Juan C. Perez, P.E., T.E.
Director of Transportation and Land Management

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY

Patricia Romo, P.E.
Assistant Director of Transportation

Transportation Department

ADDENDUM NUMBER 3

Dated July 16, 2015

to the
Specifications and Contract Documents
for the construction of

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

Bids Due: **(Revised) Wednesday, July 29, 2015; 2:00 p.m.**
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

This Addendum is issued pursuant to the Instructions to Bidders, Item No. 8, of the Contract Documents for the reference project. This Addendum is issued as a supplement to the specification and special provisions for the referenced project. The revisions to the specifications shall become a part of the Contract Documents, and each bidder shall acknowledge receipt thereof on the Bid (Proposal). Bidders are directed to sign this addendum as acknowledged, and attach the signed addendum to the contractor's submitted proposal.

Note: During the advertisement period of this project, this document and attachments (if any) are available upon request at the office of the Transportation Department, and are available as a free download at the Transportation Department's website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

MODIFICATIONS / CLARIFICATIONS TO SPECIAL PROVISIONS:

Item 1: The new designated date and time for the receipt and opening of bids is revised as follows:

Wednesday, July 29, 2015; 2:00 p.m.
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

Item 2: **Project Number Update to B2-04722.** Refer to all Contract Documents. Whenever in the Contract Documents the number B2-0472 is used, it shall be understood to mean and refer to Project No. B2-04722.

Contractors are advised to use Project No. B2-04722 in their future project documents and correspondence.

3525 14th Street · Riverside, CA 92501 · (951) 955-6800
FAX (951) 955-3164

Item 3: **Revised Proposal.** Refer to "Proposal" pages B2-B12 and "Revised Proposal" Attachment "A" of Addendum No. 1. Delete and replace "Proposal" (pages B2 through B12) and Revised Proposal as issued by Addendum No. 1 with "Proposal (Revised)" attached herewith as **Attachment "A".** The following changes have been made to the Proposal:

a. "Estimated Quantities" and/or units are revised for the following bid items:
Item 33, "COLD PLANE AND ASPHALT CONCRETE PAVEMENT"
Item 46, "CONCRETE PAVER (TURFSTONE)"
Item 62, "24" CAST-IN-DRILLED-HOLE CONCRETE PILING"
Item 63, "90" CAST-IN-DRILLED-HOLE CONCRETE PILING"
Item 67, "STRUCTURAL CONCRETE (RETAINING WALL)"

Item 168, "COLD PLANE AND ASPHALT CONCRETE PAVEMENT"
Item 183, "CONCRETE PAVER (TURFSTONE)"
Item 196, "24" CAST-IN-DRILLED-HOLE CONCRETE PILING"
Item 197, "90" CAST-IN-DRILLED-HOLE CONCRETE PILING"
Item 201, "STRUCTURAL CONCRETE (RETAINING WALL)"
Item 217, "18" REINFORCED CONCRETE PIPE (CLASS IV)"

b. The following bid items have been added:
Item 92.A, "18" ENTRANCE TAPER"
Item 100.A, "MINOR CONCRETE (ISLAND PAVING)"
Item 100.B, "MINOR CONCRETE (PEDESTRIAN GUARD)"

Item 226.A, "18" ENTRANCE TAPER"
Item 234.A, "MINOR CONCRETE (ISLAND PAVING)"
Item 234.B, "MINOR CONCRETE (PEDESTRIAN GUARD)"

c. Descriptions have been revised for the following bid items:
Item 57, "CEMENT TREATED BASE (PLANT-MIXED, CLASS A) [BUS TURNOUT]"
Item 61, "PORTLAND CEMENT CONCRETE [BUS TURNOUT]"

Item 192, "CEMENT TREATED BASE (PLANT-MIXED, CLASS A) [BUS TURNOUT]"
Item 195, "PORTLAND CEMENT CONCRETE [BUS TURNOUT]"

Item 4: **Clarification – Submittal of Portions of the Work to be Performed by Different Subcontractors:** Refer to Subcontractor List form on page B15 of the bidding documents, and Instructions to Bidders, Section 11, "Subletting, Subcontracting, and Subcontractors List" on page A5.

The percentage(s) of the work to be performed by a subcontractor listed does not have to be submitted at the time the bid submittal is due.

Regarding the percentage of work performed by Subcontractors, two percentages must be provided:

1. You must provide a percent of work to be performed by subcontractors based on the total sum of Alternate Bid Schedules 1 (2-Lane Option), 3 and 4
, and

2. You must provide a percent of work to be performed by subcontractors based on the total sum of Alternate Bid Schedules 2 (4-Lane Option), 3 and 4.

The apparent low bidder, the 2nd low bidder, and the 3rd low bidder must complete and submit the portions/percentages of the work to be performed by the listed subcontractors on the Subcontractors List form. Bidders must submit this information to the County no later than 24 hours after the bid opening.

If you do not submit the portions/percentages of the work to be performed by different subcontractors within the specified time, the County will find your bid non-responsive.

Other bidders do not need to submit this information unless the County requests it. If the County requests you to submit the portions/percentages of the work to be performed by different subcontractors, submit the information within 3 business days of the request.

Item 5: **Modification to Special Provision.** Refer to modification to Section 7-1.02K(6)(j)(iii) on page 26 of the Special Provisions. Modification to Section 7-1.02K(6)(j)(iii) is deleted from the Special Provisions.

~~**Replace section 7-1.02K(6)(j)(iii) with:**~~

~~**7-1.02K(6)(j)(iii) Earth Material Containing Lead**~~
~~Section 7-1.02K(6)(j)(iii) includes specifications for handling, removing, and disposing of earth material containing lead.~~

~~Submit a lead compliance plan.~~

~~Lead is present in earth material on the job site. The average lead concentrations are below 1,000 mg/kg total lead and below 5 mg/L soluble lead. The material on the job site:~~

~~1. Is not a hazardous waste~~
~~2. Does not require disposal at a permitted landfill or solid waste disposal facility~~

Item 6: **Modification to Special Provision.** Refer to Section 12-2, Construction Project Funding Signs, on pages 30 and 31 of the Special Provisions. Sub-section 12-2.04, Payment, is revised as follows:

12-2.04 PAYMENT
Full compensation for furnishing, erecting, maintaining and removing construction project funding signs will be considered as included in the lump sum price paid for construction area signs and no additional compensation will be allowed therefor.

Item 7: **Addition to Special Provisions.** The following Special Provisions are added and made part hereof:

Replace section 15-2.02B(3) with:
15-2.02B(3) Cold Planing Asphalt Concrete Pavement
15-2.02B(3)(a) General
Schedule cold planing activities to ensure that cold planing, placement of HMA, and reopening the area to traffic is completed during the same work shift:

If you do not complete HMA placement before opening the area to traffic, you must:
1. Construct a temporary HMA taper to the level of the existing pavement
2. Place HMA during the next work shift
3. Submit a corrective action plan that shows you will complete cold planing and placement of HMA in the same work shift. Do not restart cold planing activities until the Engineer approves the corrective action plan.

15-2.02B(3)(b) Materials
Use the same quality of HMA for temporary tapers that is used for the HMA overlay or comply with the specifications for minor HMA in section 39.

15-2.02B(3)(c) Construction
15-2.02B(3)(c)(i) General
Do not use a heating device to soften the pavement.

The cold planing machine must be:
1. Equipped with a cutter head width that matches the planing width. If the cutter head width is wider than the cold plane area shown, submit to the Engineer a request for using a wider cutter head. Do not cold plane unless the Engineer approves your request.
2. Equipped with automatic controls for the longitudinal grade and transverse slope of the cutter head and:
   2.1. If a ski device is used, it must be at least 30 feet long, rigid, and a 1-piece unit. The entire length must be used in activating the sensor.
   2.2. If referencing from existing pavement, the cold planing machine must be controlled by a self-contained grade reference system. The system must be used at or near the centerline of the roadway. On the adjacent pass with the cold planing machine, a joint-matching shoe may be used.
3. Equipped to effectively control dust generated by the planing operation
4. Operated so that no fumes or smoke is produced.

Replace broken, missing, or worn machine teeth.

15-2.02B(3)(c)(ii) Grade Control and Surface Smoothness
Furnish, install, and maintain grade and transverse slope references.

The depth, length, width, and shape of the cut must be as shown or as ordered. The final cut must result in a neat and uniform surface. Do not damage the remaining surface.

The completed surface of the planed asphalt concrete pavement must not vary more than 0.02 foot when measured with a 12-foot straightedge parallel with the centerline. With the straightedge at right angles to the centerline, the transverse slope of the planed surface must not vary more than 0.03 foot.

Where lanes are open to traffic, the drop-off of between adjacent lanes must not be more than 0.15 foot.

15-2.02B(3)(c)(iii) Temporary HMA Tapers
If a drop-off between the existing pavement and the planed area at transverse joints cannot be avoided before opening to traffic, construct a temporary HMA taper. The HMA temporary taper must be:

1. Placed to the level of the existing pavement and tapered on a slope of 30:1 (horizontal:vertical) or flatter to the level of the planed area
2. Compacted by any method that will produce a smooth riding surface

Completely remove temporary tapers before placing permanent surfacing.

15-2.02B(3)(c)(iv) Remove Planed Material
Remove cold planed material concurrent with planing activities so that removal does not lag more than 50 feet behind the planer.

15-2.02B(3)(d) Payment
Payment for removal of pavement markers, thermoplastic traffic stripe, painted traffic stripe, and pavement marking within the area of cold planing is included in the payment for cold plane asphalt concrete pavement of the types shown in the Bid Item List.

Item 8: **Modification to Special Provision.** Refer to modification to Section 19-2.03C on pages 43-44 of the Special Provisions. Delete modification to Section 19-2.03C and replace with the following:

Add to section 19-2.03C:

Between stations 237+00 and 347+00, materials with lower R-values may be encountered. Native soils underlying the proposed pavement section shall have a minimum R-Value of 40. If materials with lower R-values are encountered, material underlying proposed pavement section should be treated or replaced to a depth of 4 feet below the finished grade with material that has an R-value equal to or greater than 40. Either native granular or imported granular material could be used as backfill if the following conditions are met:

1. Free of organics, debris, and oversized material
2. Material has an Expansion Index less than 30
3. Material has a Plasticity Index less than 12
4. Material is non-corrosive to steel and concrete

The backfill shall be placed in loose lifts with a maximum thickness of 8 inches, moisture conditioned, as necessary, to optimum moisture content, and compacted to a minimum 95 percent compaction as determined by ASTM D1557.

Item 9: **Modification to Special Provision.** Refer to modification to Section 19-3.01A(2) on pages 44 of the Special Provisions. Delete modification to Section 19-3.01A(2) and replace with the following:

Replace section 19-3.01A(2):

Prior to any ground-disturbing activities within the archeological monitoring area, submit a plan for protecting the potential archeological resources from damage. Damage could occur during excavation, during construction of the retaining wall and during backfill and final grading. The plan must include, but not limited to:

1. Order of work

2. Detailed methods
3. Details and data for equipment, including planned use and proximity to wall
4. Details for temporary shoring as necessary
5. Method for monitoring excavation
6. Detailed corrective actions
7. Schedule for all wall construction activities

Prepare the protection plan so that the excavation can be performed while protecting the archeological resource. Contractor is advised that methods and equipment that may cause excessive damage to the archeological resource, as determined by the Engineer, will not be allowed.

The protection plan must include details of corrective actions if damage occurs, as determined by the Engineer. Corrective work shall be at the Contractor's expense.

Schedule a meeting to discuss the protection plan. The meeting must include you, the Engineer, and the Archeological monitor. Allow 30 days for the Department's review of the plan. If the Engineer rejects the protection plan, make corrective changes and resubmit the protection plan.

Item 10: Modification to Special Provision. Refer to modification to Section 19-3.04 on page 45 of the Special Provisions. Delete modification to Section 19-3.04 and replace with the following:

Add to section 19-3.04:

Low expansion index backfill material will be measured and paid for by the cubic yard as structure backfill (bridge).

Full compensation for stockpiling topsoil, redistributing topsoil and re-grading contours in the riparian areas as described in section 19-2.03D, including labor, equipment, materials, and incidentals, shall be considered as included in the contract unit price for roadway excavation, and no additional compensation will be allowed therefor.

Item 11: Modification to Special Provision. Refer to modification to Section 19-4 on page 45 of the Special Provisions, Sub-section 19-4.01A, Summary. Delete Sub-section 19-4.01A, Summary, and replace with the following:

19-4.01A Summary

Section 19-4 includes specifications for performing rock excavation with controlled blasting and presplitting rock to form rock excavation slopes.

In general, the bedrock was determined to be rippable to a depth of 20 to 40 feet below ground surface. Bedrock excavatabilty is expected to vary and may require blasting at localized areas. For additional information refer to ~~section 2-1.06B for supplemental information and~~ the Geotechnical Design Report.

You may use hydraulic splitters, pneumatic hammers, controlled blasting, or other roadway excavation techniques authorized to fracture rock and construct stable final rock cut faces.

Comply with section 12.

Comply with federal, state, and local blasting regulations. Regulations containing specific Cal-OSHA requirements for blasting activities include 8 CA Code of Regs, Ch 4, Subchapter 7, Group 18, "Explosive Materials." Regulations for explosives containing percholate materials include 22 CA Code of Regs, Division 4.5, Ch 33, "Best Management Practices for Percholate Materials."

You are liable for damages resulting from blasting activities.

Item 12: Modification to Special Provision. Refer to modification to Section 20-16, Concrete Paver, on pages 55 and 56 of the Special Provisions. Sub-section 20-16.04, Payment, is revised as follows:

20-16.03 PAYMENT

~~Concrete pavers are measured from actual count in place.~~ No payment is made for unused concrete pavers and cuttings.

The unit price paid per square foot for Concrete Paver (Turfstone), shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the specified work in the Standard Specifications and these Special Provisions and no additional compensation will be allowed therefor.

Item 13: Addition to Special Provisions. The following Special Provisions are added and made part hereof:

Add to section 21-1.02P:

Straw must be weed free. Weed-free straw must comply with the Department of Food and Agriculture's certification requirements for weed-free straw.
Fiber rolls shall be Type B.

Add to section 21-1.03P:

Type B fiber rolls may be installed using installation method Type 1, Type 2, or a combination.

Item 14: Modification to Special Provision. Refer to modification to Section 51-1.04 on page 89 of the Special Provisions. Delete modification to Section 51-1.04 and replace with the following:

Add to section 51-1.04:

Payment for constructing concrete saddle utility supports, including bar reinforcing steel and all incidentals, is included in the payment for structural concrete, bridge.

Payment for colored concrete in fractured basalt concrete surface texture, including furnishing all labor, materials, tools, equipment and incidentals, is included in the payment for fractured basalt texture.

Item 15: Addition to Special Provisions. The following Special Provisions are added and made part hereof:

Replace the 1st paragraph of 51-7.01B with:

Concrete for terrace drains, splash walls, pipe headwalls, endwalls, drainage inlets, and structures identified as minor structures must comply with the specifications for minor concrete.

Add to section 51-7.01D:

The contract prices paid per cubic yard for minor concrete (minor structure) for terrace drains, splash walls, pipe headwalls, endwalls, drainage inlets, and structures identified as minor structures, shall include full compensation for all structure excavation and structure backfill and for furnishing and placing all bar reinforcing steel and miscellaneous iron and steel (except for metal frames and covers or frames and gates), necessary to construct the minor structures, complete in place, as shown on plans, and as specified in these specifications and the special provisions, and as directed by the engineer, and no separate payment will be made for these included items.

Item 16: Addition to Special Provision. The following Special Provisions are added and made part hereof:

Replace the 1st paragraph of section 70-5.01A with the following:

Section 70-5 includes specifications for constructing items that are appurtenances to drainage facilities. Drain appurtenances include brick and mortar plugs, flared end sections, minor concrete drainage appurtenances, miscellaneous metal appurtenances, drainage inlet depressions, drainage inlet markers, redwood covers, and drainage gates.

Item 17: Modification to Special Provision. Refer to Section 73, "Concrete Curbs and Sidewalks," on page 94 of the Special Provisions. Delete Section 73 on the Special Provisions and replace with the following:

73 CONCRETE CURBS AND SIDEWALKS

Add to section 73-2.01A:

Section 73-2 includes specifications for constructing curbs and pedestrian guards.

Add to section 73-2.02:

Earthwork must comply with section 19.

Bar reinforcing steel must comply with section 52.

Hand railing must comply with section 83-1.02G(3).

Add to section 73-2.03A:

Concrete curb within the limits of bus turnouts shall be constructed monolithically with the Portland cement concrete paving of the bus turnout.

Earthwork must comply with section 19.

Add to section 73-2.04:

Concrete curb constructed monolithically with the bus turnout concrete paving ~~will~~ shall be considered as included in the price paid for Portland Cement Concrete and no additional compensation will be allowed therefor. ~~measured and paid for by the cubic yard as Minor Concrete (Bus Turnout).~~

The unit price paid per linear foot for Pedestrian Guard, shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing pedestrian guard, including structural reinforcement, excavation and backfill, installation of hand railing, complete in place, as shown on the plans, as specified in the Standard Specifications and these Special Provisions and no additional compensation will be allowed therefor.

