

Daily working hours shall be between the hours of 7:00 AM and 9:00 PM, Monday through Saturday.

Item 7: Clarification of Signal and Lighting.

Refer to payment clause on page 181 for Section "Signal and Lighting", following additional information is added and made part hereof:

Full compensation for furnishing and installing video imaging detection system, with one video detection camera per approach, complete in place at the intersections of Newport and Goetz Road, and Canyon Lake Drive and Goetz Road. The video imaging detection system shall replace all Type-E detector loops, with the exception of advance detector loops shown on the plans and as specified in the Special Provision, shall be considered as included in the Lump Sum price paid for Traffic Signal and Lighting and no additional payment will be made therefor.

The contract unit bid price paid per each for advance Detector Loops including cable and conduit as shown on the plans and as specified in the special provisions and as directed by the Engineer shall include full compensation for furnishing all labor, materials, tools, and equipment and no additional compensation will be allowed therefor.

Item 8: Retaining (Scour) Wall.

Following Special Provisions for Retaining Wall (Scour Wall) is added and made part hereof:

Retaining (Scour) Wall

EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

If structure backfill for retaining walls has not otherwise been provided for in the Standard Specifications or these special provisions, the structure backfill will be measured and paid for as structure backfill (retaining wall).

Structure excavation designated as Type D, for footings at the locations shown on the plans, will be measured and paid for as structure excavation, Retaining Wall (Type D).

Ground water or surface water is expected to be encountered at these locations, but seal course concrete is not shown or specified.

Full compensation for Leveling Concrete is considered as included in the contract unit price paid for Structure Excavation Retaining Wall (Type D), and no additional compensation is allowed therefor.

Leveling Concrete shall conform to the provisions in Section 51-1.10, "Concrete Deposited Under Water.

Structure excavation designated as Retaining Wall (Type D), for footings at the locations shown on the plans, will be measured and paid for by the cubic yard as structure excavation, Retaining Wall (Type D). Ground water or surface water is expected to be encountered at Abutments and Cutoff wall locations, and seal course concrete is shown or specified. Structure excavation for footings at locations not designated on the plans as structure excavation (Type D), and where ground or surface water is encountered, except locations where seal course concrete is shown or specified, will be measured and paid for by the cubic meter {cubic yard} as structure excavation (bridge).

The Contractor's attention is directed to the probability of encountering groundwater during the excavation work. Any groundwater which may be encountered shall be controlled and removed by methods of the Contractor's choice.

The Contractor shall anticipate encountering large rocks and potentially significant ground water while excavating for bridge foundations and no increase in compensation will be allowed for conditions not anticipated by the Contractor. The contractor shall be responsible for returning the salt creek bed to its original condition, as close as possible and grades after all Retaining Wall construction is completed.

Regardless of the dewatering method chosen by the Contractor, the subgrade shall be maintained to the lines and grades shown on the plans.

If pumps are used, they shall be electric or muffled and situated so as to prevent disturbance to residents.

Full compensation for structural excavation and all dewatering required to complete the work shall be considered as included in the contract price paid per cubic yard for the associated excavation item, and no additional compensation will be allowed therefor.

Pervious backfill material within the limits of payment for retaining walls will be measured and paid for by cubic yard as structure backfill for retaining (scour) wall.

CONCRETE

Portland Cement Concrete:

Portland cement concrete shall conform to the provisions in Section 90, "Portland Cement Concrete," of the Standard Specifications and these special provisions. Cement shall be "Type II Modified" Portland cement or Type V Portland cement.

CONCRETE STRUCTURES

Portland cement concrete structures shall conform to the provisions in Section 51, "Concrete Structures," of the Standard Specifications and these special provisions. The following Concrete Type is required for Retaining Walls which includes Retaining Wall footings also.

Structural Concrete (Retaining Wall)

Portland cement concrete at Abutments, and Retaining Walls is considered to be in a

corrosive environment and shall conform to the provisions in Section 90, "Portland Cement Concrete," of the Standard Specifications and these special provisions.

Cementitious material to be used in portland cement concrete shall conform to the provisions in Section 90-2, "Materials," of the Standard Specifications, and shall be a combination of either Type II or Type V portland cement and supplementary cementitious material.

Concrete in a corrosive environment shall contain not less than 675 pounds of cementitious material per cubic yard.

Reduction in the cementitious material content specified or ordered in conformance with the provisions in Section 90-4.05, "Optional Use of Chemical Admixtures," of the Standard Specifications, is not permitted for concrete in a corrosive environment.

For concrete in a corrosive environment, the cementitious material shall be comprised of 25 percent by weight of either fly ash or natural pozzolan with a CaO content of up to 10 percent, and 75 percent by weight of portland cement

The ratio of the amount of free water to the amount of cementitious material used in concrete in a corrosive environment shall not exceed 0.45.

Full compensation for conforming to the above requirements shall be considered as included in the contract prices paid for the various contract items of work, and no additional compensation will be allowed therefor.

MEASUREMENT AND PAYMENT

Except as otherwise provided, pay quantities of concrete in structures will be measured by the cubic yard in conformance with the dimensions shown on the plans or such other dimensions as may be ordered in writing by the Engineer. No deduction will be made for the volume occupied by bar reinforcing steel.

The contract prices paid per cubic yard for the various types and classes of concrete in structures shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in constructing the concrete work, complete in place, as shown on the plans, and as specified in these specifications and the special provisions, and as directed by the Engineer, except as otherwise provided.

REINFORCEMENT

Reinforcement shall conform to the provisions in Section 52, "Reinforcement," of the Standard Specifications and these special provisions.

The provisions in "Welding Quality Control" of these special provisions do not apply to resistance butt welding.

MEASUREMENT AND PAYMENT

Quantities of bar reinforcing steel as shown on the plans or directed by the Engineer will be determined from computations based upon the calculated weight of the

reinforcing steel placed in accordance with these specifications.

Unless otherwise provided, bar reinforcing steel placed as shown on the plans or directed by the Engineer, will be paid for at the contract price per pound for bar reinforcing steel.

The contract price paid per pound for the types and classes of bar reinforcing steel shown on the plans shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and placing the bar reinforcing steel complete in place, as shown on the plans, and as specified in these specifications and the special provisions, and as directed by the Engineer.

Item 9: Clarification of EVMWD utility work bid items.

Contractor's attention is directed to the following:

"Full compensation for removal and disposal of existing ACP lines shall be considered as included in the various EVMWD contract items of work, and no additional compensation will be allowed therefor."

Item 10: Project Information; Questions and Responses. Questions and Responses information list is available as a free download at the following County website:

http://www.tlma.co.riverside.ca.us/trans/con_bid_advertisements.html

This (downloadable) file is provided for reference only. For any discrepancy written on the Questions and Responses, the Contractor shall conform to the contract documents.

