineer to be damaged after the work commences.

Contractor shall replace designated, unusable existing facilities and equipment, in kind, at the direction of the Engineer.

The application of herbicide to kill turf and weeds, shall be per manufacturers' recommendations, including roots; and the removal and disposal of soil and turf offsite, and such other items not mentioned that are required by the Plans and Specifications, are part of the work in this section.

All existing turf in the area designated for replacement shall be stripped, removed, and disposed of offsite in a legal manner.

The cleared area shall be ripped to a depth of 12 inches, except in areas of existing tree roots which generally extend to the drip line of the tree canopy. SPECIAL CARE SHALL BE TAKEN TO PROTECT EXISTING TREES TO REMAIN FROM DAMAGE.

300-1.2 Root Pruning and Tree Trimming.

Subsection 300-1.2 Root Pruning and Tree Trimming is amended by adding thereto the following paragraphs:

Tree branches which hang within 13.5 feet above finished roadway grade or within 9 feet above finished sidewalk or parkway grade shall be removed to the branch collar in accordance with the current pruning standards of the International Society of Arboriculture (ISA). The Contractor shall remove additional tree branches, under the direction of the Engineer, in such a manner that the tree will present a balanced appearance. No paint or tree sealant shall be applied to the resulting scars. All pruning shall be done under the supervision of an ISA Certified Arborist in the Contractor's employ.

All the root pruning required to place or replace walks, or other permanent facilities shall be limited to the minimum amount necessary to set forms.

All roots 2 inches and larger shall be cut with sharp tool such as axe or chainsaw. No roots shall be broken off by trenching or other heavy equipment.

No root shall be removed within five (5) diameters of the tree trunk measured at 4 feet, 9 inches above grade without the express written permission of the City. Any such root removed without the City's written permission may create a hazardous condition for which the Contractor shall be liable.

Should the Contractor create a hazardous condition in the sole judgment of the Engineer the Contractor shall remove the tree and replace it with a specimen of the same species and value at the Contractor's expense.

All significant root pruning (3-inch diameter and larger) shall be performed under the direct supervision of an ISA Certified Arborist in the Contractor's employ.

All trees noted on the drawings for tree pruning shall have crown reduction and crown thinning performed in accordance with standards published by the Western Chapter of the International Society of Arboriculture (ISA). All pruning shall be performed by ISA certified tree workers under direct supervision of an ISA certified arborist. The Contractor shall furnish such

credentials to the Engineer prior to commencement of any tree work.

300-1.2.1 Tree Removal and Salvage.

All trees to be removed are considered to the property of the Contractor. Trees to be destroyed shall be recycled as green waste.

300-1.2.2 Protection of Existing Trees to Remain.

All trees to remain in place within the limits of work shall be protected from damage by workmen, equipment, and operations. Insofar as prosecution of the work allows, following removal of surrounding pavements, etc., the root area beneath the tree drip line shall be protected from damage, including compaction. Protection shall include temporary fencing, barricades, etc. Warning tape will not be considered sufficient.

300-1.2.3 Repair / Modification of Existing Turf Parkway

(a) Lawn. The Contractor shall resod in accordance with 801-4.8.3 areas where turf is removed for construction. Thickness and type of sod shall match removed lawn.

(b) Private Sprinklers and Improvements. The Contractor shall coordinate work with adjacent property owners. The Contractor shall test and document the condition of existing improvements before beginning required removals or excavation. The Contractor shall restore private improvements to documented conditions after completing adjacent work.

300-1.4 Payment.

## Add the following:

Payment for clearing and grubbing shall be considered as included in other items of work and shall include full compensation for furnishing all labor, materials, tools, transportation, tree trimming, root pruning, vegetation, debris disposal and other equipment and incidentals to perform the work.

## 300-2 UNCLASSIFIED EXCAVATION

300-2.1 General.

Unclassified. Unclassified excavation shall consist of all excavation, including roadways, all types of bituminous pavement, and concrete pavement, curb, walk, gutters, cross gutters, driveways, and access ramps, unless separately designated.

300-2.1.1 Requirements.

Subsection 300-2.1.1 Requirements is hereby added to Section 300 of the Standard Specifications as follows:

1. Bituminous Pavement. Bituminous pavement shall be removed to neatly sawed edges. Saw cuts shall be to a minimum depth of 3 inches. Where only the surface of existing bituminous pavement is to be removed, the method of removal shall be approved by the Engineer, and a minimum laying depth of 1 inch of new pavement material shall be provided at the join line. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be saw cut to neat straight lines before resurfacing to ensure that all areas to be resurfaced are accessible to the rollers used to compact the subgrade or paving materials.

Bituminous pavement on curb and gutter, sidewalk or drive approaches shall be removed by heating with a torch to soften the pavement without creating smoke. Softening shall be performed until the bituminous material can be easily scraped away down to the underlying PCC surface. The blade used for scraping shall be maintained straight along its edge and clean. Bituminous material shall be scraped in this manner until it is completely removed.