Item 18: Modification to Special Provision. Refer to modification to Section 80-10.03 on page 104 of the Special Provisions. Delete the third paragraph of Section 80-10.03 (shop drawings paragraph) and replace it with the following paragraph:

"Shop Drawings: Contractor to submit shop drawings for wrought iron fence to match existing wrought iron fence being joined to. Allow 20 days for the Engineer to review. Submit shop drawings showing location of fence and gates, including each post, details of post installation, hardware, and accessories. Show sizes and thicknesses of all members, types of materials, methods of connection and assembly, complete dimensions, clearances, anchorage, relationship to surrounding work, and other pertinent details of fabrication and installation".

Item 19: Modification to Special Provision. Refer to Section 83, "Railings and Barriers," modification to sub-section 83-1.02G(2) on page 107 of the Special Provisions. Delete modification to sub-section 83-1.02G(2) on the Special Provisions and replace with the following:

Add to the section 83-1.02G(2):

The exterior finish of railing components on both bridges shall be powder coated black conforming to Federal Standard 595 C No. 27041 with a semi-gloss finish, 4.0 mils nominal thickness and be tested for adhesion under ASTM 4541-Type IV. The powder coat must create a mechanical bond with the metal substrate. Submit the adhesion tests results to the Engineer for approval.

Powder-coated metal railing must withstand a 1,000-hour salt spray test as specified in ASTM B 117.

The Contractor shall submit complete shop drawings for each railing panel (unit between pilasters) to the Engineer in conformance with the provisions in Section 5-1.02, "Contract Components," of the Standard Specifications. The shop drawings shall show complete details of the railing assembly and anchorage components and the method of installation to be followed, including concrete blockout details for post pockets and additions or rearrangements of the reinforcing steel from that shown on the plans. For initial review, 5 sets of shop drawings shall be submitted. After review, between 6 and 12 sets of shop drawings, as requested by the Engineer, shall be submitted for final approval and use during construction.

Each shipment of railing materials shall be accompanied by a Certificate of Compliance in conformance with the provisions in Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications. The certificate shall state that the materials and fabrication involved comply in all respects to the specifications and data submitted in obtaining the approval.

Item 20: Supplemental Project Information. Refer to Supplemental Project Information, available for inspection on the County of Riverside Transportation Department website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

Additional sheets with updated cross sections every 50 feet between stations 304+00 and 311+00, for the 2-Lane Option and the 4-Lane Option, are made available for inspection on the County of Riverside Transportation Department website.

Item 21: Project information: Questions and Responses. Question and response information list is available at the County of Riverside Transportation Department website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

The downloadable file is provided for reference only. The Contractor Questions and Responses are included with Addendum No. 3 as **Attachment C**. For any discrepancy written on these Questions and Responses sheets, the Contractor shall conform to the contract documents.

MODIFICATIONS / CLARIFICATIONS TO THE PLANS

Item 22: Plan sheet revisions. The following Plan sheets are revised by **Attachment "B"** and made a part hereof

a. Delete and replace the following four *(4)* plan sheets from the 2-lane option set:

1. Plan sheet 17 of 191
2. Plan sheet 39 of 191
3. Plan sheet 150 of 191
4. Plan sheet 153 of 191

b. Delete and replace the following four *(4)* plan sheets from the 4-lane option set:

1. Plan sheet 17 of 195
2. Plan sheet 41 of 195
3. Plan sheet 154 of 195
4. Plan sheet 157 of 195

Note: All revised plan sheets are posted on the County website and are available for download during the advertisement period.

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

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

Alicia Cannon

Alicia Cannon, PE

Recommended By:

John Marcinek, PE
County Project Manager

Concurrence:

7/16/15

Khalid Nasim, PE
Engineering Division Manager

Acknowledged: _____ Date: _____
(Contractor)

JRJ:jrj:rr

Note: Refer to Instruction to Bidders Item No. 8, "Addenda". Submission of all addendum pages and non-bidding document attachments of addendum are not necessary for Bid submittal. Submittal of this acknowledgement page is adequate for Bid reception. Bidders are reminded to list addendum number(s) received on the first page of the Bid form (Proposal).

ATTACHMENTS

A – Revised Proposal

B – Revised Clinton Keith Road Plan Sheets
(4) Plan sheets from the 2-lane option set
(4) Plan sheets from the 4-lane option set

C – Contractors Questions and Responses

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
1	016101	OBTAIN ENCROACHMENT PERMIT	FA	1	5,000.00	5,000.00
2	017101	MANHOLE (RCFC & WCDS MH 251)	EA	15		
3	017103	MANHOLE (RCFC & WCDS MH 252)	EA	8		
4	017105	JUNCTION STRUCTURE (RCFC & WCDS JS 227)	EA	17		
5	017114	TRANSITION STRUCTURE (RCFC & WCDS TS 303)	EA	1		
6	017305	MINOR CONCRETE (TYPE A-8 CURB) (CRS 201)	LF	9,141		
7	017306	MINOR CONCRETE (CURB RAMP) (CRS 403)	EA	5		
8	017307	MINOR CONCRETE (TYPE "C" CURB) (CRS 202)(MOD)	LF	257		
9	017309	MINOR CONCRETE (TYPE "D" CURB) (CRS 204)	LF	4,008		
10	019902	COURSE OF CONSTRUCTION INSURANCE	LS	1		
11	000003	PRECONSTRUCTION SURVEY	LS	1		
12	066102	DUST ABATEMENT	LS	1		
13	066105	RESIDENT ENGINEERS OFFICE	LS	1		
14	066610	PARTNERING	LS	1		
15	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	1		
16	070030	LEAD COMPLIANCE PLAN	LS	1		
17	071321	TEMPORARY FENCE (TYPE CL-6)	LF	908		
18	071325	TEMPORARY FENCE (TYPE ESA)	LF	2,770		
19	074016	CONSTRUCTION SITE MANAGEMENT	LS	1		
20	120090	CONSTRUCTION AREA SIGNS	LS	1		
21	120100	TRAFFIC CONTROL SYSTEM	LS	1		
22	120165	CHANNELIZER (SURFACE MOUNTED)	EA	17		
23	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1		
24	150606	REMOVE FENCE (TYPE BW)	LF	1,197		
25	150608	REMOVE CHAIN LINK FENCE	LF	3,179		
26	000003	REMOVE CHAIN LNK FENCE (SLATTED)	LF	285		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
27	150662	REMOVE METAL BEAM GUARD RAIL	LF	110		
28	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	7,913		
29	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,104		
30	150742	REMOVE ROADSIDE SIGN	EA	13		
31	150771	REMOVE ASPHALT CONCRETE DIKE	LF	35		
32	152390	RELOCATE ROADSIDE SIGN	EA	4		
33	153103	COLD PLANE AND ASPHALT CONCRETE PAVEMENT	SQYD	**632**		
34	153130	REMOVE CONCRETE CURB	LF	77		
35	153121	REMOVE CONCRETE (CURB AND GUTTER)	LF	348		
36	153218	REMOVE CONCRETE SIDEWALK	SQFT	1,534		
37	153242A	REMOVE CONCRETE (CURB RAMP)	EA	1		
38	160101	CLEARING AND GRUBBING	LS	1		
39	170101	DEVELOP WATER SUPPLY	LS	1		
40	(F) 190101	ROADWAY EXCAVATION	CY	**350,501**		
41	(F) 190160	ROCK EXCAVATION (CONTROLLED BLASTING)	CY	70,000		
42	(F) 192003	STRUCTURE EXCAVATION (BRIDGE)	CY	954		
43	(F) 192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	2,974		
44	(F) 193003	STRUCTURE BACKFILL (BRIDGE)	CY	585		
45	(F) 193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	2,432		
46	(F) 193031	PERVIOUS BACKFILL (RETAINING WALL)	CY	81		
47	198205A	SUBGRADE ENHANCEMENT GEOTEXTILE (MULTI-AXIAL)	SQYD	52,975		
48	201600A	CONCRETE PAVER (TURFSTONE)	**SQFT**	**1,800**		
49	203031	EROSION CONTROL (TYPE D)	SQFT	22,486		
50	204099	PLANT ESTABLISHMENT WORK	LS	1		
51	210250	EROSION CONTROL (BONDED FIBER MATRIX WITH SEEDS)	SQFT	1,201,338		
52	210350	FIBER ROLLS	LF	69,185		
53	210430A	HYDROSEED (WILDLIFE OVERCROSSING)	SQFT	137,692		
54	210430B	HYDROSEED (RIPARIAN AREA)	SQFT	**25,102**		
55	220101	FINISHING ROADWAY	LS	1		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
56	260203	CLASS 2 AGGREGATE BASE	CY	14,127		
57	270014	CEMENT TREATED BASE (PLANT-MIXED, CLASS A) **[BUS TURNOUT]**	CY	86		
58	390129	HOT MIX ASPHALT (TYPE C)	TON	10,821		
59	390132	HOT MIX ASPHALT (TYPE A)	TON	7,240		
60	394075	PLACE HOT MIX ASPHALT DIKE (TYPE D)	LF	1,414		
61	405030	PORTLAND CEMENT CONCRETE **[BUS TURNOUT]**	CY	122		
62	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**3,621**		
63	490617	90" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**374**		
64	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1		
65	(F) 510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	313		
66	(F) 510053	STRUCTURAL CONCRETE, BRIDGE	CY	4,342		
67	(F) 510060	STRUCTURAL CONCRETE (RETAINING WALL)	CY	**620**		
68	(F) 510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	293		
69	(F) 510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	217		
70	510502A	MINOR CONCRETE (RETAINING WALL)	CY	11		
71	(F) 510526	MINOR CONCRETE (BACKFILL)	CY	9		
72	**(F) 511035**	FRACTURED **BASALT** TEXTURE	SQFT	3,582		
73	519092	JOINT SEAL ASSEMBLY (MR=2 1/2")	LF	273		
74	(F) 519200A	WILDLIFE OVERCROSSING AND RETAINING WALL SYSTEM	LS	1		
75	519205A	WILDLIFE UNDERCROSSING SKYLIGHT	EA	6		
76	(F) 520102	BAR REINFORCING STEEL (BRIDGE)	LB	1,233,974		
77	(F) 520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	59,816		
78	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.80" - FRAMED)	SQFT	397		
79	566011	ROADSIDE SIGN - ONE POST	EA	66		
80	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	7		
81	598001	ANTI-GRAFFITI COATING	SQFT	3,582		
82	641125	36" PLASTIC PIPE	LF	428		
83	650411	18" REINFORCED CONCRETE PIPE (CLASS IV)	LF	592		
84	650416	24" REINFORCED CONCRETE PIPE (CLASS IV)	LF	4,510		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
85	650420	30" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,095		
86	650424	36" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,958		
87	650440	60" REINFORCED CONCRETE PIPE (CLASS IV)	LF	534		
88	650480A	36" WILDLIFE CULVERT	LF	415		
89	650432	48" REINFORCED CONCRETE PIPE (CLASS IV)	LF	234		
90	665117	18" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	151		
91	665136	36" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	134		
92	665137	36" BITUMINOUS COATED STEEL PIPE RISER (0.109" THICK)	LF	24		
92.A	**692007**	**18" ENTRANCE TAPER**	**EA**	**2**		
93	703233	GRATED LINE DRAIN	LF	1,738		
94	705011	18" STEEL FLARED END SECTION	EA	2		
95	705048	36" STEEL FLARED END SECTION	EA	1		
96	**000001**	**ITEM DELETED BY ADDENDUM**	-----	-----	-----	----
97	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	257		
98	721017	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	**3,171**		
99	(F) 721030	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	CY	**117**		
100	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	**7,247**		
100.A	**731511**	**MINOR CONCRETE (ISLAND PAVING)**	**CY**	**58**		
100.B	**000003**	**MINOR CONCRETE (PEDESTRIAN GUARD)**	**LF**	**81**		
101	731516	MINOR CONCRETE (DRIVEWAY)	CY	17		
102	731521	MINOR CONCRETE (SIDEWALK)	CY	765		
103	(F) 750001	MISCELLANEOUS IRON AND STEEL	LB	11,084		
104	(F) 750501	MISCELLANEOUS METAL (BRIDGE)	LB	38,307		
105	800000A	ONE WAY ACCESS OPENING	EA	9		
106	800300	WIRE MESH FENCE (3/8"x3/8" MESH)	LF	9,265		
107	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	1,775		
108	800360A	FENCE (TYPE BW)	LF	870		
109	800365	CHAIN LINK FENCE (TYPE CL-6,SLATTED)	LF	290		
110	801100	WIRE MESH GATE (3/8"x3/8" MESH)	EA	6		
111	801365A	TUBULAR STEEL GATE	EA	3		
112	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	2		
113	(F) 833000	METAL RAILING	LF	840		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
114	839521	CABLE RAILING	LF	302		
115	839601	CRASH CUSHION (TYPE CAT)	EA	2		
116	839602	CRASH CUSHION (TYPE CAT BACKUP)	EA	2		
117	839701	CONCRETE BARRIER (TYPE 60)	LF	4,210		
118	(F) 839702	CONCRETE BARRIER (TYPE 60A)	LF	840		
119	839703	CONCRETE BARRIER (TYPE 60C)	LF	34		
120	839705	CONCRETE BARRIER (TYPE 60E MODIFIED)	LF	220		
121	(F) 839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	840		
122	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	91,938		
123	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	5,961		
124	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	2,321		
125	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,873		
126	860251	SIGNAL AND LIGHTING (CLINTON KEITH/ TROIS VALLEY)	LS	1		
127	860556	SOLAR LIGHTING ON WILDLIFE CROSSING (8 LIGHTS)	LS	1		
128	860557	SOLAR LIGHTING ON WARM SPRINGS CREEK BRIDGE (4 LIGHTS)	LS	1		
129	(F) 860704A	2" INTERCONNECT CONDUIT AND TRACER WIRE	LF	2,550		
130	861497	MODIFY SIGNAL AND LIGHTING (CLINTON KEITH/WHITEWOOD)	LS	1		
131	869039A	NO.6 PULL BOX	EA	9		
132	760090	MOBILIZATION,DEMOBILZATION, AND FINAL CLEAN UP	LS	1		
132.A	**20052A**	**TREE TOPPING**	**LS**	**1**		
132.B	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (KRISTAR FLOGARD)**	**EA**	**1**		
132.C	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (CLEARWATER)**	**EA**	**1**		

ALTERNATE BID
SCHEDULE 1
TOTAL: _____ $_____
ITEMS 1-132.C "WORDS"

