

**DEPARTMENT OF TRANSPORTATION**

DES-OE MS #43  
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December 6, 2002

11-SD-15-M21.2/M27.0  
11-232604  
ACNHI-015-4(188)13N

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 0.2 KM SOUTH OF MIRAMAR WAY OVERCROSSING TO 1.4 KM NORTH OF MIRA MESA BOULEVARD UNDERCROSSING.

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 December 19, 2002.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, the Proposal and Contract, and the Federal Minimum Wages with Modification Number 16 dated 11-8-02. A copy of the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

Project Plan Sheets 329, 330, 331, 536, 537, and 538 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheet 523A is added. Half-sized copy of the added sheet is attached for addition to the project plans.

Project Plan Sheet 533, "GENERAL PLANS" is revised as follows:

Under "QUANTITIES" table, the quantity for the "600 mm CAST-IN-DRILLED-HOLE CONCRETE PILING" is revised from 315 m to 121 m.

Project Plan Sheet 534, "INDEX TO PLANS" is revised as follows:

Under "STANDARD PLANS DATED JULY 1999" table "BO-13, BRIDGE DETAILS" is deleted.

In the Special Provisions, "NOTICE TO CONTRACTORS," the twelfth paragraph is revised as follows:

"Cross sections for this project are available at the office of the District Director of Transportation of the district in which the work is situated in electronic file format."

In the Special Provisions, Section 2, "PROPOSAL REQUIREMENTS AND CONDITIONS," subsection 2-1.03, "ESCROW OF BID DOCUMENTATION," is added after subsection 2-1.02B, "SUBMISSION OF DBE INFORMATION," as attached.

11-SD-15-M21.2/M27.0  
11-232604  
ACNHI-015-4(188)13N

In the Special Provisions, Section 5-1.17 "AREAS FOR CONTRACTOR'S USE," is revised as follows:

"Attention is directed to the provisions in Section 7-1.19, "Rights in Land and Improvements," of the Standard Specifications and these special provisions.

The highway right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

Area available for the exclusive use of the Contractor is located in the northwest quadrant of the Route 15 interchange at Miramar Way, in the area bounded by Route 15, Miramar Way, and the "MW1A" ramp. Use of the Contractor's work areas and other State-owned property shall be at the Contractor's own risk, and the State shall not be held liable for damage to or loss of materials or equipment located within these areas.

Residence trailers will not be allowed within the highway right of way, except that one trailer will be allowed for yard security purposes.

The Contractor shall remove equipment, materials, and rubbish from the work areas and other State-owned property which the Contractor occupies. The Contractor shall leave the areas in a presentable condition in conformance with the provisions in Section 4-1.02, "Final Cleaning Up," of the Standard Specifications.

The Contractor shall secure, at the Contractor's own expense, areas required for plant sites, storage of equipment or materials or for other purposes, if sufficient area is not available to the Contractor within the contract limits, or at the sites designated on the plans outside the contract limits."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the second paragraph is deleted.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the fifteenth paragraph is revised as follows:

"The work may be performed in conformance with the stages of construction shown on the plans. Stage 3 work may be performed prior to Stage 1 and Stage 2 work. 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 the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," subsection "STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND AMENDMENTS," the tenth paragraph is deleted.

In the Special Provisions, Section 10-1.44, "CONCRETE STRUCTURES," subsection "GENERAL," the following paragraph is added after the fourth paragraph:

"Full compensation for 6 mm neoprene strip and galvanized sheet metal shall be considered as included in the contract price paid per cubic meter for structural concrete, bridge and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.47, "ARCHITECTURAL SURFACE (TEXTURED CONCRETE)," subsection "REFEREE SAMPLE," is revised as follows:

"The architectural texture shall match the cobble texture, color and pattern of the referee sample located at District 11 Office of the Construction Duty Senior, 2829 Juan Street, San Diego, CA."

11-SD-15-M21.2/M27.0  
11-232604  
ACNHI-015-4(188)13N

In the Special Provisions, Section 10-1.63, "MISCELLANEOUS CONCRETE CONSTRUCTION," subsection "MINOR CONCRETE (TEXTURED PAVING)," is revised as follows:

"Minor Concrete (Textured Paving) is required at concrete surfaces shown on the plans.

