

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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**** WARNING ** WARNING ** WARNING ** WARNING ****
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December 20, 2007

11-SD-15-M25.7/M31.0
11-2T0934

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN DIEGO COUNTY IN SAN DIEGO FROM MIRA MESA BOULEVARD UNDERCROSSING TO 0.3 KILOMETERS SOUTH OF ROUTE 56/15 SEPARATION 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 January 10, 2008.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions and the Proposal and Contract.

Project Plan Sheets 31, 42, 80, 98, 100, 136, 152, 163, 164, 168, 174, 176, 197, 201, 203, 214, 231, 240, 242, 247, 408, 424, 431, 452, 482, 729, 780, 781, 782, 783, 784, 785, 786, 787, 788 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 500A, 500B and 500C are added. Half-sized copies of the added sheets are attached for addition to the project plans.

In the Notice to Contractors and Special Provisions, in the "IMPORTANT SPECIAL NOTICES," the following Special Notices are added:

"The bidder's attention is directed to Section 2, "Proposal Requirements and Conditions," and Section 3, "Award and Execution of Contract," in the special provisions regarding submittal of a pre-award qualification questionnaire and a pre-award review of the bidder's qualifications to perform the work of this project.

The bidder's attention is directed to "Escrow of Bid Documentation," in Section 2, "Proposal Requirements and Conditions," of the special provisions.

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This project is part of a pilot program for "Design Sequencing", per Section 217, et seq., of the Streets and Highways Code (Assembly Bill 405). The purpose of the pilot program is to evaluate Design Sequencing as a tool for acceleration of project completion. Design Sequencing is a method of contracting where bids are based on partial project design, and final design activities are sequenced to permit each construction phase to commence when the design for that phase is complete, before the design of the entire project is complete. The project plans for this project are not considered complete to construct the work anticipated by the contract, and the Engineer's Estimate may contain anticipated items of work that are not indicated on the project plans. Design, and final project plans, will be completed during construction.

The bidder's attention is directed to "Project Schedule (Critical Path Method)" regarding additional requirements for Design Sequencing."

In the Special Provisions, Section 2, "PROPOSAL REQUIREMENTS AND CONDITIONS," subsection "ESCROW OF BID DOCUMENTATION," the following subsection is added as follows:

"2-1.06 PRE-AWARD QUALIFICATION QUESTIONNAIRE

Bidders shall submit responses to the "Pre-Award Qualification Questionnaire" included in the Proposal. Responses to the questionnaire shall be submitted with the bid.

Joint venture contactors shall submit a combined "Pre-Award Qualification Questionnaire" providing separate responses for each joint venture partner.

In signing the signature page of the Proposal, the bidder certifies that the information and answers in response to the questionnaire are complete and accurate. Failure to completely answer the questionnaire may be a factor for rejection of the bid.

The bidder's attention is directed to "Pre-Award Qualifications Review," of these special provisions for the requirements of acceptance of bid.

Upon approval of the contract, the completed "Pre-Award Qualification Questionnaire" of each unsuccessful bidder will be returned, unless a determination of non-qualification has been made by the Department, or the award of the contract has been challenged."

In the Special Provisions, Section 3, "PRE-AWARD QUALIFICATION REVIEW AND AWARD AND EXECUTION OF CONTRACT," is replaced as attached.

In the Special Provisions, Section 5-1.15, "PROJECT INFORMATION," items M and N are added in the fourth paragraph as follows:

"Geotechnical Design Report (GDR), dated November 15, 2007.
Revised Foundation Report – Bridge #57-1201."

In the Special Provisions, Section 10-1.26, "TEMPORARY PAVEMENT DELINEATION" is revised as attached.

In the Special Provisions, Section 10-1.61, "SOUND WALL," subsection "DESCRIPTION," the second sentence of the first paragraph is revised as follows:

"Sound walls shall be supported on retaining walls and footings as shown on the plans."

In the Special Provisions, Section 10-1.61, "SOUND WALL," subsection "SOUND WALL (MASONRY BLOCK)," the following paragraphs are added after the second paragraph as follows:

"Concrete for sound wall footings, if required, shall be minor concrete.
The angle of internal friction (ϕ) for the soils at sound wall S301 is 35."

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In the Special Provisions, Section 10-1.61, "SOUND WALL," subsection "MEASUREMENT AND PAYMENT," the following paragraphs are added after the second paragraph as follows:

"Sound wall footings will be measured and paid for as minor concrete (sound wall).

