



ENGINEERING DIVISION

NOTICE INVITING INFORMAL BIDS

AND

PROJECT SPECIFICATIONS

for

REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND BELLEVUE ROAD PROJECT

For use in conjunction with the STANDARD SPECIFICATIONS, dated 2018, and the STANDARD PLANS, dated 2018, of the State of California Department of Transportation, and the LABOR SURCHARGE AND EQUIPMENT RENTAL RATES in effect on the date the work is accomplished.

BID CALL NO.: 697-20 PROJECT NO. 20-6

BID OPENING: February 25, 2021 @ 2:00 P.M. PDT

Michael Hayes
City Engineer

03 February 2021

Date

CITY PROJECT NO. 20-6

The special provisions contained herein have been prepared by or under the direction of the following Registered Persons.



Michael Hayes, PE
City Engineer

TABLE OF CONTENTS

NOTICE TO BIDDERS	NTB1
SPECIAL PROVISIONS	SP1
DIVISION I GENERAL PROVISIONS	SP2
1 GENERAL	SP2
2 BIDDING	SP3
3 CONTRACT AWARD AND EXECUTION	SP5
5 CONTROL OF WORK	SP7
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC	SP7
8 PROSECUTION AND PROGRESS	SP9
9 PAYMENT	SP9
86 ELECTRICAL WORK	SP10
TECHNICAL SPECIFICATIONS	TS1
SECTION 011100 COORDINATION OF WORK, PERMITS, AND REGULATIONS	TS2
SECTION 012000 MEASUREMENT AND PAYMENT	TS4
SECTION 012200 BID ITEM DESCRIPTIONS	TS5
SECTION 013300 SUBMITTAL PROCEDURES	TS7
SECTION 015100 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS	TS7
SECTION 015725 STORM WATER RUNOFF CONTROL PROGRAM	TS10
SECTION 017410 CLEANING DURING CONSTRUCTION AND FINAL CLEANING	TS13
SECTION 311100 SITE DEMOLITION	TS14

CITY OF ATWATER
ENGINEERING DIVISION
NOTICE INVITING INFORMAL BIDS

Bids open Thursday, February 25, 2021 at 2:00 p.m. PDT

Scope of Work:

The Work generally consists of traffic signal repair and modification and upgrades to the pedestrian crosswalk system.

An onsite pre-bid meeting is scheduled for February 17, 2021 at 10:00 am. This meeting is to inform bidders of project requirements. **Bidder's attendance at this meeting will be mandatory.**

The City will receive sealed informal bids for the **REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND BELLEVUE ROAD PROJECT.**

Project Number: 20-6
Bid Call Number: 697-20

Bid forms for this Work are included in a separate book titled:

CITY OF ATWATER
STATE OF CALIFORNIA
ENGINEERING DIVISION
BID BOOK
FOR
REPAIR AND UPGRADE TRAFFIC SIGNAL
AT WINTON WAY AND BELLEVUE ROAD PROJECT

No bid will be received unless it is made on a bid form furnished by the CITY OF ATWATER ENGINEERING DIVISION. Copies or facsimiles of the bidder's completed and executed bid forms submitted as a bid will be rejected. Each bid must be accompanied by a certified check, cashier's check, or bidder's bond made payable to the CITY OF ATWATER for an amount equal to at least ten percent (10%) of the amount of bid, such guaranty to be forfeited should the bidder to whom the contract is awarded fail to enter into the contract.

The Contractor must have a valid license of Classification A, General Engineering or C-10, Electrical, to perform this Work.

The successful bidder will be required to obtain a City of Atwater Business License before execution of the contract at his own expense.

Bids must be on a unit price basis. All bids are to be compared on the basis of the CITY OF ATWATER'S estimated quantities of work to be done.

Complete work within **15 working days.**

The estimated cost of construction is **\$110,000.**

Copies of plans, special provisions and proposal forms may only be obtained at the office of the City of Atwater, Engineering Division, located at 750 Bellevue Road, Atwater, CA, (209) 357-6233, upon request and payment of **\$30.00 per set, which is nonrefundable and includes sales tax.**

Electronic copies of the plans and specifications (PDF) for this project are available upon request. Said electronic copies are made available solely for the convenience of the prospective bidders (whether as a prime contractor or sub-contractor) on the Project, and are not considered part of the contract documents. No representation or warranty is made, either expressed or implied, with the regard to the accuracy or suitability of said electronic copies for any purpose whatsoever. Utilization or viewing of said electronic copies shall constitute implicit acknowledgement and acceptance of the provisions of this paragraph.

The City will receive sealed informal bids until 2:00 p.m. PDT on the bid open date at the City of Atwater, Engineering Division, located at 750 Bellevue Road, Atwater, CA 95301. Bids received after this time will not be accepted.

The City will immediately open and publicly read the bids at the mentioned location after the specified closing time.

Present bidders' inquires in writing to Jim Vang at the City of Atwater, Public Works and Community Development Department, 750 Bellevue Road, Atwater, CA 95301; fax (209) 356-3168; email: jvang@atwater.org.

Prevailing wages are required on this Contract. The Director of the California Department of Industrial Relations determines the general prevailing wage rates. Obtain the wage rates at the DIR Web site, <http://www.dir.ca.gov/DLSR/PWD>.

The U.S. Department of Transportation (DOT) provides a toll-free hotline to report bid rigging activities. Use the hotline to report bid rigging, bidder collusion, and other fraudulent activities. The hotline number is (800) 424-9071. The service is available 24 hours 7 days a week and is confidential and anonymous. The hotline is part of the DOT's effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General.

California Department of Transportation has made available Notices of Suspension and Proposed Debarment from the Federal Highway Administration. For a copy of the notices, go to http://www.dot.ca.gov/hq/esd/oe/contractor_info. Additional information is provided in the Excluded Parties List System at <http://www.epls.gov>.

The CITY OF ATWATER reserves the right to reject any or all bid proposals and to waive any informalities or irregularities in any bid or in the bidding.

City of Atwater

Michael Hayes, PE
City Engineer

**CITY OF ATWATER
ENGINEERING DIVISION**

**REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND
BELLEVUE ROAD PROJECT**

Project Number: 20-6

COPY OF BID ITEM LIST

(NOT TO BE USED FOR BIDDING PURPOSES)

BASE BID

ITEM NO.	ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY
1	FURNISH AND INSTALL TRAFFIC LOOPS	LS	1
2	INSTALL APS EQUIPMENT	LS	1

**CITY OF ATWATER
ENGINEERING DIVISION**

SPECIAL PROVISIONS

**REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND
BELLEVUE ROAD PROJECT**

ORGANIZATION

This section includes proposed amendments, deletions, and revisions specific to this contract. They are to be considered a part of the Construction Documents and project specifications.

