

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30th Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

TTY 711

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August 22, 2011

12-Ora-57-12.2/15.2

12-0F0404

Project ID 1200000109

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ORANGE COUNTY IN ANAHEIM FROM 0.3 MILE SOUTH OF KATELLA AVENUE UNDERCROSSING TO 0.3 MILE NORTH OF LINCOLN AVENUE OVERCROSSING.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, September 1, 2011.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions and Bid book.

Project Plan Sheets 2, 10, 11, 12, 13, 14, 17, 18, 21, 22, 25, 26, 27, 28, 29, 33, 34, 35, 37, 38, 40, 45, 47, 48, 50, 51, 52, 53, 54, 60, 61, 62, 65, 71, 72, 81, 82, 83, 88, 89, 90, 91, 92, 93, 94, 98, 99, 109, 110, 111, 112, 113, 114, 115, 116, 117, 120, 121, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 182, 184, 185, 186, 187, 190, 228, 229, 243, 244, 246, 249, 267, 268, 435, 437, 438, 444, 448, 449, 459, 460, 461, 462, 463, 464, 466, 468, 469, 470, 508, and 519 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 60A, 60B, 393A, 431A, 431B, 431C, 431D, 431E, 431F, 431G, 431H, 431I, 431J, 431K, 431L, 431M, 431N, 431O, 431P, 431Q and 431R are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are added:

"RSP A77A1, A77B1, A77C1, RSP A77C3, RSP A77C4, RSP A77H1, A77H3, NSP A85A, NSP A85B, RSP A88A, RSP P2, RSP P10, RSP P12, RSP P17, RSP P20, D87D, D94A, D98B, RSP H1, RSP H2, RSP H5, RSP H7, RSP H8, NSP T3A, ES-9D"

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are deleted:

"A77A1, D72, D86B, D93A T3, D99B, RSP T7, T59, ES-9E, ES-16A"

In the Special Provisions, Section 2-1.085, "MANDATORY PREBID MEETING," is added as attached.

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In the Special Provisions, Section 5-1.18, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," the third paragraph is revised as follows:

"The utilities shown in the following table may interfere with pile driving, drilling activities, or subsurface construction, but the utility owner will not rearrange them. If you want any of them rearranged or temporarily deactivated, make arrangements with the utility owner.

Utility	Location
12" CIP Water Line (City of Anaheim)	Katella Avenue
16" HP Oil (Kinder Morgan)	Douglass Avenue

In the Special Provisions, Section 8-1.02, "STATE-FURNISHED MATERIALS," the first paragraph is revised as follows:

"The State furnishes you with:

- Loop detector sensor units
- Harness #4
- Harness #5
- Padlocks for Irrigation Controller Enclosure Cabinets
- Padlocks for Backflow Preventor Assembly Enclosures"

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," is revised as attached.

In the Special Provisions, Section 10-1.07, "TEMPORARY CONCRETE WASHOUT FACILITY," is replaced with, Section 10-1.07, "TEMPORARY CONCRETE WASHOUT BIN," as attached.

In the Special Provisions, Section 10-1.20, "MAINTAINING TRAFFIC," the following paragraph is added after the tenth paragraph:

"Special days are:

Full week of Thanksgiving Day
Full week of Christmas Day through January 2."

In the Special Provisions, Section 10-1.20, "MAINTAINING TRAFFIC," the table "Lane Closure Restriction for Designated Legal Holidays and Special Days," is revised as attached.

In the Special Provisions, Section 10-1.21, "CLOSURE REQUIREMENTS AND CONDITIONS," subsection "CLOSURE SCHEDULE," the third paragraph is revised as follows:

"Closure Schedule amendments, including adding additional closures, shall be submitted by noon to the Engineer, in writing, at least 3 business days in advance of a planned closure. Lane closures during special events at the Honda Center and Anaheim Stadium are prohibited between three hours before the schedule event to 3 hours after the event. Approval of Closure Schedule amendments will be at the discretion of the Engineer."

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In the Special Provisions, Section 10-1.31, "EXISTING HIGHWAY FACILITIES," subsection "BRIDGE REMOVAL," the ninth paragraph is revised as follows:

"The time to be provided for the Engineer's review of the bridge removal plans for removing specific structures, or portions thereof, shall be as follows:

Structure or Portion of Structure	Review Time - Weeks
Douglass Road OH	<u>9</u>
Katella UC	<u>6</u>

In the Special Provisions, Section 10-1.32, "REMOVAL OF ASBESTOS CONTAINING MATERIALS," is deleted.

In the Special Provisions, Section 10-1.35, "EARTHWORK," the following paragraph is added after the first paragraph:

"The "0.5-foot" dimensions in the fifth paragraph of Section 19-3.08, "Payment," of the Standard Specifications are increased to "one foot" on this project."

In the Special Provisions, Section 10-1.35, "EARTHWORK," subsection "STRUCTURE EXCAVATION (TIEBACK WALL)," the thirteenth paragraph is deleted.

In the Special Provisions, Section 10-1.37, "EXTEND IRRIGATION CROSSEOVERS," the second paragraph is revised as follows:

"Extend irrigation crossovers shall include conduit, water line crossover, and sprinkler control crossover extensions and appurtenances, locating existing irrigation crossovers and pressure testing existing and new water line crossovers. The sizes of water line crossover and sprinkler control crossover extensions shall be as shown on the plans. The size of conduit shall match the size of existing conduit."

In the Special Provisions, Section 10-1.37, "EXTEND IRRIGATION CROSSEOVERS," the third paragraph is revised as follows:

"Before work is started in an area where an existing irrigation crossover conduit is to be extended, the existing conduit shall be located by the Contractor. Contractor shall verify the existing irrigation crossover diameter and material prior to ordering materials for this item of work. When exploratory holes are used to locate the existing conduit, the exploratory holes shall be excavated in conformance with the provisions in Section 20-5.03B, "Conduit for Irrigation Crossovers," of the Standard Specifications."

In the Special Provisions, Section 10-1.755, "WELDED STEEL PIPE CASING (BRIDGE)," is added as attached.

In the Special Provisions, Section 10-1.83, "CHAIN LINK FENCE," the following paragraph is added after the first paragraph:

"Full compensation for furnishing and installing the grounding device and materials as shown on the plans shall be considered as included in the contract unit price paid per linear foot for Chain Link Fence (Type CL-6) and no additional compensation will be allowed therefor."