The contract price paid per cubic meter for minor concrete (sound wall) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the footings, complete in place, including excavation, backfill, and reinforcement, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 3, 30, 138, 150, 151, 162, and 204 are revised, Items 272 and 273 are added and Item 271 is deleted as attached.

In the Proposal and Contract the "Pre-Award Qualification Questionnaire" is added as attached.

To Proposal and Contract book holders:

Replace pages 3, 4, 9, 10, 11, 13 and 16 of the Engineer's Estimate in the Proposal with the attached revised pages 3, 4, 9, 10, 11, 13 and 16 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Attached is a copy of the Pre-Award Qualification Questionnaire.

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 CONTRACTORS section of the Notice to Contractors 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 proposal.

Submit bids in the Proposal and Contract 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 office is sending this addendum by GSO overnight mail to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum is available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

If you are not a Proposal and Contract 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,

ORIGINAL SIGNED BY

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

Attachments

Contract No. 11-2T0934

PRE-AWARD QUALIFICATION QUESTIONNAIRE

DETACH AND SUBMIT RESPONSES TO THE DEPARTMENT IN CONFORMANCE WITH THE PROVISIONS IN SECTION 2, "PROPOSAL REQUIREMENTS AND CONDITIONS, " OF THE SPECIAL PROVISIONS.

This project consists, in general, of construction of multiple concrete structures, mechanically stabilized earth retaining walls, and freeway construction and lane widening. Complex staging and traffic handling will be required. This is a Design Sequencing project, so the project plans are not complete as advertised, but complete design will be provided as work progresses. For each item below, provide examples of projects your company has completed (including dates of completion), comparable in scope to the work in this contract.

Responses for joint venture bidders shall include a separate response for each joint venture partner.

1. Concrete structure construction and widening:
2. Bridge demolition:
3. Freeway construction and widening:
4. Mechanically Stabilized Earth retaining walls:
5. Partial design, Design Sequencing, or Design-Build, particularly projects involving the items above:
6. Other relevant experience substantiating your ability to successfully complete the work:

ADDITIONAL QUESTIONS:

1. Has any Contractor's State License Board license held by your firm or its Responsible Managing Employee (RME) or Responsible Managing Officer (RMO) been suspended within the last 5 years?

If yes, please explain on a separate signed sheet.

2. In the last 5 years has your firm, or any firm with which any of your company's owners, officers or partners was associated, been debarred, disqualified, removed or otherwise prevented from bidding on, or completing, any government agency or public works project for any reason?

If yes, explain on a separate signed sheet. State whether the firm involved was the firm applying for prequalification here or another firm. Identify by name of the company, the name of the person within your firm who was associated with that company, the year of the event, the owner of the project and the basis for the action.

3. Has Cal-OSHA or the Federal Occupational Safety and Health Administration cited and assessed penalties against your firm for any serious, willful or repeat violations of its safety or health regulations in the past 5 years?

If yes attach a separate signed sheet describing the citations, including information about the dates of the citations, the nature of the violations, the projects on which the citations were issued, the amount of penalties paid, if any, and specific actions your firm has taken to prevent recurrence of the listed alleged or actual safety violations. If the citation was appealed to the Occupational Safety and Health Appeals Board and a decision has been issued, state the case number and the date of the decision.

4. During the last 5 years, has your firm ever been denied bond coverage by a surety company, or has there ever been a period of time when your firm had no surety bond in place during a public construction project when one was required?

If yes, provide details on a separate signed sheet indicating the date when your firm was denied coverage and the name of the company or companies which denied coverage; and the period during which you had no surety bond in place.

5. At any time during the last 5 years, has any surety company made any payments on your firm's behalf as a result of a default, to satisfy any claims made against a performance or payment bond issued on your firm's behalf, in connection with a construction project, either public or private?

If yes, explain on a separate signed sheet the amount of each such claim, the name and telephone number of the claimant, the date of the claim, the grounds for the claim, the present status of the claim, the date of resolution of such claim if resolved, the method by which such claim was resolved, the nature of the resolution and the amount, if any, at which the claim was resolved.

6. In the past 5 years has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your firm?

If yes, explain on a separate signed sheet. Name the insurance carrier, the form of insurance and the year of the refusal.