- 2. Concrete Curb, Walk, Gutter, Cross Gutters, Driveways, and Access Ramps. Concrete shall be removed to neatly sawed edges with saw cuts made to a minimum depth of 1½-inches. Concrete sidewalk, or driveway to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 30 inches in either length or width. If the saw cut in sidewalk, access ramp, or driveway would fall within 30 inches of a construction joint, expansion joint, or edge, the concrete shall be removed to the joint or edge, except that where the saw cut would fall within 12 inches of a score mark, the saw cut shall be made in and along the score mark. Curb and gutter shall be sawed to a depth of 1½-inches on a neat line at right angles to the curb face.
- 3. "Concrete Pavement. Concrete pavement shall be removed to neatly sawed edges. Saw cuts shall be made to a minimum depth of 3 inches. If a saw cut in concrete pavement falls within 3 feet of a construction joint, cold joint, expansion joint or edge, the concrete shall be removed to the joint or edge. The edges of existing concrete pavement adjacent to trenches, where damaged subsequent to saw cutting of the pavement, shall again be saw cut to neat straight lines for the purpose of removing the damaged pavement areas.

300-2.7 Selected Material.

The text of Subsection 300-2.7 of the Standard Specifications is hereby deleted and replaced with the following:

Selected materials encountered in the excavations within the project limits that meet the specifications for base material, trench bedding or backfill, topsoil, or other specified materials shall be used as shown on the Plans, in the Specifications, or as directed by the Engineer. Topsoil excavated may be considered only for the purpose of backfilling areas to be planted.

300-2.9 Payment.

The first sentence of Subsection 300-2.9 of the Standard Specifications is hereby amended as follows:

Payment for **Unclassified Excavation** shall be considered as included in other items of works and shall include full compensation for all labor, materials, tools, incidentals required for excavation, compaction, grading, embankment grading, importing or exporting of soil, and equipment as required to perform the work.

## SECTION 301 - SUBGRADE PREPARATION, TREATED MATERIALS AND PLACEMENT OF BASE MATERIALS

## 301-1 SUBGRADE PREPARATION

301-1.3 Relative Compaction.

The first paragraph of Subsection 301-1.3 of the Standard Specifications is hereby deleted and replaced with the following:

When pavement is to be placed directly on subgrade material, the top 6 inches (150 mm) of subgrade material shall be compacted to a relative compaction of 95 percent. When base or subbase material, curb, gutter alley pavement, driveways, or sidewalk are to be placed on the subgrade material, the top 6 inches (150 mm) of such subgrade material shall be compacted to a relative compaction of 95 percent.

## 301-2 UNTREATED BASE

301-2.4 Measurement and Payment.

Add the following:

Measurement and Payment for **Remove and Construct 7-Inch Thick Class 2 AB** shall be per **Cubic Yard (CY)** and shall include but not limited to furnishing all labor, tools, material, equipment, sawcutting, hauling, disposal, excavation, subgrade preparation, compaction, hauling, and incidentals for doing all work involved in construction of the base to the lines and grades shown on the plans, and no additional compensation will be allowed therefore.

## SECTION 302 - ROADWAY SURFACING

## 302-5 ASPHALT CONCRETE PAVEMENT

302-5.1 General. Subsection 302-5.1 General is hereby amended thereto by adding the following paragraphs:

Cracks, joints, and holes to be filled shall be cleaned after cold milling.

AC for AC pavement repairs and for PCC pavement repairs shall be placed the same day as removals are performed.

Asphalt concrete material used for remove and replace repairs within the roadway shall be Class and Grade C2-PG 64-10.

302-5.4 Tack Coat.

Asphalt tack coat material shall be Thermoplastic Polymer Modified HPS No Track Tack (No Track Tack) by Marathon Petroleum/Centennial Petroleum, or an approved equal.

This item shall consist of full coverage of No Track Tack to be applied as tack coat between all contact surfaces for overlay and patch repairs. The Material is to be applied at 325 to 425 degrees F with a distributor truck at typical application rates of 0.08 to 0.15 gal/square yard. The exact application rate will be determined by surface conditions at time of application.

Test	Method	Typical Properties	Specification
Digested whole tire rubber		2	1-3
Softening Point Degree C	D36	74	71 Min
Penetration @ 25 Deg. C	D-5	16	6-18 Min
100g, 5 sec, Dmm			
Brookfield Viscosity @ 275	D4402	1100	3000 Max
Deg. F cPs*			
Brookfield Viscosity @ 350	D4402	240	350 Max
Deg. F cPs*			

The Thermoplastic Polymer Modified HPS No Track Tack shall meet the following criteria:

\*BKF LV II, spdl #21 @ 20 RPM

The tack coat shall be applied to the existing pavement on the areas to receive the ARHM or AC, or slurry where specified. The Engineer shall approve the exact rate and number of applications. Two heavy coats of SS 1h shall be applied to vertical joints for patching. All contact surfaces with new asphalt shall be painted tack coat immediately before the asphalt concrete is placed.

The tack coat shall be applied as specified in Subsection 302-5.4 of the Standard specifications and these special Provisions. Thermoplastic Polymer Modified No Track Tack shall be applied only when the existing surface is dry and the atmospheric temperature is 50 deg. F and rising. NO material shall be applied when rain is imminent.

The Thermoplastic Polymer Modified No Track Tack shall be heated slowly to 325-425 degrees F. At no time shall the product be heated above 450 degrees F. The product shall be applied

through a distributor truck equipped with a heating unit and shall maintain tack coat at or above 325 degrees F. It shall be equipped with a full circulating spreader bar and pumping system capable of applying the Thermoplastic Polymer Modified No Track Tack material within + 0.01 gallons per square yard tolerance of specified application rate and give uniform covering of the surface to be treated. The distributor shall also include a tachometer, pressure gauge, and volume measuring device and thermometer. The application rates shall be 0.15 gallons per square yard for all ARHM or AC overlay and slurry seal (where specified) or as otherwise directed by the Engineer. If the pavement temperature reaches over 130 degrees F, the application rate will be reduced to minimum 0.08 gallons per square yard on overlay applications.