The Contractor Questions and Responses are included as **Attachment "B"**.

MODIFICATIONS / CLARIFICATIONS TO PLANS:

Item 11: Clarification of existing utility box for Sunesys

Refer to Existing Utility Exhibit sheet 2 of 2 issued with addendum 1 item 30, attachment "E"

Contractor shall cut and disposed of fiber optic cable and pull box owned by Sunesys and located at Northeast corner of Goetz Road and Normandy Road. Utility owner has authorized removal and disposal of their utility.

Full compensation for cutting removing and disposing of Synesys fiber optic cable and pull box including backfill, shall be considered as included in the cubic yard unit price paid for Roadway Excavation and no additional payment will be made therefor.

Item 12: Standard drawings. The following drawing standards are included as Attachment "D", pages 1-4, which are made a part hereof:

- Retaining (Scour) Wall – Caltrans Standard Plan B0-3.
- Retaining (Scour) Wall – Caltrans Standard Plan B3-1
- Retaining (Scour) Wall – Caltrans Standard Plan B3-8

See Attachment "C"

Item 13: **Retaining (Scour) Wall Plans.**

Retaining (Scour) Wall Plans are provided and made part hereof.
For grading and scour rip rap see sheet 13A issued with this addendum 2, item 9 below.

See Attachment "D"

Item 14: **Clarification of Bridge Plan sheet 62, 63 and 71 of 96.**

Refer to plan sheet 62, 63 and 71 of 96. These sheets are deleted and replaced with revised sheet 62, 63 and 71 of 96.

See Attachment "E"

Item 15: **Clarification Earthwork Plan sheet 83, 84 & 89 of 96.**

Refer to Earthwork plan sheet 83, 84 and 89 of 96. These sheets are deleted and replaced with following revised sheets:

Sheet 7 of 13 of Earthwork Plan (83 of 96) replaced with Sheet 7A
Sheet 8 of 13 of Earthwork Plan (84 of 96) replaced with Sheet 8A
Sheet 13 of 13 of Earthwork Plan (89 of 96) replaced with Sheet 13A
(sheet 13A includes Retaining (Scour) wall related date)

See Attachment "F"

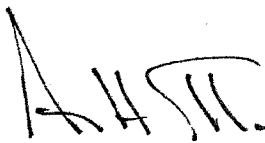
Item 16: **Clarification Eastern Municipal Water District (EMWD) Sewer and Water Plan.**

Following additional detail for "HDPE Sleeve" and "sheet 21A" is added and made part hereof;

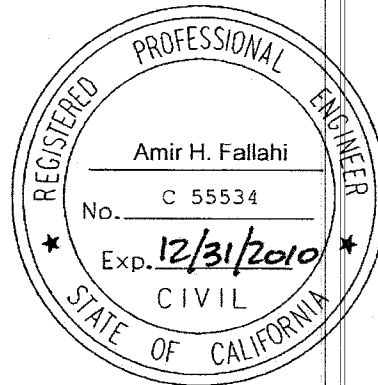
See Attachment "G"

Engineering Certification:

This addendum for Goetz Road and Newport Road project has been prepared under the direction of the following registered Civil Engineer:
(Items other than bridge structure)



Amir H. Fallahi,
No. 55534



Engineering Certification:

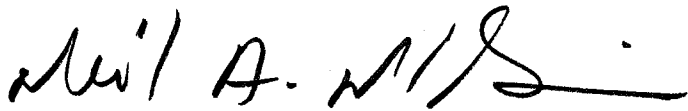
This addendum for Goetz Road and Newport Road project has been prepared under the direction of the following registered Civil Engineer:
(for Bridge structural items only)

Mohan Char

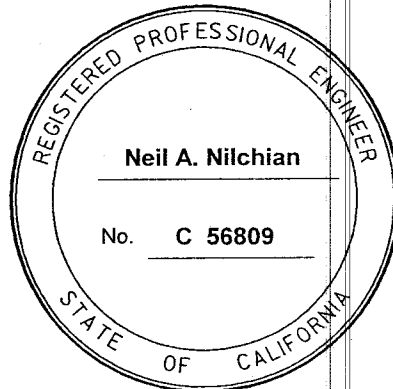
Mohan Char
C 057894



This addendum has been prepared under the direction of the following registered Civil Engineer:



Neil A. Nilchian, PE
Project Manager



Concurrence:



Khalid Nasim, PE
Engineering Division Manager

Acknowledged: _____ Date: _____
(Contractor)

**Goetz Road and Newport Road
Completion of Improvements**

ISSUED BY ADDENDUM No. 2
ATTACHMENT "A", Page 1 of 4

Project No. B8-0643

PROPOSAL (Revised 8/26/10)

BASE BID

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
1	999990	MOBILIZATION	LS	1		
2	066102	DUST ABATEMENT	LS	1		
3	074020	WATER POLLUTION CONTROL	LS	1		
4	120100	TRAFFIC CONTROL SYSTEM	LS	1		
5	066105	RESIDENT ENGINEERS OFFICE	LS	1		
6	170101	DEVELOP WATER SUPPLY	LS	1		
7	160101	CLEARING AND GRUBBING	LS	1		
8	-----	REVISED, SEE ALTERNATE BID SCHEDULE 2	-----	-----	-----	-----
9	190101	EARTHWORK / ROADWAY EXCAVATION /OVER EXCAVATION	CY	36,000		
10	000003	DEMOLISHING EXISTING BLOCK WALL	LS	1		
11	198001	IMPORT BORROW [EARTHWORK FILL, IN PLACE]	CY	26,400		
12	000003	MISCELLANEOUS DIRECTED WORK	FA	1	25,000.00	25,000.00
13	510501	MINOR CONCRETE [PAVEMET (8" THICK) OVER CEMENT TREATED BASE (12" THICK), CRS 814 FOR BUS TURN OUT]	SQFT	1,700		
14	510501	MINOR CONCRETE (CURB AND GUTTER) (CRS 200)	LF	5,560		
15	510501	MINOR CONCRETE (TYPE "D" CURB) (CRS 204) [6"]	LF	3,980		
16	510501	MINOR CONCRETE (TYPE "D" CURB) (CRS 204) [8"]	LF	2,950		
17	510501	MINOR CONCRETE (CROSS-GUTTER) (CRS 209)	SQFT	2,740		
18	510501	MINOR CONCRETE SIDEWALK (CRS401)	SQFT	20,700		
19	510501	MINOR CONCRETE (CURB RAMP) (CRS 403 - CASE A)	EA	5		
20	510501	MINOR CONCRETE (COMMERCIAL DRIVE APPROACH (CRS 207A W=30' R=15')	SQFT	780		
21	510501	MINOR CONCRETE V-DITCH INCLUDING DISSIPATER	LF	640		
22	013903	PLACE ASPHALT CONCRETE DIKE (CRS 212) (6")	LF	1,400		
23	260201	CLASS 2 AGGREGATE BASE	CY	12,200		
24	390130	HOT MIX ASPHALT	TON	10,100		
25	018031	GUARD RAILING (BARRICADE) (CRS 810)	LF	54		
26	000003	METAL HAND RAILING PER A.P.W.A. 606-1 TYPE B	LF	125		
27	832001	METAL BEAM GUARD RAILING	LF	63		
28	839565	TERMINAL SYSTEM(TYPE SRT)	EA	1		
29	017003	CATCH BASIN (RIV. CO. STD. 311)	EA	12		
30	000003	FLO-GARD PLUS FILTER	EA	13		
31	650014	18" REINFORCED CONCRETE PIPE	LF	235		
32	650017	24" REINFORCED CONCRETE PIPE	LF	130		
33	800300	CHAIN LINK FENCE [RCFC&WCD STD. DWG. NO. M-801]	LF	25		
34	000003	JUNCTION STRUCTURE PER RCFC STD.NO. JS227 (BREAK INTO EXISTING 18" RCP)	EA	1		
35	000003	MEDIAN DRAIN INLET (CALTRANS STD. DWG. D73, TYPE G1)	EA	1		
36	665016	18" CORRUGATED METAL PIPE	LF	225		
37	703220	18" CORRUGATED METAL PIPE RISER	EA	2		
38	705001	END SECTION PER CAL TRANS D94A	EA	2		
39	721025	ROCK SLOPE PROTECTION (2-TON, METHOD B)	CY	40		