Signature of Prospective Bidder

In signing this Questionnaire, the prospective bidder certifies that the information and answers on the "Pre-Award Qualification Questionnaire" are complete and accurate.

SECTION 3. PRE-AWARD QUALIFICATION REVIEW AND AWARD AND EXECUTION OF CONTRACT

3-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 3, "Award and Execution of Contract," of the Standard Specifications and these special provisions for the requirements and conditions concerning award and execution of contract.

Requests for relief of bid and bid protests are to be delivered to the following address: Department of Transportation, MS 43, Attn: Office Engineer, 1727 30th Street, Sacramento, CA 95816 or by facsimile to the Office Engineer at (916) 227-6282.

3-1.015 PRE-AWARD QUALIFICATIONS REVIEW

The Engineer will review the responses to the "Pre-Award Qualification Questionnaire" submitted by the apparent low bidder and the Engineer will make a determination on the bidder's qualifications for performing the work in a manner that is safe for the workers and the public, based on the bidder's experience, qualifications of the on-site supervisory personnel, equipment, conceptual approach to the work, and safety history of the bidder and its supervisory personnel.

If the Engineer determines it necessary, a pre-award qualifications review meeting will be conducted by an agent of the Director, and the apparent low bidder shall participate. Notification of whether a meeting will be conducted will be provided on or before the first Thursday following the time indicated in the "Notice to Contractors" for the opening of bids. The meeting, if held, will be on second Thursday following the time indicated in the "Notice to Contractors" for the opening of bids at 10:00 a.m. in the third floor conference room, 1727 30th Street, Sacramento, CA. 95816. Non-attendance by the apparent low bidder at the pre-award qualifications review meeting shall be just cause for rejection of the bid and forfeiture of the proposal guaranty.

At the pre-award qualifications review meeting, the low bidder shall be prepared to discuss and answer questions relative to the responses to the "Pre-Award Qualification Questionnaire." The Director's agent will prepare written findings and recommendations to the Engineer regarding award of the contract to the apparent low bidder based on the "Pre-Award Qualification Questionnaire" and responses submitted, and on the information provided at the pre-award qualifications review meeting, if held. The decision of the Engineer regarding the bidder's qualifications shall be final.

The second and third apparent bidders shall participate in pre-award qualifications review meetings if requested to do so by the Department. Notification by the Department will be provided a least 48 hours prior to the pre-award qualifications review meeting. Non-attendance by the second or third apparent low bidder at any such requested meeting shall be just cause for rejection of bid and forfeiture of the proposal guaranty.

3-1.017 AWARD AND EXECUTION OF CONTRACT

The award of the contract, if made, will be to the lowest responsible bidder whose proposal complies with all the requirements prescribed and who has met the goal for DVBE participation or has demonstrated, to the satisfaction of the Department, good faith efforts to do so.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds and the documents identified in Section 3-1.025, "Insurance Policies," of the Standard Specifications, to the Department so that it is received within 10 business days after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address: Department of Transportation MS 43, Attn: Office Engineer, 1727 30th Street, Sacramento, CA 95816.

A "Payee Data Record" form will be included in the contract documents to be executed by the successful bidder. The purpose of the form is to facilitate the collection of taxpayer identification data. The form shall be completed and returned to the Department by the successful bidder with the executed contract, contract bonds and the documents identified in Section 3-1.025, "Insurance Policies," of the Standard Specifications,. For the purposes of the form, payee shall be deemed to mean the successful bidder. The form is not to be completed for subcontractors or suppliers. Failure to complete and return the "Payee Data Record" form to the Department as provided herein will result in the retention of 20 percent of payments due the Contractor and penalties of up to \$20,000. This retention of payments for failure to complete the "Payee Data Record" form is in addition to any other retention of payments due the Contractor.

Attention is also directed to "Small Business and Non-Small Business Subcontractor Preferences" of these special provisions.

A bidder who is certified as a Small Business by the Office of Small Business and DVBE Services, Department of General Services, will be allowed a preference in the award of this contract under the following conditions:

- A. The bidder filled out and signed the "Request for Small Business Preference and Non-Small Business Subcontractor Preference" form, requesting Small Business preference, and attached a copy of its Office of Small Business and DVBE Services small business certification letter to the form; and

B. The apparent low bidder is not certified as a Small Business.

A bidder who is not certified as a Small Business by the Office of Small Business and DVBE Services, Department of General Services, will be allowed a preference in the award of this contract under the following conditions:

- A. The bidder filled out and signed the "Request for Small Business Preference and Non-Small Business Subcontractor Preference" form, requesting Non-Small Business Subcontractor preference and notifying the Department that it commits to subcontract at least 25 percent of its bid amount with one or more Small Businesses, and submitted the "CALTRANS BIDDER-SMALL BUSINESS SUBCONTRACTOR-INFORMATION" form listing the subcontractors and suppliers it commits to subcontract with; and
- B. The apparent low bidder is not certified as a Small Business, and has not filled out and signed the "Request for Small Business Preference and Non-Small Business Subcontractor Preference."