Paving asphalt shall not be applied until the preparation of the existing surface has been completed and thoroughly cleaned, and then only so far in advance of placing the asphalt concrete overlay as permitted by the Engineer. The No Track Tack shall not be left exposed overnight.

Existing concrete curb faces and all concrete not to be overlaid shall be protected against disfigurement from the asphalt tack coat. Residue of the material shall be removed from concrete surfaces to return the concrete to its original condition unless otherwise directed by the Engineer.

Excessive tracking of tack coat onto adjacent pavements will require immediate clean-up. If significant amounts of asphalt tack coat are tracked onto existing adjacent pavements, the contractor shall be required to clean it off to the satisfaction of the City Engineer or provide a slurry seal to restore the pavement at their own expense. This shall apply to the entirety of asphalt haul routes to and from the project sites.

On all vertical joins of AC patching, apply SS-1H tack coat uniformly in two coats of .20 gallons per square yard each with full "break" in between, or .20 gallons per square yard of HPS No Track Tack uniformly in one coat. Tack coat shall not be applied when the temperature of the surface to be tacked is below 40° F in the shade. A tack coat shall be applied at the following:

- 1. Pavement joins;
- 2. Areas where new pavement meets existing pavements;
- 3. Areas where lift sections from pavement placed on different days meet;
- 4. Trenches;
- 5. Areas where existing striping has been sandblasted; and
- 6. Raised valves and manhole covers.

302-5.5 Distribution and Spreading. Contractor shall provide 20-foot long automatic screed control on both sides of the paving machine for all paving with paving machine, as directed by Engineer.

The asphalt concrete as delivered shall be deposited directly into the hopper of the spreading and finishing machine. Truck transfer and bottom-dump trucks are not allowed.

Each paving machine used will require a paving foreman for each machine along with a full set of rollers as specified and two rakers and one shoveler laborer at a minimum.

302-5.6 Rolling. Rolling along a joint shall be such that the widest part of the roller is on the hot side of the joint.

Rubber tire rollers shall be used on any leveling course.

Three rollers shall be provided for installation of AC greater than 200 tons per hour, regardless of thickness.

302-5.7 Joints. Join lines between successive runs shall be within 6 inches of lane lines or center of street or a minimum of 14 feet outside of the outer most lane line or center of street, or 5 to 6 feet from a lane line or center of street and within a lane. The joint pattern for all pavement layers shall be submitted in writing to the Engineer for review and approval 2 weeks in advance of the first lift of pavement to be placed. No exceptions to the specified requirements for joints shall be anticipated, and the Engineer's decision shall be final.

302-5.8 Manholes (and Other Structures).

Adjustment of manholes and other surface facilities shall comply with Section 403-3 MANHOLE ADJUSTMENT AND RECONSTRUCTION. .

302-5.9 Measurement and Payment.

Measurement and payment for **Construct 1.5-Inch Thick Conventional AC Overlay** shall be at the contract price per **TON** (**TN**) and include full compensation for all labor, materials, tools, equipment, and incidentals required to construct AC overlay to the lines and grades shown on the plans. This bid item will include furnishing the material, placement, compaction, prime coat, tack coat, crack filling, tree root trimming, and all other work required to result in an asphalt pavement meeting the requirements of the specifications.

Measurement and payment for **Remove and Construct 3-Inch Thick AC Pavement** shall be at the contract price per **TON** (**TN**) and include full compensation for all labor, materials, tools, equipment, saw cutting, excavation, hauling, disposal, placement, compaction, prime coat, tack coat, asphaltic emulsion coating on vertical surfaces to abut the new pavement, and incidentals required to construct AC pavement to the lines and grades shown on the plans.

## SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

# 303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS

303-5.1.1 General is hereby amended thereto by adding the following paragraphs:.

Concrete areas behind sidewalks, driveways and right-of-way shall be considered as

walks. The Contractor shall protect all new concrete installations from damage by others (subcontractors or the general public such as, blemishes, water stains, stress cracks, graffiti markings, etc.). The removal and replacement of damaged concrete work shall be performed and no additional cost to the Agency (City). Concrete sidewalk shall be a minimum 4" thick over native soil compacted to a minimum of 95% relative compaction per the Standard Plans for Public Works Construction 112-2 and 113-2.

Actual limit of concrete removal shall extend to nearest score mark or joint, if nearest score mark or joint is within 3' limit of removal. Residual from any saw-cutting shall be removed by vacuum. The downstream drain inlet shall be protected. In no case shall the residual be allowed to enter the storm drain system.

Sawcutting shall be accomplished by the use of a power driven saw. The depth of the cut shall be deep enough to provide a clean, straight break without loosening, cracking, or damaging adjoining asphalt or concrete. A clean sawcut edge shall be maintained until new concrete sidewalk is constructed. The exact location of sidewalk removal shall be approved by the City Engineer in the field. Generally, sawcuts shall be on existing joints or score mark.

All necessary sawcutting of existing concrete sidewalks shall be to the lines as required by the City Engineer. Sawcutting shall be included in the unit price and no further compensation shall be made.

It is Contractor's responsibility to protect all existing adjacent features such as landscaping, irrigation system, property's fence/wall/gates, curb and gutter, pull boxes, utility boxes, and etc. in place per subsection 400-1 All damages to these items shall be fixed to the satisfaction of City Engineer without any additional compensation.