PROPOSAL (Revised 8/26/10)

ISSUED BY ADDENDUM No. 2
ATTACHMENT "A", Page 2 of 4

BASE BID

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
40	721007	ROCK SLOPE PROTECTION (1/2-TON, METHOD B)	CY	3,100		
41	721007	ROCK SLOPE PROTECTION (1/2-TON METHOD A)	CY	340		
42	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	2,815		
43	840656	PAINT TRAFFIC STRIPE (2 COAT)	LF	22,410		
44	850102	PAVEMENT MARKER (REFLECTIVE)	EA	1,100		
45	566011	ROADSIDE SIGN - ONE POST	EA	28		
46	820107	DELINEATOR (CLASS 1) [TYPE Q]	EA	13		
47	860811	DETECTOR LOOP	EA	15		
48	860201	TRAFFIC SIGNAL AND LIGHTING [NEWPORT ROAD & GOETZ ROAD INTERSECTION]	LS	1		
49	861502	TRAFFIC SIGNAL MODIFICATION[GOETZ ROAD & CANYON LAKE DRIVE]	LS	1		
50	203031	ERROSION CONTROL (HYDRO SEED) [LANDSCAPE SLOPE AREAS]	SQFT	28,210		
51	150740	REMOVE AND SALVAGE SIGN [EXISTING]	EA	17		
52	861349	REMOVE EXISTING TRAFFIC SIGNAL [GOETZ ROAD & NORMANDY ROAD]	LS	1		
53	071325	TEMPORARY FENCE (TYPE ESA)	LF	1,200		
54	000003	PRESSURE GROUTING (NORTH ABUTMENT)	LS	1		
55	192003(F)	STRUCTURE EXCAVATION (BRIDGE) TYPE (D)	CY	1,964		
56	193003(F)	STRUCTURE BACKFILL (BRIDGE)	CY	1,612		
57	512253(F)	FURNISH PRECAST/PRESTRESSED CONCRETE "BULB TEE" GIRDER	EA	12		
58	512500(F)	ERECT PRECAST/PRESTRESSED CONCRETE "BULB TEE" GIRDER	EA	12		
59	510051(F)	STRUCTURAL CONCRETE (BRIDGE FOOTING)	CY	452		
60	510053(F)	STRUCTURAL CONCRETE (BRIDGE)	CY	717		
61	510086(F)	STRUCTURAL CONCRETE, APPROACH SLAB TYPE N(S)	CY	180		
62	519088(F)	JOINT SEAL TYPE B (MR=1")	LF	202		
63	520102 (P-F-S)	BAR REINFORCING STEEL (BRIDGE)	LB	263,800		
64	839541	TRANSITION RAILING (TYPE WB)	EA	1		
65	000003	SEISMIC EXPANSION JOINTS	EA	4		
66	833140(F)	CONCRETE BARRIER TYPE 26	LF	360		
67	833088(F)	TUBULAR HANDRAILING	LF	360		
68	750501(P-F)	MISCELLANEOUS METAL (BRIDGE)	LB	2,240		
69	511035	ARCHITECTURAL FINISH (STONE VENEER)	SQFT	995		
70	721810(F)	SLOPE PAVING (CONCRETE) [SLOPE PROTECTION]	SQFT	10,000		
71	703450(P-F)	WELDED STEEL PIPE CASING (BRIDGE) (34" DIA)	LF	65		
72	703450(P-F)	WELDED STEEL PIPE CASING (BRIDGE) (12" DIA)	LF	186		
73	703450(P-F)	WELDED STEEL PIPE CASING (BRIDGE) (22" DIA)	LF	186		
74	518002	SOUND WALL (MASONRY BLOCK WALL)	SQFT	15,412		
75	000003	FURNISH & INSTALL 24"CML&P WATER INCLUDING FULL WELD DOUBLE PASS JOINTS [EMWD]	LF	126		
76	000003	FURNISH & INSTALL 24"CML&C WATER INCLUDING FULL WELD DOUBLE PASS [EMWD]	LF	45		
77	000003	FURNISH & INSTALL 24"PVC, CL-235 WATERLINE INCLUDING RESTRAIN JOINTS [EMWD]	LF	99		
78	000003	FURNISH & INSTALL 2" AV&AR PER B-367 AND PER DETAIL D-34066 [EMWD]	EA	1		

PROPOSAL (Revised 8/26/10)