The Small Business preference will be a reduction in the bid submitted by the Small Business contractor, for bid comparison purposes, by an amount equal to 5 percent of the amount bid by the apparent low bidder, the amount not to exceed \$50,000. If this reduction results in the Small Business contractor becoming the low bidder, or in a precise tie with a Non-Small Business apparent low bidder, then the contract will be awarded to the Small Business contractor on the basis of the actual bid of the Small Business contractor notwithstanding the reduced bid price used for bid comparison purposes.

The Non-Small Business Subcontractor preference will be a reduction in the bid submitted by the Non-Small Business contractor requesting the preference, for bid comparison purposes, by an amount equal to 5 percent of the amount bid by the apparent low bidder, the amount not to exceed \$50,000. If this reduction results in the Non-Small Business contractor requesting the preference becoming the low bidder, or in a precise tie with a Non-Small Business apparent low bidder not requesting the preference, then the contract will be awarded to the Non-Small Business contractor requesting the preference on the basis of its actual bid notwithstanding the reduced bid price used for bid comparison purposes. Application of the Non-Small Business Subcontractor preference shall not result in the displacement of a Small Business in winning the award.

Attention is also directed to "California Company Preference" of these special provisions.

The amount of the California company reciprocal preference shall be equal to the amount of the preference applied by the state of the nonresident contractor with the lowest responsive bid, except where the "California company" is eligible for a California Small Business Preference or a California Non-Small Business Subcontractor Preference, in which case the preference applied shall be the greater of the two, but not both.

If the bidder submitting the lowest responsive bid is not a "California company" and with the benefit of the reciprocal preference, a "California company's" responsive bid is equal to or less than the original lowest responsive bid, the "California company" will be awarded the contract at its submitted bid price except as provided below.

Small Business bidders shall have precedence over Non-Small Business bidders in that the application of the "California company" preference for which Non-Small Business bidders may be eligible shall not result in the denial of the award to a Small Business bidder.

DVBE bidders shall have precedence over Non-DVBE bidders in that in the event the application of the Small Business preference to more than one bidder results in a precise tie in the bid amounts used for comparison purposes, the award shall go to the DVBE that is also a small business. This precedence shall not apply to the application of the California company reciprocal preference.

10-1.26 TEMPORARY PAVEMENT DELINEATION

Temporary pavement delineation shall be furnished, placed, maintained, and removed in conformance with the provisions in Section 12-3.01, "General," of the Standard Specifications and these special provisions. Nothing in these special provisions shall be construed as reducing the minimum standards specified in the California MUTCD or as relieving the Contractor from the responsibilities specified in Section 7-1.09, "Public Safety," of the Standard Specifications.

GENERAL

When the work causes obliteration of pavement delineation, temporary or permanent pavement delineation shall be in place before opening the traveled way to public traffic. Lane line or centerline pavement delineation shall be provided for traveled ways open to public traffic. On multilane roadways (freeways and expressways) edgeline delineation shall be provided for traveled ways open to public traffic.

The Contractor shall perform the work necessary to establish the alignment of temporary pavement delineation, including required lines or markers. Surfaces to receive application of paint or removable traffic tape temporary pavement delineation shall be dry and free of dirt and loose material. Temporary pavement delineation shall not be applied over existing pavement delineation or other temporary pavement delineation. Temporary pavement delineation shall be maintained until superseded or replaced with a new pattern of temporary pavement delineation or permanent pavement delineation, or as determined by the Engineer.

Temporary pavement markers, including underlying adhesive, and removable traffic tape that are applied to the final layer of surfacing or existing pavement to remain in place or that conflicts with a subsequent or new traffic pattern for the area shall be removed when no longer required for the direction of public traffic, as determined by the Engineer.