Concrete sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the City Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. The Contractor shall remove and replace any new concrete work with graffiti markings and blemishes at no additional cost to the City.

Unless otherwise specified, soil in subgrade for curb and gutter shall be compacted to a relative compaction of ninety-five (95) percent in the top six (6) inches of subgrade.

In areas where new concrete, curbs, and gutters are adjacent to asphalt paving, a twofoot wide strip of new paving (slot paving) will be required. In areas where new curb ramps are adjacent to asphalt paving the new paving (slot paving) shall comply with accessibility requirements. Existing base material will be compacted to 95% compaction or better. The new pavement shall be 6-inch thickness full depth asphalt concrete paving. Where new asphalt concrete is being placed against asphalt concrete or Portland Cement Concrete, tack coat shall be applied to vertical edges.

Where new curbs are constructed the area at back of curb shall be filled, graded to drain, and improvements replaced in-kind to match the existing adjacent improvements.

Detectable warning surface (truncated domes) for curb ramps shall be Cast-in-Place System per Armor Tile Part No. ADA-C-3648 or approved equal, unless otherwise noted. Color shall be yellow or City select.

Payment of detectable warning surface shall be included in the unit price bid for removal and construction of new curb ramps per SPPWC Standard Plan No. 111-5.

#### 303-5.9 Measurement and Payment

Payment for **Remove and Construct Curb per SPPWC Std Plan 120-3**, **Type A1-6**shall be paid at the contract price per **Linear Foot (LF)** and shall include full compensation and include but not limited to furnishing all labor, materials, tools, equipment, hauling, disposing, slot pavement, tack coat, mesh/wire reinforcement, saw cutting and incidentals for the construction of curb complete in place and no additional compensation will be made therefor.

Payment for **Construct Curb Extension Per Detail** shall be paid at the contract price per **Each (EA)** and shall include full compensation and include but not limited to furnishing all labor, materials, tools, sawcutting, mesh/wire reinforcement, excavation, equipment, hauling, disposing, curb, truncated domes, gutter, saw cutting and incidentals for the construction of curb extension complete in place and no additional compensation will be made therefor.

Add the following:

## WHEEL STOPS

Section includes specifications for precast concrete wheel stops for vehicular parking stalls in parking lots as indicated.

Submit shop drawings of stops, including installation details and attachment details to at-grade concrete and asphalt pavement, for approval.

Submit manufacturers' product data of precast stops and epoxy adhesive for approval.

Precast wheel stops shall be manufactured for the intended purpose by a company or firm specializing in the manufacture of precast concrete parking appurtenances.

Precast, 3.5% minimum air-entrained concrete; 4000 psi minimum compressive strength. Each stop shall be reinforced with two No. 4 deformed steel reinforcing bars, minimum. Provide chamfered corners and drainage slots on underside, and provide holes for dowel-anchoring to substrate. Unless indicated otherwise, provide stops of half octagonal configuration and 48-inch length.

Adhesive for Anchoring Stops to At-Grade Concrete Pavements, and At-Grade Asphalt Pavements: Epoxy adhesive manufactured for the purpose, similar and equal to the adhesives specified in Caltrans Standard Specifications, Section 95 Epoxy.

Steel Bars for Installation: Galvanized 5/8" diameter steel dowels or galvanized No. 5 steel reinforcing bars.

Securely attach wheel stops into at-grade concrete and at-grade asphalt pavement with not less than two galvanized steel dowels embedded in holes cast into wheel stops. Firmly bond each dowel to wheel stop and to pavement. At concrete pavement, drill holes in pavement for dowels.

All existing holes or epoxy left over from removals shall be filled or removed prior to resurfacing.

Wheel stops for ADA stalls shall be painted blue, color matching ADA stall stripes.

Payment for **Install New Wheel Stops** shall be paid at the contract price per **Each (EA)** and shall include full compensation and include but not limited to furnishing all labor, materials, tools, equipment and incidentals, including epoxy and steel dowels required for installation, and for doing all the work involved and no additional compensation will be allowed therefor.

Payment for **Remove Existing Wheel Stops** shall be paid at the contract price per **Each (EA)** and shall include full compensation and include but not limited to furnishing all labor, materials, tools, equipment and incidentals, including removing existing steel dowels, and for doing all the work involved and no additional compensation will be allowed therefor.

## SECTION 309 – MONUMENTS

## 309-2 MATERIALS

The second paragraph of Subsection 309-2, Materials, is hereby deleted

## 309-4 PAYMENT

The text of Subsection 309-4 of the Standard Specifications is hereby deleted and replaced with the following:

The cost for restoration of monuments is included in other items of work for which the monument required restoration and no additional compensation will be made therefor.

## PART 4

## EXISTING IMPROVEMENTS

## SECTION 400 - PROTECTION AND RESTORATION

## 400-1 GENERAL

Add to end of first paragraph of Subsection 400-1 the following:

All costs to the Contractor for protecting, removing, restoring, relocating, repairing, replacing, or reestablishing existing improvements shall be included in the Bid Proposal.

The first sentence of the second paragraph of Section 400-1 of the Standard Specifications shall not be incorporated, and shall instead be replaced with the following:

The Contractor shall relocate, repair, replace, or reestablish all existing improvements within the Project limits which are not designated for removal (e.g., curbs, sidewalks, driveways, signal loops, fences, walls, sprinkler systems, signs, Utility installations, pavements, structures, etc.) which are damaged or removed as a result of the Contractor's or the Subcontractors' operations or as required by the Plans and Specifications.