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In the Special Provisions, Section 10-1.89, "CABLE RAILING," the following paragraph is added after the first paragraph:

"Full compensation for furnishing and installing the grounding device and materials as shown on the plans shall be considered as included in the contract unit price paid per linear foot for Cable Railing and no additional compensation will be allowed therefor."

In the Special Provisions, Section 13, "RAILROAD RELATIONS AND INSURANCE," is revised as attached.

In the Bid book, in the "Bid Item List," Items 42, 50, 54, 74, 87, 108, 142, 157, 161, 164, 186, and 189 are revised, Items 229, 230, 231, 232, 233, 234, and 235 are added and Items 8, 43 and 228 are deleted as attached.

To Bid book holders:

Replace pages 3, 5, 6, 7, 8, 10, 11, 12 and 14 of the "Bid Item List" in the Bid book with the attached revised pages 3, 5, 6, 7, 8, 10, 11, 12 and 14 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and its attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/12/12-0F0404

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

2-1.085 MANDATORY PREBID MEETING

A mandatory Pre-Bid meeting is scheduled for August 24th, 2011, at 1:30 pm to 3:30 pm, at the Department of Transportation, District 12, 3337 Michelson Drive, Prudential Building Auditorium, Irvine, CA 92612.

The Department will conduct a mandatory prebid meeting for this contract. The purpose of the meeting is to provide small businesses the opportunity to meet and interact with prospective bidders and increase participation in the performance of contracts.

Prospective bidders must attend the mandatory prebid meeting. The bidder's representative must be a company officer, project superintendent, or project estimator. For a joint venture, one of the parties must attend the mandatory prebid meeting. The Department will not accept bids from bidders who do not attend the mandatory prebid meeting.

A sign-up sheet will be used to identify all prospective bidders including name and title of the company representative attending the mandatory prebid meeting. The Department may hold a single prebid meeting for more than one contract. Make sure you sign the sign-up sheet for the contract you intend to bid on. If bidding multiple contracts, sign each sign-up sheet for each contract you intend to bid on.

The successful bidder will be required to report small businesses hired to work on this contract as a result of the mandatory prebid meeting.

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

Attention is directed to "Shotcrete" in these special provisions regarding constructing test panels prior to constructing the shotcrete.

At the Katella Avenue UC (Widen) (Bridge No. 55-0401), the approach slab shall be complete in place before placement of methacrylate resin treatment.

No work shall be performed within Work Around Area A (PARCEL No. 102674-1) and Work Around Area B (PARCEL No. 102675-1, 102675-2 and 102676-1), as shown on the plans, before March 1, 2012, and until the Engineer provides the Contractor with an advance written notice to allow entry on the property.

Work Around area B includes the resize and shifting of the existing billboard as noted on the plans.

Contractor shall notify the owner of 10" Abandoned Oil Pipe 30 days prior to anticipated visual identification of the 10" Abandoned Oil Pipe as noted on the plans. After the Contractor has notified the owner according to this provision and visually identified the pipe, the owner of the 10" Abandoned Oil Pipe will have 21 calendar days to remove the pipe.

The 16" HP Oil Pipe (Kinder Morgan), located northerly of the Union Pacific Rail Road, shall be protected in place as noted on the plans. Kinder Morgan inspector shall be present during the installation and removal of the falsework around the 16" HP Oil Pipe.

Existing 12'x 9.5' Chantilly Storm Drain Maximum Live Load shall not exceed AASHTO H20 plus impact. Contractor shall submit means and methods of protection to the Engineer for review and approval prior to construction.

Architectural Treatment (Flower Pattern) shall match that of project EA 12-0F0324.

Contractor shall notify Kinder Morgan at least 20 calendar days prior to commencement of work near the pipeline.

Attention is directed to "Slope Paving" of these special provisions regarding constructing a 4' x 6' test panel prior to placing the permanent slope paving.

Attention is directed to "Miscellaneous Concrete Construction" of these special provisions regarding constructing a 2' x 2' test panel prior to constructing curb ramps with detectable warning surfaces.

The first order of work shall be to place the order for the electrical equipment. The Engineer shall be furnished a statement from the vendor that the order for the electrical equipment has been received and accepted by the vendor.

The uppermost layer of new pavement shall not be placed until all underlying conduits and loop detectors have been installed.

Prior to commencement of the traffic signal functional test at any location, all items of work related to signal control shall be completed and all roadside signs, pavement delineation, and pavement markings shall be in place at that location.

Attention is directed to "Maintaining Traffic" of these special provisions and to the stage construction sheets of the plans.

Attention is directed to "Progress Schedule (Critical Path Method)" of these special provisions regarding the submittal of a general time-scaled logic diagram within 10 days after approval of the contract. The diagram shall be submitted prior to performing any work that may be affected by any proposed deviations to the construction staging of the project.

The work shall be performed in conformance with the stages of construction shown on the plans. Nonconflicting work in subsequent stages may proceed concurrently with work in preceding stages, provided satisfactory progress is maintained in the preceding stages of construction.

In each stage, after completion of the preceding stage, the first order of work shall be the removal of existing pavement delineation as directed by the Engineer. Pavement delineation removal shall be coordinated with new delineation so that lane lines are provided at all times on traveled ways open to public traffic.

Before obliterating any pavement delineation (traffic stripes, pavement markings, and pavement markers) that is to be replaced on the same alignment and location, as determined by the Engineer, the pavement delineation shall be referenced by the Contractor, with a sufficient number of control points to reestablish the alignment and location of the new pavement delineation. The references shall include the limits or changes in striping pattern, including one- and 2-way barrier lines, limit lines, crosswalks and other pavement markings. Full compensation for referencing existing pavement delineation shall be considered as included in the contract prices paid for new pavement delineation and no additional compensation will be allowed therefor.

At those locations exposed to public traffic where guard railings or barriers are to be constructed, reconstructed, or removed and replaced, the Contractor shall schedule operations so that at the end of each working day there shall be no post holes open nor shall there be any railing or barrier posts installed without the blocks and rail elements assembled and mounted thereon.

Before the start of irrigation work, check for deficiencies of existing plants that are to remain in place as specified under "Maintain Existing Planted Areas" of these special provisions.

Locate existing irrigation water line crossovers and conduits before performing work on the irrigation system as specified under "Locate Existing Crossover and Conduits" of these special provisions.