TEMPORARY LANELINE AND CENTERLINE DELINEATION

When lane lines or centerlines are obliterated and temporary pavement delineation to replace the lines is not shown on the plans, the minimum lane line and centerline delineation to be provided for that area shall be temporary pavement markers placed at longitudinal intervals of not more than 7.3 m. The temporary pavement markers shall be the same color as the lane line or centerline the pavement markers replace. Temporary pavement markers shall be, at the option of the Contractor, one of the temporary pavement markers listed for short term day/night use (14 days or less) or long term day/night use (180 days or less) in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. The temporary pavement markers shall be placed in conformance with the manufacturer's instructions. Temporary pavement markers for long term day/night use (180 days or less) shall be cemented to the surfacing with the adhesive recommended by the manufacturer, except epoxy adhesive shall not be used to place the temporary pavement markers in areas where removal of the temporary pavement markers will be required.

Temporary lane line or centerline delineation consisting entirely of temporary pavement markers listed for short term day/night use (14 days or less), shall be placed on longitudinal intervals of not more than 7.3 m and shall be used for a maximum of 14 days on lanes opened to public traffic. Before the end of the 14 days the permanent pavement delineation shall be placed. If the permanent pavement delineation is not placed within the 14 days, the Contractor shall replace the temporary pavement markers and provide additional temporary pavement delineation and shall bear the cost thereof. The additional temporary pavement delineation to be provided shall be equivalent to the pattern specified for the permanent pavement delineation for the area, as determined by the Engineer.

TEMPORARY EDGELINE DELINEATION

On multilane roadways (freeways and expressways), when edgelines are obliterated and temporary pavement delineation to replace those edgelines is not shown on the plans, the edgeline delineation to be provided for those areas adjacent to lanes open to public traffic shall be as follows:

1. Temporary pavement delineation for right edgelines shall, at the option of the Contractor, consist of either paint or a solid 100-mm wide traffic stripe tape of the same color as the stripe it replaces, traffic cones, portable delineators or channelizers placed at longitudinal intervals not to exceed 30 m.
2. Temporary pavement delineation for left edgelines shall, at the option of the Contractor, consist of either paint or solid 100-mm wide traffic stripe tape of the same color as the stripe it replaces, traffic cones, portable delineators or channelizers placed at longitudinal intervals not to exceed 30 m or temporary pavement markers placed at longitudinal intervals of not more than 1.8 m.

The lateral offset for traffic cones, portable delineators or channelizers used for temporary edgeline delineation shall be as determined by the Engineer. If traffic cones or portable delineators are used as temporary pavement delineation for edgelines, the Contractor shall provide personnel to remain at the project site to maintain the cones or delineators during the hours of the day that the portable delineators are in use.

Channelizers used for temporary edgeline delineation shall be the surface mounted type and shall be orange in color. Channelizer bases shall be cemented to the pavement in the same manner provided for cementing pavement markers to pavement in "Pavement Markers" of these special provisions, except epoxy adhesive shall not be used to place channelizers on the top layer of pavement. Channelizers shall be, at the Contractor's option, one of the surface mount types (900 mm) listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

Temporary edgeline delineation shall be removed when no longer required for the direction of public traffic as determined by the Engineer.

TEMPORARY TRAFFIC STRIPE (TAPE)

If tape is used, placing the tape shall conform to the following:

- A. The temporary traffic stripe tape shall be complete in place at the location shown before opening the traveled way to public traffic.
- B. Removable traffic stripe tape shall be the temporary removable traffic stripe tape as listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions.
- C. Removable traffic stripe tape shall be applied in conformance with the manufacturer's installation instructions and shall be rolled slowly with a rubber tired vehicle or roller to ensure complete contact with the pavement surface. Traffic stripe tape shall be applied straight on tangent alignment and on a true arc on curved alignment. Traffic stripe tape shall not be applied when the air or pavement temperature is less than 10°C, unless the installation procedures to be used are approved by the Engineer, before beginning installation of the tape.

TEMPORARY TRAFFIC STRIPE (PAINT)

The painted temporary traffic stripe shall be complete in place at the location shown before opening the traveled way to public traffic. Painted temporary traffic stripe delineation shall be removed when no longer required for the direction of public traffic as determined by the Engineer.

Temporary painted traffic stripe shall conform to the provisions in "Paint Traffic Stripe and Pavement Marking" of these special provisions, except for payment. At the option of the Contractor, either one or 2 coats shall be applied regardless of whether on new or existing pavement.