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
133	016101	OBTAIN ENCROACHMENT PERMIT	FA	1	5,000.00	5,000.00
134	017101	MANHOLE (RCFC & WCDS MH 251)	EA	11		
135	017103	MANHOLE (RCFC & WCDS MH 252)	EA	6		
136	017701A	MODIFIED MANHOLE 1	EA	4		
137	017701B	MODIFIED MANHOLE 2	EA	2		
138	017105	JUNCTION STRUCTURE (RCFC & WCDS JS 227)	EA	17		
139	017114	TRANSITION STRUCTURE (RCFC & WCDS TS 303)	EA	1		
140	017305	MINOR CONCRETE (TYPE A-8 CURB) (CRS 201)	LF	12,316		
141	017306	MINOR CONCRETE (CURB RAMP) (CRS 403)	EA	7		
142	017309	MINOR CONCRETE (TYPE "D" CURB) (CRS 204)	LF	1,273		
143	019902	COURSE OF CONSTRUCTION INSURANCE	LS	1		
144	000003	PRECONSTRUCTION SURVEY	LS	1		
145	066102	DUST ABATEMENT	LS	1		
146	066105	RESIDENT ENGINEERS OFFICE	LS	1		
147	066610	PARTNERING	LS	1		
148	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	1		
149	070030	LEAD COMPLIANCE PLAN	LS	1		
150	071321	TEMPORARY FENCE (TYPE CL-6)	LF	908		
151	071325	TEMPORARY FENCE (TYPE ESA)	LF	2,770		
152	074016	CONSTRUCTION SITE MANAGEMENT	LS	1		
153	120090	CONSTRUCTION AREA SIGNS	LS	1		
154	120100	TRAFFIC CONTROL SYSTEM	LS	1		
155	120165	CHANNELIZER (SURFACE MOUNTED)	EA	17		
156	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1		
157	150606	REMOVE FENCE (TYPE BW)	LF	1,197		
158	150608	REMOVE CHAIN LINK FENCE	LF	3,179		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
159	150608A	REMOVE WROUGHT IRON FENCE	LF	185		
160	000003	REMOVE CHAIN LINK FENCE (SLATTED)	LF	285		
161	150662	REMOVE METAL BEAM GUARD RAIL	LF	110		
162	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	7,913		
163	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,104		
164	150742	REMOVE ROADSIDE SIGN	EA	12		
165	150771	REMOVE ASPHALT CONCRETE DIKE	LF	35		
166	152353	RECONSTRUCT IRRIGATION SYSTEM (TROIS VALLEY)	LS	1		
167	152390	RELOCATE ROADSIDE SIGN	EA	3		
168	153103	COLD PLANE AND ASPHALT CONCRETE PAVEMENT	SQYD	**632**		
169	153130	REMOVE CONCRETE CURB	LF	77		
170	153121	REMOVE CONCRETE (CURB AND GUTTER)	LF	348		
171	153218	REMOVE CONCRETE SIDEWALK	SQFT	1,534		
172	153242A	REMOVE CONCRETE (CURB RAMP)	EA	1		
173	160101	CLEARING AND GRUBBING	LS	1		
174	170101	DEVELOP WATER SUPPLY	LS	1		
175	(F) 190101	ROADWAY EXCAVATION	CY	**359,067**		
176	(F) 190160	ROCK EXCAVATION (CONTROLLED BLASTING)	CY	70,000		
177	(F) 192003	STRUCTURE EXCAVATION (BRIDGE)	CY	954		
178	(F) 192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	7,991		
179	(F) 193003	STRUCTURE BACKFILL (BRIDGE)	CY	585		
180	(F) 193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	6,548		
181	(F) 193031	PERVIOUS BACKFILL (RETAINING WALL)	CY	341		
182	198205A	SUBGRADE ENHANCEMENT GEOTEXTILE (MULTI-AXIAL)	SQYD	72,678		
183	201600A	CONCRETE PAVER (TURFSTONE)	**SQFT**	**1,800**		
184	203031	EROSION CONTROL (TYPE D)	SQFT	22,486		
185	204099	PLANT ESTABLISHMENT WORK	LS	1		
186	210250	EROSION CONTROL (BONDED FIBER MATRIX WITH SEEDS)	SQFT	996,422		
187	210350	FIBER ROLLS	LF	73,420		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
188	210430B	HYDROSEED (WILDLIFE OVERCROSSING)	SQFT	137,692		
189	210430C	HYDROSEED (RIPARIAN AREA)	SQFT	**25,102**		
190	220101	FINISHING ROADWAY	LS	1		
191	260203	CLASS 2 AGGREGATE BASE	CY	19,701		
192	270014	CEMENT TREATED BASE (PLANT-MIXED, CLASS A) **[BUS TURNOUT]**	CY	143		
193	390129	HOT MIX ASPHALT (TYPE C)	TON	14,812		
194	390132	HOT MIX ASPHALT (TYPE A)	TON	9,900		
195	405030	PORTLAND CEMENT CONCRETE **[BUS TURNOUT]**	CY	204		
196	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**3,621**		
197	490617	90" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**374**		
198	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1		
199	(F) 510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	313		
200	(F) 510053	STRUCTURAL CONCRETE, BRIDGE	CY	4,342		
201	(F) 510060	STRUCTURAL CONCRETE (RETAINING WALL)	CY	**1,437**		
202	(F) 510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	293		
203	(F) 510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	204		
204	510502A	MINOR CONCRETE (RETAINING WALL)	CY	26		
205	(F) 510526	MINOR CONCRETE (BACKFILL)	CY	9		
206	**(F) 511035**	FRACTURED **BASALT** TEXTURE	SQFT	11,433		
207	519092	JOINT SEAL ASSEMBLY (MR=2 1/2")	LF	273		
208	(F) 519200A	WILDLIFE OVERCROSSING AND RETAINING WALL SYSTEM	LS	1		
209	519205A	WILDLIFE UNDERCROSSING SKYLIGHT	EA	6		
210	(F) 520102	BAR REINFORCING STEEL (BRIDGE)	LB	1,233,974		
211	(F) 520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	161,977		
212	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.80" - FRAMED)	SQFT	377		
213	566011	ROADSIDE SIGN - ONE POST	EA	69		
214	586001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	3		
215	598001	ANTI-GRAFFITI COATING	SQFT	11,433		
216	641125	36" PLASTIC PIPE	LF	428		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
217	650411	18" REINFORCED CONCRETE PIPE (CLASS IV)	LF	**1,088**		
218	650416	24" REINFORCED CONCRETE PIPE (CLASS IV)	LF	4,566		
219	650420	30" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,103		
220	650424	36" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,958		
221	650440	60" REINFORCED CONCRETE PIPE (CLASS IV)	LF	534		
222	650480A	36" WILDLIFE CULVERT	LF	415		
223	650432	48" REINFORCED CONCRETE PIPE (CLASS IV)	LF	234		
224	665117	18" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	305		
225	665136	36" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	134		
226	665137	36" BITUMINOUS COATED STEEL PIPE RISER (0.109" THICK)	LF	24		
226.A	**692007**	**18" ENTRANCE TAPER**	**EA**	**5**		
227	703233	GRATED LINE DRAIN	LF	79		
228	705011	18" STEEL FLARED END SECTION	EA	5		
229	705048	36" STEEL FLARED END SECTION	EA	1		
230	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	257		
231	721017	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	4,928		
232	(F) 721030	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	CY	117		
233	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	**10,351**		
234	727901	MINOR CONCRETE (DITCH LINING)	CY	9		
234.A	**731511**	**MINOR CONCRETE (ISLAND PAVING)**	**CY**	**58**		
234.B	**000003**	**MINOR CONCRETE (PEDESTRIAN GUARD)**	**LF**	**81**		
235	731516	MINOR CONCRETE (DRIVEWAY)	CY	17		
236	731521	MINOR CONCRETE (SIDEWALK)	CY	853		
237	(F) 750001	MISCELLANEOUS IRON AND STEEL	LB	3,243		
238	(F) 750501	MISCELLANEOUS METAL (BRIDGE)	LB	38,307		
239	800000A	ONE WAY ACCESS OPENING	EA	9		
240	800300	WIRE MESH FENCE (3/8"x3/8" MESH)	LF	9,265		
241	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	1,775		
242	800360A	FENCE (TYPE BW)	LF	870		
243	800365	CHAIN LINK FENCE (TYPE CL-6,SLATTED)	LF	290		
244	801100	WIRE MESH GATE (3/8"x3/8" MESH)	EA	4		
245	801365A	TUBULAR STEEL GATE	EA	4		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
246	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	2		
247	000003	WROUGHT IRON FENCE	LF	205		
248	(F) 833000	METAL RAILING	LF	840		
249	833020	CHAIN LINK RAILING	LF	415		
250	839521	CABLE RAILING	LF	302		
251	839601	CRASH CUSHION (TYPE CAT)	EA	2		
252	839602	CRASH CUSHION (TYPE CAT BACKUP)	EA	2		
253	839701	CONCRETE BARRIER (TYPE 60)	LF	4,280		
254	(F) 839702	CONCRETE BARRIER (TYPE 60A)	LF	840		
255	839703	CONCRETE BARRIER (TYPE 60C)	LF	34		
256	839705	CONCRETE BARRIER (TYPE 60E MODIFIED)	LF	220		
257	839726	CONCRETE BARRIER (TYPE 736A)	LF	415		
258	(F) 839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	840		
259	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	72,085		
260	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	413		
261	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	5,103		
262	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	2,885		
263	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,680		
264	860251	SIGNAL AND LIGHTING (CLINTON KEITH/MENIFEE)	LS	1		
265	860251	SIGNAL AND LIGHTING (CLINTON KEITH/ TROIS VALLEY)	LS	1		
266	860556	SOLAR LIGHTING ON WILDLIFE CROSSING (8 LIGHTS)	LS	1		
267	860557	SOLAR LIGHTING ON WARM SPRINGS CREEK BRIDGE (4 LIGHTS)	LS	1		
268	(F) 860704A	2" INTERCONNECT CONDUIT AND TRACER WIRE	LF	2,800		
269	861497	MODIFY SIGNAL AND LIGHTING (CLINTON KEITH/WHITEWOOD)	LS	1		
270	(F) 867014	12 SINGLE MODE FIBER OPTIC CABLE	LF	2,800		
271	869039A	NO.6 PULL BOX	EA	11		
272	019901	MOBILIZATION,DEMOBILZATION, AND FINAL CLEAN UP	LS	1		
272.A	**20052A**	**TREE TOPPING**	**LS**	**1**		
272.B	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (KRISTAR FLOGARD)**	**EA**	**2**		
272.C	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (CLEARWATER)**	**EA**	**1**		

ALTERNATE BID SCHEDULE 2 TOTAL: _____ $_____
ITEMS 133-272.C "WORDS"

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 3: EASTERN MUNICIPAL WATER DISTRICT						
273	000003	EMWD WATER LINE THROUGH WARM SPRINGS CREEK	LS	1		

ALTERNATE BID SCHEDULE 3 TOTAL: _____ $_____
ITEM 273 "WORDS"

ALTERNATE BID SCHEDULE 4: DEMOLISH BUILDINGS						
274	000003	DEMOLISH BUILDINGS	LS	1		

ALTERNATE BID SCHEDULE 4 TOTAL: _____ $_____
ITEM 274 "WORDS"

ALTERNATE BID SCEHEDULES 1, 2, 3 AND 4

PROJECT TOTAL: _____ $_____
ITEMS 1-274 "WORDS"

In addition to 'Instruction to Bidders' item 13, Alternate Bid Schedules:
- **The County may award Alternate Bid Schedule 1 or Alteranate Bid Schedule 2 items of work.**
- **If Alternate Bid Schedule 1 is selected, then Alternate Bid Schedule 2 will not be awarded and vice versa.**

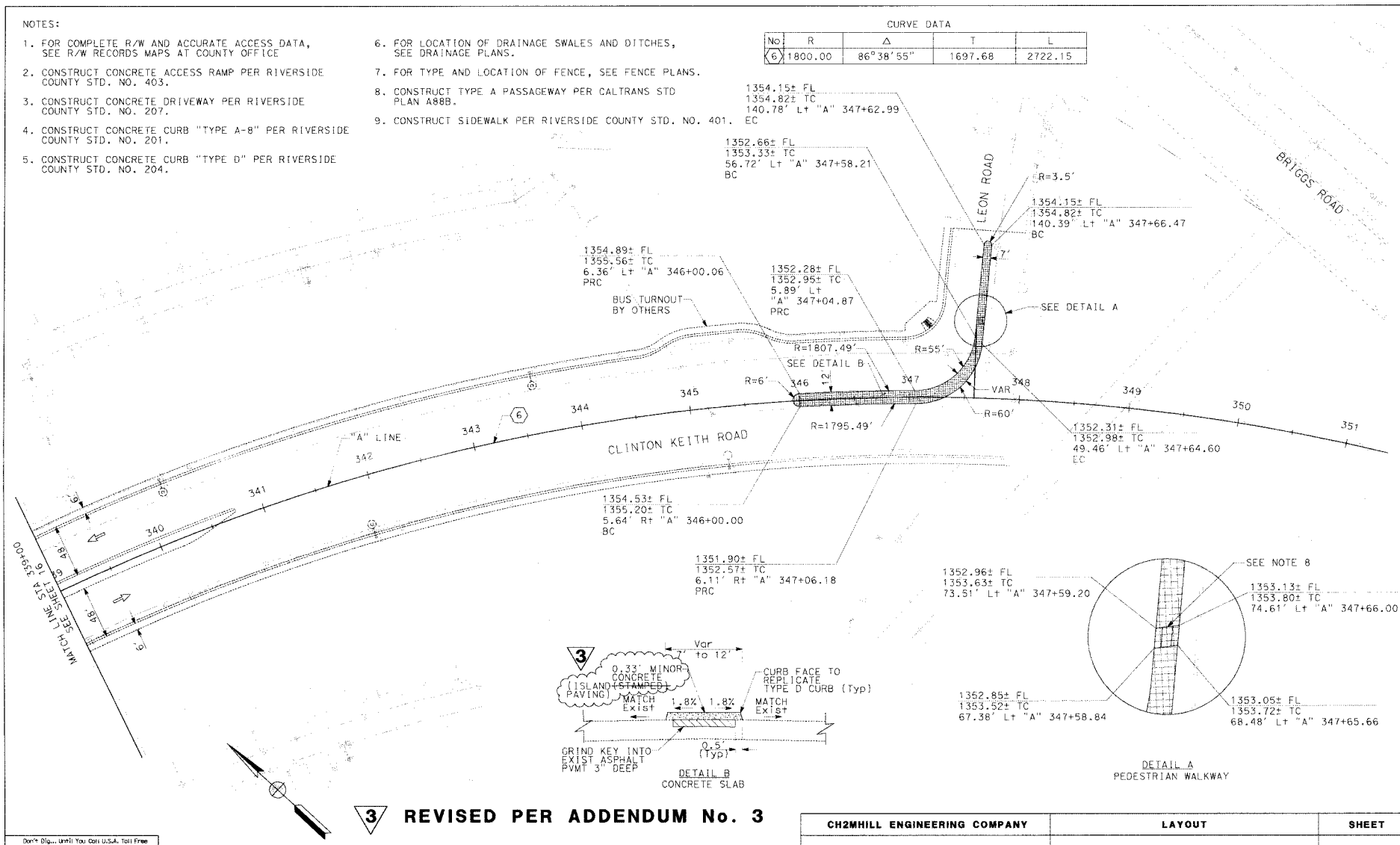
Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORDS MAPS AT COUNTY OFFICE
2. CONSTRUCT CONCRETE ACCESS RAMP PER RIVERSIDE COUNTY STD. NO. 403.
3. CONSTRUCT CONCRETE DRIVEWAY PER RIVERSIDE COUNTY STD. NO. 207.
4. CONSTRUCT CONCRETE CURB "TYPE A-8" PER RIVERSIDE COUNTY STD. NO. 201.
5. CONSTRUCT CONCRETE CURB "TYPE D" PER RIVERSIDE COUNTY STD. NO. 204.
6. FOR LOCATION OF DRAINAGE SWALES AND DITCHES, SEE DRAINAGE PLANS.
7. FOR TYPE AND LOCATION OF FENCE, SEE FENCE PLANS.
8. CONSTRUCT TYPE A PASSAGEWAY PER CALTRANS STD PLAN A88B.
9. CONSTRUCT SIDEWALK PER RIVERSIDE COUNTY STD. NO. 401.

CURVE DATA

No	R	Δ	T	L
6	1800.00	86°38'55"	1697.68	2722.15



3 REVISED PER ADDENDUM No. 3

SCALE: 1" = 40' HOR

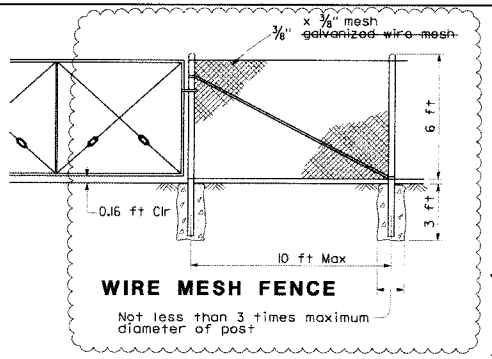
Don't Dig... Until You Call U.S.A. Toll Free 800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

CH2MHILL ENGINEERING COMPANY	LAYOUT	SHEET
APPROVED BY: Alicia L Cannon APRIL 14, 2015 ALICIA L CANNON PROJECT MANAGER DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	17 OF 191

DESIGNED BY	DRAWN BY	CHECKED BY
CO	KF	AC

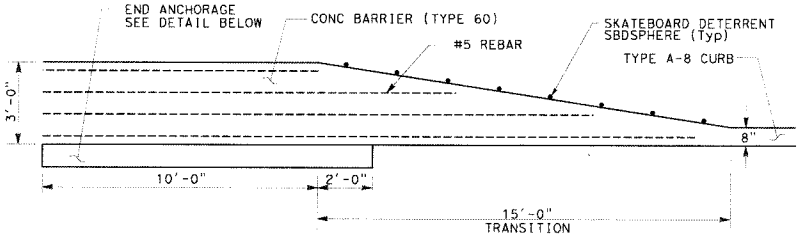
PROJECT No. B2-0472 ARCHIVE No. 962-W

ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"



WIRE MESH FENCE

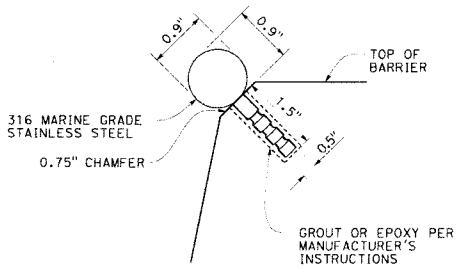
Not less than 3 times maximum diameter of post



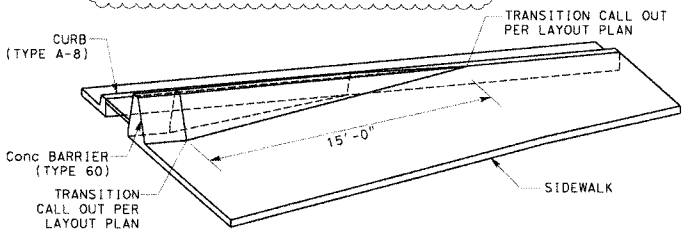
CONCRETE BARRIER TRANSITION DETAIL (ELEVATION)