Unless otherwise shown on the plans or specified in these special provisions, conduits to be jacked or drilled or installed by the open trench method for water line crossovers and sprinkler control crossovers must be installed before the installation of other pipe supply lines.

Do not perform clearing, grubbing, and earthwork operations in areas where existing irrigation facilities are to remain in place until existing irrigation facilities have been checked for proper operation as specified under "Existing Highway Irrigation Facilities" of these special provisions.

Locate existing conduits to be extended as specified under "Extend Irrigation Crossovers" of these special provisions before the start of other work in these areas.

Submittal of working drawings for electrical components must comply with Section 20-5.027B, "Wiring Plans and Diagrams," of the Standard Specifications.

Preinstall irrigation components in the irrigation controller enclosure cabinet before field installation as specified under "Irrigation Controller Enclosure Cabinet" of these special provisions.

10-1.07 TEMPORARY CONCRETE WASHOUT BIN

GENERAL

Summary

This work includes removal and disposal of concrete waste by furnishing, maintaining, removing and replacing temporary concrete washout bins.

The SWPPP must describe and include the use of temporary concrete washout bins as a water pollution control practice for waste management and materials pollution control.

Submittals

At least 5 business days before concrete operations start, submit:

1. Location of the washout bins
2. Name and location of the off-site concrete waste disposal facility to receive concrete waste
3. Copy of the permit issued by RWQCB for the off-site commercial disposal facility
4. Copy of the license for the off-site commercial disposal facility
5. Copy of the permit issued by the state or local agency having jurisdiction over the disposal facility if the disposal site is located outside of the State of California

Quality Control and Assurance

Retain and submit records of disposed concrete waste including:

1. Weight tickets
2. Delivery and removal of concrete washout bins

MATERIALS

Concrete Washout Bin

Concrete washout bin must:

1. Be a commercially available watertight container
2. Have sufficient capacity to contain all liquid and concrete waste generated by washout operations without seepage or spills
3. Be not less than 5 cubic yards of capacity
4. Be a roll-off bin and may include folding steel ramps
5. Be labeled for the exclusive use as a concrete waste and washout facility

Concrete Washout Sign

Concrete washout sign must:

1. Comply with the provisions in Section 12-3.06B, "Portable Signs" of the Standard Specifications
2. Be approved by the Engineer
3. Consist of a base, framework, and a sign panel
4. Be made out of plywood
5. Be a minimum size of 2 feet by 4 feet
6. Read "Concrete Washout" with black letters, 3 inches high, on a white background

CONSTRUCTION

Placement

Place concrete washout bins at the job site:

1. Before concrete placement activities begin
2. In the immediate area of the concrete work as approved by the Engineer
3. No closer than 50 feet from storm drain inlets, open drainage facilities, ESAs, or watercourses
4. Away from construction traffic or public access areas

Install a concrete washout sign adjacent to each temporary concrete washout bin location.

Operation

Use concrete washout bins for:

1. Washout from concrete delivery trucks
2. Slurries containing portland cement concrete or hot mix asphalt from sawcutting, coring, grinding, grooving, and hydro-concrete demolition
3. Concrete waste from mortar mixing stations

Relocate concrete washout bins as needed for concrete construction work.

Replace concrete washout bins when filled to capacity. Do not fill higher than 6 inches below rim.

Your WPCM must inspect concrete washout bins:

1. Daily if concrete work occurs daily
2. Weekly if concrete work does not occur daily

Maintenance

When relocating or transporting a concrete washout bin within the project site, secure the concrete washout bin to prevent spilling of concrete waste material. If any spilled material is observed, remove the spilled material and place it into the concrete washout bin.

Removal

Dispose of concrete waste material at a facility specifically licensed to receive solid concrete waste, liquid concrete waste, or both. Remove and dispose of concrete waste within 2 days of the concrete washout bin becoming filled to capacity.

MEASUREMENT AND PAYMENT

Temporary concrete washout bin is paid for as lump sum price, regardless of the number of bins required.

The contract lump sum price paid for temporary concrete washout bin includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing, maintaining, and removing the concrete washout bin, including removal and disposal of concrete waste, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Lane Closure Restriction for Designated Legal Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	H xx	xx	xx							
	SD xx									
x	xx	H xx	xx							
		SD xx								
	x	xx	H xx	xx						
			SD xx							
	x	xx	xx	H xx	xxx					
	x	xx	xx	SD xx	xxx					
				x	H xx					
				x	SD xx					
					x	H xx				
						SD xx				
						x	H xx	xx	xx	xx
							SD xx			

Legends:

	Refer to lane closure charts
x	The full width of the traveled way shall be open for use by public traffic after 5:00 a.m.
xx	The full width of the traveled way shall be open for use by public traffic.
xxx	The full width of the traveled way shall be open for use by public traffic until 12:00 a.m.
H	Designated Legal Holiday
SD	Special Day

10-1.755 WELDED STEEL PIPE CASING (BRIDGE)

Welded steel pipe casings through bridges and under approach slabs shall be of the size shown and shall conform to the provisions in Section 70, "Miscellaneous Facilities," of the Standard Specifications and these special provisions.

Unless otherwise shown on the project plans, casings shall be installed at each abutment, and casings shall be extended to the greater of: (1) 5 feet beyond the approach slab, (2) 5 feet beyond the end of the adjacent wingwall, or (3) 20 feet beyond the abutment.

WORKING DRAWINGS

Working drawings for temporary support of casing pipe at the abutments shall be submitted for approval in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings" of the Standard Specifications.

MATERIALS

Casing pipe

Casing pipe shall be welded steel pipe conforming to the provisions in Section 70-1.02B, "Welded Steel Pipe," of the Standard Specifications, except that the pipe shall be treated in accordance with the following requirements, prior to shipping. Exterior surfaces of welded steel pipe shall be cleaned and coated in conformance with the requirements in ANSI/AWWA C213 or at the option of the Contractor, cleaned, primed, and coated in accordance with specifications of ANSI/AWWA C214.

Pipe wrapping tape

Wrapping tapes for pipe in contact with the ground shall be a pressure sensitive polyvinyl chloride or polyethylene tape having thickness of 50 mils, minimum.

Concrete pipe supports

Concrete pipe supports shall consist of either a precast or cast-in-place concrete pipe cradle, galvanized steel pipe clamp, 2 anchor bolts, and where shown on the plans, a stainless steel pipe protection shield.