The minor concrete (textured paving) shall consist of colored concrete with an exposed aggregate finish.

The minor concrete (textured paving) shall include a 1200 mm x 1200 mm square grid pattern of tooled grooves. The grooves shall be scored parallel and perpendicular to the centerline of the gore.

The textured paving shall have a color closely conforming to Davis Brand Color Number 641, "Flagstone Brown".

Coloring shall be integral, chemically inert, fade resistant mineral oxide or synthetic type.

Samples of the colors specified for textured paving are available for review at the Office of the District 11 Construction Duty Senior, Telephone No. (619) 688-6635 by prospective bidders at the office of the Department of Transportation 2829 Juan Street, San Diego, CA. Portland cement concrete closely conforming to the colors specified for textured paving are available through commercial concrete sources."

In the Special Provisions, Section 10-1.63, "MISCELLANEOUS CONCRETE CONSTRUCTION," subsection "TEST PANEL," the third paragraph is revised as follows:

"Reinforcing bar, of the size and type shown on the plans and conforming to the provisions in Section 52, "Reinforcement," of the Standard Specifications, shall be placed in the textured paving areas as shown on the plans."

In the Special Provisions, Section 10-1.63, "MISCELLANEOUS CONCRETE CONSTRUCTION," subsection "TEST PANEL," the fifth, sixth, seventh and eighth paragraphs are revised as follows:

"Areas of minor concrete (textured paving) shown on the plans to have an exposed aggregate finish shall be constructed and finished in conformance with the following requirements:

- A. Coarse aggregate shall conform to the provisions for 25-mm x 4.75-mm primary size coarse aggregate in Section 90-3.02, "Coarse Aggregate Grading," of the Standard Specifications.
- B. Shotcrete shall not be used for the construction of exposed aggregate concrete.
- C. Coarse aggregates shall be exposed to a depth of approximately 5 mm to 10 mm. Exposed aggregate surfaces shall be uniform in appearance.
- D. At the option of the Contractor, a concrete set retarder may be applied to the surface of the concrete after placing, consolidating, and finishing of the concrete has been completed. The concrete set retarder shall be commercial quality, manufactured specifically for use on the top surface of concrete and shall be applied in accordance with the manufacturer's recommendations. The retarder shall effectively retard the setting time of the cement and fine aggregate matrix deep enough and long enough to permit exposing the aggregates.
- E. Care shall be taken in placing and consolidating the concrete such that the coarse aggregate remains uniformly distributed throughout the concrete.
- F. When the mass of the concrete has set sufficiently to permit removing the matrix of cement and fine aggregate, the coarse aggregate shall be exposed with a water spray, coarse brooming, abrasive blasting, or a combination of these procedures. Removal methods shall not dislodge or loosen the coarse aggregate from embedment in the cement mortar.

11-SD-15-M21.2/M27.0  
11-232604  
ACNHI-015-4(188)13N

- G. Immediately after the cement mortar has hardened sufficiently to resist further removal, all cement film and other loose material shall be cleaned from the exposed aggregate and all other surfaces with stiff brooms and water.
- H. Except when operations for exposing the aggregate are underway, concrete shall be cured by the water method or with Type (6) curing compound in conformance with the provisions in Section 90-7.01B, "Curing Compound Method," of the Standard Specifications. Areas of concrete where curing compounds are removed during the cure period shall be kept continuously wet until the end of the cure period or until the curing compound is replaced."

In the Special Provisions, Section 10-3.06, "CONDUIT," the first paragraph is revised as follows:

"Conduit to be installed underground, in concrete barriers, and in retaining walls shall be Type 3 unless otherwise specified."

In the Proposal and Contract, the Engineer's Estimate Items 12, 13, 14, 27, 32, 34, 37, 38, 72, 73, 75, 76, 82, 85, 92, 94, 95, 96, 112, 129, 132, 135, 136, 137, 138, 142, 143, 145, 146, 147, 149, 153, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, and 179 are revised as attached.