ISSUED BY ADDENDUM No. 2
ATTACHMENT "A", Page 3 of 4

BASE BID

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
79	000003	FURNISH & INSTALL FLEX TEND [EMWD]	EA	2		
80	000003	FURNISH & INSTALL 6" BLOWOFF PER B-568 [EMWD]	EA	1		
81	000003	REMOVE CAP AND JOIN EXISTING 24" WATERLINE	EA	1		
82	000003	PROVIDE CONCRETE CAP PER B-408 [EMWD]	CY	120		
83	000003	PROVIDE AND INSTALL CORROSION PROTECTION PER DETAIL 2 [EMWD]	LS	2		
84	000003	FURNISH & INSTALL 6" PVC, C-900, DR-18 RECYCLED WATER PIPELINES WITHOUT RESTRAINT [EMWD]	LF	351		
85	000003	FURNISH & INSTALL 6" PVC, C-900, DR-18 RECYCLED WATER PIPELINES INCLUDING RESTRAINTS [EMWD]	LF	141		
86	000003	FURNISH & INSTALL 12" PVC, C-900, DR-18 RECYCLED WATER PIPELINES INCLUDING RESTRAINTS [EMWD]	LF	200		
87	000003	FURNISH & INSTALL 12" PVC, C-900, DR-18 RECYCLED WATER PIPELINES WITHOUT RESTRAINT [EMWD]	LF	325		
88	000003	REMOVE 6" END CAP AND JOIN EXISTING 6" RECYCLED WATER PIPELINE [EMWD]	EA	1		
89	000003	REMOVE 12" END CAP AND JOIN EXISTING 12" RECYCLED WATER PIPELINE [EMWD]	EA	2		
90	000003	FURNISH AND INSTALL 12" FXH RSGV PER B-255 [EMWD]	EA	1		
91	000003	FURNISH AND INSTALL 12-INCH DIAMETER DUCTILE IRON PIPE, CLASS 350, CEMENT MORTAR LINED AND POLYETHYLENE WRAP COMPLETE IN PLACE [EVMWD]	LF	829		
92	000003	FURNISH AND INSTALL 8-INCH DIAMETER DUCTILE IRON PIPE, CLASS 350, CEMENT MORTAR LINED AND POLYETHYLENE WRAP COMPLETE IN PLACE. [EVMWD]	LF	87		
93	000003	FURNISH AND INSTALL 20-INCH ID STEEL CASING PER EVMWD STANDARD DRAWING NO W-6	LF	32		
94	000003	FURNISH AND INSTALL 6-INCH BLOW OFF ASSEMBLY PER EVMWD STD. DWG. NO. W-19, COMPLETE IN PLACE	EA	1		
95	000003	FURNISH AND INSTALL 8-INCH BLOW OFF ASSEMBLY PER EVMWD STD. DWG. NO. W-19, COMPLETE IN PLACE	EA	1		
96	000003	FURNISH AND INSTALL 8-INCH RESILIENT WEDGE GATE VALVE PER EVMWD SPECIFICATIONS AND STD. DWG. NO. W-13, COMPLETE IN PLACE	EA	2		
97	000003	FURNISH AND INSTALL 12-INCH RESILIENT WEDGE GATE VALVE PER EVMWD SPECIFICATIONS AND STD. DWG. NO. W-13, COMPLETE IN PLACE	EA	2		
98	-----	DELETED BY ADDENDUM	-----	-----	-----	-----
99	000003	CONNECTIONS TO EXISTING PIPELINES, COMPLETE IN PLACE	LS	1		
100	000003	CONNECTION OF NEW PIPELINES TO EXISTING WATER METER, COMPLETE IN PLACE	LS	1		
101	-----	DELETED BY ADDENDUM	-----	-----	-----	-----
102	000003	PREPARE, MAINTAIN AND SUPPLY AS-BUILT DRAWINGS AND NOTES AT COMPLETION OF WATER MAIN INSTALLATION PROJECT IN ACCORDANCE WITH EVMWD SECTION 01770, COMPLETE IN PLACE	LS	1		
103	000003	PCC OVERFLOW DEVICE [PER SHEET 1&6 OF EARTHWORK PLANS]	SQFT	630		
104	498016	16" CAST-IN-DRILLED-HOLE CONCRETE PILING (FOR SOUND WALL)	LF	2,616		
105	510524	MINOR CONCRETE (FOR SOUND WALL)	CY	147		
106	511035	ARCHITECTURAL TREATMENT (FOR SOUND WALL)	SQFT	29,307		
107	000003	STONE VENEER (FOR SOUND WALL)	SQFT	1,517		
108	000003	ADJUST MAINTENANCE MANHOLE TO GRADE [INCLUDING FRAME, 7 STORM DRAIN AND 1 FIBER OPTIC]	EA	8		

PROPOSAL (Revised 8/26/10)

ISSUED BY ADDENDUM No. 2
ATTACHMENT "A", Page 4 of 4

BASE BID

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
109	192020	STRUCTURE EXCAVATION (TYPE D)[RETAINING (SCOUR) WALL]	CY	894		
110	193013	STRUCTURE BACKFILL [RETAINING (SCOUR) WALL]	CY	491		
111	510060	STRUCTURAL CONCRETE [RETAINING (SCOUR) WALL]	CY	225		
112	520103	BAR REINFORCING STEEL [RETAINING (SCOUR) WALL]	LB	21,837		

SUB-TOTAL: _____ \$

ITEMS 1-112 "WORDS"

Alternate Bid Schedule 1 (EMWD, Extension of 24" line)

113	000003	FURNISH & INSTALL 24"PVC, CL-235 WATERLINE WITHOUT RESTRAINT	LF	1,349		
114	000003	FURNISH & INSTALL 24"PVC, CL-235 WATERLINE INCLUDING RESTRAINTS	LF	1,051		
115	000003	FURNISH & INSTALL 6" FIRE HYDRANT PER B-362	EA	5		
116	000003	FURNISH & INSTALL 42" HDPE CASING	LF	35		
117	000003	REMOVE 24" END CAP	EA	1		
118	000003	JOIN EXISTING 24" WATERLINE	EA	2		
119	000003	FURNISH & INSTALL 12" PVC, C-900, CL-200 INCLUDING RESTRAINTS	LF	25		
120	000003	FURNISH & INSTALL 12" PVC, C-900, DR-18 INCLUDING RESTRAINTS	LF	101		
121	000003	FURNISH & INSTALL 1" AV&AR PER B-598	EA	1		
122	000003	FURNISH & INSTALL 6" BLOWOFF PER B-568	EA	1		
123	000003	FURNISH & INSTALL 12" RSGV PER B-255	EA	1		
124	000003	FURNISH & INSTALL 24" RSGV PER B-255	EA	2		
125	000003	REMOVE 18" BLIND FLANGE	EA	1		
126	000003	REMOVE 18" FXF BFV	EA	1		
127	000003	REMOVE EXISTING BLOWOFF AND INSTALL BLIND FLANGE	EA	2		

SUB-TOTAL: _____ \$

ITEM 113-127 "WORDS"

Alternate Bid Schedule 2 (COC INSURANCE)

128	000003	COURSE OF CONSTRUCTION INSURANCE	LS	1		
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SUB-TOTAL: _____ \$

ITEM 128 "WORDS"

PROJECT TOTAL: _____ \$

ITEMS 1-128 "WORDS"