Concrete pipe supports and pipe stops shall conform to the dimensions shown on the plans and shall be constructed of concrete conforming to the provisions in Section 90-10, "Minor Concrete," of the Standard Specifications, commercial quality wire mesh, and reinforcement. The concrete pipe supports and pipe stops shall be moist cured for not less than 3 days.

Epoxy adhesive

Epoxy adhesive shall conform to the provisions in Section 95, "Epoxy" of the Standard Specifications and one of the following:

- A. Section 95-2.01, "Binder (Adhesive), Epoxy Resin Base" for load bearing applications.
- B. Section 95-2.04, "Rapid Set Epoxy Adhesive for Pavement Markers"
- C. Section 95-2.05, "Standard Set Epoxy Adhesive for Pavement Markers"

CONSTRUCTION

If a blockout is provided in the bridge abutment wall for casing pipe, the space between the casing pipe and bridge abutment wall shall be filled with mortar conforming to the provisions in Section 51-1.135, "Mortar" of the Standard Specifications.

Openings for utilities through bridge superstructure concrete shall either be formed or shall consist of pipe sleeves.

Wrapping and coating pipe

Damaged coating on steel pipe casing in contact with earth shall be wrapped as follows:

- A. Pipe to be wrapped shall be thoroughly cleaned and primed as recommended by the tape manufacturer.
- B. Tapes shall be tightly applied with 1/2 uniform lap, free from wrinkles and voids to provide not less than a 100—mil thickness.
- C. Field joints and fittings for wrapped pipe shall be covered by double wrapping 50—mil thick tape. Wrapping at joints shall extend a minimum of 6 inches over adjacent pipe coverings. Width of tape for wrapping fittings shall not exceed 2 inches. Adequate tension shall be applied so tape will conform closely to contours of joint.

Where a welded steel pipe casing passes through the abutment wall, the welded steel pipe casing shall be additionally wrapped with 2 layers of 15—pound asphalt-felt building paper, securely taped or wired in place.

MEASUREMENT AND PAYMENT

Measurement and payment for welded steel pipe casing (bridge) for each size listed in the Engineers Estimate shall conform to the provisions in Sections 70-1.04, "Measurement" and 70-1.05, "Payment" of the Standard Specifications.

Full compensation for furnishing and installing steel hangers, steel brackets, steel cover plates, mortar and building paper, casing, concrete supports, and other fittings shall be considered as included in the contract prices paid per linear foot for the sizes of welded steel pipe casing (bridge) involved, and no additional compensation will be allowed therefor.

SECTION 13: RAILROAD RELATIONS AND INSURANCE

13-1.01 GENERAL

The term "Railroad" shall mean the Union Pacific Railroad Company.

It is expected that the Railroad will cooperate with the Contractor to the end that the work may be handled in an efficient manner. However, except for the additional compensation provided for hereinafter for delays in completion of specific unit of work to be performed by the Railroad, and except as provided in Public Contracts Code Section 7102, the Contractor shall have no claim for damages, extension of time, or extra compensation in the event his work is held up by railroad train operations or other work performed by the Railroad.

The Contractor must understand the Contractor's right to enter the Railroad's property is subject to the absolute right of the Railroad to cause the Contractor's work on the Railroad's property to cease if, in the opinion of the Railroad, the Contractor's activities create a hazard to the Railroad's property, employees, and operations.

The Contractor acknowledges its receipt from the State of a copy of the Contractor's Right of Entry Agreement that has been executed by the Railroad and the State. The Contractor agrees to execute and deliver to the Railroad the Contractor's Endorsement that is attached hereto as Appendix 1 and to provide to the State and/or the Railroad all insurance policies, binders, certificates or endorsements that are set forth in Exhibit B of the Contractor's Right of Entry Agreement.

13-1.02 RAILROAD REQUIREMENTS

The Contractor shall provide to Ken Tom, Manager, Industry and Public Projects, 2015 South Willow Street, Bloomington, California 92316, and the Engineer, in writing, the advance notice requirements set forth in Section 1 of **Exhibit B** of the Right of Entry Agreement before performing any work on, or adjacent to the property or tracks of the Railroad.

The Contractor shall cooperate with the Railroad where work is over or under the tracks, or within the limits of the Railroad property to expedite the work and avoid interference with the operation of railroad equipment.

The Contractor shall comply with the rules and regulations of the Railroad or the instructions of its representatives in relation to protecting the tracks and property of the Railroad and the traffic moving on such tracks, as well as the wires, signals and other property of the Railroad, its tenants or licensees, at and in the vicinity of the work during the period of construction. The responsibility of the Contractor for safe conduct and adequate policing and supervision of its work at the job site shall not be lessened or otherwise affected by the presence at the work site of the Railroad representatives, or by the Contractor's compliance with any requests or recommendations made by the Railroad representatives.

The Contractor shall perform work so as not to endanger or interfere with the safe operation of the tracks and property of the Railroad and traffic moving on such tracks, as well as wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the work.

The Contractor shall take protective measures to keep the Railroad facilities, including track ballast, free of sand or debris resulting from his operations. Damage to the Railroad facilities resulting from the Contractor's operations will be repaired or replaced by the Railroad and the cost of such repairs or replacement shall be deducted from the Contractor's progress and final pay estimates.

The Contractor shall contact the Railroad's "Call Before You Dig" at least forty-eight (48) hours prior to commencing work, at 1-800-336-9193 during normal business hours (7:00 a.m. to 9:00 p.m. Central Time, Monday through Friday, except holidays – also a 24-hour, 7-day number for emergency calls) to determine location of fiber optics and other underground utilities and installations. If a telecommunications system is buried anywhere on or near the Railroad property, the Contractor will coordinate with the Railroad and the Telecommunication Company(ies) to arrange for relocation or other protection of the system prior to beginning any work on or near Railroad property.

The Contractor shall not pile or store any materials nor park any equipment closer than 25'-0" to the centerline of the nearest track, unless directed by the Railroad's representative.

The Contractor shall also abide by the following temporary clearances during the course of construction:

- 3.66 meter (12'-0") horizontally from centerline of track
- 6.40 meter (21'-0") vertically above top of rail

The temporary vertical construction clearance above provided will not be permitted until authorized by the Public Utilities Commission. It is anticipated that authorization will be received not later than fifteen (15) days after the approval of the contract by the Attorney General. In the event authorization is not received by the time specified, and, if in the opinion of the Engineer, the Contractor's operations are delayed or interfered with by reason of authorization not being received by the said time, the Licensee will compensate the Contractor for such delay to the extent provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications and not otherwise.