NOT TO SCALE

3 **REVISED PER ADDENDUM No. 3**

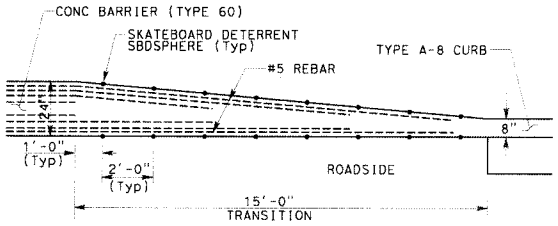


SKATE BOARD DETERRENT SBDSPHERE FOR BARRIER TRANSITION



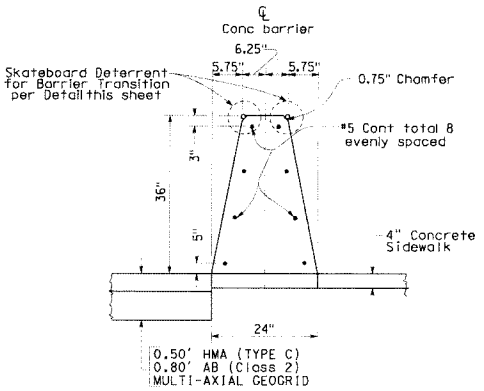
CONCRETE BARRIER TRANSITION TO CURB (TYPE A-8)

NOT TO SCALE

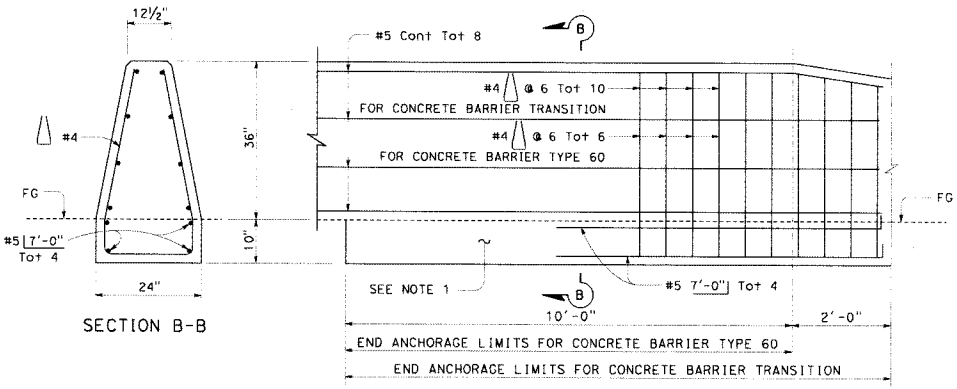


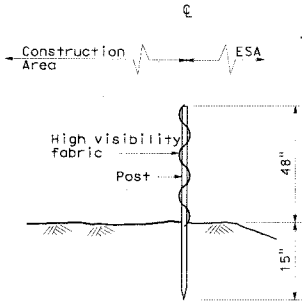
CONCRETE BARRIER TRANSITION (PLAN)

NOT TO SCALE

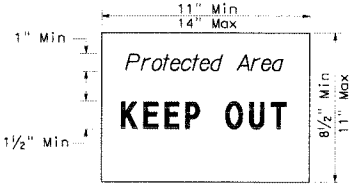


CONCRETE BARRIER TYPE 60





TEMPORARY FENCE (TYPE ESA)



ESA SIGN DETAIL

NOTE:

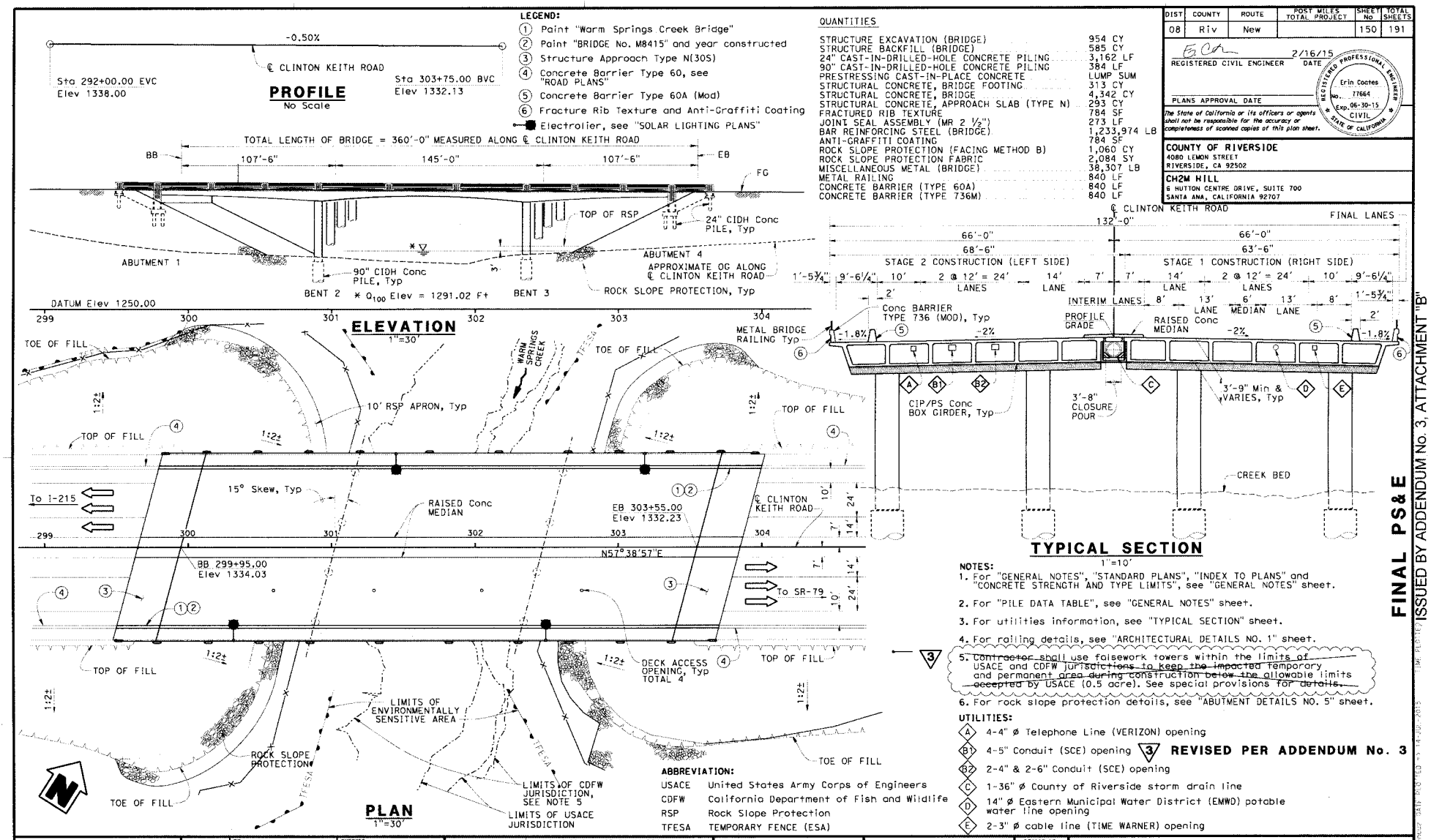
1. Footing monolithic or doweled with 2-#8 x 8" @ 2'-0". The footing is required at concrete barrier ends and at interruptions in concrete barrier.

CONCRETE BARRIER TYPE 60 AND CONCRETE BARRIER TRANSITION END ANCHORAGE

NOT TO SCALE

CH2MHILL ENGINEERING COMPANY	CONSTRUCTION DETAILS	SHEET
APPROVED BY: ALICIA L CANNON C 69168 06/30/16 — ALICIA L CANNON PROJECT MANAGER — APRIL 14, 2015 DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	39 OF 191
DESIGNED BY CO — DRAWN BY KF — CHECKED BY AC	PROJECT No. B2-0472 — ARCHIVE No. 962-W	

ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"



LEGEND:

1. Paint "Warm Springs Creek Bridge"
2. Paint "BRIDGE No. M8415" and year constructed
3. Structure Approach Type N(30S)
4. Concrete Barrier Type 60, see "ROAD PLANS"
5. Concrete Barrier Type 60A (Mod)
6. Fracture Rib Texture and Anti-Graffiti Coating

Electrolier, see "SOLAR LIGHTING PLANS"

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	954 CY
STRUCTURE BACKFILL (BRIDGE)	585 CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	3,162 LF
90" CAST-IN-DRILLED-HOLE CONCRETE PILING	384 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	313 CY
STRUCTURAL CONCRETE, BRIDGE	4,342 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	293 CY
FRACTURED RIB TEXTURE	784 SF
JOINT SEAL ASSEMBLY (MR 2 ½")	273 LF
BAR REINFORCING STEEL (BRIDGE)	1,233,974 LB
ANTI-GRAFFITI COATING	784 SF
ROCK SLOPE PROTECTION (FACING METHOD B)	1,060 CY
ROCK SLOPE PROTECTION FABRIC	2,084 SY
MISCELLANEOUS METAL (BRIDGE)	38,307 LB
METAL RAILING	840 LF
CONCRETE BARRIER (TYPE 60A)	840 LF
CONCRETE BARRIER (TYPE 736M)	840 LF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
08	Riv	New		150	191

REGISTERED CIVIL ENGINEER — DATE 2/16/15

Erin Coates No. 77664 Exp. 06-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

COUNTY OF RIVERSIDE
4080 LEMON STREET
RIVERSIDE, CA 92502

CH2M HILL
6 HUTTON CENTRE DRIVE, SUITE 700
SANTA ANA, CALIFORNIA 92707

ABBREVIATION:

USACE	United States Army Corps of Engineers
CDFW	California Department of Fish and Wildlife
RSP	Rock Slope Protection
TFESA	TEMPORARY FENCE (ESA)

NOTES:

1. For "GENERAL NOTES", "STANDARD PLANS", "INDEX TO PLANS" and "CONCRETE STRENGTH AND TYPE LIMITS", see "GENERAL NOTES" sheet.
2. For "PILE DATA TABLE", see "GENERAL NOTES" sheet.
3. For utilities information, see "TYPICAL SECTION" sheet.
4. For railing details, see "ARCHITECTURAL DETAILS NO. 1" sheet.
5. ~~Contractor shall use falsework towers within the limits of USACE and CDFW jurisdictions to keep the impacted temporary and permanent area during construction below the allowable limits accepted by USACE (0.5 acre). See special provisions for details.~~ (3)
6. For rock slope protection details, see "ABUTMENT DETAILS NO. 5" sheet.

UTILITIES:

- (A) 4-4" ø Telephone Line (VERIZON) opening
- (B1) 4-5" Conduit (SCE) opening (3) **REVISED PER ADDENDUM No. 3**
- (B2) 2-4" & 2-6" Conduit (SCE) opening
- (C) 1-36" ø County of Riverside storm drain line
- (D) 14" ø Eastern Municipal Water District (EMWD) potable water line opening
- (E) 2-3" ø cable line (TIME WARNER) opening

FINAL PS&E
ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"

DESIGN OVERSIGHT	DESIGN	BY E. Coates	CHECKED M. Atiquillah	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL-93 W/ LOW-BOY(S) PERMIT DESIGN VEHICLES	PREPARED FOR THE COUNTY OF RIVERSIDE DEPARTMENT OF TRANSPORTATION	Mohammed Atiquillah PROJECT ENGINEER
	DETAILS	BY N. Morales	CHECKED E. Coates	LAYOUT: BY E. Coates	CHECKED M. Atiquillah		
SIGN OFF DATE	QUANTITIES	BY K. Sherman	CHECKED A. Issa	SPECIFICATIONS: BY C. Quach	PLANS AND SPECS COMPARED M. Atiquillah		

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 03/14/12)

FOR REDUCED PLANS 0 1 2 3

UNIT: X
PROJECT NUMBER & PHASE: X
FILE => 15-01.dgn

BRIDGE NO. M8415
POST MILES

WARM SPRINGS CREEK BRIDGE
GENERAL PLAN

CONTRACT NO.: X

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
				1	39

962-W

HYDROLOGIC SUMMARY

Warm Springs Creek Drainage Area: 52 Square Miles				
	Design Flood	Base Flood	Overtopping Flood	Flood of record
Frequency (Years)	N/A	100	N/A	N/A
Discharge (Cubic ft/sec)	N/A	6600	N/A	N/A
Water surface (Elevation at Bridge)	N/A	1291.02	N/A	N/A

Flood plain data are based on information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

BENCH MARKS AND DATUM

POINT 1014

Set pk nail and Caltrans tag (washer) stamped "GPS 2002 RIV 79 PM R7.60" flush with pavement, located approximately on CL RIV 79 in the center of a double yellow striped island, 35 m south of Benton Rd. Photo designation 79-4-02 PM R7.60

Elevation = 1343.41 ft CCS coordinates
Northing: 2160099.27 Easting: 6295130.10

POINT 1006

Rebar & Cap "LS 4430 AE CP" located approximately 75 feet east of Los Alamos Road and approximately 50 feet south of Liberty Street.

Elevation = 1362.14 ft CCS coordinates
Northing: 2162502.78 Easting: 6291648.21

Horizontal Datum: State Plane Coordinate 1983, Zone 6 (English)
Vertical Datum: NAVD-88

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL
08	Riv	New		153	191

REGISTERED CIVIL ENGINEER — DATE 2/16/15

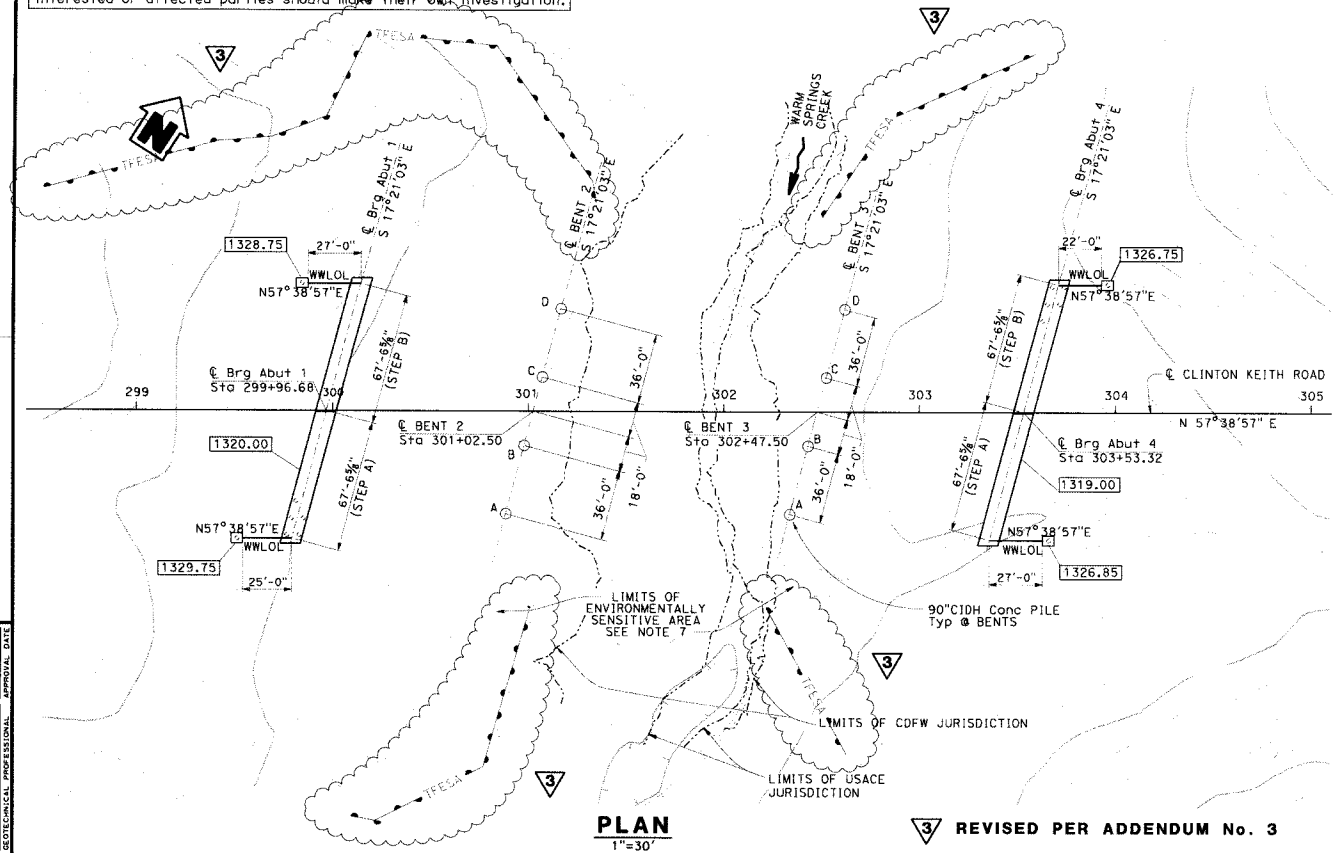
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

Erin Coates No. 77564 Exp. 06-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
4080 LEMON STREET
RIVERSIDE, CA 92502

CH2M HILL
6 HUTTON CENTRE DRIVE, SUITE 700
SANTA ANA, CALIFORNIA 92707

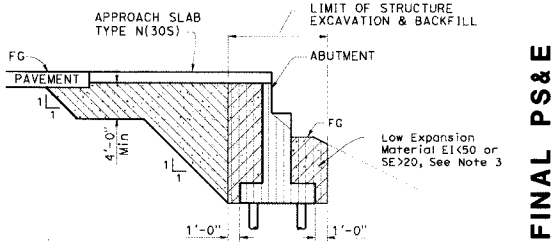


PLAN
1"=30'

3 REVISED PER ADDENDUM No. 3

NOTES:

1. All piles not shown for clarity.
2. Contractor shall verify and protect all existing and proposed utility lines during construction.
3. Structure Backfill (Bridge) shall have an expansion index to be determined by ASTM D4829 low expansion material shall be EI<50 or SE>20.
4. For new utility locations and details, see "ROAD PLANS".
5. For Limits of Payment for Excavation and Backfill at the Bents, see "BENT DETAILS NO. 2" sheet.
6. For roadway embankment details, see "ROAD PLANS".
7. ~~Contractor~~ shall use falsework towers within ~~the limits~~ of USACE and CDFW jurisdictions to keep the impacted temporary and permanent area during construction below the allowable limits accepted by USACE (0.5 acre). See special provisions for details.
8. For "PILE DATA TABLE", see "GENERAL NOTES" sheet.



LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION (BRIDGE) AND STRUCTURE BACKFILL (BRIDGE)

NO SCALE

LEGEND:

- XXXX.XX = Indicates bottom of footing elevation
- = Indicates 24" CIDH Piles.
- = Indicates 90" CIDH Piles.
- = Structure Backfill (Bridge)
- = Structure Excavation (Bridge)
- = Roadway Embankment, see "Road Plans"
- = Low Expansion Material EI<50 or SE>20

FINAL PS&E
ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"

GEOTECHNICAL PROFESSIONAL APPROVAL DATE

DESIGN OVERSIGHT
SIGN OFF DATE

SCALE: AS SHOWN | VERT.DATUM NAVD88 | HORZ.DATUM NAD83
PHOTOGRAMMETRY AS OF: X | ALIGNMENT TIES X
SURVEYED BY M. Wilson | DRAFTED BY D. Fowlkes
FIELD CHECKED BY J. Elliot | CHECKED BY P. Rivers

DESIGN BY E. Coates | CHECKED M. Atiquilah
DETAILS BY N. Morales | CHECKED E. Coates
QUANTITIES BY K. Sherman | CHECKED A. Issa

PREPARED FOR THE COUNTY OF RIVERSIDE DEPARTMENT OF TRANSPORTATION

Mohammed Atiquilah
PROJECT ENGINEER

BRIDGE NO. M8415
POST MILES

WARM SPRINGS CREEK BRIDGE
FOUNDATION PLAN

FOUNDATION PLAN SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: X
PROJECT NUMBER & PHASE: X
CONTRACT NO.:
FILE => 15-04.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

SHEET	TOTAL
4	39

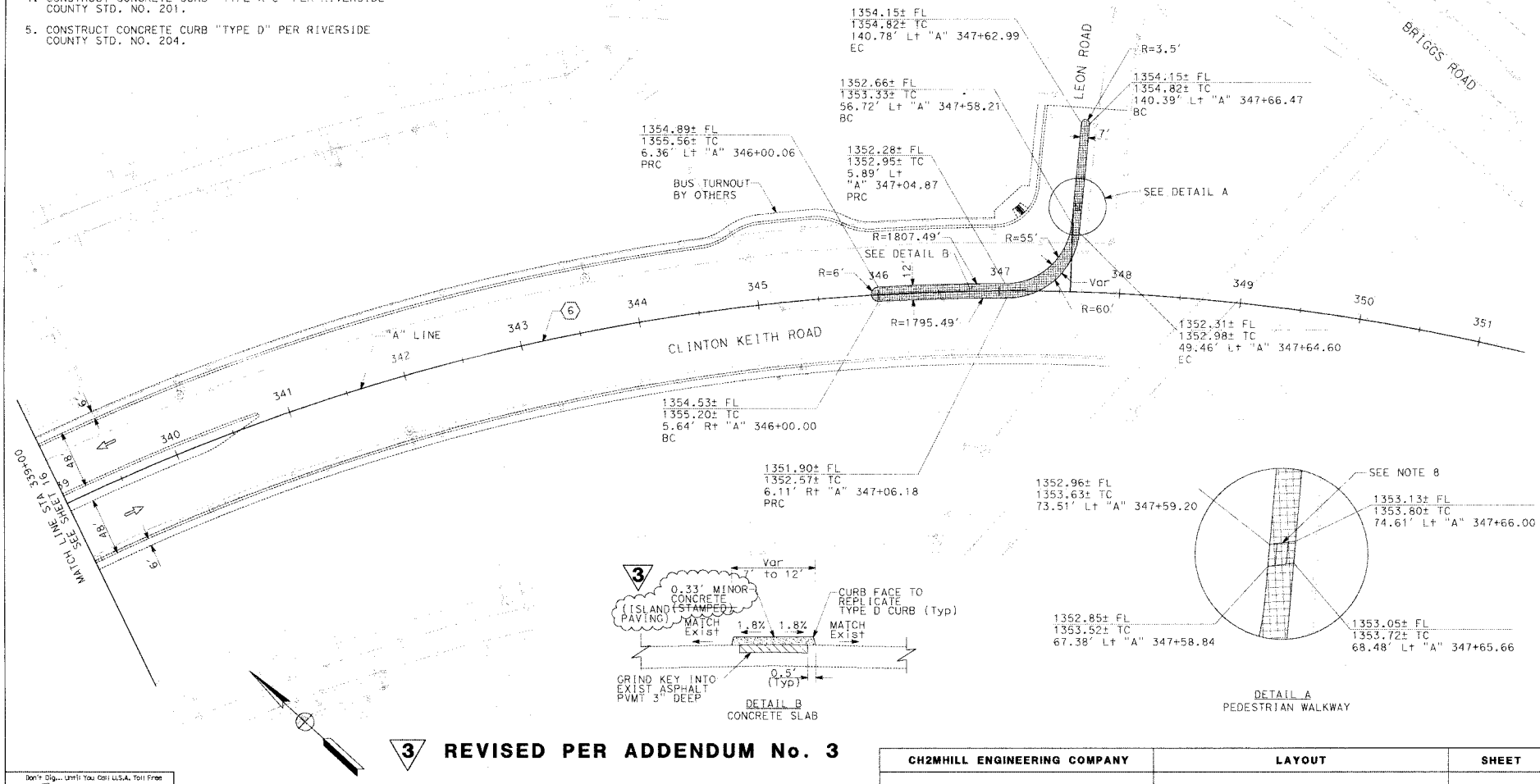
962-W

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORDS MAPS AT COUNTY OFFICE
2. CONSTRUCT CONCRETE ACCESS RAMP PER RIVERSIDE COUNTY STD. NO. 403.
3. CONSTRUCT CONCRETE DRIVEWAY PER RIVERSIDE COUNTY STD. NO. 207.
4. CONSTRUCT CONCRETE CURB "TYPE A-8" PER RIVERSIDE COUNTY STD. NO. 201.
5. CONSTRUCT CONCRETE CURB "TYPE D" PER RIVERSIDE COUNTY STD. NO. 204.
6. FOR LOCATION OF DRAINAGE SWALES AND DITCHES, SEE DRAINAGE PLANS.
7. FOR TYPE AND LOCATION OF FENCE, SEE FENCE PLANS.
8. CONSTRUCT TYPE A PASSAGEWAY PER CALTRANS STD PLAN A88B.
9. CONSTRUCT SIDEWALK PER RIVERSIDE COUNTY STD. NO. 400.

CURVE DATA

No.	R	Δ	T	L
6	1800.00	86°38'55"	1697.68	2722.15



DETAIL B
CONCRETE SLAB

DETAIL A
PEDESTRIAN WALKWAY

3 REVISED PER ADDENDUM No. 3

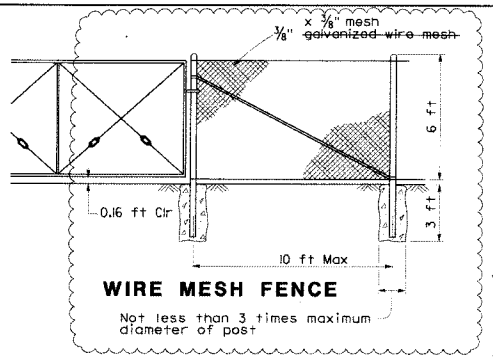
SCALE: 1" = 40' HOR

Don't Dig... Until You Call U.S.A. Toll Free 800-227-2600 for the location of buried entity lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

CH2MHILL ENGINEERING COMPANY	LAYOUT	SHEET
APPROVED BY: Alicia L Cannon APRIL 14, 2015 ALICIA L CANNON PROJECT MANAGER DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	17 of 195
DESIGNED BY CQ / DRAWN BY KF / CHECKED BY AC		

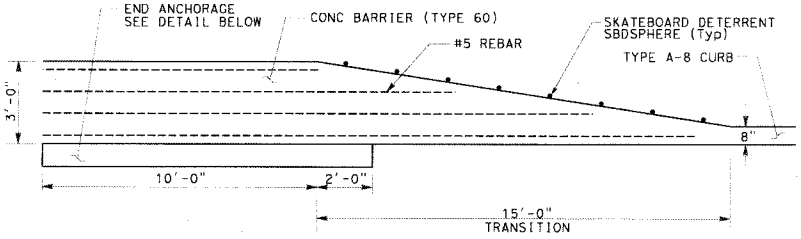
PROJECT No. 82-0472 ARCHIVE No. 962-W

ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"



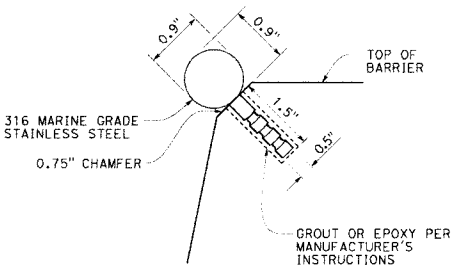
WIRE MESH FENCE

Not less than 3 times maximum diameter of post

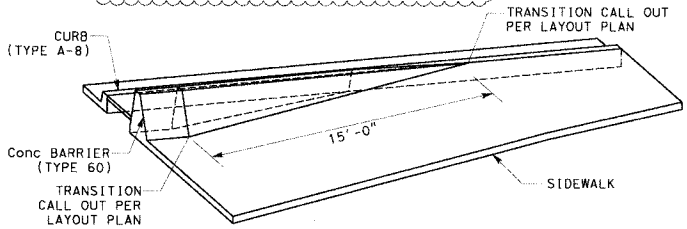


CONCRETE BARRIER TRANSITION DETAIL (ELEVATION)

NOT TO SCALE



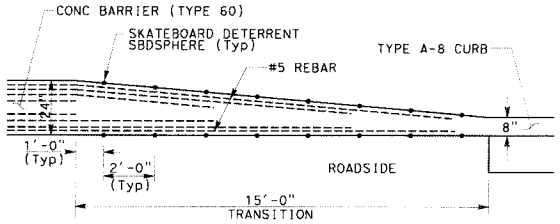
SKATE BOARD DETERRENT SBDSPHERE FOR BARRIER TRANSITION



CONCRETE BARRIER TRANSITION TO CURB (TYPE A-8)

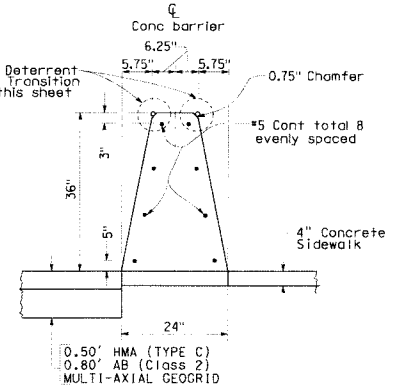
NOT TO SCALE

3 REVISED PER ADDENDUM No. 3

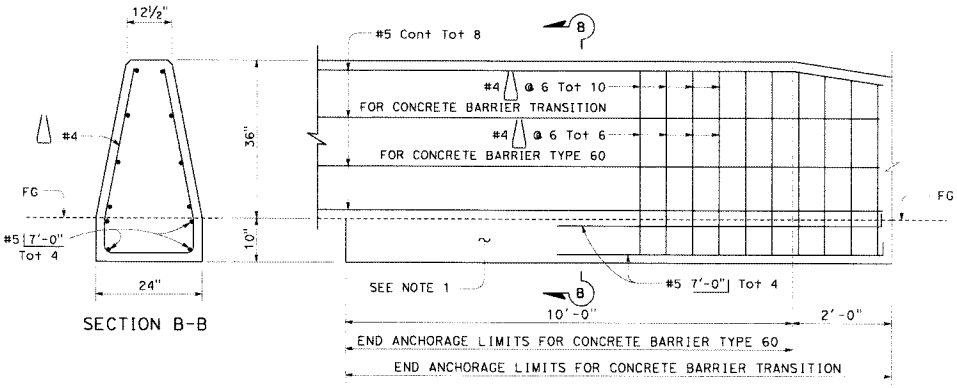


CONCRETE BARRIER TRANSITION (PLAN)

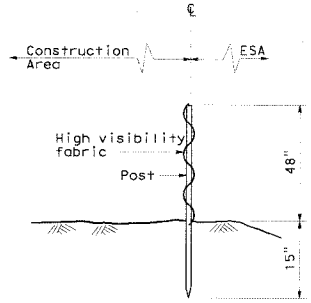
NOT TO SCALE



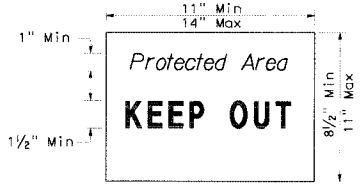
CONCRETE BARRIER TYPE 60



SECTION B-B



TEMPORARY FENCE (TYPE ESA)



ESA SIGN DETAIL

NOTE:

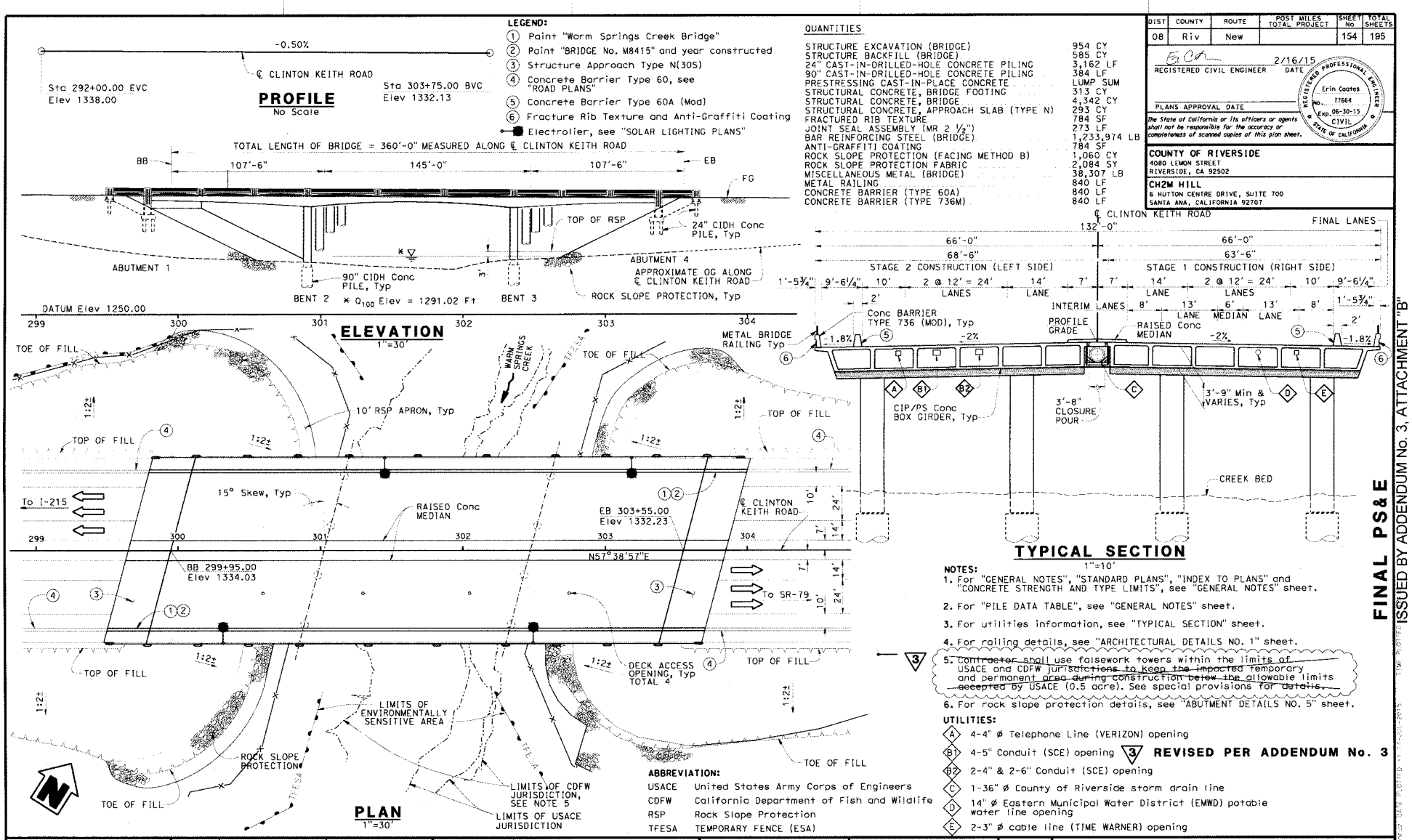
1. Footing monolithic or doweled with 2-#8 x 8" @ 2'-0". The footing is required at concrete barrier ends and at interruptions in concrete barrier.