TEMPORARY PAVEMENT MARKING (PAINT)

Temporary pavement marking consisting of painted pavement marking shall be applied and maintained at the locations shown on the plans. The painted temporary pavement marking shall be complete in place at the location shown before opening the traveled way to public traffic. Removal of painted temporary pavement marking will not be required.

Temporary painted pavement marking shall conform to the provisions in "Paint Traffic Stripe and Pavement Marking" of these special provisions, except for payment. At the option of the Contractor, either one or 2 coats shall be applied regardless whether on new or existing pavement.

At the Contractor's option, temporary removable pavement marking tape or permanent pavement marking tape listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions may be used instead of painted temporary pavement markings. When pavement marking tape is used, regardless of which type of tape is placed, the tape will be measured and paid for by the square meter as temporary pavement marking (paint).

TEMPORARY PAVEMENT MARKERS

Temporary pavement markers shall be applied complete in place before opening the traveled way to public traffic.

Temporary pavement markers shall be, at the option of the Contractor, one of the temporary pavement markers for long term day/night use (180 days or less) listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

Temporary pavement markers shall be placed in conformance with the manufacturer's instructions and shall be cemented to the surfacing with the adhesive recommended by the manufacturer, except epoxy adhesive shall not be used in areas where removal of the pavement markers will be required.

Retroreflective pavement markers conforming to the provisions in "Pavement Markers" of these special provisions may be used in place of temporary pavement markers for long term day/night use (180 days or less) except to simulate patterns of broken traffic stripe. Placement of the retroreflective pavement markers used for temporary pavement markers shall conform to the provisions in "Pavement Markers" of these special provisions except the waiting period provisions before placing the pavement markers on new hot mix asphalt surfacing as specified in Section 85-1.06, "Placement," of the Standard Specifications shall not apply and epoxy adhesive shall not be used to place pavement markers in areas where removal of the pavement markers will be required.

MEASUREMENT AND PAYMENT

Temporary traffic stripe (paint) and temporary pavement marking (paint) shown on the plans will be measured and paid for in the same manner specified for paint traffic stripe and paint pavement marking in Section 84-3.06, "Measurement," and Section 84-3.07, "Payment," of the Standard Specifications.

Removal of temporary traffic stripe (paint) and temporary pavement marking (paint) will be measured and paid as remove traffic stripe and pavement marking conforming to Section 15, "Existing Highway Facilities," of the Standard Specifications.

Temporary pavement markers shown on the plans will be measured and paid for by the unit in the same manner specified for retroreflective pavement markers in Section 85-1.08, "Measurement," and Section 85-1.09, "Payment," of the Standard Specifications.

Removal of temporary pavement marker will be measured and paid for as remove pavement markers conforming to remove pavement markers, except for pavement markers not shown on the plans, of these special provisions.

Full compensation for furnishing, placing, maintaining, and removing the temporary pavement markers (including underlying adhesive, layout (dribble) lines to establish alignment of temporary pavement markers or used for temporary laneline and centerline delineation) for those areas where temporary laneline and centerline delineation is not shown on the plans and for providing equivalent patterns of permanent traffic lines for those areas when required, shall be considered as included in the contract prices paid for the items of work that obliterated the laneline and centerline pavement delineation and no separate payment will be made therefor.

Full compensation for furnishing, placing, maintaining, and removing temporary edgeline delineation not shown on the plans shall be considered as included in the contract prices paid for the items of work that obliterated the edgeline pavement delineation and no separate payment will be made therefor. The quantity of channelizers used as temporary edgeline delineation will not be included in the quantity of channelizer (surface mounted) to be paid for.

**ENGINEER'S ESTIMATE
11-2T0934**

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	720		
3	071322	TEMPORARY FENCE (TYPE CL-1.8)	M	220		
4	071325	TEMPORARY FENCE (TYPE ESA)	M	420		
5	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
6 (S)	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
7	012843	TEMPORARY HYDRAULIC MULCH	M2	34 600		
8	074028	TEMPORARY FIBER ROLL	M	44 100		
9	074032	TEMPORARY CONCRETE WASHOUT FACILITY	EA	18		
10	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	22		
11	074035	TEMPORARY CHECK DAM	M	80		
12	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	10		
13	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	190		
14 (S)	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	M2	74 900		
15	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
16 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
17 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
18 (S)	120116	TYPE II BARRICADE	EA	36		
19 (S)	120140	BARRICADE (LEFT IN PLACE)	EA	45		
20 (S)	120149	TEMPORARY PAVEMENT MARKING (PAINT)	M2	130		