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

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DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to section 1-1.07B:

Contract Documents: Plans, *Notice to Bidders and Project Specifications*, and *Bid Book* and Contract.

Replace the following definitions in section 1-1.07B:

Department/Department of Transportation: The Engineering Division of the City of Atwater

Director: The Director of Public Works of the City of Atwater acting either directly or through properly authorized agent or consultants.

District Director of Transportation: The Director of Public Works of the City of Atwater acting either directly or through properly authorized agent or consultants.

Engineer/Office Engineer: The City Engineer of Atwater

Specifications: Standard specifications, revised standard specifications, special provisions, Project Specifications

1. Standard Specifications: Specifications standard to Department construction projects. These specifications are in a book titled Standard Specifications. (Can also be referred to as "state specifications")
2. Revised Standard Specifications: New or revised standard specifications. These specifications are in a section titled Revised Standard Specifications of a book titled "Notice to Bidders and Special Provisions"
3. Special Provisions: Proposed amendments, deletions, or additions to the Division I General Provisions of the standard specifications.
4. Project Specifications: Includes Special Provisions and Technical Specifications in Contract Documents

State: Refers to City of Atwater

Replace "The Department" in the 1st paragraph in section 1-1.08 with:

Caltrans

Replace section 1-1.12 with:

Make checks and bonds payable to the City of Atwater.

2 BIDDING

Replace section 2-1.06A of the RSS with:

2-1.06A General

Locations for obtaining and viewing Contract documents are listed in the Notice Inviting Informal Bids.

The City will receive sealed informal bids until 2:00 p.m. on the bid open date at the City of Atwater, Engineering Division, located at 750 Bellevue Road, Atwater, CA 95301. Bids received after this time will not be accepted.

The City will immediately open and publicly read the bids at the above location after the specified bid opening time.

The *Notice Inviting Informal Bids and Project Specifications* includes the *Notice Inviting Informal Bids*, revised standard specifications, and special provisions.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the City or any other person will not affect the risks or obligations assumed by you or relieve you from fulfilling any of the conditions of the Contract.

A Non-Collusion Affidavit is included in the bid book (Public Contract Code §7106). Signing the bid also constitutes signature of the Non-Collusion Affidavit.

Add to section 2-1.07 of the RSS:

Examine all of the various parts of these Documents if contemplating the submission of a bid, and should there be any doubt as to the meaning or intent of the Contract Documents, you must request an interpretation, in writing, by **Friday, February 19 at 5:00 p.m.** Any interpretation or change in the Contract Documents will be made, in the form of addenda to the Documents and will be furnished to all Bidders receiving a set of the Documents. **Addenda will be issued by Tuesday, February 23 at 5:00 pm.** The City is not responsible for any other explanation or interpretations of the Documents.

Request for interpretation must be submitted in writing to:

Jim Vang
Public Works and Community Development Department
City of Atwater
750 Bellevue Road
Atwater, California 95301
Email: jvang@atwater.org

Delete sections 2-1.18 and 2-1.27 of the RSS in their entirety

Replace the 3rd paragraph in section 2-1.33A of the RSS with:

Do not fax forms except for the copies of forms with the public works contractor registration number submitted after the time of bid. Fax these copies to (209) 356-3168. Delete Section 2-1.18 and 2-1.27.

Replace section 2-1.33C of the RSS with:

Submit Bids in a sealed envelope addressed to the City of Atwater, Engineering Division, located at 750 Bellevue Road, Atwater, CA 95301. Each sealed BID must be plainly marked on the outside as “**BID FOR REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND BELLEVUE ROAD PROJECT, Project No. 20-6**”, to be opened at 2 p.m., **Thursday, February 25, 2021**. If submitting by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the City of Atwater, Engineering Division, located at 750 Bellevue Road, Atwater, CA 95301.

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, with ink or typewritten, and the BID form must be fully completed and executed when submitted. Only one copy of the BID form is required.

Replace the 2nd paragraph of section 2-1.34 of the RSS with:

Submit cashier's check, certified check, or bidder's bond with your Bid.

Add Section 2-1.38:

2-1.38 BID PROTEST

2-1.38A General

Any unsuccessful bidder may submit a bid protest. Bid Protests must be submitted under section 2-1.38B. Bid protests not submitted under section 2-1.38B will not be considered.

2-1.38B Procedures

All bid protests must be submitted in writing. Bid Protests must be received no later than 5:00 PM on the tenth (10th) business day following the bid opening.

Deliver bid protest to the following address:

**City of Atwater Engineering Division
750 Bellevue Road
Atwater, California 95301**

The following conditions apply to all bid protests:

1. The bid protest must contain a complete statement of the basis for the protest. The bid protest must identify and explain the factual and legal grounds for the protest, state the facts and refer to the specific portion of the document or the specific statute that form the basis for the protest. Any written materials the protesting bidder believes to be necessary to support the bid protest must be attached to the bid protest. The protest must include the name, address, telephone number, e-mail, and facsimile number of the person representing the protesting party.
2. The party filing the protest must have submitted a bid on the project. A subcontractor of a bidder may not submit a bid protest. A party may not rely on the bid protest submitted by another bidder, but must timely pursue their own protest.
3. The protesting bidder and any other bidder on the contract must promptly provide any information requested by the City staff as part of such investigation.
4. The Director of Public Works will provide a written response to the protestor within ten (10) business days after receiving the bid protest. The decision of the Director is final.
5. These bid protest procedures do not limit the City's ability to reject all bids.

Add to section 2-1.40 of the RSS:

No BIDDER may withdraw a BID within sixty (60) days after the bid opening date. If the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the City and the BIDDER.

Add to section 2-1.46 of the RSS:

The City may make such investigations necessary to determine your ability to perform the WORK, and you will furnish to the City all requested information and data for this purpose. The City reserves the right to reject any BID if it is determined you are unqualified to carry out the obligations of the Agreement and to complete the work

3 CONTRACT AWARD AND EXECUTION

Add to the end of section 3-1.02A

If the contract is awarded, the contract shall be awarded to the lowest responsible bidder for the sum of the base bid plus any bid alternates the City chooses to award.

To ensure impartiality when selecting bid alternates, each bidder will be assigned an identification number when turning in his/her bid form to the City. The bidder's names will not be revealed to City staff selecting the bid alternates until the selection of which bid alternates to award has been made. The selection of the apparent low bidder may or may not be announced at the bid opening. All bid forms shall be retained by the City until after the award selection has been made.