Walkways with railing shall be constructed by the Contractor over open excavation areas when in close proximity of tracks, and railings shall not be closer than 2.60-meter (8'-6") horizontally from centerline of the nearest track, if tangent, or 2.90-meter (9'-6") if curved.

Infringement on the above temporary construction clearances by the Contractor's operations shall be submitted to the Railroad by the Engineer, and shall not be undertaken until approved by the Railroad, and until the Engineer has obtained any necessary authorization from any governmental body or bodies having jurisdiction thereover. No extension of time or extra compensation will be allowed in the event the Contractor's work is delayed pending Railroad approval and governmental authorization.

When the temporary vertical clearance is less than 6.86-meter (22'-6") above top of rail, the Railroad shall have the option of installing tell-tales or other protective devices the Railroad deems necessary for protection of the Railroad trainmen or rail traffic.

Four (4) sets of plans, in 279mm x 432mm (11" x 17") format, and two (2) sets of calculations showing details of construction affecting the Railroad's tracks and property not included in the contract plans, including but not limited to shoring and falsework, shall be submitted to the Engineer for review prior to submittal to the Railroad for final approval. Falsework shall comply with the Railroad guidelines. Demolition of existing structures shall comply with the Railroad guidelines. Shoring shall be designed in accordance with the Railroad's shoring requirement of Drawing No. 106613 and guidelines for shoring and falsework, latest edition, issued by the Railroad's Office of Chief Engineer. Shoring and falsework plans and calculations shall be prepared and signed by a professional engineer registered in California. This work shall not be undertaken until such time as the Railroad has given such approval, review by the Railroad may take up to six (6) weeks after receipt of necessary information.

The Contractor shall notify the Engineer in writing, at least twenty-five (25) calendar days but not more than forty (40) days in advance of the starting date of installing temporary work with less than permanent clearance at each structure site. The Contractor shall not be permitted to proceed with work across railroad tracks until this requirement has been met. No extension of time or extra compensation will be allowed if the Contractor's work is delayed due to failure to comply with the requirements in this paragraph.

Blasting will be permitted only when approved by the Railroad.

The Contractor shall, upon completion of the work covered by this Contract to be performed by the Contractor upon the premises or over or beneath the tracks of the Railroad, promptly remove from the premises of the Railroad, the Contractor's tools, implements and other materials, whether brought upon said premises and cause said premises to be left in a clean and presentable condition.

- (a) Under track pipeline installations shall be constructed in accordance with the Railroad's current standards which may be obtained from the Railroad. The general guidelines are as follows:
- (b) Edges of jacking or boring pit excavations shall be a minimum of 6.10-meter (20 feet) from the centerline of the nearest track.
- (c) If the pipe to be installed under the track is 100mm (4 inches) in diameter or less, the top of the pipe shall be at least 42 inches below base of rail.
- (d) If the pipe diameter is greater than 100-meter (4 inches) in diameter, it shall be encased and the top of the steel pipe casing shall be at least 1.60-meter (66 inches) below base of rail.
- (e) Installation of pipe or conduit under the Railroad's tracks shall be done by dry bore and jack method.
- (f) Hydraulic jacking or boring will not be permitted.

Safety of personnel, property, rail operations and the public is of paramount importance. As reinforcement and in furtherance of overall safety measures to be observed by the Contractor (and not by way of limitation), the following special safety rules shall be followed:

- (a) The Contractor shall keep the job site free from safety and health hazards and ensure that its employees are competent and adequately trained in all safety and health aspects of the job. The Contractor shall have proper first aid supplies available on the job site so that prompt first aid services can be provided to any person that may be injured on the job site. The Contractor shall promptly notify the Railroad of any U.S. Occupational Safety and Health Administration reportable injuries occurring to any person that may arise during the work performed on the job site. The Contractor shall have a non-delegable duty to control its employees while they are on the job site or any other property of the Railroad to be certain they do not use, be under the influence of, or have in their possession any alcoholic beverage, drug, narcotic or other substance that may inhibit the safe performance of work by the employee.
- (b) The employees of the Contractor shall be suitably dressed to perform their duties safely and in a manner that will not interfere with their vision, hearing or free use of their hands or feet. Only waist length shirts with sleeves and trousers that cover the entire leg are to be worn. If flare-legged trousers are worn, the trouser bottoms must be tied to prevent catching. The employees should wear sturdy and protective work boots and at least the following protective equipment:
 - (1) Protective head gear that meets American National Standard-Z89.1-latest revision. It is suggested that all hardhats be affixed with the Contractor's or the subcontractor's company logo or name.
 - (2) Eye protection that meets American National Standard for occupational and educational eye and face protection, Z87.1-latest revision. Additional eye protection must be provided to meet specific job situations such as welding, grinding, burning, etc.; and
 - (3) Hearing protection which affords enough attenuation to give protection from noise levels that will be occurring on the job site.
- (c) All heavy equipment provided or leased by the Contractor shall be equipped with audible back-up warning devices. If in the opinion of the Railroad Representative any of the Contractor's or the subcontractor's equipment is unsafe for use on the Railroad's right-of-way, the Contractor, at the request of the Railroad representative, shall remove such equipment from the Railroad's right-of-way.

13-1.03 PROTECTION OF RAILROAD FACILITIES

Upon the advance notification provided to the Railroad as set forth in Section 1 of Exhibit B of the Contractor's Right of Entry Agreement, the Railroad representatives, conductors, flagmen or watchmen will be provided by the Railroad to protect its facilities, property and movements of its trains or engines. Notice shall be made to the Railroad's Manager of Track Maintenance at (402) 501-3774. At the time of notification, the Contractor shall provide the Railroad with a schedule of dates that flagging services will be needed, as well as times, if outside normal working hours. Subsequent deviation from the schedule shall require ten (10) working days' advance notice from the first affected date. The Railroad will furnish such personnel or other protective devices:

- (a) When equipment is standing or being operated within 25 feet, measured horizontally, from centerline of any track on which trains may operate, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- (b) For any excavation below elevation of track subgrade if, in the opinion of the Railroad's representative, track or other Railroad facilities may be subject to settlement or movement.
- (c) During any clearing, grubbing, grading or blasting in proximity to the Railroad which, in the opinion of the Railroad's representative, may endanger the Railroad facilities or operations.
- (d) During any of the Contractor's operations when, in the opinion of the Railroad's representatives, the Railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines or pipe lines, may be endangered.