Subsection 400-1 GENERAL paragraph three (3) is hereby deleted and amended thereto by the following paragraph:

Maintenance of street and traffic signal systems that are damaged, temporarily removed or relocated shall conform to 701-2. Where existing traffic striping, pavement markings, and curb markings are damaged or their reflectivity reduced by the Contractor's operations, such striping or markings shall also be considered as existing improvements and the Contractor shall repaint or replace such improvements.

## 400-2 PERMANENT SURVEY MARKERS

Subsection 400-2 PERMANENT SURVEY MARKERS paragraph two (2) is hereby deleted and amended thereto by the following paragraph(s):

The Contractor shall submit to the Engineer a minimum of seven (7) days prior to the start of Work a list of controlling survey monuments which may be disturbed. The Contractor shall bear the expense of replacing any survey monuments that may be disturbed without permission. Payment of preservation and replacement of survey monuments shall be made per Subsections 3-10 Surveying, 309-4 Payment and 400-3 Payment. Replacement shall be done only under the direction of the Engineer by Registered (licensed) Licensed Land Surveyor of a Registered Civil engineer authorized to practice land surveying within the state. The Contractor will hire a licensed Engineer to:

a) Set survey points outside the affected work area that reference and locate each controlling survey monument that may be disturbed,

- b) File a Corner Record or Record Survey with the County Surveyor after setting the survey points to be used for re-establishment of the disturbed controlling survey monuments, and
- c) File a Corner Record or Record Survey with the County Surveyor after re-establishment of the disturbed controlling survey monuments.

## 400-3 PAYMENT

Subsection 400-3 PAYMENT first paragraph is hereby deleted and amended thereto by the following paragraph:

No separate or additional payment will be made for 1) protection of existing improvements, and 2) restoration of existing improvements. All costs to the Contractor for protecting, removing, restoring, relocating, repairing, replacing, or reestablishing existing improvements shall be included in the bid. Permanent survey markers will be restored at the Contractor's own expense.

## 400-1.2 PRESERVATION OF PROPERTY

400-1.2.1 Repair / Modification of Existing Turf Area

- (a) All existing lawn and landscape areas disturbed by the Contractor as part of or as a result of the work shall be prepared and resodded and/or replanted in kind, except as otherwise designated in the Plans. Existing irrigation systems shall be repaired and restored to operating condition to the satisfaction of the Engineer.
- (b) Sprinklers and Improvements. The Contractor shall coordinate work with the City's representative. The Contractor shall test and document the condition of existing sprinkler/irrigation system, where indicated as "protected in place" or "to remain" before beginning required removals or excavation.

Contractor shall field verify with Engineer exact location of all irrigation components such as, but not limited to, valves, sprinkler heads, piping, etc., prior to start of construction. Unless otherwise indicated on plans, all irrigation components shall be protected in place. However, where there are conflicts with new sidewalks, the water supply lines, valves, and sprinkler heads shall be modified and adjusted to grade or relocated, as necessary. The reinstallation of irrigation components shall be performed in the same manner in which they were originally installed. The Contractor shall restore private irrigation system to documented conditions after completing adjacent work.

SECTION 401 - REMOVAL

## 401-2 ASPHALT CONCRETE PAVEMENT

Add the following:

Bituminous pavement shall be removed to neatly sawed edges. Saw cuts shall be to a minimum depth of 3 inches. Where only the surface of existing bituminous pavement is to be removed, the method of removal shall be approved by the Engineer, and a minimum laying depth of 1 inch of new pavement material shall be provided at the join line. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be saw cut to neat straight lines before resurfacing to ensure that all areas to be resurfaced are accessible to the rollers used to compact the subgrade or paving materials.

Bituminous pavement on curb and gutter, sidewalk or drive approaches shall be removed by heating with a torch to soften the pavement without creating smoke. Softening shall be performed until the bituminous material can be easily scraped away down to the underlying PCC surface. The blade used for scraping shall be maintained straight along its edge and clean. Bituminous material shall be scraped in this manner until it is completely removed.

## 401-3 CONCRETE AND MASONRY IMPROVEMENTS.

401-3.2 Concrete Curb, Walk, Gutters, Cross Gutters, Curb Ramps, Driveway, and Alley Intersections.

Concrete shall be removed to neatly sawed edges with saw cuts made to a minimum depth of  $1\frac{1}{2}$ -inches. Concrete sidewalk, or driveway to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 30 inches in either length or width. If the saw cut in sidewalk, access ramp, or driveway would fall within 30 inches of a construction joint, expansion joint, or edge, the concrete shall be removed to the joint or edge, except that where the saw cut would fall within 12 inches of a score mark, the saw cut shall be made in and along the score mark. Curb and gutter shall be sawed to a depth of  $1\frac{1}{2}$ -inches on a neat line at right angles to the curb face.

All new concrete shall be placed within 3-working days after removal of existing concrete. Excavations shall not be left open over weekends or holidays.