The bid alternates will be awarded as funding allows, and the City reserves the right to amend the budget for any particular project if it deems it is in the best interest of the City to do so.

Replace section 3-1.02B of the RSS with:

The Department breaks a tied bid with a coin toss

Replace section 3-1.04 with:

3-1.04 CONTRACT AWARD

If the City awards the contract, the award is made to the lowest responsible bidder within 10 days after bid opening.

If the lowest responsible bidder refuses or fails to execute the contract, the award is made to the second lowest responsible bidder within 25 days after bid opening.

If the second lowest responsible bidder refuses or fails to execute the contract, the award is made to the third lowest responsible bidder within 40 days after bid opening.

The City may extend the specified award period if the bidder agrees.

Replace "50 Percent" in item #2 of section 3-1.05 with:

100 percent

Remove Section 3-1.08 in its entirety

Add Section 3-1.09 with:

3-1.09: CITY OF ATWATER LOCAL BUSINESS PREFERENCE PROGRAM

Program Description

In evaluating competitive bids to determine the lowest responsible bidder, if a non-local responsible bidder is initially determined to be the lowest responsible bidder, then any local responsible bidder shall be granted a preference in an amount equal to five percent (5%) of their responsive bid. If after deduction of the five percent (5%) preference from a local bidder's responsive bid, it is equal to or less than the lowest responsive bid submitted by the non-local responsible bidder, then the purchase award shall be awarded to the local responsible bidder. In the event that a non-local responsible bidder and a local responsible bidder have the same bid and it is the lowest bid, then the five percent (5%) preference need not be applied and the local business shall be selected to receive the purchase award. Under no circumstances shall the local business

preference granted in a single bid exceed \$5,000.00. The local business preference will not apply when bids are cooperatively solicited together with other public agencies. The local business preference may not apply and may be dispensed with when prohibited by State or Federal Statutes, or regulations requiring that a bid be awarded to the lowest responsible bidder, or as otherwise exempted from local preferences.

Good Faith Effort

All contractors who submit bids or proposals to construct or provide work on any City of Atwater Public Works Project, or for any other Public Works construction or improvement on City property, and who are seeking a local business preference, must make a good-faith effort to hire qualified individuals who are residents of the City of Atwater or Merced County in sufficient numbers so that no less than 50 percent (50%) of the contractor's total construction work force, including subcontractor work force, measured in labor work hours, is comprised of Atwater residents. This same requirement applies to all subcontractors.

Evidence of direct bid solicitations from at least three Local Businesses qualified to perform the work or supply the materials or equipment must be submitted for subcontracted work in excess of one half of one percent ($\frac{1}{2}$ of 1% or 0.5%) of the trade package amount. If no Local Businesses are qualified to perform the work or supply the materials or equipment, justification and evidence of reasonable attempts to locate qualified Local Businesses must be submitted, which may include, but is not limited to: 1) advertisements inviting bids or recruitment of local, qualified individuals in local newspapers, or 2) mail request for bids to local contractors, or 3) bid solicitations by phone, facsimile, or e-mail, or 4) advertisement or contact of recruitment sources to hire local, qualified individuals., or 5) identify local, qualified individuals that are part of the contractor's or subcontractor's construction workforce, or 6) develop a written plan to recruit local residents as part of the construction workforce

Quality and Fitness

The preferences established in this program shall in no way be construed to inhibit, limit or restrict the right and obligation of the City of Atwater to compare quality and fitness for use of supplies, materials, equipment, and services proposed for purchase and to compare the qualifications, character, responsibility, and fitness of all persons, firms, or corporations submitting bids.

Local Business Eligibility

For the purposes of this program, a qualified local bidder is defined as any individual, partnership, or corporation which regularly maintains a place of business within the incorporated city limits of the City of Atwater and has a valid business license issued by the City of Atwater when the bid is provided. A non-local bidder shall be all others which may do business with the City of Atwater.

Enforcement

The information furnished by each bidder establishing a good faith effort to solicit Local Businesses shall be under penalty of perjury. No person or business shall willfully and knowingly make a false statement with the intent to defraud, whether by affidavit, report, or other representation for the purpose of influencing the status of any entity as a Local Business.

Replace section 3-1.11 with:

Complete and deliver to the Engineer a *Payee Data Record* when requested by the City.

Replace the entirety of section 3-1.18 with:

3-1.18 CONTRACT EXECUTION

The successful bidder must sign the *Contract* form.

Deliver to the contact listed in the *Notice to Bidders*:

1. Signed Contract form
2. Contract bonds
3. Certificates of insurance as identified in section 3-1.07
4. Evidence that you possess a current, valid state Contractor's license required to perform the work under this Contract. A copy of your license is sufficient.

The City must receive these documents before the 5th business day after the bidder receives the contract.

The bidder's security may be forfeited for failure to execute the contract within the time specified (Public Contract Code §§10181, 10182, and 10183).

A copy of the *Contract* form is included in *Bid Book*

5 CONTROL OF WORK

Replace item 1 of the 2nd paragraph of Section 5-1.02:

If a discrepancy exists:

1. Governing ranking of Contract parts in descending order is:
 1. Special provisions
 2. Technical Specifications
 3. Project plans
 4. Revised standard specifications
 5. Standard specifications
 6. Revised standard plans
 7. Standard plans
 8. Supplemental project information

Replace the entirety of Section 5-1.09:

The City of Atwater encourages cooperation between Contractor and other project stakeholders. However, formal project partnering is not required with this project.

Add to the end of section 5-1.20B(1) General:

The Contractor may be given a no-cost extension of time for unforeseen delays attributable to the permit.

Replace the entirety of Section 5-1.23 Submittals with:

Refer to Technical Specifications Section 013300 for requirements regarding Submittals.

Replace first paragraph of Section 5-1.26 CONSTRUCTION SURVEYS:

The City will place stakes and marks as directed by Contractor.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Replace the 2nd paragraph of section 7-1.02K(2) with:

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available at the California Department of Industrial Relations' Internet Web Site at: <http://www.dir.ca.gov/DLSR/PWD>. These wage rates are not included in the Bid Book for the project. Changes in general prevailing wage determinations apply to the Contract when the Director of Industrial Relations has issued them at least 10 days before advertisement.(Labor Code § 1773.6 and 8 CA Code of Regs 16204).