The cost of flagging and inspection provided by the Railroad during the period of constructing that portion of the project located on or near the Railroad property, as deemed necessary for the protection of the Railroad's facilities and trains, will be borne by the State. The Railroad has indicated that its estimated flagging rate will be around One Thousand Dollars (\$1,000.00) per day and that the Railroad has estimated a total of two hundred (200) days of flagging. The State shall pay the Railroad for all actual flagging costs incurred by the Railroad under this Project.

13-1.04 WORK BY RAILROAD

The following work by the Railroad will be performed by Railroad forces and is not a part of the work under this Contract.

- (a) The Railroad will perform preliminary engineering and inspection (if any) and flagging as specified in Section 13-1.03 "Protection of Railroad Facilities," of these special provisions.
- (b) Underground railroad communication line in vicinity of proposed Structure.
- (c) Remove advertising signboards and signboard appurtenances.
- (d) Temporary crossings at grade over tracks of Railroad for the purpose of hauling earth, rock, paving or other materials will not be permitted. If the Contractor, for the purpose of constructing highway-railway grade separation structures, including construction ramps thereto, desires to move equipment or materials across Railroad's tracks, the Contractor shall first obtain permission from Railroad via the State Engineer. Should Railroad approve the temporary crossing, State shall execute a Service Contract with Railroad for Railroad to construct the temporary crossing. Under the Service Contract, State shall bear the cost of the crossing surface, warning devices and other components that might be required. Railroad, at State's expense, shall provide flagmen to control movements of vehicles across the temporary crossing. State and its Contractor shall prevent the use of such temporary crossing by unauthorized persons and vehicles.

13-1.04.1 NO TEMPORARY HAUL ROADS

For this Project the Railroad will not permit any temporary contractor haul roads, or any other type of at-grade crossing, across the Railroad's tracks.

13-1.05 DELAYS DUE TO WORK BY RAILROAD

If delays due to work by the Railroad occur, and the Contractor sustains loss which, in the opinion of the Engineer, could not have been avoided by the judicious handling of forces, equipment and plant, the amount of said loss shall be determined as provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications. Contractor shall not file any claims against Railroad for any such loss.

If a delay due to work by the Railroad occurs, an extension of time determined pursuant to the provisions in Section 8-1.07, "Liquidated Damages," of the Standard Specifications will be granted. Contractor shall not file any claims against Railroad for any such loss.

13-1.06 LEGAL RELATIONS

The provisions of Section 13-1, "Relations with Railroad Company," and the provisions of Section 13-2, "Railroad Protective Insurance," of these special provisions shall inure directly to the benefit of the Railroad.

13-2 INSURANCE AND ENDORSEMENTS

In addition to any other form of insurance or bonds required under the terms of the contract and specifications, the Contractor will be required to carry insurance of the kinds and in the amounts hereinafter specified.

Such insurance shall be approved by the Railroad before any work is performed on the Railroad's property and shall be carried until all work required to be performed on or adjacent to the Railroad's property under the terms of the contract is satisfactorily completed as determined by the Engineer, and thereafter until all tools, equipment and materials have been removed from the Railroad's property and such property is left in a clean and presentable condition.

Full compensation for all premiums which the Contractor is required to pay on all the insurance described hereinafter shall be considered as included in the prices paid for the various items of work to be performed under the contract, and no additional allowance will be made thereof or for additional premiums which may be required by extensions of the policies of insurance.

The following insurance coverage will be required:

- A. **Commercial General Liability Insurance.** Commercial general liability (CGL) with a limit of not less than \$5,000,000 each occurrence and an aggregate limit of not less than \$10,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, which must be stated on the certificate of insurance:

- Contractual Liability Railroads ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.
- Designated Construction Project(s) General Aggregate Limit ISO Form CG 25 03 03 97 (or a substitute form providing equivalent coverage) showing the project on the form schedule.

- B. **Business Automobile Coverage Insurance.** Business auto coverage written on ISO form CA 00 01 (or a substitute form providing equivalent liability coverage) with a combined single limit of not less \$5,000,000 for each accident.

The policy must contain the following endorsements, which must be stated on the certificate of insurance:

- Coverage For Certain Operations In Connection With Railroads ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Property" as the Designated Job Site.
- Motor Carrier Act Endorsement - Hazardous materials clean up (MCS-90) if required by law.

- C. **Workers' Compensation and Employers' Liability Insurance.** Coverage must include but not be limited to:
- Contractor's statutory liability under the workers' compensation laws of the State of California.
 - Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 disease policy limit \$500,000 each employee.

If Contractor is self-insured, evidence of state approval and excess workers compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

The policy must contain the following endorsement, which must be stated on the certificate of insurance:

- Alternate Employer endorsement ISO form WC 00 03 01 A (or a substitute form providing equivalent coverage) showing Railroad in the schedule as the alternate employer (or a substitute form providing equivalent coverage).

- D. **Railroad Protective Liability Insurance.** Contractor must maintain Railroad Protective Liability insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Railroad as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000. A binder stating the policy is in place must be submitted to Railroad before the work may be commenced and until the original policy is forwarded to Railroad.

- E. **Umbrella or Excess Insurance.** If Contractor utilizes umbrella or excess policies, these policies must "follow form" and afford no less coverage than the primary policy.

- F. **Pollution Liability Insurance.** Pollution liability coverage must be written on ISO form Pollution Liability Coverage Form Designated Sites CG 00 39 12 04 (or a substitute form providing equivalent liability coverage), with limits of at least \$5,000,000 per occurrence and an aggregate limit of \$10,000,000.

If the scope of work as defined in this Agreement includes the disposal of any hazardous or non-hazardous materials from the job site, Contractor must furnish to Railroad evidence of pollution legal liability insurance maintained by the disposal site operator for losses arising from the insured facility accepting the materials, with coverage in minimum amounts of \$1,000,000 per loss, and an annual aggregate of \$2,000,000.

Other Requirements

- G. All policy(ies) required above (except worker's compensation and employers liability) must include Railroad as "Additional Insured" using ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage). The coverage provided to Railroad as additional insured shall, to the extent provided under ISO Additional Insured Endorsement CG 20 26, and CA 20 48 provide coverage for Railroad's negligence whether sole or partial, active or passive, and shall not be limited by Contractor's liability under the indemnity provisions of this Agreement.