## SECTION 402 - UTILITIES

## 402-1 LOCATION

## Add the following:

The location and existence of any underground Utility or substructure has not been obtained. The methods used and costs involved to locate existing elements, points of connection and all construction methods are the Contractor's sole responsibility. Accuracy of information furnished, as to existing conditions, is not guaranteed by the City. The Contractor, at its sole expense, must make all investigations necessary to determine locations of existing elements, which may include contacting Underground Service Alert and other private underground locating firm(s), utilizing specialized locating equipment, hand trenching, or both. For every Dig Alert Identification Number issued by Underground Service Alert during the course of the Project, the Contractor must submit to the City the

following form. The Contractor shall be responsible for preserving the integrity of the existing underground utilities at the site.

The following form is required for every Dig Alert Identification Number issued by Underground Service during the course of the Work. Additional forms may be obtained from the City upon request:

Subsection 402-1.1 General paragraph one (1), only, is hereby deleted and amended thereto by the following paragraph:

402-1.1 General. Known utilities and their respective owners are shown on the Plans or specified in the Special Provisions. Where underground utilities are shown on the Plans, the Contractor shall assume every property parcel will be served by a connection for each type of utility. The location and existence of any underground utility or substructure was obtained from a search of available records. No guarantee is made or implied that the information is complete or accurate. It shall be the Contractor's responsibility alone to determine the exact location of underground utilities or substructures of every nature and to protect them from damage. The Contractor shall excavate and expose all high-risk underground facilities. The Contractor shall notify the owners of all utilities and substructures as set forth in the General Specifications.

## 402-1.1.1 Entry by Utility Owners

The right is reserved to the owners of public Utilities or franchises to enter the Project site for the purpose of making repairs or changes in their property that may be necessary as a result of the Work as well as any other reason authorized by the City. When the Contract Documents provide for the Utility owners to alter, relocate or reconstruct a Utility, or when the Contract Documents are silent in this regard and it is determined by the Engineer that the Utility owners must alter, relocate or reconstruct a Utility, the Contractor shall schedule and allow adequate time for those alterations, relocations or reconstructions by the respective Utility owners. City employees and agents shall likewise have the right to enter upon the Project site at any time and for any reason or no reason at all.

## 402-2 PROTECTION

If Contractor damages or breaks the Utilities, it will be the Contractor's responsibility to repair the Utility at no cost to the utility company or the City. If not fixed in a timely manner as deemed by the City Engineer, the utility company has the right to complete the repairs and assess the Contractor for all applicable costs.

Add the following paragraphs at the end of Subsection 402-2:

At least two Working Days prior to commencing work within the area, the Contractor shall request the utility owners to identify or otherwise indicate the location of their subsurface facilities. It shall be the Contractor's responsibility to determine the location and depth of all utilities including service connections which have been marked by the representative owners and which he believes may affect or be affected by the work. Full compensation for the ascertainment of utility locations and depths shall be considered included in the prices bid for the other items of work.

All utilities shall be notified by the Contractor in advance, according to their respective advance notice requirements, prior to excavating adjacent to, altering, or in any way modifying their facilities. The Contractor, at his expense, shall maintain in service all existing utilities. Should interruption of such utilities become necessary, the property owners and residents affected shall be notified 48 hours before the interruption.

The Contractor shall protect, support, or perform any other work necessary in order to maintain the operation of utilities in the proximity of the work area. The Contractor shall inform the Engineer in writing of all utilities omitted from or shown incorrectly on the contract plans. The Contractor shall not be entitled to damages or additional payment for delays attributable to utility relocations or alterations not shown or incorrectly delineated on the contract plans. The Contractor shall conduct his operations so as to permit access to the work site by any affected utility necessary for the relocation or modification to the utility system at no cost to the City.

Any interference by the Contractor with City-owned facilities such as, but not limited to, sewer, water, or storm drain that, in the opinion of the Engineer, creates a safety or health hazard and is not quickly repaired, the damaged facilities may be repaired by City forces and all costs of repairs will be deducted from contract payments.

## 402-3 REMOVAL

Facilities encountered during the prosecution of the Work that are determined to be abandoned shall be removed by the Contractor as required for the Work, unless directed otherwise by the Engineer. The remaining portion of the existing Utility which is left in place shall be accurately recorded, in elevation and plan, on the control set of Contract drawings.

## 402-4 RELOCATION

Subsection 402-4 RELOCATION the second sentence of the fourth paragraph is hereby deleted and amended thereto by the following sentence:

When not otherwise required by the Plans and Specifications and when directed by the Engineer, the Contractor shall arrange for the relocation of service connections, as necessary, between the meter and property line, or between the meter and limits of construction.

Add the following paragraph:

The Contractor shall cooperate fully with all Utility forces of the City or forces of other public or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities that interfere with the progress of the Work. The Contractor shall schedule the Work so as to minimize interference with the relocation, altering, or other rearranging of facilities.

## 402-5 DELAY DUE TO UTILITY CONFLICTS

Subsection 402-5 DELAY DUE TO UTILITY CONFLICTS the second paragraph is hereby deleted and amended thereto by the following two (2) paragraphs:

The Contractor will not be entitled to damages or additional payment for delays attributable to utility relocations or alterations if correctly located, noted and completed in accordance with Subsection 402-1. The Contractor shall ascertain further detailed information to coordinate his work to this effect.

All notification of utility companies shall be by the Engineer based on Contractor's request as submitted to the Engineer at least 24 hours in advance of the needed work. Any costs for delay of the Contractor of utility companies in this regard shall be assigned to the Contractor, if these costs are a result of the Contractor's request being untimely in any respect, except for the utility company not responding at their agreed time.