To Proposal and Contract book holders:

Replace the entire Engineer's Estimate in the Proposal with the attached revised Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

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 UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

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  
Office Engineer

Attachments

### **2-1.03 ESCROW OF BID DOCUMENTATION**

Bid documentation shall consist of all documentary and calculated information generated by the Contractor in preparation of the bid. The bid documentation shall conform to the requirements in these special provisions, and shall be submitted to the Department and held in escrow for the duration of the contract.

The escrowed bid documents will be the only documents accepted from the Contractor regarding preparation of the bid.

In signing the proposal, the bidder certifies that the material submitted for escrow constitutes all the documentary information used in preparation of the bid and that he has personally examined the contents of the container and that they are complete.

The first, second, and third apparent low bidders shall submit to the office of the District 11 Construction Duty Senior, telephone (619) 688-6635, facsimile (619) 688-6988, 2829 Juan Street, San Diego, CA 92110, the legal names of at least one but not more than two bidder's representatives authorized to present the bid documentation for escrow and the legal names of the persons responsible for preparing the bidder's estimate on the first Monday, before 3:30 p.m., following the time indicated in the "Notice to Contractors" for the opening of bids. The fourth and subsequent apparent low bidders shall submit legal names if requested by the Department to do so.

Nothing in the bid documentation shall be construed to change or modify the terms or conditions of the contract.

Escrowed bid documentation will not be used for pre-award evaluation of the Contractor's anticipated methods of construction, nor to assess the Contractor's qualifications for performing the work.

Bid documentation shall clearly itemize the Contractor's estimated costs of performing the work. The documentation submitted shall be complete and so detailed as to allow for an in-depth analysis of the Contractor's estimate.

The bid documentation shall include, but not be limited to: quantity takeoffs; rate schedules for the direct costs and the time- and nontime-related indirect costs for labor (by craft), plant and equipment ownership and operation, permanent and expendable materials, insurance and subcontracted work; estimated construction schedules, including sequence and duration and development of production rates; quotations, scoping documents and subcontracts related to subcontractors, manufacturers and suppliers; estimates of field and home office overhead; contingency and margin for each contract item of work; names of the persons responsible for preparing the bidder's estimate, and other reports, calculations, assumptions and information used by the bidder to arrive at the estimate submitted with the proposal.

The Contractor shall also submit bid documentation for each subcontractor, manufacturer and supplier whose total subcontract or purchase orders exceeds or is expected to exceed one-half of one percent of the total bid or \$10,000.00 whichever is greater. Subcontractor, manufacturer and supplier bid documentation shall be enclosed with the Contractor's submittal regardless of whether or not subcontracts or purchase orders have been executed or entered into on the date that bid documentation is submitted for escrow. The examination of subcontractors', manufacturers' and suppliers' bid documentation will be accomplished in the same manner as for the Contractor's bid documentation. If a subcontractor, manufacturer or supplier is replaced, bid documentation for the new subcontractor, manufacturer or supplier shall be submitted for review and escrow before authorization for the substitution will be granted. Upon written request of a subcontractor, manufacturer or supplier, the bid documentation from that subcontractor, manufacturer or supplier shall be reviewed only by the subcontractor, manufacturer or supplier and the Department and shall be placed in a separate container within the Contractor's container. The written request from the subcontractor, manufacturer or supplier shall be included with the bid documentation.

If the bidder is a joint venture, the bid documentation shall include the joint venture agreement, the joint venture estimate comparison and final reconciliation of the joint venture estimate.

Copies of the proposals submitted by the first, second and third low bidders will be provided to the respective bidders for inclusion in the bid documentation to be escrowed.

The authorized representatives of the first, second, and third apparent low bidders shall present the bid documentation for escrow at the District 11 Office, Construction Duty Senior (619) 688-6635, 2829 Juan Street, San Diego, CA 92110, on the first Thursday between 10:00 a.m. and 11:00 a.m., following the time indicated in the "Notice to Contractors" for the opening of bids. The fourth and subsequent apparent low bidders shall present the bid documentation for escrow if requested by the Department to do so.

Bid documentation shall be submitted as a paper copy in a sealed container, clearly marked with the bidder's name, date of submittal, project contract number and the words, "Bid Documentation for Escrow."