- H. Before Contractor commences any work, the Contractor shall, except to the extent prohibited by law; (1) require each of its subcontractors to include the Contractor as "Additional Insured" in the subcontractor's Commercial Liability policy and Business Automobile policies with respect to all liabilities arising out of the subcontractor's performance of work on behalf of the Contractor by endorsing these policies with ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage; (2) require each of its subcontractors to endorse their Commercial General Liability Policy with "Contractual Liability Railroads" ISO Form CG 24 17 10 01 (or a substitute form providing equivalent coverage) for the job site; and (3) require each of its subcontractors to endorse their Business Automobile Policy with "Coverage for Certain Operations In Connection With Railroads" ISO Form CA 20 70 10 01 (or a substitute form providing equivalent coverage) for the job site.

- I. Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless the law governing this Agreement prohibits all punitive damages that might arise under this Agreement.
- J. Contractor waives all rights of recovery, and its insurers also waive all rights of subrogation of damages against Railroad and its agents, officers, directors and employees. This waiver must be stated on the certificate of insurance.
- K. Prior to commencing the work, Contractor shall furnish Railroad with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements in this Agreement.
- L. All insurance policies must be written by a reputable insurance company acceptable to Railroad or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the State of California.
- M. The fact that insurance is obtained by Contractor or by Railroad on behalf of Contractor will not be deemed to release or diminish the liability of Contractor, including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by Railroad from Contractor or any third party will not be limited by the amount of the required insurance coverage.

BID ITEM LIST
12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	070018	TIME-RELATED OVERHEAD	WDAY	520		
3	071321	TEMPORARY FENCE (TYPE CL-6)	LF	1,280		
4	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
5	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
6	074028	TEMPORARY FIBER ROLL	LF	21,400		
7	074029	TEMPORARY SILT FENCE	LF	1,370		
8	BLANK					
9	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	5		
10	074035	TEMPORARY CHECK DAM	LF	1,640		
11	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	7		
12	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	41		
13	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	47,500		
14	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
15	074053	TEMPORARY HYDROSEED	SQYD	13,200		
16	074056	RAIN EVENT ACTION PLAN	EA	55	500.00	27,500.00
17	074057	STORM WATER ANNUAL REPORT	EA	2	2,000.00	4,000.00
18	074058	STORM WATER SAMPLING AND ANALYSIS DAY	EA	26		
19	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
20	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150767	REMOVE BRIDGE MOUNTED SIGN	EA	3		
42	150806	REMOVE PIPE	LF	1,530		
43	BLANK					
44	150820	REMOVE INLET	EA	21		
45	020790	REMOVE ROCK BLANKET	SQYD	160		
46	151270	SALVAGE METAL BRIDGE RAILING	LF	497		
47	152390	RELOCATE ROADSIDE SIGN	EA	3		
48	152430	ADJUST INLET	EA	2		
49	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	840		
50	153214	REMOVE CONCRETE CURB	LF	83		
51	153220	REMOVE CONCRETE (CHANNEL)	CY	1.1		
52	153223	REMOVE UNSOUND CONCRETE	CF	60		
53	153235	CLEAN BRIDGE DECK	SQFT	17,750		
54	153246	REMOVE CONCRETE (MISCELLANEOUS)	CY	5.5		
55	157561	BRIDGE REMOVAL (PORTION), LOCATION A	LS	LUMP SUM	LUMP SUM	
56	157562	BRIDGE REMOVAL (PORTION), LOCATION B	LS	LUMP SUM	LUMP SUM	
57	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
58	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
59	190101	ROADWAY EXCAVATION	CY	72,200		
60	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	355		
62 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	5,115		
63 (F)	192050	STRUCTURE EXCAVATION (TIEBACK WALL)	CY	1,010		
64 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	208		
65 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	6,021		
66 (F)	193026	STRUCTURE BACKFILL (TIEBACK WALL)	CY	33		
67 (F)	193119	LEAN CONCRETE BACKFILL	CY	98		
68	194001	DITCH EXCAVATION	CY	970		
69	198001	IMPORTED BORROW	CY	34,100		
70	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
71	204096	MAINTAIN EXISTING PLANTED AREAS	LS	LUMP SUM	LUMP SUM	
72	206401	MAINTAIN EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
73	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
74	208028	3" SUPPLY LINE (BRIDGE)	LF	240		
75	208310	IRRIGATION SLEEVE	LF	66		
76	208739	10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	230		
77	208906	EXTEND 8" CONDUIT	LF	640		
78	209502	BOOSTER PUMP	EA	1		
79	250201	CLASS 2 AGGREGATE SUBBASE	CY	8,160		
80	260201	CLASS 2 AGGREGATE BASE	CY	13,300		

BID ITEM LIST
12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	260210	AGGREGATE BASE (APPROACH SLAB)	CY	8		
82	270065	ASPHALTIC EMULSION (CURING SEAL)	TON	20		
83	280000	LEAN CONCRETE BASE	CY	4,090		
84	390132	HOT MIX ASPHALT (TYPE A)	TON	6,610		
85	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	4,420		
86	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	470		
87	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	4,120		
88	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	330		
89	397005	TACK COAT	TON	20		
90	401050	JOINTED PLAIN CONCRETE PAVEMENT	CY	12,300		
91	404092	SEAL PAVEMENT JOINT	LF	43,000		
92	404093	SEAL ISOLATION JOINT	LF	13,800		
93	413111	REPAIR SPALLED JOINTS	SQYD	180		
94	490503	FURNISH STEEL PILING (HP 10 X 42)	LF	619		
95	490504	DRIVE STEEL PILE (HP 10 X 42)	EA	11		
96	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	859		
97	043133	FURNISH PILING (CLASS 90) (ALTERNATIVE X)	LF	1,466		
98	043134	DRIVE PILE (CLASS 90) (ALTERNATIVE X)	EA	33		
99	043135	FURNISH PILING (CLASS 140) (ALTERNATIVE X)	LF	1,521		
100	043136	DRIVE PILE (CLASS 140) (ALTERNATIVE X)	EA	26		