ENGINEER'S ESTIMATE
11-2T0934

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21 (S)	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	M	13 600		
22 (S)	120166	CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	EA	340		
23 (S)	012844	TRAFFIC PLASTIC DRUM	EA	340		
24 (S)	120300	TEMPORARY PAVEMENT MARKER	EA	2970		
25 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	12		
26 (S)	129000	TEMPORARY RAILING (TYPE K)	M	24 800		
27 (S)	129100	TEMPORARY CRASH CUSHION MODULE	EA	630		
28	150206	ABANDON CULVERT	EA	11		
29	012845	ABANDON IRRIGATION CROSSOVER	EA	21		
30	150608	REMOVE CHAIN LINK FENCE	M	200		
31	150662	REMOVE METAL BEAM GUARD RAILING	M	900		
32	150667	REMOVE DOUBLE METAL BEAM BARRIER	M	20		
33 (S)	150710	REMOVE TRAFFIC STRIPE	M	60 300		
34	150713	REMOVE PAVEMENT MARKING	M2	58		
35	150742	REMOVE ROADSIDE SIGN	EA	10		
36	150760	REMOVE SIGN STRUCTURE	EA	9		
37	150805	REMOVE CULVERT	M	740		
38	150820	REMOVE INLET	EA	46		
39	150823	REMOVE DOWNDRAIN	M	76		
40	150830	REMOVE RETAINING WALL (PORTION)	M	2200		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	510126	CLASS 2 CONCRETE (MINOR STRUCTURE)	M3	20		
122 (F)	510314	CLASS 4 CONCRETE (BACKFILL)	M3	55		
123 (F)	510414	CLASS 1 CONCRETE (BACKFILL)	M3	100		
124	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	160		
125 (F)	511036	ARCHITECTURAL SURFACE (BARRIER)	M2	1367		
126	041163	SWIRLED PLASTER TEXTURE	M2	11 440		
127 (F)	511064	FRACTURED RIB TEXTURE	M2	210		
128 (F)	511071	RIPPED TEXTURE (ROPE)	M2	110		
129	511106	DRILL AND BOND DOWEL	M	11		
130	511118	CLEAN EXPANSION JOINT	M	173		
131 (F)	515020	REFINISH BRIDGE DECK	M2	55		
132	515041	FURNISH POLYESTER CONCRETE OVERLAY	M3	6		
133 (F)	515042	PLACE POLYESTER CONCRETE OVERLAY	M2	170		
134 (S)	515073	CORE CONCRETE (51 MM - 100 MM)	M	2		
135 (S)	515075	CORE CONCRETE (151 MM - 200 MM)	M	6		
136 (S)	515077	CORE CONCRETE (251 MM - 300 MM)	M	3		
137 (S)	515079	CORE CONCRETE (351 MM - 400 MM)	M	2		
138 (S-F)	518002	SOUND WALL (MASONRY BLOCK)	M2	1440		
139 (S)	519117	JOINT SEAL (MR 30 MM)	M	20		
140 (S)	519125	JOINT SEAL ASSEMBLY (MR 70 MM)	M	62		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141 (S)	519144	JOINT SEAL (MR 50 MM)	M	193		
142 (S-F)	041164	BAR REINFORCING STEEL (CIP WALL FACE)	KG	7000		
143 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	460 100		
144 (S)	520103	BAR REINFORCING STEEL (RETAINING WALL)	KG	1 158 000		
145 (S)	041165	TEMPORARY SHOTCRETE	M3	60		
146 (F)	540102	TREAT BRIDGE DECK	M2	6930		
147	540108	FURNISH BRIDGE DECK TREATMENT MATERIAL	L	3150		
148	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	7000		
149 (S)	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	7000		
150	560208	FURNISH SIGN STRUCTURE (TUBULAR)	KG	169 000		
151 (S)	560209	INSTALL SIGN STRUCTURE (TUBULAR)	KG	169 000		
152	560213	FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	KG	2500		
153 (S)	560214	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	KG	2500		
154	560218	FURNISH SIGN STRUCTURE (TRUSS)	KG	45 000		
155 (S)	560219	INSTALL SIGN STRUCTURE (TRUSS)	KG	45 000		
156	560234	FURNISH LAMINATED PANEL SIGN (25.4 MM-TYPE A)	M2	240		
157	560238	FURNISH SINGLE SHEET ALUMINUM SIGN (1.6 MM-UNFRAMED)	M2	23		
158	560239	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-UNFRAMED)	M2	9		
159	560241	FURNISH SINGLE SHEET ALUMINUM SIGN (1.6 MM-FRAMED)	M2	15		