Failure to submit the actual and complete bid documentation as specified herein within the time specified shall be cause for rejection of the proposal.

Upon submittal, the bid documentation of the apparent low bidder will be examined and inventoried by the duly designated representatives of the Contractor and the Department to ensure that the bid documentation is authentic, legible, and in accordance with the terms of this section "Escrow of Bid Documentation." The examination will not include review of, nor will it constitute approval of, proposed construction methods, estimating assumptions or interpretation of the contract. The examination will not alter any conditions or terms of the contract. The acceptance or rejection by the Department that the submitted bid documents are in compliance with this section "Escrow of Bid Documentation" shall be completed within 48 hours of the time the bid documentation is submitted by the Contractor.

At the completion of the examination, the bid documents will be sealed and jointly deposited at an agreed commercial business.

Bid documentation submitted by the second and third apparent low bidders will be jointly deposited at an agreed commercial businesses. If the apparent low bid is withdrawn or rejected, the bid documentation of the second low bidder will be examined and inventoried in the manner specified above, then sealed and deposited again in escrow. If the second low bid is withdrawn or rejected, the bid documentation of the third low bidder will be examined and inventoried in the manner specified above, then sealed and deposited again in escrow. Bid documentation from subsequent bidders, if requested, will be examined and inventoried in the same manner as specified above, then sealed and deposited in escrow. Upon execution and final approval of the contract or rejection of all bids, the bid documentation will be returned to any remaining unsuccessful bidders.

Any and all components of the escrowed bid documentation may be examined by the designated representatives of both the Department and the Contractor, at any time deemed necessary by either the Department or the Contractor to assist in the negotiation of price adjustments and change orders, or to assist in the potential resolution or in the settlement of claims or disputes. Such a joint review shall be performed within 15 days of receipt of a written request to do so by either party. If the Contractor refuses to participate in the joint examination of any and all components of the escrowed bid documentation as provided herein, such refusal shall be considered as a failure by the Contractor to exhaust administrative claim remedies with respect to the particular protest, notice of potential claim, or claim. In addition, this refusal by the Contractor shall constitute a bar to future arbitration with respect to the protest, potential claim or claim as provided by Section 10240.2 of the California Public Contract Code.

If requested by a Disputes Review Board, the escrowed bid documentation may be utilized to assist the Board in its recommendations.

The bid documentation submitted by the Contractor will be held in escrow until the contract has been completed, the ultimate resolution of all disputes and claims has been achieved and receipt of final payment has been accepted by the Contractor. The escrowed bid documentation will then be released from escrow to the Contractor.

The bid documentation submitted by the bidder is, and shall remain, the property of the bidder, and is subject to only joint review by the Department and the bidder or upon written request of a subcontractor, manufacturer or supplier shall be reviewed only by the subcontractor, supplier or manufacturer and the Department unless it involves a dispute or claim. The Department stipulates and expressly acknowledges that the submitted bid documentation constitutes trade secrets and will not be deemed public records. This acknowledgment is based on the Department's express understanding that the information contained in the bid documentation is not known outside the bidder's business, is known only to a limited extent and only by a limited number of employees of the bidder, is safeguarded while in the bidder's possession, is extremely valuable to the bidder and could be extremely valuable to the bidder's competitors by virtue of it reflecting the bidder's contemplated techniques of construction. The Department acknowledges that the bid documentation includes a compilation of information used in the bidder's business, intended to give the bidder an opportunity to obtain an advantage over competitors who do not know of or use the contents of the documentation. The Department agrees to safeguard the bid documentation, and all information contained therein, against disclosure, including disclosure of subcontractor bid documentation to the Contractor and other subcontractors to the fullest extent permitted by law. However, in the event of arbitration or litigation, the bid documentation shall be subject to discovery, and the Department assumes no responsibility for safeguarding the bid documentation unless the Contractor has obtained an appropriate protective order issued by the arbitrator or the court.

Full compensation for preparing the bid documentation, presenting it for escrow and reviewing it for escrow and upon request of the Engineer shall be considered as included in the contract prices paid for the various items of work, and no additional compensation will be allowed therefor.

The direct cost of depositing the bid documentation in escrow at the agreed commercial business will be paid by the State.