Add to section 7-1.02K(2):

All labor will be paid at not less than the minimum wage rates established by the State of California's Director of Industrial Relations (State Wage Rates). The minimum Federal Wage Rates applicable to this project are in the book issued for bidding purposes entitled "Bid Book".

Replace the entirety of section 7-1.02K(3) with:

7-1.02K(3) Certified Payroll Records (Labor Code § 1776)

All contractors shall keep weekly payroll records, which shall be certified under penalty of perjury to record the proper payment of prevailing wages for each public works project. The City will accept computer printouts (which are then certified) in lieu of the standard form so long as the computer printout provides all of the same information as required on the certified payroll form.

Failure to provide the certified payrolls within ten (10) days of a written deficiency notice from the City of Atwater will result in a penalty of \$100.00 per day per worker for each day of violation.

The City maintains the right to withhold any and all funds due a contractor and/or his/her subcontractors in the event that certified payrolls are not maintained and provided to the City upon request.

Replace the 1st sentence of paragraph 26 of section 7-1.04:

Do not reduce an open traffic lane width to less than 10 feet, unless shown.

Add before the 1st paragraph of section 7-1.05A:

You must indemnify and hold harmless the City, its agents, officers, and employees, against and from any and all claims, lawsuits, actions, liability, damages, losses, expenses, costs, and actual attorneys' fees, arising out of or in connection with your performance of this Contract for:

1. any loss or damage that may happened to the work or any part thereof
2. for any loss or damage to any of the materials or other things used or employed in performing the work
3. for injury to or death of any person, either workmen or the public
4. for damage to property from any cause which might have been prevented by the Contractor, or his workmen, or anyone employed by him

For purposes of your obligation to defend, indemnify, and save harmless, the term State will have the following meaning:

The City of Atwater including their officers, directors, employees, agents, and design professionals. Change the Umbrella or excessive liability limits in the table in the 1st paragraph of section 7-1.06D(2) to: The limits of Liability must be at least \$2,000,000.

Replace section 7-1.06G with:

At the option of the City, either: The insurer will reduce or eliminate such deductible or self-insured retentions as respects to the City of Atwater, its officials and employees; or The Contractor will procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

Add to section 7-1.06H:

Any failure to comply with reporting provisions of the policies will not affect coverage provided to the City of Atwater, its officers and employees.

8 PROSECUTION AND PROGRESS

Delete 1st and 2nd paragraphs in section 8-1.04B

Replace 3rd paragraph of section 8-1.10A:

"Liquidated damages for all work are one-thousand dollars (\$1000) per day."

9 PAYMENT

Add to section 9-1.03:

The agency shall hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the agency, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

Replace "Department's" in the 5th paragraph of section 9-1.07A with:

Caltrans

Delete section 9-1.11

Add to section 9-1.16E(1):

The bid amount for the contract items of work is the maximum value the City recognizes for progress payment purposes unless approved change order work increases this amount.

Replace section 9-1.16F with:

The City will withhold 5 percent of all progress payments as retention. Retention will be paid to you on the Final Payment.

You will have the right to substitute securities for the retention under Public Contract Code §22300. No substitution will be accepted until:

1. the City approves the securities and their value,
2. the parties have entered into an escrow agreement (if the securities are to be held in escrow) in a form substantially similar to that under § 22300,
3. all documentation necessary for assignment of the securities to the City or to the escrow agent, are delivered in a form satisfactory to the City.

If you have substituted securities for any of the retention, the City may request that such securities be revalued from time to time, but not more often than monthly. Such revaluation will be made by a person or entity designated by the City and approved by you. If such revaluation results in a determination that the securities have a market value less than the amount of retention for which they were substituted, then the amount of the retention required under the Contract will be increased by such difference in market value. Such increased retention will be withheld from the next progress payment(s) due to you under the Contract.

Replace section 9-1.22 with:

Claims must be litigated in a court of competent jurisdiction.

86 ELECTRICAL SYSTEMS

Add to section 86-5.01A(1):

Loop wire must be Type 2.

Loop detector lead-in cable must be Type C.

Slots must be filled with elastomeric sealant.

The depth of the loop sealant above the top of the uppermost loop wire in the sawed slots must be 2 inches, minimum.

**CITY OF ATWATER
ENGINEERING DIVISION**

TECHNICAL SPECIFICATIONS

**REPAIR AND UPGRADE TRAFFIC SIGNAL AT WINTON WAY AND
BELLEVUE ROAD PROJECT**

^^

SECTION 011100 COORDINATION OF WORK, PERMITS, AND REGULATIONS

A. Description

This section generally describes the project and includes work by others, Contractor's use of premises, Owner occupancy, maintenance and operation of existing facilities, construction survey staking, permits, and regulations.

B. General Nature of Work

The Work generally consists of furnishing all labor, materials, tools, equipment, and incidentals necessary to remove (by grinding) existing thermoplastic and painted striping, pavement markings, and legends; remove raised pavement markers; apply bituminous pavement crack sealant; apply slurry seal in areas indicated; install new striping, pavement markings, legends, and raised pavement markers; remove existing concrete wheel stops; and install new concrete wheel stops; on City streets and on City parking facilities shown on the plans, on the location and area detail maps, as listed in the Appendices, as specified in the Specifications and the Special Provisions, and as directed by the City Engineer.

The Work also includes sweeping before and after slurry seal applications; removing of oil/grease spots (by grinding); all necessary traffic control; preparing and updating construction schedules; posting signs for "NO PARKING" and arranging for the towing of cars, if necessary; protecting all utility covers in place; and installing and removing temporary pavement markers.

The Contractor shall be responsible for cleaning, sweeping, and removing all loose rock from surfaces, parking areas, gutters, sidewalks, driveways, and parkways after slurry seal application, as specified in the Specifications and the Special Provisions, and as directed by the City Engineer. Work by Others

The Owner will require that the Contractor coordinate his work and cooperate with the utility companies and City forces that may be working within the project limits removing, relocating, or adjusting their facilities.