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

**ATTACHMENT "B" CONTRACTOR QUESTIONS
AND RESPONSES**

The Questions and Responses information document is available on the County website at the following link during the advertisement period for this project:

http://www.tlma.co.riverside.ca.us/trans/con_bid_advertisements.html

This (downloadable) file is provided for reference only. For any discrepancy written on this Questions and Responses document, the Contractor shall conform to the contract documents.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES

1	Question	Are cad files (.dwg) available for this project? It would help in calculating the export/import of dirt on the job.
	Response	No, it is not County practice to provide Plans and Specs in digital format.
2	Question	Reference Bid Items 70, regarding Slope Paving (Concrete) on plan sheets 71 of 96 thru 73-96. Rev. 1 says the cut-off wall is not a type 1 wall and directs you to the Rip-Rap drawings (Sht 89 of 96). Sht 89 of 96 seems to indicate that the cut off wall has a footing of some kind. On Sht 89 of 96, construction note 9 directs you to ...construct concrete scour wall per attached plan... There is no plan attached. Please advise.
	Response	See Addendum 2 Item #8 and 13.
3	Question	Reference Bid Items 71 and 73 – Welded Steel Pipe Casing – 37 3/8” and 20 5/8” dia. are not standard available pipe sizes. Available pipe sizes from 14” and larger are manufactured in 2” increments. Please advise the pipe diameters and the wall thickness for these items.
	Response	See Addendum 1 Item # 2 and Addendum 2 Item # 14.
4	Question	Reference Bid Item 68, Misc. Metal (Bridge), and reference Dwg. Sht 63 of 96 - What is the spacing of the 4 conduit hanger systems? A note on dwg 63 of 96 says support details are on the “Utility Plans.” We do not have that drawing in our drawing set. Please advise.
	Response	See Addendum 2 Item # 14 The referenced “Utility Plans” are attached to the back of the spec book.
5	Question	Refer to Item #74 on proposal- Sound Wall (Masonry Block Wall). First, is there a BIG typo in regards to the total sound wall quantities? The sound walls on the profile sheets are less than 1500 LF long, yet the engineers estimate is showing 193,200 SQFT. of sound wall. The walls would have to be over 128' in height to get close to that quantity. Second, there's no information in the project manual or in the specs in regards to the CMU block types, textures, color or pattern. Please advise.
	Response	Please verify that the Sound wall bid quantity is correct. See Addendum 1, Item # 2 & 21
6	Question	Does the County consider extended work hours?
	Response	See Addendum 2, Item # 6.
7	Question	What standard plan or detail do we use for the Sound wall? Plan note #4 on Sheet 86 of 96 is blank?
	Response	See Addendum 1 Item # 25 & 26.
8	Question	The grading plans say the Verizon Fiber Optic line along Newport is going to be “relocated by others”, however there is a note on street improvement plans to “protect in place”. Please verify which is correct? If relocation, is it going to be moved prior to start of construction? Where is it going to be relocated?
	Response	See Addendum 1 Item # 4.
9	Question	Out of sheet 6 or 7, which plan supersedes the other? There is conflicting information on each for the same location. Also, sheets 8 and 9. For further clarity, please provide a separate plan for demolition of existing and a separate plan for new improvements on both Newport and Goetz.
	Response	Sheet 7 and 9 are for construction but not Sheet 6 and 8 they are for information only.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES			
10	Question	Are the BOW elevations correct on Sheet 89 for the Cut-Off Wall? Is there a footing like shown on Section C-C on Sheet 89 or there is no footing like shown on Sheet 71 and 72? If there is a footing, please provide detail.	
	Response	See Addendum 2 Item # 8 and 13.	
11	Question	Are the 54" and 30" EMWD lines going to be relocated prior to construction?	
	Response	See Addendum 1 Item # 4	
12	Question	Where is the current Ground Water elevation at the corner of Newport and Goetz versus the removal bottom elevation of 1377 shown on Sheet 79? Where can the groundwater be discharged to?	
	Response	See Addendum 1 Item # 27	
13	Question	On Sheet 34, Demolition Note 8 says to "Remove Existing 10" ACP Waterline." Yet, on the note pointing to the pipe, it says "Existing 10" Waterline - Abandon in Place." Which is correct?	
	Response	See Addendum 1 Item # 28	
14	Question	Can the 10" ACP waterline be shutdown and removed or abandoned prior to the installation of the new 12" DIP line. If not, the bridge will have to be complete prior to Newport Road work including performing remedial grading, importing embankment, constructing the sound wall, installing new utilities, constructing curb and gutter, and paving. The ACP line is not marked on the Sheet 79 remedial grading plan but seems to cut right through the remedial excavation. 90 Working Days are not enough time to complete all this work if the line cannot be removed ahead of time. The work could be staged to avoid the line until final tie-in, but this is very costly and risky and there still would not be enough time to complete the project in 90 days. The other option would be to run a 10" highline around the work area until final tie-in is complete. Will a temporary highline be allowed by EMWD? If allowed by EMWD and preferred by the County, can you provide specifications, design, and a bid item? Otherwise, please add about 90 more working days to allow enough time to complete all work.	
	Response	See Addendum 1 Item # 5 & 6	
15	Question	On Sheet 35, at Sta. 18+61.63 of the new 12" line, how does the new line connect to the existing line?	
	Response	See Addendum 1 Item # 29	
16	Question	Reference the Special Provisions – Page 135 – Telephone and Electrical Conduit System – Which Bid Item is this paid?	
	Response	See Addendum 1 Item # 13	
17	Question	How will the leveling slab under the abutments be paid? Please provide additional technical specification and details for this work? What type of material is to be used? Will this slab need to be reinforced?	
	Question	Where is the leveling slab being paid?	
	Response	See Addendum 1 Item # 8	
18	Question	In the Liquidated Damages section of the specifications it states, the project is to be completed in "90 working days including Saturdays." Is this the overall duration of the project? If so, this will not allow enough time to design, fabricate and deliver the precast girders in time to complete the project. What is the overall duration of the project?	