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	049154	ARCHITECTURAL TREATMENT (COBBLE TEXTURE)	M2	2207		
2	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
3	070018	TIME-RELATED OVERHEAD	WDAY	600		
4	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
5	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
6	074023	TEMPORARY EROSION CONTROL	M2	85 600		
7	030117	TEMPORARY GRAVEL BAG	EA	2740		
8	030118	TEMPORARY CONCRETE WASHOUT	EA	11		
9	030119	TEMPORARY CONSTRUCTION ENTRANCE (PLATES)	EA	24		
10 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
11 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
12 (S)	120149	TEMPORARY PAVEMENT MARKING (PAINT)	M2	20		
13 (S)	120151	TEMPORARY TRAFFIC STRIPE (TAPE)	M	50 600		
14 (S)	120152	TEMPORARY PAVEMENT MARKING (TAPE)	M2	72		
15 (S)	030120	TRAFFIC PLASTIC DRUM	EA	780		
16 (S)	120300	TEMPORARY PAVEMENT MARKER	EA	17 200		
17 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2		
18 (S)	129000	TEMPORARY RAILING (TYPE K)	M	18 400		
19 (S)	129100	TEMPORARY CRASH CUSHION MODULE	EA	430		
20 (S)	030121	TEMPORARY CRASH CUSHION (TYPE ADIEM)	EA	3		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	150608	REMOVE CHAIN LINK FENCE	M	850		
22	150662	REMOVE METAL BEAM GUARD RAILING	M	260		
23	030122	REMOVE TRAFFIC STRIPE (YELLOW)	M2	320		
24	150717	REMOVE TRAFFIC STRIPE AND PAVEMENT MARKING	M2	5820		
25	150730	REMOVE CHANNELIZERS	EA	13		
26	150742	REMOVE ROADSIDE SIGN	EA	44		
27 (S)	150760	REMOVE SIGN STRUCTURE	EA	8		
28	150763	REMOVE SIGN PANEL	EA	14		
29	150805	REMOVE CULVERT	M	92		
30	030123	REMOVE 300 MM ASBESTO CEMENT PIPE WATERLINE	M	110		
31	150820	REMOVE INLET	EA	4		
32	150857	REMOVE ASPHALT CONCRETE SURFACING	M2	1720		
33 (S)	151572	RECONSTRUCT METAL BEAM GUARD RAILING	M	590		
34 (S)	151581	RECONSTRUCT SIGN STRUCTURE	EA	2		
35	152320	RESET ROADSIDE SIGN	EA	26		
36	152390	RELOCATE ROADSIDE SIGN	EA	18		
37 (S)	152394	RELOCATE SIGN STRUCTURE	EA	3		
38 (S)	152641	MODIFY SIGN STRUCTURE	EA	1		
39 (S)	153154	COLD PLANE ASPHALT CONCRETE PAVEMENT (60 MM MAXIMUM)	M2	25 600		
40	153221	REMOVE CONCRETE BARRIER	M	140		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	153246	REMOVE CONCRETE (MISCELLANEOUS)	M3	68		
42	155002	PLUG PIPE	EA	1		
43	155003	CAP INLET	EA	4		
44	155006	CAP RISER	EA	2		
45	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
46	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
47	160120	REMOVE TREE	EA	180		
48	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
49	190101	ROADWAY EXCAVATION	M3	57 800		
50	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
51 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	260		
52 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	M3	12 965		
53 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	140		
54 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	M3	10 824		
55 (F)	193031	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	M3	862		
56 (S)	200001	HIGHWAY PLANTING	LS	LUMP SUM	LUMP SUM	
57	200101	IMPORTED TOPSOIL	M3	600		
58 (S)	203014	FIBER (EROSION CONTROL)	KG	16 300		
59	203021	FIBER ROLLS	M	11 900		
60 (S)	203024	COMPOST (EROSION CONTROL)	KG	17 400		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (S)	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	10		
62 (S)	030124	PURE LIVE SEED (SEED TYPE 1)	KG	410		
63 (s)	030125	PURE LIVE SEED (SEED TYPE 2)	KG	20		
64 (S)	203056	COMMERCIAL FERTILIZER (EROSION CONTROL)	KG	280		
65 (S)	203061	STABILIZING EMULSION (EROSION CONTROL)	KG	2200		
66 (S)	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
67	030126	200 MM CONDUIT (DIRECTIONAL BORE)	M	70		
68	030127	200 MM CHDPE CONDUIT (OPEN TRENCH)	M	260		
69	208910	EXTEND 250 MM CONDUIT	M	60		
70	030128	EXTEND 500 MM CONDUIT	M	6		
71	209801	MAINTENANCE VEHICLE PULLOUT	EA	7		
72	250401	CLASS 4 AGGREGATE SUBBASE	M3	11 910		
73	260201	CLASS 2 AGGREGATE BASE	M3	11 550		
74	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TONN	13		
75	390155	ASPHALT CONCRETE (TYPE A)	TONN	16 850		
76	390171	ASPHALT CONCRETE BASE (TYPE A)	TONN	13 005		
77	394040	PLACE ASPHALT CONCRETE DIKE (TYPE A)	M	970		
78	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	M	370		
79	394046	PLACE ASPHALT CONCRETE DIKE (TYPE D)	M	3040		
80	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	M	3000		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	394049	PLACE ASPHALT CONCRETE DIKE (TYPE F)	M	260		
82	401000	CONCRETE PAVEMENT	M3	8680		
83	404092	SEAL PAVEMENT JOINT	M	8810		
84	404094	SEAL LONGITUDINAL ISOLATION JOINT	M	8970		
85 (S-F)	490657	600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	121		