C. Order of Work

(reserved)

D. Utilities

1. The Engineer has endeavored to determine the existence of utilities at the site of the Work from the records provided by owners of known utilities in the vicinity of the Work. The positions of these utilities as derived from such records are shown in the drawings. The service connections to these utilities may not be shown in the drawings.
2. Prior to beginning the Work, the Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of existing service laterals or appurtenances on or adjacent to the site of the Work. If the Contractor discovers utility facilities not identified in the drawings or specifications or in a position different from that shown in the drawings and specifications, it shall immediately notify in writing the Owner's Representative and the owner of the utility facility.
3. The Owner shall have the responsibility for the timely removal, relocation, protection, and temporary maintenance of existing main or trunkline utility facilities that are not indicated in the drawings and specifications with reasonable accuracy.
4. In case it should be necessary to remove, relocate, protect, or temporarily maintain a utility because of interference with the Work, the Work on such utility shall be performed and paid for as follows:

- a. When it is necessary to remove, relocate, protect, or temporarily maintain an existing main or trunkline utility facility not indicated in the drawings and specifications with reasonable accuracy, the Owner will compensate the Contractor for the costs of locating, for the costs of repairing damage not due to the failure of the Contractor to exercise reasonable care, for the costs of removing, relocating, protecting, and for temporarily maintaining such utility facilities. These costs, the work to be done by the Contractor in locating, removing, relocating, protecting, or temporarily maintaining such utility facilities shall be covered by a written change order. The Owner may make changes in the alignment and grade of the Work to obviate the necessity to remove, relocate, protect, or temporarily maintain such utility facilities or to reduce the costs of the work involved in removing, relocating, protecting, or temporarily maintaining such utility facilities. Changes in alignment and grade will be ordered in accordance with change order on policies established by these specifications.
- b. When it is necessary to remove, relocate, protect, or temporarily maintain a utility, (other than [1] existing main or trunkline utility facilities not indicated in the drawings and specifications with reasonable accuracy, or [2] existing service laterals or appurtenances when their presence cannot be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, on or adjacent to the site of the Work) the cost of which is not required to be borne by the owner thereof, the Contractor shall bear all expenses incidental to the work on the utility or damage thereto. The work on the utility shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the utility has the option of doing such work with its own forces, or permitting the work to be done by the Contractor. No representations are made that the obligations to remove, relocate, protect, or temporarily maintain any utility and to pay the cost thereof is or is not required to be borne by the owner of such utility, and it shall be the responsibility of the Contractor to investigate to find out whether or not said cost is required to be borne by the owner of the utility.
- c. The right is reserved to governmental agencies and to owners of utilities to enter at any time upon any street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the Work and for the purpose of maintaining and making repairs to their property

END OF SECTION

SECTION 012000 MEASUREMENT AND PAYMENT

A. Work Listed in the Schedule of Work Items

1. Measurement and payment descriptions are included in the numbered sections of the specifications. Work under this contract will be paid on a unit price or lump-sum basis as outlined on the Bid Form for the quantity of work installed.
2. The unit prices and lump-sum prices include full compensation for furnishing the labor, materials, tools, and equipment and doing all the work involved to complete the work included in the contract documents.
3. The application for payment will be for a specific item based on the percentage completed or quantity installed. The percentage complete will be based on the value of the partially completed work relative to the value of the item when entirely completed and ready for service.

B. Work Not Listed in the Schedule of Work Items

1. The General Provisions and items in the Project Specifications, general requirements, and specifications which are not listed in the schedule of work items of the Bid Form are, in general, applicable to more than one listed work item, and no separate work item is provided therefor. Include the cost of work not listed but necessary to complete the project designated in the contract documents in the various listed work items of the Bid Form.
2. The bids for the work are intended to establish a total cost for the work in its entirety. Should the Contractor feel that the cost for the work has not been established by specific items in the Bid Form, include the cost for that work in some related bid item so that the Proposal for the project reflects the total cost for completing the work in its entirety.

C. Mobilization and Demobilization

Costs for mobilization and demobilization are included in the unit costs for the various items of work.

D. Dust Control

Dust Control is to be included in the unit costs for the various items of work.

E. Storm Water Pollution Control

Costs for Storm Water Pollution Control are to be included in the unit cost unit costs for the various items of work.

END OF SECTION

SECTION 012200 BID ITEM DESCRIPTIONS

Work under this contract will be paid on a unit price or lump-sum basis as outlined on the Bid Form for the quantity of work installed.

The unit prices and lump sum prices shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and doing all the work involved to complete the Work included in the contract documents.

The bids for the work are intended to establish a total cost for the work in its entirety. Should the Contractor feel that the cost for the work has not been established by specific items in the Bid Form, include the cost for that work in some related bid item so that the Proposal for the project reflects the total cost for completing the work in its entirety.

BID ITEM DESCRIPTIONS

Bid Item 1—Furnish and Install Traffic Loops

This is lump sum bid item which shall include cost of furnishing all labor, materials, tools, equipment, and incidentals necessary for the installation of new traffic loops.

All lead (limit line) loop detectors shall be Type D; all other loop detectors shall be Type A. Advance loop detectors shall be located per the California Manual on Uniform Traffic Control Devices (CA MUTCD), latest edition, Table 4D-101 (CA) "Suggested Detector Setbacks From Limit Line" based on posted speed limits. Install Type A and Type D loop detectors per Caltrans Revised Standard Plan ES-5B.

Construct 4 loops per lane near the limit line, and one advance loop per through lane.

Each detector loop shall be provided with its own lead in cable and connected in the controller for operation. Provide at least one curb termination nearby to advance loops on each approach and at least one curb termination nearby to the loops near the limit line for each approach. Note that the northbound approach of Winton Way has existing pullboxes behind the existing sidewalk, which are to be assumed to be reused. For the other three approaches, assume that new pullboxes will be required to be constructed in the sidewalks due to right-of-way restrictions. All construction in sidewalks shall meet current ADA accessibility requirements. The placement of conduits to connect pullboxes for each approach may require the removal and replacement of existing sidewalks and/or pavements. Curb terminations shall be Type A. Handholes shall be provided for each curb termination and additionally as required to facilitate cable routing. Existing cables shall be removed wherever required and to the greatest extent possible. Cabling for advance loops may not be run longitudinally in saw cuts within the travel lanes.

Any curb, gutter, sidewalk, or other public improvement, removed or damaged during construction, shall be replaced in kind per the City Standards. All saw cutting shall be done in a neat, straight, line and no sawcutting of sidewalks shall be permitted between existing joints. Any new pullboxes (excepting detector handholes) shall be No.5 or larger, as required.

Use the City of Atwater as-built drawing in Bid Book 2, Attachment 2: "TRAFFIC SIGNAL AS-BUILT DRAWING" **AS A REFERENCE ONLY** as an approximation of existing conditions. Do not base bids for new construction on this reference record drawing, as it does not reflect the correct quantities, locations, or arrangement of new work to be constructed.

Bid Item 2 – Install APS Equipments

This is a lump sum bid item which shall include cost of furnishing all labor, materials, tools, equipment, and incidentals for installation of new APS (accessible pedestrian signals) equipment for the intersection.