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES

	Response	See Addendum 1 Item #5.
19	Question	What is the purpose of the remedial grading shown on sheets 78 and 79 of the plans? Is this grading required?
	Response	The soils in this area were found to be unsuitable. These sheets show the approximate limits which will require remedial grading.
20	Question	There are no structural or architectural details for the new sound wall. Please provide additional drawings
	Response	See Addendum 1 Item # 21.
21	Question	There is no Specification section for "Sound Wall (Masonry Block Wall)". How will the excavation, backfill, concrete footing, and rebar for the new sound wall be paid?
	Response	See Addendum 1 Item # 21.
22	Question	Will the existing privacy walls between the homes be extended to meet the new sound wall that is built as part of this project? If so please provide details for these new privacy walls, and method of payment.
	Response	No, existing wall going to be demolished.
23	Question	No details or specifications are provided for the stone veneer that is to be installed on the new bridge. Please provide additional information on the type of stone panel veneer to be used.
	Response	See page 125 of Spec book.
24	Question	Is the contractor responsible for removing the existing k-rail and traffic control devices that are currently on the job site, or will they be removed by others? If this work is to be done by the contractor, who's property does it become, or where does it need to be delivered to?
	Response	Yes, See Addendum 1 Items # 7.
25	Question	Page A-6 states that working hours will be between 7:00 AM to 6:00 PM, Monday through Friday. Will we be able to work Saturdays and Sundays? If so will we have to pay for inspection?
	Response	See Addendum 1 Item # 5, Contractor does not pay inspection fee to County.
26	Question	In stages 1, 2 & 3, Existing Newport Road (i.e. Normandy Road) intersection is shown to remain open. In what stage shall the demo and replacement of Newport Road (i.e. Normandy Road) intersection take place?
	Response	Contractor shall include in the schedule and traffic control plans for Resident Engineer's review and approval per list of submittal page 6 of 31 of Addendum 1.
27	Question	What are the existing structural sections of Goetz Road?
	Response	Existing structural section is not available.
28	Question	Will the median planter be filled? If so, will it be level with the new road surface or with the top of the median curbs?
	Response	Yes, it will be filled up to minimum 4".
29	Question	On the west side of Goetz Road, between Canyon Lake Drive and Existing Newport Road (Normandy Road), there is nothing shown between the new sidewalk and the new curb and gutter. Will the area between the curb and sidewalk be backfilled? What will be done to this section?
	Response	That area between sidewalk and curb shall be filled with dirt.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES		
30	Question	In what stage will the Canyon Lake intersection be removed? Are we allowed to grind and overlay?
	Response	Contractor shall include it in the schedule and traffic control plans for Resident Engineer's review and approval per required submittals on page 6 of 31 Addendum 1.
31	Question	Please classify the soils (as expansive or non-expansive) under items #14 through 20 on proposal. If expansive soils are under these items (sidewalk, curb, curb and gutter) then we will have to place visqueen and class II aggregate base.
	Response	Soil type is Non-Expensive, Refer to Supplemental Geotechnical Investigation Reports, See Addendum 1&2 item #1
32	Question	Is there additional time, associated with Alternate Bid Schedule 1 that will be added to the schedule for this work?
	Response	There is no additional time associated with Alternate Bid Schedule 1.
33	Question	Are there flow records available for Salt creek that flows underneath Goetz Rd, and if so, where can they be found?
	Response	Info not available
34	Question	How do we get a copy of the Geo-Tech report? Do you have a PDF file you can email or post on line?
	Response	See Addendum 1 & 2 Item #1. (Geo Tech Report posted online)
35	Question	There are no grading sheets provided for Goetz Road, North of Canyon Lake Drive. New grade lines are indicated on the layout sheets with a note that says "Proposed mass grading per separate mass grading plan". Please provide additional drawing showing the existing and proposed grades on Goetz Road from station 21+50 to 46+00.
	Response	Disregard that note, No mass grading required under this project.
36	Question	There is no bid item to adjust the existing manholes to grade (note 51), or adjust the existing water valve cans to grade (note 52). How will this work be paid?
	Response	See Addendum 1 Item # 23.
37	Question	On sheet 12 of 96 calls out new curb ramps to be installed on the East side of Goetz Road, across from Canyon Lake Drive. The construction note to construct new sidewalk on the East side of Goetz Road (station 10+75 to 36+55) has been crossed out. Are the curb ramps needed if there are no sidewalks in this area?
	Response	Yes, Curb ramps are needed there.
38	Question	What are the dimensions of the footing for the existing wall that is to be demolished and removed along Newport? Please provide as-built plan or information.
	Response	Info not available.
39	Question	Note 2 on sheet 55 of 96 states that "The contractor shall be responsible for the clearing of the proposed work area, and relocation costs of all existing utilities." Who is responsible for the utility relocation and the associated costs? If the contractor is responsible for the utility relocation, please provide the scope of the utility relocation work. If this work is to be done by others, please provide the proposed cost so it can be added to our bid.
	Response	All utility related work shown on plans is contractor's responsibility.
40	Question	On Sheet 89 of 96, note 8 states "place 6' thick 1/2 ton rip rap per caltrans std. specifications 72-2 method "B" and detail hereon." There is no bid item for 1/2 ton rip rap method "B". How will this work be paid?

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES		
	Response	See Addendum 1 Item 2
41	Question	Sheet 6 of 96 shows the removals of the existing Goetz Road / Newport Road connector. At station 9+55 on Newport Road it shows the asphalt being removed across all lanes. The asphalt pavement shown on sheet 7 of 96 does not show any asphalt going back in on the South side of Newport Road. Is this section to be removed and replaced, or can it be left in place?
	Response	Sheet 6 of 96 is not for construction. Sheet 7 of 96 is for construction. There is a median to be built at this location per sheet 7 of 96.
42	Question	Item #5 of Addendum 1 did not address this clause of the LD specification section, but only deleted and replaced the first paragraph. My question addresses the 2nd paragraph. Please clarify if this paragraph is deleted as well.
	Response	No, it is not deleted and still applicable
43	Question	Please clarify Addendum 1 statement that "there will be no adjustment in the milestone dates due to non-productive working days caused by weather." Does this mean time will not be granted when it rains and we cannot work at all, or only after it rains and work is possible, but unproductive?
	Response	There will be no adjustments to the milestone dates for any weather related issues, whether work can or cannot be performed.
44	Question	Please provide details for the existing block wall that is to be demolished on sheet 80 to 82 (i.e. pile cap on CIDH pile, spread footing). This information is needed to determine the amount excavation and backfill that will be needed and the volume of concrete debris that will be generated.
		What are the dimensions of the footing for the existing wall that is to be demolished and removed along Newport? Please provide as-built plan or information.
	Response	Not available. Bidders shall use their due diligence to prepare their estimate.
45	Question	Will the County provide construction survey?
	Response	All construction survey will be performed by County forces.
46	Question	Please clarify schedule of Verizon fiber-optics relocation. If Verizon is going to start work relocating their fiber-optic line and vaults at completion of Milestone 2 (February 20, 2011) and is given 56 calendar days, they will possibly not complete work until April 18 th . We cannot start remedial grading at Newport and Goetz until the Verizon line and vaults are relocated, but yet the completion date of Milestone 3 is April 24 th . This only gives us 6 calendar days to complete remedial grading and fill work for EMWD (shoring, dewatering, wet material excavation and processing, embankment fill, import, and grading). This is not possible and liquidated damages will need to be added to the cost of the bid to account for this. Please clarify.
	Response	When Verizon is relocating their facilities, the contractor's total operation is not suspended or stopped. Verizon does not have the exclusive use of the project site but only at the areas of relocations. Within the time window, the contractor must allow Verizon the priority to relocate their facilities. The contractor is responsible for coordination with Verizon.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES

47	Question	<ul style="list-style-type: none"> When will the 10" ACP line be high-lined around work area? Will EVMWD also remove the existing 10" ACP line? This is asbestos pipe and will require a contractor with a special license and certification to remove it.
	Response	<ul style="list-style-type: none"> See addendum 1 Item # 6 The contractor will need to install a high-line if it is required and it must be coordinated with EVMWD and to their standards (see comments to an earlier RFI (added below). No the contractor will be responsible for the removal of the ACP where shown on the plans to be removed. The abandonment and removals of EVMWD's waterlines must be coordinated with EVMWD. Yes, the contractor or his subcontractor who will dispose of the ACP must have the appropriate license and permits
48	Question	<ul style="list-style-type: none"> Will the utility companies be providing their own SWPPP, BMPs, and Water Pollution Control Managers for the execution of their work? During their work windows, no other work will be occurring on this project and the County and County's contractor should not be responsible or liable for work of Others
	Response	The utility companies must provide their own SWPPP, BMPs and WPCP at their localized work zone, which must be included as one of the conditions in their encroachment permits. The contractor is responsible for the SWPPP, BMPs and WPCP for the site as a whole. During the relocation windows, the contractor's operation is not suspended or shutdown and it will be necessary for the contractor to perform contract work in order to meet the overall project schedule. However, the utility companies must be given the priority and the exclusive use on their localized areas of relocation.
49	Question	Will structural plans for the scour wall be coming out soon?
	Response	Yes, See addendum 2, Item # 8 and 13.
50	Question	Per addenda #1, item no. 100 was revised to "connection of new pipelines to existing water meters,...". There are no existing meters shown on the drawings. Could you please clarify.
	Response	See sheet 40 of 96. There is a new water meter and service to be installed at station 21+50 on the south side of Newport (install 2" water service connection with 1 1/2 " water meter (B-342).
51	Question	What item do we put the removal of existing ACP waterlines. Plans show to remove interfering portion of 8" ACP and complete removal of 10" ACP. Will this be handled as extra work.
	Response	Full payment shall include full compensation for all existing ACP removal and disposal including unsuitable materials is paid under EVMWD's various bid items and no additional compensation will be allowed therefor.
52	Question	Are there additional details for for cutoff wall? I can't find a detail that shows the dimensions and rebar details.
	Response	See addendum 2 Item # 8 and 13.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES

53	Question	Does the County consider an extension of time for the bid opening?
	Response	See Addendum 2, Item #1
54	Question	Should the pile cap be Case 1 (H=21") rather than (Case 2) H=14"?
	Response	The Pile Cap H=1'-9" (21") is typical for Case 1 & 2, The dimension 1'-2" (14") in case 2 refers to the pile reinforcement extension into the cap but not the height of the cap. See standard plan B15-3.
55	Question	Is the length of each CIDH 16 feet?
	Response	See addendum 2 Item# The length of the piles are 16' for design H=10' to 16'. The length of the piles are 14' for design H=8', See standard plan B15-3
56	Question	In the Project Specs on page 52, it states that the project shall be completed in 90 working days including Saturdays. In Addendum 1, Milestones 1 – 4 were added with completion dates. Are these completion dates base on Working Days (Monday – Friday), Working Days (Monday – Saturday) or Calendar days?
	Response	The working days are from Monday through Saturday as stated in item # 5 of addendum 1 and addendum 2, Item # 6.
57	Question	The Milestone 2 completion date of February 20, 2011 is 89 working days (Mon. – Fri) or appx. 18 weeks from anticipated start date of October 11, 2010. It appears this is not enough time to procure bridge submittals, submit & review the submittals, fabricate the girders, erect the girders, constructing the deck and install the conduits/casings prior to turning over to the utility companies. Please review the time frames needed for all aspects of the paperwork and construction to meet Milestone 2. Or does the County already have a supplier ready to provide the approved girders? If so, please provide the suppliers contact information.
	Response	Refer to item " order of Work" in Spec page 52 and item 4 of addendum 1 and addendum 2, Item # 6.
58	Question	Who is responsible for the removal of the existing temporary K-rail on the project? If it is the Contractor, does the K-rail become the property of the Contractor?
	Response	See addendum 1 item# 7
59	Question	What is the thickness of the existing concrete apron to be removed on Sheet 11 of 96, Construction Note 57?
	Response	Not available, contractor shall use the design to estimate.
60	Question	On Sheet 89 of 96, construction note 9 – Concrete Scour Wall. Where is the Concrete Scour Wall to be paid?
	Response	See addendum 2 Item # 8 and 13 (sheet 13A)
61	Question	Reference to item 47 on proposal, Detector Loops. Where are these loops located? No plans are provided.
	Response	Addendum 2, Item # 7, these are advance detector loops including cable and conduits are shown on the plans sheet 43 & 44 of 96, other shown loops are eliminated with Video Detection system.
62	Question	Reference to Item 52 on proposal, Remove existing traffic signal at Goetz Rd and Normandy Rd, no plans provided.

**Goetz Road and Newport Road
Completion of Improvements**

Project No. B8-0643

CONTRACTOR QUESTIONS AND RESPONSES		
	Response	There are no plans for existing signal available; bidders shall use their due diligence to calculate needed work to remove and salvage signal as specified in specs.
63	Question	There appears to be a discrepancy in the existing contour grade lines between the Construction plans (Sheets 6 – 9 of 96) and the Earthwork plans (Sheets 77 – 79 of 96). Which plans are we to use for the existing grade lines?
	Response	The topo shown on the earthwork plans shall be used for bidding purposes.
64	Question	What Bid Item is cutoff wall construction paid under?
	Response	See addendum 2 Item 4, and revised proposal
65	Question	Sheet 85 of 96 (9 of 13 of Earthwork Plans) is the last plan sheet for the Earthwork drawings, are there other Earthwork plans that cover the rest of the project on Goetz Road? This would help in our quantity take offs for the earthwork.
	Response	There are 1 through 13 sheets in Earthwork Plan including details.
66	Question	On sheet 89 of 96 (13 of 13 of Earthwork Plans) on section C-C shows a scour wall at the toes of the slope but in the bridge plans (71 of 96) shows a cut off wall. What is the intent of the Agency?
	Response	See Addendum 2, Item # 8 and 13.