86 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
87 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	90		
88 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	380		
89 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	1960		
90 (F)	510133	CLASS 2 CONCRETE (RETAINING WALL)	M3	2250		
91 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	90		
92 (S)	511047	ANTI-GRAFFITI COATING	M2	2340		
93 (F)	511064	FRACTURED RIB TEXTURE	M2	1088		
94	030129	RAPID STRENGTH CONCRETE	M3	500		
95 (S-F)	517950	SOUND WALL (BARRIER)	M2	1134		
96 (S-F)	518002	SOUND WALL (MASONRY BLOCK)	M2	1991		
97 (S)	519142	JOINT SEAL (MR 40 MM)	M	19		
98 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	72 700		
99 (S-F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	KG	293 144		
100 (S-F)	520120	HEADED BAR REINFORCEMENT	EA	570		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101 (F)	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	820		
102 (S-F)	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	820		
103 (F)	560208	FURNISH SIGN STRUCTURE (TUBULAR)	KG	29 197		
104 (S-F)	560209	INSTALL SIGN STRUCTURE (TUBULAR)	KG	27 800		
105 (F)	560213	FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	KG	5530		
106 (S-F)	560214	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	KG	5530		
107 (S)	561009	920 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	19		
108 (S)	561010	1070 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	72		
109	566011	ROADSIDE SIGN - ONE POST	EA	12		
110	566012	ROADSIDE SIGN - TWO POST	EA	9		
111	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	16		
112 (S)	030130	INSTALL SIGN PANEL ON EXISTING STRUCTURE	M2	210		
113	568017	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	EA	5		
114	568023	INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)	EA	1		
115	597601	PREPARE AND STAIN CONCRETE	M2	2340		
116	650069	450 MM REINFORCED CONCRETE PIPE	M	150		
117	650075	600 MM REINFORCED CONCRETE PIPE	M	220		
118	030131	1100 MM REINFORCED CONCRETE PIPE	M	1.1		
119	664090	450 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (2.01 MM THICK)	M	2		
120	664096	600 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (2.01 MM THICK)	M	140		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	681134	80 MM PLASTIC PIPE (EDGE DRAIN)	M	960		
122	681137	80 MM PLASTIC PIPE (EDGE DRAIN OUTLET)	M	60		
123	690276	450 MM BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (2.01 MM THICK)	M	12		
124	703233	GRATED LINE DRAIN	M	230		
125	703361	450 MM BITUMINOUS COATED CORRUGATED STEEL PIPE RISER (2.01 MM THICK)	M	6		
126	030134	300 MM DUCTILE IRON PIPE	M	110		
127	707479	900 MM REINFORCED CONCRETE PIPE RISER	M	1.2		
128	721431	CONCRETE (CONCRETE APRON)	M3	1.6		
129 (S-F)	049155	SLOPE PAVING (BLOCK VENEER)	M2	1260		
130	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	M3	35		
131 (F)	731517	MINOR CONCRETE (GUTTER)	M	711		
132 (S)	731530	MINOR CONCRETE (TEXTURED PAVING)	M2	2500		
133 (S-F)	750001	MISCELLANEOUS IRON AND STEEL	KG	6520		
134 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	2190		
135 (S)	800381	CHAIN LINK FENCE (TYPE CL-0.9)	M	130		
136 (S)	030132	TEMPORARY CHAIN LINK FENCE	M	570		
137 (S)	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	360		
138 (S)	801900	CHAIN LINK GATE	EA	4		
139	820107	DELINEATOR (CLASS 1)	EA	190		
140	820110	MILEPOST MARKER	EA	14		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	820118	GUARD RAILING DELINEATOR	EA	70		
142 (S)	839481	CONCRETE BARRIER (TYPE 50)	M	17		
143 (S)	839491	CONCRETE BARRIER (TYPE 50E)	M	120		
144 (S-F)	839521	CABLE RAILING	M	711		
145 (S)	839528	BURIED POST ANCHOR	EA	5		
146 (S)	839530	CABLE ANCHOR ASSEMBLY	EA	2		
147 (S)	839559	TERMINAL SYSTEM (TYPE ET)	EA	2		
148 (S)	030133	RELOCATE TERMINAL SYSTEM (TYPE SRT)	EA	11		
149 (S)	839568	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	EA	8		
150 (S-F)	839704	CONCRETE BARRIER (TYPE 60D)	M	830		
151 (S)	839710	CONCRETE BARRIER (TYPE 60S)	M	560		
152 (F)	839720	CONCRETE BARRIER (TYPE 732)	M	249		
153 (S)	839723	CONCRETE BARRIER (TYPE 732B)	M	160		
154 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	M2	200		
155 (S)	840563	200 MM THERMOPLASTIC TRAFFIC STRIPE	M	4150		
156 (S)	840564	200 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 3.66 M - 0.92 M)	M	4840		
157 (S)	840571	100 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 5.18 M - 2.14 M)	M	1860		
158 (S)	840656	PAINT TRAFFIC STRIPE (2-COAT)	M	46 200		
159 (S)	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	20 100		
160 (S)	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	8090		