The City of Atwater intends to purchase the APS equipment for the intersection and furnish it to the Contractor. The costs for these materials are to be excluded from the Contractor's bid. The Contractor will be responsible for retrieving the city-furnished APS equipment from the City's corporation yard, transporting it to the jobsite, and installing the equipment complete. A material list of the equipment that the City intends to purchase and furnish is provided as Bid Book 2, Attachment 3: "APS EQUIPMENTS". The contractor's bid shall include all

other materials that are required to install APS equipment that are not already being purchased by the City. All connections and programming required for a fully functional APS system shall be included in the bid item and no additional payment shall be due for additional labor, materials, equipment, incidentals, or any other item required for a fully functional APS system.

END OF SECTION

SECTION 013300 SUBMITTAL PROCEDURES

PART 1 -GENERAL

A. General

Submittals covered by these requirements include manufacturers' information, shop drawings, test procedures, test results, samples, requests for substitutions, and miscellaneous work-related submittals. The Contractor shall furnish all drawings, specifications, descriptive data, certificates, samples, tests, methods, schedules, and manufacturer's installation and other instructions as specifically required in the Contract Documents to demonstrate fully that the materials and equipment to be furnished and the methods of work comply with the provisions and intent of the Contract Documents.

B. Contractor Responsibilities

1. The Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall assure that the material, equipment or method of work shall be as described in the submittal. The Contractor shall verify that all features of all products conform to the specified requirements. Submittal documents shall be clearly edited to indicate only those items, models, or series of equipment, which are being submitted for review. All extraneous materials shall be crossed out or otherwise obliterated. The Contractor shall ensure that there is no conflict with other submittals and notify the Engineer in each case where his submittal may affect the work of another contractor or the City. The Contractor shall coordinate submittals among his subcontractors and suppliers including those submittals complying with unit responsibility requirements specified in applicable technical sections.
2. The Contractor shall coordinate submittals with the work so that work will not be delayed. The Contractor shall coordinate and schedule different categories of submittals, so that one will not be delayed for lack of coordination with another. No extension of time will be allowed because of failure to properly schedule submittals. The Contractor shall not proceed with work related to a submittal until the submittal process is complete.
3. The Contractor shall certify on each submittal document that he has reviewed the submittal, verified field conditions, and complied with the Contract Documents.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

A. Transmittal Procedure

1. Unless otherwise specified, submittals regarding material and equipment shall be accompanied by Transmittal Form. A separate form shall be used for each specific item, class of material, equipment, and items specified in separate, discrete sections, for which the submittal is required. Submittal documents common to more than one piece of equipment shall be identified with all the appropriate equipment numbers. Submittals for various items shall be made with a single form when the items taken together constitute a manufacturer's package or are so functionally related that expediency indicates checking or review of the group or package as a whole.
2. If the Contractor proposes to provide material, equipment, or method of work which deviates from the project requirements, he shall indicate so under "deviations" on the transmittal form accompanying the submittal copies.

B. Submittal Review Procedure

1. Review shall not extend to means, methods, techniques, sequences or procedures of construction. Verifying quantities, dimensions, weights or gages, or fabrication processes (except where specifically indicated or required by the project) or to safety precautions or programs incident

thereto. Review of a separate item, as such, will not indicate approval of the assembly in which the item functions.

2. Seven copies, unless otherwise specified during the preconstruction meeting, of all submittals required shall be furnished to the Engineer for review. The Engineer shall review the submittal and return two copies of the marked-up original within 15 working days after receipt of a submittal for review and comment, unless otherwise specified. All shop drawings and layout drawings submittals shall be submitted a minimum of 20 working days before approved submittal drawings will be required for the work.
3. Submittals which do not have all the information required to be submitted, including deviations, are not acceptable and will be returned without review.

C. Effect of Review of Contractor's Submittals

1. Review of contract drawings, methods of work, or information regarding materials or equipment the Contractor proposes to provide, shall not relieve the Contractor of his responsibility for errors therein and shall not be regarded as an assumption of risks or liability by the Engineer or the City, or by any employee thereof, and the Contractor shall have no claim under the Contract on account of the failure, or partial failure, of the method of work, material, or equipment so reviewed.
2. The Work covered by a submittal may be commenced only after the Engineer has reviewed the pertinent submittals and returned copies to the Contractor marked either "No Exceptions Taken" or "Make Corrections Noted." Corrections indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents. Review of submittals by the Engineer shall not be construed as relieving the Contractor of his/her responsibilities under this Contract.

END OF SECTION

SECTION 015100 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

A. Construction Water

1. Related Work Specified Elsewhere:
 - a. Earthwork: 312300.
 - b. General Concrete Construction: 030500.
2. The Contractor shall make his own arrangements for developing water sources and supply labor and equipment to collect, load, transport, and apply water as necessary for compaction of materials, concrete construction operations, testing, pipeline disinfection, structure disinfection, dust control, and other construction use.
3. Develop sources of water supply or obtain water from private sources. Payment for costs connected with utilization of the source shall be made by the Contractor. Water shall be clean and free from objectionable deleterious amounts of acids, alkalies, salts, or organic materials.
4. Include the cost of construction water in the appropriate bid item to which it is appurtenant. The cost shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all the work necessary to develop a sufficient water supply and furnishing the necessary equipment for applying the water as described in these specifications.

B. Electrical Power--Construction Phase

Provide for the purchase of power or provide portable power for the construction of the project where existing outlets are not available. Provide for the extension of utility lines to the point of usage. The cost of power shall be included in the appropriate bid items to which it is appurtenant and shall include full compensation for furnishing all labor, materials, tools, and equipment required to obtain and distribute power for construction purposes.

C. Dust Control

1. Perform dust control operations to prevent construction operations from producing dust in amounts harmful to persons or causing a nuisance to persons living nearby or occupying buildings in the vicinity of the work. Use water or dust preventative to control dust.
2. Full compensation for providing all materials, equipment, and incidentals for providing dust control shall be considered as included in the prices paid for other items of work, and no separate payment will be made therefor.

D. Fire Danger Control

1. Minimize fire danger in the vicinity of and adjacent to the construction site. Provide labor and equipment to protect the surrounding private property from fire damage resulting from construction operations.
2. Full compensation for providing all materials, equipment, and incidentals for providing fire danger control shall be considered as included in the prices paid for other items of work, and no separate payment will be made therefor.