CONCRETE BARRIER TYPE 60 AND CONCRETE BARRIER TRANSITION END ANCHORAGE

NOT TO SCALE

CH2MHILL ENGINEERING COMPANY	CONSTRUCTION DETAILS	SHEET
APPROVED BY: ALICIA L CANNON C 69168 06/30/16 — ALICIA L CANNON PROJECT MANAGER — APRIL 14, 2015 DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	41 of 195
DESIGNED BY: CG — DRAWN BY: KF — CHECKED BY: AC	PROJECT No. B2-0472 — ARCHIVE No.	962-W

ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"


-0.50%
℄ CLINTON KEITH ROAD
Sta 292+00.00 EVC
Elev 1338.00
PROFILE
No Scale
Sta 303+75.00 BVC
Elev 1332.13
LEGEND:
1 Paint "Warm Springs Creek Bridge"
2 Paint "BRIDGE No. M8415" and year constructed
3 Structure Approach Type N(30S)
4 Concrete Barrier Type 60, see "ROAD PLANS"
5 Concrete Barrier Type 60A (Mod)
6 Fracture Rib Texture and Anti-Graffiti Coating
Electrolier, see "SOLAR LIGHTING PLANS"
TOTAL LENGTH OF BRIDGE = 360'-0" MEASURED ALONG ℄ CLINTON KEITH ROAD
BB
107'-6"
145'-0"
107'-6"
EB
FG
TOP OF RSP
24" CIDH Conc PILE, Typ
ABUTMENT 1
ABUTMENT 4
APPROXIMATE OG ALONG ℄ CLINTON KEITH ROAD
90" CIDH Conc PILE, Typ
BENT 2
* Q100 Elev = 1291.02 Ft
BENT 3
ROCK SLOPE PROTECTION, Typ
DATUM Elev 1250.00
ELEVATION
1"=30'
TOE OF FILL
METAL BRIDGE RAILING Typ
WARM SPRINGS CREEK
TFESA
10' RSP APRON, Typ
1:2±
TOP OF FILL
15° Skew, Typ
RAISED Conc MEDIAN
EB 303+55.00
Elev 1332.23
℄ CLINTON KEITH ROAD
To I-215
To SR-79
BB 299+95.00
Elev 1334.03
N57°38'57"E
DECK ACCESS OPENING, Typ TOTAL 4
LIMITS OF ENVIRONMENTALLY SENSITIVE AREA
ROCK SLOPE PROTECTION
LIMITS OF CDFW JURISDICTION, SEE NOTE 5
LIMITS OF USACE JURISDICTION
PLAN
1"=30'
℄ CLINTON KEITH ROAD
FINAL LANES
132'-0"
66'-0"
66'-0"
68'-6"
63'-6"
STAGE 2 CONSTRUCTION (LEFT SIDE)
STAGE 1 CONSTRUCTION (RIGHT SIDE)
1'-5¾"
9'-6¼"
10'
2 @ 12' = 24'
14'
7'
7'
14'
2 @ 12' = 24'
10'
9'-6¼"
1'-5¾"
LANES
LANE
INTERIM LANES
LANE
8'
13'
MEDIAN
6'
13'
LANE
8'
2'
Conc BARRIER TYPE 736 (MOD), Typ
PROFILE GRADE
RAISED Conc MEDIAN
-1.8%
-2%
-2%
-1.8%
CIP/PS Conc BOX GIRDER, Typ
3'-8" CLOSURE POUR
3'-9" Min & VARIES, Typ
CREEK BED
TYPICAL SECTION
1"=10'
NOTES:
1. For "GENERAL NOTES", "STANDARD PLANS", "INDEX TO PLANS" and "CONCRETE STRENGTH AND TYPE LIMITS", see "GENERAL NOTES" sheet.
2. For "PILE DATA TABLE", see "GENERAL NOTES" sheet.
3. For utilities information, see "TYPICAL SECTION" sheet.
4. For railing details, see "ARCHITECTURAL DETAILS NO. 1" sheet.
5. Contractor shall use falsework towers within the limits of USACE and CDFW jurisdictions to keep the impacted temporary and permanent area during construction below the allowable limits accepted by USACE (0.5 acre). See special provisions for details.
6. For rock slope protection details, see "ABUTMENT DETAILS NO. 5" sheet.
UTILITIES:
A 4-4" ø Telephone Line (VERIZON) opening
B1 4-5" Conduit (SCE) opening 3 REVISED PER ADDENDUM No. 3
B2 2-4" & 2-6" Conduit (SCE) opening
C 1-36" ø County of Riverside storm drain line
D 14" ø Eastern Municipal Water District (EMWD) potable water line opening
E 2-3" ø cable line (TIME WARNER) opening
ABBREVIATION:
USACE United States Army Corps of Engineers
CDFW California Department of Fish and Wildlife
RSP Rock Slope Protection
TFESA TEMPORARY FENCE (ESA)
QUANTITIES
STRUCTURE EXCAVATION (BRIDGE) 954 CY
STRUCTURE BACKFILL (BRIDGE) 585 CY
24" CAST-IN-DRILLED-HOLE CONCRETE PILING 3,162 LF
90" CAST-IN-DRILLED-HOLE CONCRETE PILING 384 LF
PRESTRESSING CAST-IN-PLACE CONCRETE LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING 313 CY
STRUCTURAL CONCRETE, BRIDGE 4,342 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N) 293 CY
FRACTURED RIB TEXTURE 784 SF
JOINT SEAL ASSEMBLY (MR 2 ½") 273 LF
BAR REINFORCING STEEL (BRIDGE) 1,233,974 LB
ANTI-GRAFFITI COATING 784 SF
ROCK SLOPE PROTECTION (FACING METHOD B) 1,060 CY
ROCK SLOPE PROTECTION FABRIC 2,084 SY
MISCELLANEOUS METAL (BRIDGE) 38,307 LB
METAL RAILING 840 LF
CONCRETE BARRIER (TYPE 60A) 840 LF
CONCRETE BARRIER (TYPE 736M) 840 LF
DIST 08
COUNTY Riv
ROUTE New
POST MILES TOTAL PROJECT
SHEET NO 154
TOTAL SHEETS 195
REGISTERED CIVIL ENGINEER
2/16/15
DATE
Erin Coates
No. 77664
Exp. 06-30-15
CIVIL
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.
COUNTY OF RIVERSIDE
4080 LEMON STREET
RIVERSIDE, CA 92502
CH2M HILL
6 HUTTON CENTRE DRIVE, SUITE 700
SANTA ANA, CALIFORNIA 92707
FINAL PS&E
ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"
DESIGN OVERSIGHT
SIGN OFF DATE
DESIGN BY E. Coates CHECKED M. Atiquillah
DETAILS BY N. Morales CHECKED E. Coates
QUANTITIES BY K. Sherman CHECKED A. Issa
LOAD & RESISTANCE FACTOR DESIGN LIVE LOADING: HL93 MVW-80KIP PERMIT DESIGN VEHICLE
LAYOUT BY E. Coates CHECKED M. Atiquillah
SPECIFICATIONS BY C. Quach PLANS AND SPECS COMPARED M. Atiquillah
PREPARED FOR THE COUNTY OF RIVERSIDE DEPARTMENT OF TRANSPORTATION
Mohammed Atiquillah
PROJECT ENGINEER
BRIDGE NO. M8415
POST MILES
WARM SPRINGS CREEK BRIDGE
GENERAL PLAN
DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 03/14/12)
FOR REDUCED PLANS
0 1 2 3
UNIT: X
PROJECT NUMBER & PHASE: X
FILE => 15-01.dgn
CONTRACT NO.: X
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES
SHEET 1 OF 39
962-W

HYDROLOGIC SUMMARY

Warm Springs Creek
Drainage Area: 52 Square Miles

	Design Flood	Base Flood	Overtopping Flood	Flood of record
Frequency (Years)	N/A	100	N/A	N/A
Discharge (Cubic ft/sec)	N/A	6600	N/A	N/A
Water surface (Elevation at Bridge)	N/A	1291.02	N/A	N/A

Flood plain data are based on information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

BENCH MARKS AND DATUM

POINT 1014

Set pk nail and Caltrans tag (washer) stamped "GPS 2002 RIV 79 PM R7.60" flush with pavement, located approximately on CL RIV 79 in the center of a double yellow striped island, 35 m south of Benton Rd. Photo designation 79-4-02 PM R7.60

Elevation = 1343.41 ft CCS coordinates
Northing: 2160099.27 Easting: 6295130.10

POINT 1006

Rebar & Cap "LS 4430 AE CP" located approximately 75 feet east of Los Alamos Road and approximately 50 feet south of Liberty Street.

Elevation = 1362.14 ft CCS coordinates
Northing: 2162502.78 Easting: 6291648.21

Horizontal Datum: State Plane Coordinate 1983, Zone 6 (English)
Vertical Datum: NAVD-88

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL
08	Riv	New		157	195

REGISTERED CIVIL ENGINEER — DATE 2/16/15

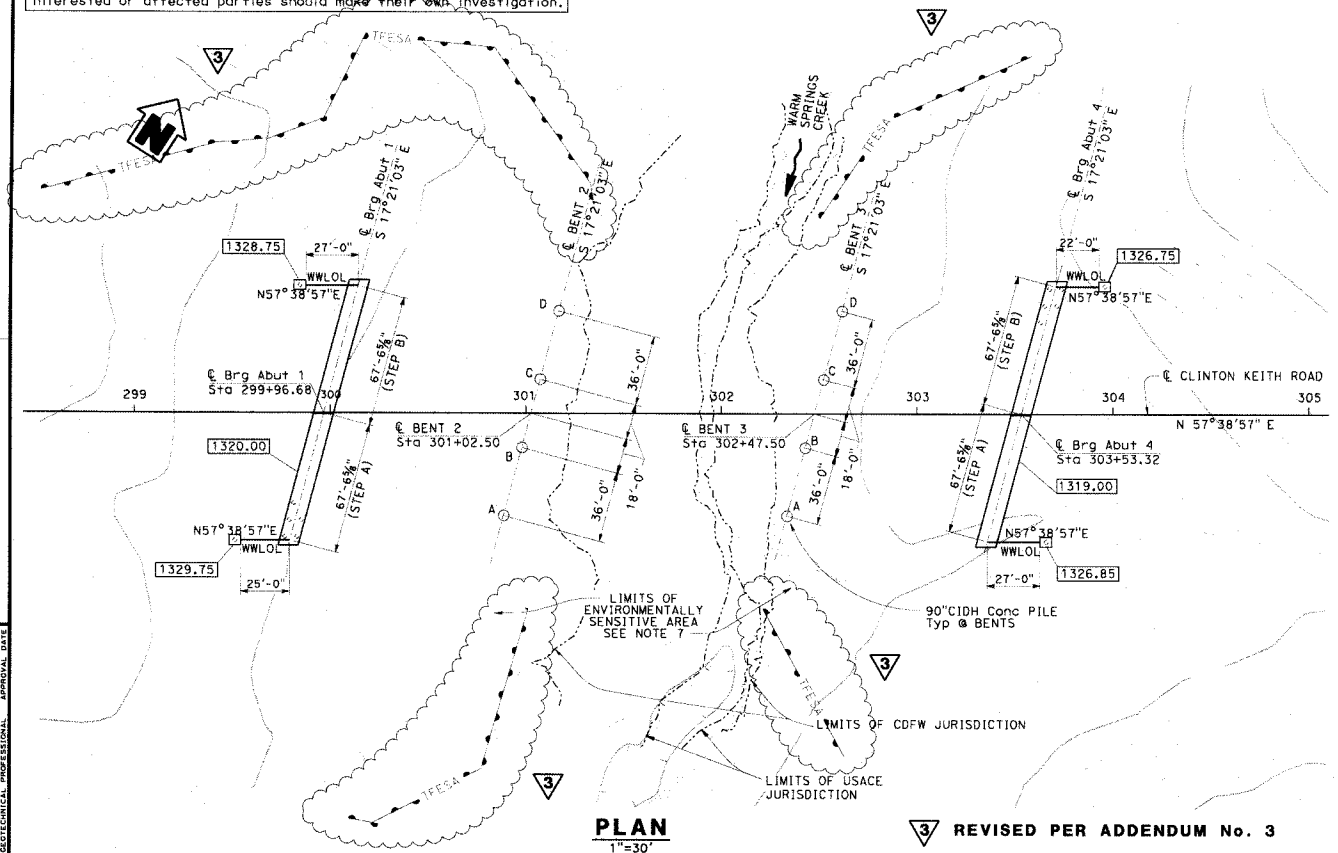
PLANS APPROVAL DATE

Erin Coates No. 77664 Exp. 06-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

COUNTY OF RIVERSIDE
4080 LEMON STREET
RIVERSIDE, CA 92502

CH2M HILL
6 HUTTON CENTRE DRIVE, SUITE 700
SANTA ANA, CALIFORNIA 92707

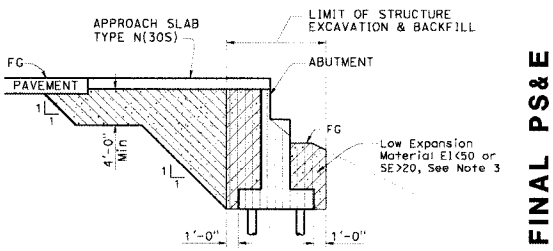


PLAN
1"=30'

3 REVISED PER ADDENDUM No. 3

NOTES:

1. All piles not shown for clarity.
2. Contractor shall verify and protect all existing and proposed utility lines during construction.
3. Structure Backfill (Bridge) shall have an expansion index to be determined by ASTM D4829 low expansion material shall be EI<50 or SE>20.
4. For new utility locations and details, see "ROAD PLANS".
5. For Limits of Payment for Excavation and Backfill at the Bents, see "BENT DETAILS NO. 2" sheet.
6. For roadway embankment details, see "ROAD PLANS".
7. ~~Contractor shall use falsework towers within the limits of USACE and CDFW jurisdictions to keep the impacted temporary and permanent area during construction below the allowable limits accepted by USACE (0.5 acre).~~ See special provisions for details.
8. For "PILE DATA TABLE", see "GENERAL NOTES" sheet.



LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION (BRIDGE) AND STRUCTURE BACKFILL (BRIDGE)

NO SCALE

LEGEND:

- XXXX.XX = Indicates bottom of footing elevation
- = Indicates 24" CIDH Piles.
- = Indicates 90" CIDH Piles.
- = Structure Backfill (Bridge)
- = Structure Excavation (Bridge)
- = Roadway Embankment, see "Road Plans"
- = Low Expansion Material EI<50 or SE>20

FINAL PS&E ISSUED BY ADDENDUM No. 3, ATTACHMENT "B"

GEOTECHNICAL PROFESSIONAL APPROVAL DATE

DESIGN OVERSIGHT	SCALE: AS SHOWN	VERT.DATUM NAVD88	HORZ.DATUM NAD83	DESIGN	E. Coates	M. Atiquilah	PREPARED FOR THE COUNTY OF RIVERSIDE DEPARTMENT OF TRANSPORTATION
	PHOTOGRAMMETRY AS OF: X	ALIGNMENT TIES X		DETAILS	N. Morales	E. Coates	
SIGN OFF DATE	SURVEYED BY M. Wilson	DRAFTED BY D. Fowlkes		QUANTITIES	K. Sherman	A. Issa	
	FIELD CHECKED BY J. Elliot	CHECKED BY P. Rivera					

Mohammed Atiquilah, PROJECT ENGINEER

BRIDGE NO. M8415 — POST MILES

WARM SPRINGS CREEK BRIDGE
FOUNDATION PLAN

FOUNDATION PLAN SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: X
PROJECT NUMBER & PHASE: X
CONTRACT NO.:
FILE => 15-04.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
				4	39

962-W

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

ATTACHMENT "C" 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://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

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.