**ENGINEER'S ESTIMATE  
11-232604**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161 (S)	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
162 (S)	860252	SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
163 (S)	860253	SIGNAL AND LIGHTING (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
164 (S)	860254	SIGNAL AND LIGHTING (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
165 (S)	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
166 (S)	860931	TRAFFIC MONITORING STATION (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
167 (S)	860932	TRAFFIC MONITORING STATION (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
168 (S)	860933	TRAFFIC MONITORING STATION (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
169 (S)	860934	TRAFFIC MONITORING STATION (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
170 (S)	860990	CLOSED CIRCUIT TELEVISION SYSTEM	LS	LUMP SUM	LUMP SUM	
171 (S)	861101	RAMP METERING SYSTEM (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
172 (S)	861102	RAMP METERING SYSTEM (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
173 (S)	861103	RAMP METERING SYSTEM (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
174 (S)	861104	RAMP METERING SYSTEM (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
175 (S)	861105	RAMP METERING SYSTEM (LOCATION 5)	LS	LUMP SUM	LUMP SUM	
176 (S)	861106	RAMP METERING SYSTEM (LOCATION 6)	LS	LUMP SUM	LUMP SUM	
177 (S)	861107	RAMP METERING SYSTEM (LOCATION 7)	LS	LUMP SUM	LUMP SUM	
178 (S)	861108	RAMP METERING SYSTEM (LOCATION 8)	LS	LUMP SUM	LUMP SUM	
179 (S)	861109	RAMP METERING SYSTEM (LOCATION 9)	LS	LUMP SUM	LUMP SUM	
180	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID: \_\_\_\_\_**