BID ITEM LIST

12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
102	500050	TIEBACK ANCHOR	EA	158		
103 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	100		
104 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	765		
105 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	3,256		
106 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	83		
107	510087	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	80		
108 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	97		
109	510800	PAVING NOTCH EXTENSION	CF	57		
110 (F)	043137	ARCHITECTURAL TREATMENT (FLOWER PATTERN)	SQFT	39,365		
111	511106	DRILL AND BOND DOWEL	LF	80		
112	511124	RAPID SETTING CONCRETE (PATCH)	CF	60		
113	519088	JOINT SEAL (MR 1")	LF	75		
114	519100	JOINT SEAL (MR 2")	LF	82		
115 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	222,500		
116 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	415,900		
117 (F)	530100	SHOTCRETE	CY	354		
118 (F)	540102	TREAT BRIDGE DECK	SQFT	17,750		
119	540108	FURNISH BRIDGE DECK TREATMENT MATERIAL	GAL	200		
120	043138	PUBLIC SAFETY PLAN	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	568017	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	EA	18		
142	620100	18" ALTERNATIVE PIPE CULVERT	LF	1,340		
143	620140	24" ALTERNATIVE PIPE CULVERT	LF	150		
144	620220	36" ALTERNATIVE PIPE CULVERT	LF	280		
145	620300	48" ALTERNATIVE PIPE CULVERT	LF	220		
146	650014	18" REINFORCED CONCRETE PIPE	LF	8		
147	650018	24" REINFORCED CONCRETE PIPE	LF	43		
148	650026	36" REINFORCED CONCRETE PIPE	LF	52		
149	650034	48" REINFORCED CONCRETE PIPE	LF	61		
150	665016	18" CORRUGATED STEEL PIPE (.064" THICK)	LF	75		
151	665023	24" CORRUGATED STEEL PIPE (.079" THICK)	LF	9		
152	665046	48" CORRUGATED STEEL PIPE (.079" THICK)	LF	12		
153	680207	3" PLASTIC PIPE	LF	240		
154	705311	18" ALTERNATIVE FLARED END SECTION	EA	3		
155	705517	18" AUTOMATIC DRAINAGE GATE	EA	2		
156	707210	24" PRECAST CONCRETE PIPE MANHOLE	LF	6		
157	721009	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	36		
158 (F)	721810	SLOPE PAVING (CONCRETE)	CY	34		
159	727905	MINOR CONCRETE (CHANNEL LINING)	CY	200		
160	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	96		

BID ITEM LIST
12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	731501	MINOR CONCRETE (CURB)	LF	600		
162 (F)	731517	MINOR CONCRETE (GUTTER)	LF	3,910		
163	020792	MINOR CONCRETE (PATTERNED)	CY	140		
164 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	17,600		
165 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	2,000		
166	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	2,030		
167	802510	5' CHAIN LINK GATE (TYPE CL-6)	EA	3		
168	802520	6' CHAIN LINK GATE (TYPE CL-6)	EA	1		
169	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	7		
170	820107	DELINEATOR (CLASS 1)	EA	180		
171	832003	METAL BEAM GUARD RAILING (WOOD POST)	LF	400		
172	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	750		
173 (F)	833032	CHAIN LINK RAILING (TYPE 7)	LF	388		
174 (F)	839521	CABLE RAILING	LF	3,920		
175	839541	TRANSITION RAILING (TYPE WB)	EA	7		
176	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	3		
177	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	2		
178	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	8		
179	839701	CONCRETE BARRIER (TYPE 60)	LF	570		
180 (F)	839704	CONCRETE BARRIER (TYPE 60D)	LF	826		

BID ITEM LIST
12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181 (F)	839725	CONCRETE BARRIER (TYPE 736)	LF	553		
182	839731	CONCRETE BARRIER (TYPE 736B)	LF	3,110		
183	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	133,000		
184	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	31,000		
185	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	3,950		
186	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	214,000		
187	840666	PAINT PAVEMENT MARKING (2-COAT)	SQFT	1,220		
188	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	8,970		
189	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	10,700		
190	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
191	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
192	020793	CHANGEABLE MESSAGE SIGN (MODIFY)	LS	LUMP SUM	LUMP SUM	
193	020794	COMMUNICATION SYSTEM	LS	LUMP SUM	LUMP SUM	
194 (F)	860796	SPRINKLER CONTROL CONDUIT (BRIDGE)	LF	470		
195	860798	BOOSTER PUMP ELECTRICAL SYSTEM	LS	LUMP SUM	LUMP SUM	
196	020795	TEMPORARY MICROWAVE VEHICLE DETECTION SYSTEM	LS	LUMP SUM	LUMP SUM	
197	860931	TRAFFIC MONITORING STATION (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
198	860932	TRAFFIC MONITORING STATION (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
199	860933	TRAFFIC MONITORING STATION (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
200	020796	CLOSED CIRCUIT TELEVISION SYSTEM (MODIFY (LOCATION 1))	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

12-0F0404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221	020817	TEMPORARY RAMP METERING SYSTEM (LOCATION 3A) (STAGE 1)	LS	LUMP SUM	LUMP SUM	
222	020818	TEMPORARY RAMP METERING SYSTEM (LOCATION 3A) (STAGE 2)	LS	LUMP SUM	LUMP SUM	
223	020819	TEMPORARY RAMP METERING SYSTEM (LOCATION 3A) (STAGE 3)	LS	LUMP SUM	LUMP SUM	
224	020820	TEMPORARY RAMP METERING SYSTEM (LOCATION 3B) (STAGE 1)	LS	LUMP SUM	LUMP SUM	
225	020821	TEMPORARY RAMP METERING SYSTEM (LOCATION 3B) (STAGE 2 AND 3)	LS	LUMP SUM	LUMP SUM	
226	020822	COPPER THEFT PREVENTION	LS	LUMP SUM	LUMP SUM	
227	869075	SYSTEM TESTING AND DOCUMENTATION	LS	LUMP SUM	LUMP SUM	
228	BLANK					
229	074043	TEMPORARY CONCRETE WASHOUT BIN	LS	LUMP SUM	LUMP SUM	
230	193114	SAND BACKFILL	CY	12		
231	703450	6" DIA WELDED STEEL PIPE CASING (BRIDGE)	LF	75		
232	731504	MINOR CONCRETE (CURB AND GUTTER)	LF	36		
233	731623	MINOR CONCRETE (CURB RAMP)	LF	6		
234	731656	CURB RAMP DETECTABLE WARNING SURFACE	SQFT	64		
235	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

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