Goetz Road and Newport Road
 Completion of Improvements
 Project No. B8-0643

2006 STANDARD PLAN B3-8

0151 COUNTY ROUTE POST MILES SHEET TOTAL PROJECT NO. SHEETS

Charmaine S. Kiser
 REGISTERED CIVIL ENGINEER

MAY 1, 2006
 PLUS APPROVAL DATE

REGISTERED PROFESSIONAL SEAL FOR DESIGNER
 CHARMINE S. KISER
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 LICENSE NO. 10213-06

To print the Database web site go to <http://www.fdot.org>

DESIGN AND DRAINAGE

Place waterstop as shown when required.

Backfill sufficiently to prevent ponding. To be done after removal of wall forms except for backfilling behind wall.

Place concrete in toe against undisturbed material except as permitted by the Engineer.

3" Hole at 14'-9" centers

DETAIL OF DESIGN LOADING CASES

Case I Level + 240 psf surcharge
 Case II 21' Unlimited slope
 Case III 1 1/2:1 Limited slope
 5'-0" Max height
 +240 psf surcharge

NOTE: Surcharge Limits Shown Apply to Retaining Wall Type 1 and 3.

20'-0" VC AT TOP OF WALL SLOPE CHANGE

where shown on the plans

10'-0" VC

1'-0" H₁ to H₂ 2'-0" H₂ to H₃ 3'-0" H₃ to H₄ 4'-0" H₄ to H₅

1/2" Exp Jt if required

STEM WIDTH AT BASE OF HAUNCH

11 1/2" 9"

Standard batter

DESIGN CONDITIONS:

Design "H" may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting the pressure listed in table.

Return wall not required unless shown elsewhere.

Design Data:
 $f_c = 1,450 \text{ psi}$ $f_s = 3,600 \text{ psi}$ $f_w = 24,000 \text{ psi}$
 $n = 10$ earth = 120 lb/ft³
 240 psf surcharge:
 Equivalent fluid pressure = 36 psf/ft maximum for determination of toe pressure.
 27 psf/ft minimum for determination of heel pressure.

Earth pressures for 2:1 unlimited slope, 1 1/2:1 slope, and 1:1 unlimited slope, determined from Rankine's formula with $\phi = 33.4\%$.

TABLE A

H	Offset
4'-12"	200
14'-16"	160
18'-20"	140
22'-24"	130
22'-24"	27/2

See Table A for Offset

Vertical LOL

Stem as constructed

APPROXIMATE WALL OFFSET VALUES

Not required for wall Types 3 and 4. Values for offsetting forms to be determined by the Engineer.

1/2" Preplaced expansion joint filler

Waterstop (see 80-3)

PLAN OF WALL WITH BRIDGE DETAIL 3-4

PLAN OF WALL WITH EXPANSION JOINT ONLY

FOOTING STEP

1'-0" H₁ to H₂ 2'-0" H₂ to H₃ 3'-0" H₃ to H₄ 4'-0" H₄ to H₅

1/2" Exp Jt if required

PLAN (For return wall type "a")

14'-0" Max
 1'-6" Min
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

PLAN (For return wall type "b")

16'-0" Max
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

PLAN (For return wall type "c")

10'-0" Max
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

PLAN (For return wall type "d")

3'-0"
 2-#5 Total 4
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

ELEVATION (Return Wall Type "A")

14'-0" Max
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

ELEVATION (Return Wall Type "B")

16'-0" Max
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

ELEVATION (Return Wall Type "C")

10'-0" Max
 1'-0" Min
 6'-0" Max
 2-#5
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

ELEVATION (Return Wall Type "D")

3'-0"
 2-#5 Total 4
 #5
 #6
 Ret Wall Reinf
 Bridge Detail 3-4
 omit when Bridge Detail 3-4 is not required.

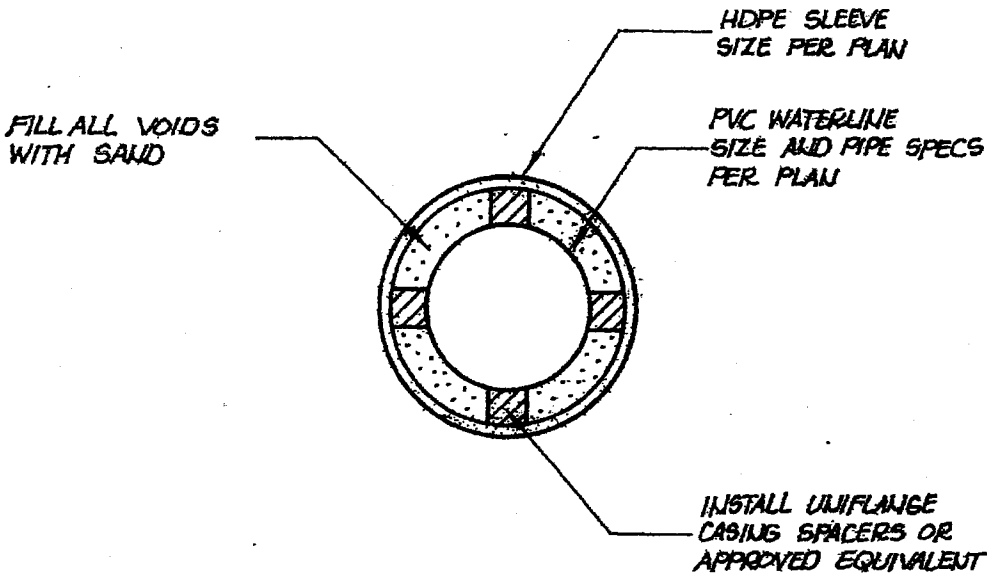
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS No. 1

NO SCALE

B3-8

ATTACHMENT "C" TO ADDENDUM 2



△ HDPE SLEEVE DETAIL

NTS

ATTACHMENT "G" TO APPENDUM 2

**This is a Copy
Do Not Remove**

MS3909

IP030057

WATER/SEWER APPROVED BY:			
EASTERN MUNICIPAL WATER DISTRICT			
BY:	<i>Joseph A. Miller</i>	DATE	4/19/06
CIVIL ENGINEER OF SUBDIVISIONS			
APPROVALS	PROJ. ENG.	INITIAL	DATE
	INSPECTIONS	AGA	4/19/06
	WATER OPERATIONS		
	SEWER OPERATIONS		

**COUNTY OF RIVERSIDE
 NEWPORT ROAD
 SEWER AND WATER IMPROVEMENTS**

STA 19+00.00 TO STA 30+35.69

L.D.	U-36/U-35
S.A.	41/33
W.O.	10-395
C.O.	46804/47200
COORD.	22-B-28
SHT.	5 OF 21
- 34059	

FOR:

W.O.

COUNTY

ET 1

40'

ATTACHMENTS FILED
WITH
THE CLERK OF THE BOARD