160	560242	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-FRAMED)	M2	10		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161 (S)	561009	920 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	5		
162 (S)	561015	1524 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	132		
163	562004	METAL (RAIL MOUNTED SIGN)	KG	1100		
164	566011	ROADSIDE SIGN - ONE POST	EA	17		
165	566012	ROADSIDE SIGN - TWO POST	EA	5		
166	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	7		
167 (S)	012854	INSTALL SIGN PANEL ON EXISTING STRUCTURE	M2	140		
168 (S)	568017	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	EA	140		
169 (F)	575004	TIMBER LAGGING	M3	35		
170	650067	300 MM REINFORCED CONCRETE PIPE	M	18		
171	650069	450 MM REINFORCED CONCRETE PIPE	M	950		
172	650075	600 MM REINFORCED CONCRETE PIPE	M	810		
173	650079	900 MM REINFORCED CONCRETE PIPE	M	100		
174	650084	1200 MM REINFORCED CONCRETE PIPE	M	14		
175	680264	80 MM PLASTIC PIPE (OUTLET)	M	84		
176	681134	80 MM PLASTIC PIPE (EDGE DRAIN)	M	480		
177	012855	200 MM PLASTIC PIPE	M	80		
178	685062	150 MM ALTERNATIVE PIPE UNDERDRAIN	M	280		
179	690282	600 MM BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (3.51 MM THICK)	M	120		
180	690297	450 MM BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (3.51 MM THICK)	M	130		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	731627	MINOR CONCRETE (CURB, SIDEWALK AND CURB RAMP)	M3	220		
202 (S)	750001	MISCELLANEOUS IRON AND STEEL	KG	13 800		
203 (S-F)	750505	BRIDGE DECK DRAINAGE SYSTEM	KG	14 600		
204 (S)	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	80		
205 (S)	802592	2.4 M CHAIN LINK GATE (TYPE CL-1.8)	EA	2		
206	820107	DELINEATOR (CLASS 1)	EA	140		
207	820110	MILEPOST MARKER	EA	5		
208	820118	GUARD RAILING DELINEATOR	EA	21		
209	832001	METAL BEAM GUARD RAILING	M	46		
210 (S-F)	041166	TUBULAR PIPE HAND RAILING	M	20		
211 (S-F)	833032	CHAIN LINK RAILING (TYPE 7)	M	215		
212	833080	CONCRETE BARRIER (TYPE K)	M	1640		
213 (S-F)	041167	PERFORATED STEEL SCREEN (PILASTER)	EA	4		
214 (S-F)	041168	PERFORATED STEEL SCREEN (SCONCE)	EA	8		
215 (F)	833142	CONCRETE BARRIER (TYPE 26 MODIFIED)	M	243		
216 (F)	839521	CABLE RAILING	M	992		
217	839541	TRANSITION RAILING (TYPE WB)	EA	3		
218	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	4		
219 (S)	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	7		
220 (S)	839604	CRASH CUSHION (REACT 9CBB)	EA	4		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
261 (S)	860932	TRAFFIC MONITORING STATION (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
262 (S)	012867	TEMPORARY RAMP METERING SYSTEM (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
263 (S)	012868	TEMPORARY RAMP METERING SYSTEM (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
264 (S)	012869	TEMPORARY RAMP METERING SYSTEM (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
265 (S)	012870	TEMPORARY RAMP METERING SYSTEM (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
266 (S)	861101	RAMP METERING SYSTEM (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
267 (S)	861102	RAMP METERING SYSTEM (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
268 (S)	861103	RAMP METERING SYSTEM (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
269 (S)	861104	RAMP METERING SYSTEM (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
270 (S)	012871	FIBER OPTIC COMMUNICATION SYSTEM	LS	LUMP SUM	LUMP SUM	
271	BLANK					
272	510524	MINOR CONCRETE (SOUNDWALL)	M2	60		
273	999990	MOBILIZATION	LS	LUMP SUM		

TOTAL BID: _____