E. Construction Staking

(reserved)

END OF SECTION

SECTION 015725 STORM WATER RUNOFF CONTROL PROGRAM

PART 1 - GENERAL

A. Description

These requirements consist of installing, practicing, and maintaining Best Management Practices (BMP's) to prevent erosion, sedimentation, and discharge of polluted stormwater. BMP's shall be enacted in accordance with an approved Water Pollution Control Plan (WPCP).

The disturbed area of this project will be less than one (1) acre. Therefore, coverage under the California State Water Board Construction General Permit, 2009-0009-DWQ, is not required. However, the Contractor is responsible to prevent erosion, sedimentation and discharge of polluted stormwater from the project.

B. Enforcement

1. Per the State's Porter Cologne Water Quality Act, the Contractor shall be subject to inspection by Staff from the Central Valley Regional Water Quality Control Board who have the authority to issue Notices of Violation (NOVs) and Penalties of up to 10,000 dollars per day for non-compliance. The Contractor shall be liable for any fines issued to the project by the State or Federal Government for NPDES non-compliance due to Contractor negligence.
2. The City reserves the right to take corrective action and withhold the City's costs for corrective action from progress payments or final payment to Contractor.
3. Any fines, including third-party claims, levied against the City as a result of Contractor's non-compliance are the Contractor's sole responsibility and will be withheld from progress payments or final payment to Contractor.

C. Payment

1. Full compensation for conforming to the provisions in this section shall be considered as included in the bid price paid for various items of work involved and no additional compensation will be allowed therefor.

D. Related Work Described Elsewhere

1. Coordination of Work and Permits: 011100.
2. Submittals: 013300.
3. Construction Facilities and Temporary Controls: 015100.

PART 2 - MATERIALS

A. Water Pollution Control Plan (WPCP)

The Contractor shall be responsible to keep a copy of the WPCP onsite at all times.

B. Other Products

Materials for BMP's required to meet the requirements of the SWPPP including, but not limited to, fiber rolls, inlet protection barriers, and silt fences shall be as shown in the fact sheets provided in the SWPPP.

PART 3 - EXECUTION

A. Prepare and submit WPCP

1. Prepare a WPCP consisting of the following, at a minimum:
 - a. Drawing(s) showing location and type of BMP's proposed for project.
 - b. Details of proposed BMP's, including instructions for installation and maintenance. CASQA Fact Sheets are acceptable for this purpose.
 - c. Emergency contact information for contractor and subcontractors.
 - d. Inspection procedures, frequency, and checklists of required inspection items.
2. Submit for review in accordance with submittal procedures described in the specifications.

B. General

1. Review the WPCP and ensure all employees receive appropriate training.
2. Keep the WPCP on site during construction activity. Make available upon request of a representative of the RWQCB and/or other regulatory agency.
3. Amend the WPCP whenever there is a change in construction or operations which may affect the discharge of significant quantities of pollutants to surface waters, groundwaters, or a municipal storm sewer system.

C. Erosion, Sediment, and Pollution Control:

1. The Contractor shall be responsible for controlling erosion and sedimentation within the limits of the project at all times during the course of construction including evenings, weekends, and holidays in addition to normal working days. The Contractor shall prevent any sediment and construction debris from entering the City storm drain system by implementing these BMPs:
 - a. Erosion control measures. Refer to CASQA Factsheets EC-1 to EC-16 and choose appropriate measures for project site.
 - b. Sediment control measures. Refer to CASQA Factsheets SE-1 to SE-14 and choose appropriate measures for project site.
 - c. Drain inlet protection. Refer to CASQA Factsheet SE-10. Mandatory for all projects
 - d. Stabilized entrance and egress from construction site. Refer to CASQA Factsheets TC-1, TC-2, & TC-3 and choose appropriate measures for project site.
 - e. Stockpile management. Refer to CASQA Factsheet WM-3.
 - f. Keep gutter flowline unimpeded and free of soil, debris and construction materials at all times.
 - g. Use drainage controls as needed to protect site from run-on and prevent contaminated run-off. Refer to CASQA Factsheets EC-9 and EC-11.
 - h. Any other BMP's necessary to control the discharge of pollutants from the construction site.

2. Wash water, slurry and sediment from concrete or asphalt saw cutting operations shall not be allowed to enter the City storm drain system.
 - a. When making saw cuts in pavement, use as little water as possible.
 - b. Cover and place barricades around each catch basin during the sawing operation to contain the slurry. Shovel or vacuum the slurry residue from the pavement or gutter and remove from site. Refer to CASQA Factsheet NS-3.
3. The Contractor is required to implement, at a minimum, the following housekeeping practices: site cleanup, solid waste management, material storage and delivery area, concrete waste management, and spill prevention and control.
 - a. Site Cleanup: The Contractor shall keep the project site clean and free of dust, mud, and debris resulting from the Contractor's operations. Daily clean up throughout the project shall be required as the Contractor progresses with the work. Extra precautions and clean-up efforts shall be made prior to weekends, holidays and predicted storm events.
 - b. Street Sweeping: Refer to CASQA Factsheet SE-7.
 - c. Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense. If site is not kept sufficiently clean, the City will take measures to clean it and back charge the Contractor.
 - (1) Solid Waste Management: Refer to CASQA Factsheet WM-5 and WM-6.
 - (2) Material Storage and Delivery Area: Refer to CASQA Factsheet WM-1. Concrete Waste Management: Refer to CASQA Factsheet WM-8.
 - (3) Spill Prevention and Control: Refer to CASQA Factsheet WM-3.
 - (4) Temporary Sanitary Waste Facilities: Refer to CASQA WM-10
 - (5) Non-Stormwater Discharges:
 - (a) The contractor shall prohibit non-stormwater discharges not allowed by City of Atwater National Pollution Discharge Elimination System (NPDES) Stormwater Permit
 - (b) No washing of construction or other industrial vehicles shall be allowed on a construction site or property adjacent to a construction site. Refer to CASQA Factsheet NS-8.
4. Inspection
 - a. Throughout the duration of the project the Contractor will be required to inspect and maintain, in effective condition, all erosion, sediment, and pollution control BMPs. Inspections are required at minimum weekly and before and after each storm event and as needed. The contractor shall immediately correct or replace any ineffective or damaged BMPs.

END OF SECTION

SECTION 017410 CLEANING DURING CONSTRUCTION AND FINAL CLEANING

A. General

1. This section includes cleaning during construction and final cleaning on completion of the work.
2. At all times maintain areas covered by the contract and adjacent properties and public access roads free from accumulations of waste, debris, and rubbish caused by construction operations.
3. Conduct cleaning and disposal operations to comply with local ordinances and antipollution laws. Do not burn or bury rubbish or waste materials on project site. Do not dispose of volatile wastes, such as mineral spirits, oil, or paint thinner, in storm or sanitary drains. Do not dispose of wastes into streams or waterways.
4. Use only cleaning materials recommended by manufacturer of surface to be cleaned.