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

Refer to Addendum No. 1 for Questions and Responses 1 through 15

CONTRACTOR QUESTIONS AND RESPONSES		
16	Question	On bid item No. 77 - Bar Reinforcing Steel (Retaining Wall), our take off quantity is substantially higher than the 59,816 lbs. found on the bid items list. Please review and confirm the quantity.
	Response	A double check of this quantity was performed and we confirm the quantity of 59,816 lbs. for this item. This quantity only accounts for the bar reinforcing steel for Retaining Wall 290.
17	Question	It appears as though the quantity for Retaining Wall 290 is approximately 90 CY short of the amount actually needed. Please review this volume and modify if necessary. I am referring to RW 290 where the value given in bid item No. 67 is given as 530 CY. I believe that this value should be approximately 620 CY. If I am correct this increase would be carried over into bid item 201 as well.
	Response	See Addendum No. 3, Revised Proposal, for updated quantities.
18	Question	Addendum 1 added 3 test panels with colored concrete, and plan notes indicate the color is to be determined. Should the County want to utilize colored concrete for the walls, how will this be paid?
	Response	See Addendum No. 3, Special Provisions section 51-1.04 has been edited, integrating color is included in payment of fractured basalt texture.
19	Question	Reference Item No. 8 of Addendum 1, which requires the use of a Mini-SID to inspect the shaft bottoms. a. Please provide criteria for acceptance or rejection of the shaft bottom cleanliness. b. Please confirm that the Mini-SID is only required for shafts designed with end bearing, utilizing slurry for shaft stabilization during construction, and that the Mini-SID is not required for dry shafts.
	Response	a) Refer to the following Caltrans Standard Specifications for additional information regarding shaft bottom cleanliness: 49-3.02 Cast In Drilled Hole Concrete Piling, Pile Installation Plan, Item 6 Methods and equipment for verifying the bottom of the drilled hole is clean before placing concrete Drilled Holes. 49-3.02C(2) -6th paragraph After placing reinforcement and before placing concrete in the hole, if caving occurs or deteriorated foundation material accumulates on the bottom of the hole, clean the bottom of the hole. You must verify that the bottom of the hole is clean. Placing concrete under slurry 49-3.02C(8) - 2nd paragraph After placing reinforcement and before placing concrete in the drilled hole, if drill cuttings settle out of the slurry, clean the bottom of the drilled hole. Verify that the bottom of the drilled hole is clean. b) The use of Mini-SID is required for shafts designed with end bearing, regardless if constructed with or without slurry (wet or dry) is required. Therefore, all piles at the Warm Springs Creek Bridge abutments and bents will require Mini-SID inspection.
20	Question	What water agency will be able to supply the construction water?
	Response	Per Item #39 and Item #174, contractor is to Develop the Water Supply. Refer to standard specification 17-2. Coordination with Eastern Municipal Water District may be required.
21	Question	Where in the bid documents is detailed information on exactly where the existing rock is that requires blasting?
	Response	The Geotechnical Design Report is available as a Supplemental item on Riverside County's website. This specifies at what depth rock may be encountered and blasting may be required.

22	Question	The Specs states Geo-Soils performed a rock hardness report for an area close to this job, and states the rock encountered on this job would be similar. Where is this report?
	Response	Geotechnical Design Report and other supplemental project information are available for inspection at County of Riverside Transportation Department Website during the advertisement period. URL: http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids
23	Question	There is no pay item for PCC Bus Turn-out in the bid items list. How is PCC Bus Turn-Out paid?
	Response	Portland Cement Concrete (PCC) of the bus turn out is paid out in Items #61 and #195.
24	Question	Concrete Paver (Turf stone) Plans refer to ORCO Spec. Where can I find this spec?
	Response	Contact information is shown in section 20-16.02 of the Special Provisions. Additional information is available at manufacturer website: http://orcopaverswalls.com/listFiles.aspx?ID=6&q=TechSpecs&section=Paver
25	Question	The temporary ESA delineation is different between the Bridge Plans and Layout Plans. Is the contractor allowed to access the east side of the project (Stations 304+00 to 326+00) by way of Warm Springs Creek?
	Response	See Addendum No. 3, Revised Plan Sheets. Yes, the Contractor is allowed to access the east side by way of Warm Springs Creek.
26	Question	Where are the down drains / Terrace Drains to be paid?
	Response	See Addendum No. 3, Revised Proposal, an item for payment of down drains has been added to the bid items list as 18" Entrance Taper. See Addendum No. 3. Section 51-7.01D has been edited. The terrace drains are paid for under Minor Concrete (Minor Structure).
27	Question	Where are the Brick/Mortar plugs to be paid?
	Response	See Addendum No. 3. Special Provisions section 70-5.01A has been edited to indicate brick and mortar plugs as part of drainage appurtenances, and are included in the various items of work involved, as directed in Section 70-5.01D of the Caltrans Standard Specifications.
28	Question	Are there any Summary of Quantity Plan Sheets available as are typical with most projects of this magnitude?
	Response	No
29	Question	See Section 00-1.22 Paragraph 5 stating No detours will be provided, unless specifically allowed herein. The Contractor will be required to conduct his operations in such a manner that traffic will be permitted to pass through the work area with as little delay as possible.
	Response	See plan sheets 104 of 191 and 106 of 195. A detour plan is included in the set of plans. The detour plan shows closure of Clinton Keith Road during construction from Whitewood to Los Alamos, but the north south access along Menifee Road must remain open to local residents at all times.
30	Question	See Section 12-2.04 Payment. Who is responsible for project funding sign?
	Response	See Addendum No. 3. Special Provisions section 12-2 has been edited, Project Funding Sign is included with the Payment of Construction Area signs.

31	Question	See Bid Schedule Item 234 Minor Concrete Ditch Lining 9CY. Where is this item in 2-Lane Option? Does the Concrete Swale, Down Drain, and Terrace Drain get paid for under this item?
	Response	Minor Concrete Ditch Lining is for the concrete swale in the 4-lane design at Trois Valley Street. This doesn't apply to the 2-lane design. The down drain has been added to the estimate as 18" Entrance Taper in Addendum No. 3. Down drains are covered under section 69, Overside Drains, of the Caltrans Standard Specifictaions. The terrace drain is paid for under Minor Concrete (Minor Structure).
32	Question	See Add to Section 19-3.03B(1). This specification indicates top down construction, this is not consistent with the wall and footing design as shown on plans. Please clarify if the intent is to excavate this entire wall in vertical fashion; if so, please confirm the spread footing design.
	Response	The wall and spread footing are indeed intended to be cast-in-place as two complete elements. Top down construction does not apply to this structure. The intent is to excavate the entire wall in vertical fashion, with the contractor providing the means and method of temporary shoring, if deemed necessary, which could consist of a top down construction method.
33	Question	See Section 19-4.03 Construction. The portion of the specification on Pre-Splitting is not consistent with this type of formation. Please revise the blasting specification accordingly. Please clarify 19-4.04 Payment.
	Response	Pre-splitting would be applicable in some instances. It is a blasting technique that creates relatively smooth blasted surfaces on rock faces. It is understood that the rock at the project is highly weathered and fractured near the surface and may not react well or require this type of blasting. However, the relatively unweathered granite at greater depths, if encountered, could benefit from pre-splitting.
34	Question	See Section 19-6.03C(3) Definition. Please confirm Oversize Material is rock greater than 12".
	Response	Yes, oversized material is rock or other irreducible material greater than 12"
35	Question	See Section 19-6.03C(4) Placing and Compacting. What specific locations will oversize rock be allowed or not allowed in embankments? It is advantageous for the contractor to know where it can be placed, there's big difference in cost between hauling offsite and placing onsite. In order to maximize the amount of oversize rock disposal onsite, please consider reducing the vertical limits to 5ft and horizontal limits to equipment width wide.
	Response	Rock larger than 12 inches in greatest dimension is not permitted within 150 feet of bridge abutments at any depth (Refer to Section 19-5.03B, Relative Compaction (95) Percent, of the Caltrans Standard Specifications). Rock larger than 12 inches in greatest dimension (oversize rock) is only permitted within roadway embankments beyond 150 feet from bridge abutments, and should not be placed within 10 feet vertically of finished grade or within 20 feet horizontally of slope faces. These distances are required to promote proper compaction near slope faces, and to provide enough vertical depth for potential future installation of utilities.

36	Question	Re: 24" & 90" CIDH Piling, Pile Inspection Testing Reference the Warm Springs Creek Bridge Bent Details No. 2 sheet. The Legend indicates that the 2" ID Inspection tubes are for Cross-Hole Sonic (CSL) Testing, denoted with a triangle at each location. Reference the Warm Springs Creek Bridge Abutment Details No. 5 Sheet. The pile inspection tubes are called out as 2" ID Inspection tubes, denoted with a circle at each location. The project special provisions do not provide requirements or criteria for CIDH Pile inspection testing. Section 49-3.02A(4)(d)(ii) of the 2010 Caltrans Standard Specifications requires 2" Sch. 40 PVC inspection tubes for inspection testing. Section 49-3.02A(4)(d)(iii) of the 2010 Caltrans Standard Specifications requires that Gamma-Gamma Logging (GGL) shall be performed in the inspection tubes in compliance with CTM 233 at the Owner's Expense. If CSL is required, PVC will de-bond from the concrete over a short period of time due to the heat of hydration, causing a portion of the pile to not be recognized by the test. Typically, CSL is performed in 2" Sch. 40 steel pipes to help prevent debonding. Therefore, please confirm or provide clarification on the following: -That all inspection tubes shall be 2" Sch. 40 PVC -That CSL is not required at Bent 2 & 3, and GGL shall be performed at all piles built under "wet" conditions -That all piles constructed under "wet" conditions shall be tested with Gamma-Gamma Logging at the expense of the Owner -If CSL testing is required at Bent 2 & 3, confirm that GGL will not be required at Bent 2 & 3, and that the inspection tubes at Bent 2 & 3 shall be 2" Sch. 40 Steel Pipe.
	Response	All 2" inspection tubes for the abutments and bents shall be SCH 40 PVC. GGL testing shall be performed at all abutment and bent shafts constructed under "wet" conditions. No GGL testing is required for shafts constructed under "dry" conditions. No CSL testing is required at any location. GGL testing is to be performed at the Contractor's expense.
37	Question	As you know there are concerns about the practical construction of Retaining Wall 290; some of them are as follows: The specifications describe using a ten foot vertical cut and building the wall off of this temporary cut. This type of cut is an OSHA violation and most soils will not even stand for any period of time with a vertical face. It appears as though the wall is designed to minimize the disturbance of an archaeologically sensitive area. This might better be accomplished using a soldier pile wall with an aesthetic fascia or a tieback wall with an aesthetic fascia. Either one of these options would minimize the disturbance of the existing materials behind the face of the wall. Please review the current design with consideration to how it may safely be built as well as how the proposed system including the footing may be installed with constraints that are safe. With review you may find is best to change the type of wall to build at this location.
	Response	Based on our knowledge of the subsurface conditions, and as discussed in Section 11.6 Excavation for RW 290 of the Geotechnical Design Report, the excavation for the wall will take place in bedrock that will range from highly weathered granite at the ground surface to relatively intact granite at the bottom of the excavation. It is anticipated that a vertical cut of 10 feet will be achievable with little or no temporary shoring required. As such, the wall is expected to be constructable.

38	Question	Please define exactly what type of material would be paid under the rock blasting item. Is this just for blasted material, or for blasted material and ripabble rock?
	Response	Per the Geotechnical Report, Section 8.2.2 Rippability, this describes the types of materials that may be rippable or would require rock excavation.
39	Question	Sheet 54 of Addendum #1 plans has a note that states trees in Warm Springs Creek can only be topped, and not removed? At the Mandatory meeting, the County stated the contractor would be allowed to cross through the Creek with earth moving equipment. Tree removal would be required to create a crossing. Can the County issue a clarification as to what is allowed?
	Response	Trees are to be topped, and can be topped down to the stump, but the root ball of the tree cannot be removed.
40	Question	Can the County consider requiring only the 4 lane option to be reported on the bid proposal subcontractor sheet? Or as commonly required, allow 24 hours after bid to submit all this information?
	Response	No, Subcontractors List must be provided and shall include subcontractors for both design options. However, information related to the percentage of subcontracted work may be submitted within 24 hours after the bid is due. See Addendum No. 3 for clarification made on this subject.
41	Question	The quantity listed for Item No. 217, 18" Reinforced Concrete Pipe (Class IV), (originally 1,207 LF changed to 1,263 by Addendum No 1) appears to be in error. We are able to find only 1,077 LF - 970 LF in the drainage profiles and 27 EA 4 FT stubs for the GLD Connection Details A and B. Can you provide the location of the additional 186 LF?
	Response	See Addendum No. 3, Revised Proposal, for updated quantity of Item 217, 18" Reinforced Concrete Pipe (Class IV).
42	Question	We cannot find the details for Item 247, Wrought Iron Fence – 205 LF. What is the detailed drawing for the Wrought Iron Fence (Sheet 101 4-lane option)?
	Response	See Addendum No. 3. Special Provisions section 80-10.03 has been revised to indicate that the contractor is to submit shop drawings to match adjacent existing wrought iron fence.
43	Question	The callout for temporary fence (Type CL-6) is the same type as the permanent fence in the fence plans (Sheets 92-100 2-lane option & Sheet 94-102 4-lane option). Are we to assume that the temporary fence has the same type of foundation as the permanent fence?
	Response	Yes, temporary fence (Type CL-6) shall be constructed as shown on the plans. This fence is the same as Caltrans Standard Plan A85.
44	Question	Is there a detail for the Type 60E Modified Concrete Barrier (Sheet 39 2-lane option & Sheet 41 4-lane option)?
	Response	Yes, refer to plans sheets 136 of 191, and 140 of 195 (Wildlife Overcrossing, Foundation Details CT9) for details.
45	Question	Which item does the concrete slab (Sheet 17) get paid under?
	Response	See Addendum No. 3, Revised Proposal, a new item is added to the estimate for Minor Concrete (Island Paving) to account for the slab paving.
46	Question	Please clarify allowable limits, for falsework construction. The foundation plan/note 7, indicates that .50 acres may be used "within" the USACE/CDFW limits, which is also within the designated ESA area, however section 48-2.01 states that no work shall be conducted "within" the ESA area. Please clarify.
	Response	See Addendum No. 3, Revised Plan Sheets. The Foundation Plan has been updated. Note #7 has been removed and the correct ESA fencing is shown. The construction limits are the R/W that is to the north and south of the bridge, and the ESA fencing along the east and west sides of the bridge.

47	Question	Special Provision section 7-1.02K(6)(j)(iii) indicates that there is lead in the native dirt which will be exported and/or used as embankment. Since the presence of lead in the dirt will have a cost impact, it is necessary to analyze the lead information provided in the report. Please provide the lead report.
	Response	See Addendum No. 3. Special Provisions section 7-1.02K(6)(j)(iii) has been deleted.
48	Question	Refer to Special Provision section 19-3.01A(2). Please confirm that if the Engineer changes the means and methods then the work will be considered and paid as extra work per Section 4-1.05 "Changes and Extra Work".
	Response	No, see Addendum No. 3. Special Provisions section 19-3.01A(2) has been edited. Under this special provision, the contractor is to submit a plan for work involved, corrective actions would only occur if damage occurs. Payment has been revised to indicate any corrective actions required are considered included in the bid item and no additional compensation allowed.
49	Question	Special Provision section 19-3.03B(1) items 1 & 2 are a bit confusing. It indicates that the cut should be vertical and NOT greater than 10' in height. We are assuming you're suggesting shoring up to 10' only? What about the cuts which are greater than 10'? There are cuts up to approximately 16'.
	Response	The wall and spread footing are indeed intended to be cast-in-place as two complete elements. Top down construction does not apply to this structure. The intent is to excavate the entire wall in vertical fashion, with the contractor providing the means and method of temporary shoring, if deemed necessary, which could consist of a top down construction method.
50	Question	Given our experience with other projects near Clinton Keith Rd and based on the geotechnical report, there will be quite a bid of cobbles and boulders in the excavation. In fact some of the boulders in the excavation where quite sizeable i.e. – 10'x10'. Will the boulders classify as rock excavation (controlled blasting)? If so, what is the size criteria for them classify as rock excavation?
	Response	Boulders that are irreducilble and where rippability is questionable, (approaching 6000 f/s) rock excavation may be required by methods described in 19-4.01a (splitters, hammers, etc)
51	Question	In the pre-bid meeting on July 1st, one of the questions was whether or not equipment was allowed to cross Warm Springs Creek. The response from the Agency representative was that it was allowed. Please confirm that equipment can be used in the creek bottom to haul dirt material from the west side of the creek to the east side.
	Response	Yes, temporary access is allowed through Warm Springs Creek during construction.
52	Question	Rock Socket Diameter - 90" CIDH Piling 1. Reference Addendum 1, Contractor Q&A #1 (Attached), and Page 12 from the Caltrans June 2014 Memo to Designers 3-1 Deep Foundations (Attached). The response to the request to reduce the concrete cover in the 90" rock socket only from 6" to 3" was declined in the Addendum 1 Q&A responses because it would require "...modifications to the rebar cage and associated structural/geotechnical reanalysis and re-design of the pile." Furthermore, it was stated that "6 inch clear spacing is required per Caltrans standards" The attached Memo to Designer's excerpt details that, for 90" diameter piles, a minimum of 5" clear distance is required, but that "...only 3" of cover is assumed effective and shall be used in calculations." The purpose of the increased clear distance to 5" from 3" is to ensure adequate concrete coverage, as the risk for anomalies may increase as the shaft diameter increases. However, it is the responsibility of the drilled shaft Contractor to produce a pile which is acceptable in accordance with Section 49-3.02A(4)(d) of the 2010 Caltrans Standard Specifications. Therefore, please confirm it is acceptable to reduce the pile concrete clear distance from 6" to 3" in the rock portion of the pile only, and that it is the responsibility of the drilled shaft contractor to produce a pile which is acceptable in accordance with Section 49-3.02A(4)(d)(iii) of the 2010 Caltrans Standard Specifications, and CTM 233.