Add the following subsections:

## 402-6 COOPERATION

The Contractor's attention is directed to the fact that Work may be conducted at or adjacent to the site by other contractors during the performance of the Work under the Contract. The Contractor shall conduct its operations so as to cause a minimum of interference with the work of such other contractors, and shall cooperate fully with such contractors to provide continued safe access to their respective portions of the site, as required to perform work under their respective contracts. Compensation for compliance shall be included in the various items of the Work, and no additional compensation shall be allowed therefor.

## <u>SECTION 403 – MANHOLE ADJUSTMENT AND RECONSTRUCTION</u> 403-1 GENERAL.

Utility manhole and vault frames and covers within an area to be paved or graded will be set by the owners thereof to finished grade. Sewer and storm drain manhole frames within the area to be paved or graded shall be set to finish grade by the Contractor. The Contractor shall remove all debris from the interior of manholes and shall clean all foreign material from the top of the frams and covers.

403-2 Manholes In Concrete Pavement.

Manholes in concrete pavement shall be set to finish grade prior to paving.

403-3 Manholes In Asphalt Concrete.

Sewer and storm drain structures extending 2 inches (50mm) or more above the new subgrade shall be removed by the Contractor to the new subgrade before paving. Other structures shall be lowered by their owners. Structures projecting less than 2 inches (50mm) above the subgrade may be paved over and later adjusted to grade. The top of reset manholes and other structures shall conform to the smoothness requirement specified in 302-5.6.2.

All structures from which manhole frames and covers have been removed to faciliate paving shall be temporarily covered with a steel plate by the Contractor. When this procedure is impractical, such as for large vaults, or special structures, remodeling or reconstruction shall be completed to finish permanent surface prior to paving operations.

The Contractor shall notify utility owners at least 7 Days in advanced of the need to commence work requried prior to paving operations and again for work requried after paving operations. If the Engineer determines the utility owner will not complete adjustment of its facilities within 10 Working Days of the completion of the surface course of pavement, the facilities will be adjusted by their owner under a separate procedure established by the Agency and the Contractor will be absolved for any further responsibility therewith.

After the pavement has been completed, the necessary portions of the subgrade, base, and pavement shall be neatly removed, the structure built up, and the manhole frame set to within 1-1/2 inches (37.5 mm) of the surface with concrete pavement conforming to 201-1 and 302-6. The Contractor shall fill the remaining 1-1/2 inches (37.55mm) with the asphalt concrete surface course mixture. This material shall be palved and compacted to conform to the appearance of the surrounding pavement.

## 403-5 Payment.

Payment for **Adjust utility manhole to grade** shall be paid at the contract price per **Each** (**EA**) and shall include full compensation and include but not limited to furnishing all labor, materials, tools, equipment, and incidentals for the Adjust utility manhole to grade and no additional compensation will be made therefor.

Payment for **Adjust utility vault to grade** shall be paid at the contract price per **Each** (**EA**) and shall include full compensation and include but not limited to furnishing all labor, materials, tools, equipment, and incidentals for the Adjust utility vault to grade and no additional compensation will be made therefor.

## 404 COLD MILLING

## 404-1 GENERAL

Subsection 404-1 General is amended thereto by adding the following paragraph:

Depth of cold mill at gutter to provide 3/8" lip is measured from edge of gutter. Any thickness above edge of gutter is to be included with the cost of the cold mill and no additional compensation will be made therefor.

#### 404-2 MILLING MACHINES

Subsection 404-2.2 Milling to a Specified Elevation is amended thereto by adding the following paragraph:

b) The straight edge grade along the edge of the cold plane area shall not deviate more than <sup>1</sup>/<sub>4</sub>-inch below nor 1/8-inch above the grade specified in the Plans or Specifications.

#### 404-7 WORK SITE MAINTENANCE

Section 404-7 is amended thereto by adding the following paragraphs:

Cold milling will not be considered complete until all loosened material is removed from the project site. Paving shall not commence until the day after cold milling is complete.

Cold milled streets shall be approved by the Engineer as completed for cold milling prior to paving. Sweepers used for cold mill sweeping shall not enter on the streets approved as completed for cold milling.

#### 404-12 PAYMENT

Payment for **Cold Mill Existing AC Pavement 1.5**" **Uniform Depth** shall be paid at the contract price per **square foot (SF)** and include full compensation and include but not be limited to furnishing all labor, materials, tools, equipment and incidentals required to cold mill existing asphalt concrete pavement. and no additional compensation will be allowed therefor.

## PART 7

#### STREET LIGHTING AND TRAFFIC SIGNAL SYSTEMS

#### Delete the Part complete and replace with the following:

All equipment, materials, and components for conduit, pull box and lighting installation shall conform to the 2023 Caltrans <u>Standard Plans</u> and <u>Revised Standard Specifications</u>, Section 86, "Electrical Work" and Section 87 "Electrical Systems" unless otherwise noted in these Special Provisions and on the Plans. These Plans and Specifications are hereinafter referred to as State Standard Plans and State Standard Specifications. Copies of these documents are available for review at the Caltrans website – <u>https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications</u>

#### SECTION 86 - GENERAL

86-1.01 General.

86-1.01C Submittals. The schedule of values (cost breakdown) shall be submitted to the Engineer in conjunction with equipment list and drawings.

Equipment List and Drawings shall be submitted to the Engineer within ten (10) working days after the date of the Notice of Contract Approval.

Materials lists, manufacturer's data, brochures, technical data, etc., shall be labeled and identified, and shall be submitted in bound booklet form.