B. Cleaning During Construction

1. During execution of work, clean site, adjacent properties, and public access roads and dispose of waste materials, debris, and rubbish to assure that buildings, grounds, and public properties are maintained free from accumulations of waste materials and rubbish.
2. Wet down dry materials and rubbish to lay dust and prevent blowing dust.
3. Provide containers for collection and disposal of waste materials, debris, and rubbish.
4. Cover or wet excavated material leaving and arriving at the site to prevent blowing dust. Clean the public access roads to the site of any material falling from the haul trucks.

C. Site Cleaning Prior to Landscaping

Remove concrete, concrete wash, stucco splatter, gunite overspray, and all other wastes and debris prior to final grading and landscaping.

D. Final Cleaning

1. At the completion of work and immediately prior to final inspection, clean the entire project site as follows.
2. Clean, sweep, wash, and polish all work and equipment including finishes.
3. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces.
4. Repair, patch, and touch up marred surfaces to match adjacent surfaces.
5. Broom clean paved surfaces; rake clean landscaped areas.
6. Remove from the site temporary structures and materials, equipment, and appurtenances not required as a part of, or appurtenant to, the completed work.
7. Finish roadway in accordance with Section 22 "Finishing Roadway" as specified in the State Standard Specifications.

E. Payment

1. Payment for meeting the requirements of this section shall be included in the various bid items of work, and no additional compensation will be provided therefor.

END OF SECTION

SECTION 311100 SITE DEMOLITION

PART 1 - GENERAL

A. Description

1. This section describes the work included in demolition and removal of existing items as required to prepare the site for construction operations. This includes
 - a. Removal of Existing Striping and Signage
 - b. Removal of Existing Asphalt and Concrete Pavement
 - c. Clearing, stripping, grubbing, and preparing the project site for construction operations.
 - d. Removal of additional appurtenances required to construct the proposed improvements, not specifically described herein.

B. Related Work Specified Elsewhere

1. Temporary Tree and Plant Protection: 015639
2. Earthwork: 312300.

PART 2 - MATERIALS

A. (Not Used)

PART 3 - EXECUTION

A. Removal of Existing Yellow Traffic Striping and Pavement Markings

1. Existing yellow striping and pavement markings within the project are assumed to have lead concentrations that will produce hazardous waste residue. Remove and dispose of existing yellow striping and pavement markings in accordance with Section 14-11.12 of the State Standard Specifications. This requirement includes preparation of a work plan, analytical sampling & testing, transport, and disposal of hazardous waste residue.

B. Pavement Removal

1. Initially cut asphalt concrete pavement with pneumatic pavement cutter or other equipment at the limits of the excavation and remove the pavement. After backfilling the excavation, saw cut asphalt concrete pavement to a minimum depth of 2 inches at a point not less than 9 inches outside the limits of the excavation or the previous pavement cut, whichever is greater, and remove the additional pavement.
2. Sawcut concrete pavement, including cross gutters, curbs and gutters, sidewalks, and driveways, to a minimum depth of 1 1/2 inches at a point 1 foot beyond the edge of the excavation and remove the pavement. The concrete pavement may initially be cut at the limits of the excavation by other methods prior to removal and the saw cut made after backfilling the excavation. If the saw cut falls within 3 feet of a concrete joint or pavement edge, remove the concrete to the joint or edge.
3. Make arrangements for and dispose of the removed pavement.

4. Final pavement saw cuts shall be straight along both sides of trenches, parallel to the pipeline alignment, and provide clean, solid, vertical faces free from loose material. Saw cut and remove damaged or disturbed adjoining pavement. Saw cuts shall be parallel to the pipeline alignment or the roadway centerline or perpendicular to same.

C. Sign Removal

1. Remove signs where indicated on plans and salvage for re-use, as applicable.

D. Clearing, Stripping, and Grubbing Areas and Limits

1. Clear, strip, and grub excavation and embankment areas associated with new structures, slabs, walks, roadways, and other areas where work is to be completed.
2. Limits of clearing, stripping, and grubbing:
 - a. Excavation, Excluding Trenches: Within the proposed right-of-way and temporary and permanent easements.
 - b. Earth Fill: To the proposed right-of-way line or limits of temporary and permanent easements.
 - c. Existing Pipelines and Concrete Structures: As shown on the drawings to be removed.

E. Disposal of Clearing and Grubbing Debris

Do not burn combustible materials. Remove cleared and grubbed material from the worksite and dispose.

F. Disposal of Strippings

Remove stripped material and dispose offsite.

G. Clearing

1. Remove and dispose of trees, snags, stumps, shrubs, brush, limbs, sticks, branches, and other vegetative growth. Remove rocks, tiles, and lumps of concrete. Remove all evidence of their presence from the surface. Remove and dispose of trash piles, rubbish, and fencing. Protect structures and piping above and below ground, trees, shrubs, and vegetative growth and fencing which are not designated for removal.
2. Remove and dispose of wood picket and rail fences outside of the right-of-way.
3. Clearing and grubbing shall also include the removal at pipe culverts, concrete structures, and other facilities designated on the drawings for removal, and removal and reconstruction of fences as described herein.

H. Stripping

Remove and dispose of organic sod, topsoil to a depth of 3 inches, grass and grass roots, and other objectionable material remaining after clearing from the areas designated to be stripped.

I. Grubbing

After clearing and stripping, remove and dispose of wood or root matter, including stumps, logs, trunks, roots, or root systems greater than 1 inch in diameter or thickness to a depth of 12 inches below the ground surface.

Remove and dispose of trees, snags, stumps, shrubs, brush, limbs, sticks, branches, and other vegetative growth. Remove rocks, tiles, and lumps of concrete. Remove all evidence of their presence from the surface. Remove and dispose of trash piles, rubbish, and fencing. Protect structures and piping above and below ground, trees, shrubs, and vegetative growth and fencing which are not designated for removal. After clearing and stripping, remove and dispose of wood or root matter, including stumps, logs, trunks, roots, or root systems greater than 1 inch in diameter or thickness to a depth of 12 inches below the ground surface.

J. Miscellaneous Existing Features and Appurtenances

Confirm extents of removal of existing features adjacent to residences such as fences, decorative walls, landscape features, private irrigation systems, gates, and mailboxes with Engineer prior to removal.

END OF SECTION