The Contractor shall retain one copy of all approved material lists and samples at the job site, readily accessible for inspection by the Engineer. Said materials lists and samples shall be the basis for approval or rejection of work.

The Contractor shall guarantee the entire work constructed under this contract and will fully meet all requirements as to quality of workmanship and materials furnished by him. The Contractor shall make, at the Contractor's expense, any repairs or replacements made necessary by defects in workmanship or materials that becomes evident within 1 year after acceptance of work by the Agency and to restore to full compliance with the requirements of these Specifications, any part of the work which during the 1-year period is found to be deficient with respect to any provision of the Plans and Specifications. The Contractor shall make all repairs and replacements promptly upon receipt of written orders from the Engineer. If the Contractor fails to make the repairs and replacements promptly, the City may do the work and the Contractor and his surety shall be liable to the City for the cost.

Whenever any work or equipment is to be guaranteed or maintained by a manufacturer, supplier, or subcontractor, said obligation shall be that of the Contractor.

All guarantees shall be in writing and delivered to the Engineer by the Contractor prior to final acceptance of the work.

86-1.02 Materials.

86-1.02B Conduit. Conduit shall be Schedule 80 PVC under sidewalks.

Conduit shall be a minimum 1.5-inch unless otherwise noted. PVC conduit shall have additional ground wires and connectors for compliance.

Conduit bends shall be factory bends.

Bell bushings are required for all conduit ends. The ends of conduits terminating in pull boxes and controller cabinets shall be sealed with sealing compound approved by the Engineer after conductors have been installed.

Conduit runs are shown in schematic form only. Actual installations shall be done in the most direct manner.

Conduit shall include mule tape.

86-1.02C Pull Boxes. Pull boxes shall be Christy type or equivalent with Fiberlyte lid and bolt down cover design. Cover shall have a non-skid surface. Plastic pull boxes shall not be used. The pull boxes shown on the plans are to be installed as a minimum. The Contractor may, at no additional cost to the City, install additional or larger pull boxes to facilitate the Contractor's work with the approval of the Engineer.

Signal pull boxes shall be No. 5 unless otherwise noted on the construction plans. Pull box lids shall specify "ELECTRICAL" on top of each, as applicable. Pull box extensions shall not be required unless noted on the plans or as directed by the Engineer. All pull boxes shall be new.

A plastic insert between the lid and the pull box shall be furnished and installed to allow easy lid removal.

Pull boxes shall be provided with locking mechanisms as specified in the Caltrans Standard Plans.

All pull boxes shall have vertical proof-load strength of 111kN. This load shall be placed anywhere on the box and cover for a period of one minute without causing any cracks or permanent deformations.

Pull boxes and covers in the sidewalk or behind the curb shall be plastic, polymer concrete, or Engineer approved equivalent, unless otherwise noted on the Plans.

86-1.02J Standards, Poles, Pedestals, and Posts.

New lighting poles shall be ATG LED Lighting or equivalent model approved by the City.

86-1.02K Luminaires.

86-1.02K(1) General. Lighting shall be solar powered LED luminaires.

Light-Emitting Diode (LED) Luminaires.

LED luminaires shall be Westgate LFX-XL Series fixture or equivalent model approved by the City.

86-1.02M Photoelectric Controls. Photoelectric control shall be Type IV.

## SECTION 87 – ELECTRICAL SYSTEMS

87-1 GENERAL

87-1.03 Construction.

87-1.03A General.

No work shall commence and no material or equipment shall be stored at the jobsite until such time that the Contractor notifies the Engineer in writing of the date that all electrical materials and equipment are to be received. Upon receipt of said notification by the Engineer, the Contractor may commence work within 5-working days prior to said delivery date.

Where the Contractor-installed facilities are damaged prior to final acceptance by the Engineer, the Contractor shall repair or replace such facilities at his own expense.

The job site shall be maintained in a neat and orderly condition at all times and areas of sidewalk removal to be left open for less than 5 days shall be covered with plywood sheeting and barricades. Areas to be left open more than 5 days shall be patched with temporary AC pavement, smoothed to provide a level finished walking surface.

87-1.03B Conduit Installation. Conduit depth **shall not** exceed 60 inches below finished grade.

New conduit **shall not** pass-through foundations or standards.

87-1.03C Installation of Pull Boxes. No pull box shall be located in or within 1-foot of any curb ramp.

Pull boxes shall be placed with their tops flush with surrounding finish grade or as directed by the Engineer.

87-1.03E Excavation and Backfilling for Electrical Systems. Excavation for foundation shall be hand dug until clear of obstructions.

## PAYMENT

Payment for Install Parking Lot Lighting Conduit and Conductors Complete shall be paid at the

contract price **per Linear Foot (LF)** and shall include, but not limited to full compensation for furnishing all labor, material, tools, and equipment.

Payment for **Install Parking Lot Pull Box** shall be paid at the contract price **per Each (EA)** and shall include, but not limited to full compensation for furnishing all labor, material, tools, and equipment.

Payment for Install Parking Lot Luminaire, Pole and Foundation Complete shall be paid at the contract price per Each (EA) and shall include, but not limited to full compensation for furnishing all foundations, poles, luminaire, arms, conductors, labor, material, tools, and equipment.

Payment for **Remove Existing Parking Lot Lighting Pole and Luminaire Complete**, including removing foundation complete, shall be paid at the contract price **per Each (EA)** and shall include, but not limited to full compensation for furnishing all labor, material, tools, and equipment.