	Response	In a perfect world, all drilled shaft contractors would produce perfect piles without defects or anomalies, and the additional cost and time required to mitigate piles failing the testing criteria would be non-existent. Unfortunately, this is often not the Case. Caltrans is aware of this and they specify a buffer thickness beyond what is considered in the structural calculations. Reducing the cover to 3" would significantly increase the odds of a defect in the cover that would be considered failing criteria. It leaves absolutely no room for error, and that is not a risk worth taking.
53	Question	The plans and specs do not specify the Fiber Roll Type (A or B?) as well as the Installation Type (1 or 2?) according the Caltrans standards specs 2010, Please Advise. Also please verify the fiber roll spacing will be determined in reference to section 21-1.03P of the Caltrans 2010 Specifications.
	Response	See Addendum No. 3, Modifications to Caltrans Standard Specifications, Section 21-1.02P and 21-1.03P have been added. Fiber rolls shall be Type B, installation method 1, 2 or a combination by contractor.
54	Question	At the pre-bid meeting, the Agency indicated the Contractor could place a culvert pipe in the existing creek and fill dirt over the top of it. Bridge Plan Sheet 4 of 39 indicates the area between Bents 2 and 3 as ESA (Environmentally sensitive area). Please confirm the contractor is allowed to place pipe within the ESA area and fill dirt on top of it. Also, please provide any additional parameters/restrictions that may exist (ie size of culvert pipe, fill material specifications, etc.). Instruction to Bidders Item 6, Interpretation of Documents, Page A 4, indicates "Any communication by anyone as to RFIs and other project document inquires, except by Addenda, does not affect the meaning or requirements of the Contract Documents."
	Response	See Addendum No. 3, Revised Plan Sheets. Sheet 4 of 39 of Warms Springs Creek Bridge Plans has been revised. The ESA fencing on the Foundation Plan was shown incorrectly. The temporary ESA fencing on the layout and bridge plans are for reference only, location of this ESA fencing must be taken from the Fence Plans. The construction limits are the R/W that is to the north and south of the bridge, and the ESA fencing along the east and west sides of the bridge. The contractor is allowed to access Warm Springs Creek temporarily during construction, and any disturbed area must be returned to existing condition at the completion of construction.
55	Question	Reference Bid Item No. 106, Wire Mesh Fence (3/8" x 3/8"). Because of the rolling terrain that the fence line is on, it will be impossible to manipulate or bias the 3/8" fabric. Please advise.
	Response	See Addendum No. 3, Revised Plan Sheets. Plan sheets 39 of 191 (2-lane) and 41 of 195 (4-lane) have been revised. Post spacing is 10' maximum. Contractor may reduce spacing to fit the terrain.
56	Question	For Items 106 & 240 – Wire Mesh Fence (3/8" x 3/8" mesh), are these chain fabric or woven wire mesh? County Provision Section 80-3.02 calls for galvanized chain link fabric but Details on Sheet 41 shows 3/8" galvanized wire mesh (square), please clarify.
	Response	See Addendum No. 3, Revised Plan Sheets. Plan sheets 39 of 191 (2-lane) and 41 of 195 (4-lane) have been revised. Special Provision 80-3.01 refers to chain link fabric, 11 gage galvanized.
57	Question	For Item 249 – Chain Link Railing (Item Code 833020), do we need to follow County Provision Section 83-1.02G(2) that calls for PVC coating or is galvanized finish only, please clarify.
	Response	Chain link railing shall be galvanized per Caltrans Standard Specification 83-1.02I "Chain Link Railing"

58	Question	For Item 248 – Metal Railing (Item Code 833000) calls for County Provisions Section 83-1.02(G) which calls for PVC coating, can we use powder coating instead? PVC coating is only use for chain link fabric and not on metal railing.
	Response	See Addendum No. 3. Special Provisions section 83-1.02(G) has been edited. Powder coating is acceptable.
59	Question	Are the precast panels to be cast with integral color?
	Response	No
60	Question	Per the Caltrans Memo to Designers 5-5, the maximum spacing between layers (excluding top and bottom) is 30". The grid spacing shown in the plans is above this. Is this acceptable for all MSE wall systems?
	Response	No, alternates should limit the spacing to 2.5 feet. Once the system is chosen, shop drawings will be prepared according to Caltrans preapproved systems.
61	Question	The provided MSEW runs do not include the live loading described in the plans. Is this acceptable for all MSE walls systems.
	Response	Yes, there is no traffic over this structure.
62	Question	What is the Kh for the seismic design of the MSE walls? Caltrans typically used 1/3 PGA.
	Response	Kh is based on an MGA of 0.48 per Geotechnical Report.
63	Question	Will the portion of MSE wall with LCC be designed as a standard MSE wall?
	Response	Yes, but with density of 30 pcf.
64	Question	At the ends of the bridge arches, there is a 10' overlap of LCC on top of standard MSE backfill. In previous experiences, the backfill underneath the LCC settles, leaving a gap between the two. Has this possibility been reviewed by the Geotech/Bridge designer?
	Response	If backfill under the LCC is compacted according to specifications, we don't aniticipate much settlement.
65	Question	The reinforcement lengths given for the wing walls are extremely long for typical MSE wall design. One example is the Wingwall NW H=34.35'. The base width ration (length/height) is 2.04, where typical MSE wall designs use 0.7H, and extreme cases can use up to 1.3H. The CDR's for this design are well above what is required by LRFD design. What is the reasoning for the lengths given, and can we reduce them to 0.7H?
	Response	The grid lengths are a result of a combination of global stability, seismic loads and bearing capacity. No, they cannot be reduced unless an alternate design is approved.
66	Question	Will the 3'-8' wide granular backfill against the wall shown on plan sheet 131 of 191, section D/CT2 be required for the MSE Headwall Panels?
	Response	A minimal drainage layer should be maintained behind the headwall (approximately one foot).
67	Question	Of the cross sections included in the supplemental reference documents, several are not scaled to show where FG daylights into OG. An example is the cross section at station 305+00 on sheet 28. Please revise and reissue cross sections to show this missing information.
	Response	See Addendum No. 3. Revised cross sections from station 304+00 to 311+00 are made available for inspection on the County of Riverside Transportation Department website. http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

68	Question	Please provide information regarding the concrete structure to be demolished at roughly station 288+50. There currently exists a large metal shed on this slab. What is the thickness of the existing slab? What is the disposition of the metal structure to be for purposes of our proposal?
	Response	The metal shed will be removed prior to construction and only the concrete slab will need to be removed with this project. Thickness of the existing concrete slab is unknown.
69	Question	At the pre-bid conference it was stated that the contractor will be permitted to cross the Warm Springs creek with equipment. What, if any, environmental mitigation measures will need to be taken? Will the crossing of the Warm Springs Creek count towards the total allowable impact area of the creek?
	Response	The contractor is allowed to access WSC temporarily during construction, and any disturbed area must be returned to existing condition at the completion of construction. The note on the Foundation Plan (sheet 4 of 39) was shown incorrectly and has been corrected per Addendum 3. As long as construction stays within the limits of the R/W that is to the north and south of the bridge, and the ESA fencing along the east and west sides of the bridge, they are within the allowable impacts of the project.
70	Question	How will the impact area of the Warm Springs Creek be calculated? Will only direct impacts (such as a 100 sf temporary false work bent) be counted? Will areas affected by adjacent impacts be calculated?
	Response	See Addendum No. 3. Sheet 4 of 39 of Warms Springs Creek Bridge Plans has been revised. As long as construction stays within the limits of the R/W that is to the north and south of the bridge, and the ESA fencing along the east and west sides of the bridge, they are within the allowable impacts of the project.
71	Question	Please provide details on the rock armoring at the bridge abutment fills.
	Response	RSP detail is shown on Abutment Details No. 5. Plan sheets 162 of 191 and 166 of 195 (for 2-lane and 4-lane)
72	Question	Retaining Wall 290 does not appear to be constructible as shown on the drawings. Not taking into account overex required for the wall footings, the drawings direct the contractor to make a 10' vertical cut into the existing rock face, with no shoring or support. Please revise.
	Response	Based on our knowledge of the subsurface conditions, and as discussed in Section 11.6 Excavation for RW 290 of the Geotechnical Design Report, the excavation for the wall will take place in bedrock that will range from highly weathered granite at the ground surface to relatively intact granite at the bottom of the excavation. It is anticipated that a vertical cut of 10 feet will be achievable with little or no temporary shoring required. As such, the wall is expected to be constructible.
73	Question	We are directed to minimize vibration during the excavation of retaining wall 290, but no limits are given. What are the limits of vibration?
	Response	Per Special Provisions section 19, prior to any ground disturbing activities within the Archaeological Monitoring area, the contractor must submit a plan to describe the detailed method and the plan will be reviewed by Native American monitor and the Engineer.
74	Question	Is bid item 78/212, "Single Sheet Aluminum Sign", referring to Project Funding Signs? If so, what are the dimensions of each sign and how many are to be supplied? What locations are we to install these at or are they furnish only?
	Response	Bid Item 78 & 212 are for furnishing of roadside signs. Individual roadside signs and sizes are shown on Pavement Delineation and Signing Sheets of the plans. Project funding sign locations are to be designated by Engineer.

75	Question	Regarding bid item 80/214, please clarify which signs are to be installed using the strap and saddle bracket method?
	Response	Strap and Saddle bracket locations are shown on Pavement Delineation and Signing Sheets, predominantly between Trois Valley Street and Leon Road (sheets 112-114) 2-lane and (sheets 114-116) on 4-lane.
76	Question	Are bid items 51/186 Erosion Control (Bonded Fiber Matrix With Seeds) and 52/187 Fiber Rolls paid for when installed on permanent basis and on temporary basis?
	Response	Refer to Section 21-1.01A of the Caltrans Standard Specifications, these erosion control items are installed on permanent basis.
77	Question	Is there a place onsite the contractor can use to dispose of excess material?
	Response	No site is proposed at this time.
78	Question	Drawing Plan Sheets 39 of 195 (Pedestrian Guard Details) shows details of a concrete guard used in the back of some sidewalk and curb ramp. It is unclear where this detail applies. Additionally, there is no pay item for the concrete curb/wall and the tubular steel rail. Please clarify.
	Response	See Addendum No. 3, Revised Proposal, an item has been added for Minor Concrete (Pedestrian Guard). Refer to sheet 29 of 191 (2-Lane) and sheet 30 of 195 (4-lane) for proposed locations.

Note: Additional Contractor's Questions and Responses to be provided on a subsequent addendum.

Juan C. Perez, P.E., T.E.
Director of Transportation and Land Management

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY

Patricia Romo, P.E.
Assistant Director of Transportation

Transportation Department

ADDENDUM NUMBER 4

Dated July 24, 2015

to the
Specifications and Contract Documents
for the construction of

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

Bids Due: **(Revised) Wednesday, August 12, 2015; 2:00 p.m.**
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

This Addendum is issued pursuant to the Instructions to Bidders, Item No. 8, of the Contract Documents for the reference project. This Addendum is issued as a supplement to the specification and special provisions for the referenced project. The revisions to the specifications shall become a part of the Contract Documents, and each bidder shall acknowledge receipt thereof on the Bid (Proposal). Bidders are directed to sign this addendum as acknowledged, and attach the signed addendum to the contractor's submitted proposal.

Note: During the advertisement period of this project, this document and attachments (if any) are available upon request at the office of the Transportation Department, and are available as a free download at the Transportation Department's website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

MODIFICATIONS / CLARIFICATIONS TO SPECIAL PROVISIONS:

Item 1: The new designated date and time for the receipt and opening of bids is revised as follows:

Wednesday, August 12, 2015; 2:00 p.m.
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

Prepared by: _____ 7/24/15
Joel Jimenez, PE; Senior Civil Engineer, Contracts/Bidding Unit

Acknowledged: _____ Date: _____
(Contractor)

JRJ:rr

3525 14th Street · Riverside, CA 92501 · (951) 955-6800
FAX (951) 955-3164

Juan C. Perez, P.E., T.E.
Director of Transportation and Land Management

COUNTY OF RIVERSIDE
TRANSPORTATION AND LAND MANAGEMENT AGENCY
Transportation Department

Patricia Romo, P.E.
Assistant Director of Transportation

ADDENDUM NUMBER 5

Dated July 29, 2015

to the
Specifications and Contract Documents
for the construction of

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

Bids Due: **Wednesday, August 12 2015; 2:00 p.m.**
14th Street Transportation Annex
3525 14th Street; Riverside, CA 92501
(951) 955-6780

This Addendum is issued pursuant to the Instructions to Bidders, Item No. 8, of the Contract Documents for the reference project. This Addendum is issued as a supplement to the specification and special provisions for the referenced project. The revisions to the specifications shall become a part of the Contract Documents, and each bidder shall acknowledge receipt thereof on the Bid (Proposal). Bidders are directed to sign this addendum as acknowledged, and attach the signed addendum to the contractor's submitted proposal.

Note: During the advertisement period of this project, this document and attachments (if any) are available upon request at the office of the Transportation Department, and are available as a free download at the Transportation Department's website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

MODIFICATIONS / CLARIFICATIONS TO SPECIAL PROVISIONS:

Item 1: **Revised Proposal.** Refer to "Proposal" pages B2-B12 and "Revised Proposal" Attachment "A" of Addendum No. 3. Delete and replace "Proposal" (pages B2 through B12) and Revised Proposal as issued by Addendum No. 3 with "Proposal (Revised)" attached herewith as **Attachment "A".** The following changes have been made to the Proposal:

a. "Estimated Quantities" are revised for the following bid items:
Item 40, "ROADWAY EXCAVATION"
Item 69, "MINOR CONCRETE (MINOR STRUCTURE)
Item 98, "ROCK SLOPE PROTECTION (FACING, MEHTOD B)
Item 100, "ROCK SLOPE PROTECTION FABRIC"
Item 103, "MISCELLANEOUS IRON AND STEEL"

Item 175, "ROADWAY EXCAVATION"
Item 203, "MINOR CONCRETE (MINOR STRUCTURE)
Item 231, "ROCK SLOPE PROTECTION (FACING, METHOD B)"

3525 14th Street · Riverside, CA 92501 · (951) 955-6800
FAX (951) 955-3164

Item 233, "ROCK SLOPE PROTECTION FABRIC"
Item 237, "MISCELLANEOUS IRON AND STEEL"

b. Description and Final Pay (F) have been revised for the following bid items:
Item 41, "ROCK EXCAVATION"

Item 176, "ROCK EXCAVATION"

c. The following bid items have been deleted:
Item 11, "PRECONSTRUCTION SURVEY"

Item 144, "PRECONSTRUCTION SURVEY"

Item 2: **Subcontractor List:** Refer to Addendum No. 3, Item 4, "Clarification - Submittal of Portions of the Work to be Performed by Subcontractors", Subcontractor List form on page B15 of the bidding documents, and Instructions to Bidders, Section 11, "Subletting, Subcontracting, and Subcontractors List" on page A5.

Delete and replace Item 4 in Addendum No. 3 and replace with the following:

Subcontractor List information for Construction Item(s) [Item Number and/or Description] must be submitted with the bid.

The **total** percentage(s) of the work to be performed by ~~a~~ subcontractor**s** listed does not have to be submitted at the time the bid submittal is due.

Regarding the **total** percentage of work performed by Subcontractors, two **total** percentages must be provided:

1. You must provide a **total** percent**age** of work to be performed by **all** subcontractors ~~based on the total sum of~~ designated for Alternate Bid Schedules 1 (2-Lane Option), 3 and 4
, and
2. You must provide a **total** percent**age** of work to be performed by **all** subcontractors ~~based on the total sum of~~ designated for Alternate Bid Schedules 2 (4-Lane Option), 3 and 4.

The apparent low bidder, the 2nd low bidder, and the 3rd low bidder must complete and submit the ~~portions/~~ **two total** percentages of the work to be performed by the listed subcontractors on the Subcontractors List form. Bidders must submit this information to the County no later than 24 hours after the bid opening.

If you do not submit the ~~portions/~~ **two total** percentages of the work ~~to be performed by different subcontractors~~ within the specified time, the County will find your bid non-responsive.

Other bidders do not need to submit this information unless the County requests it. If the County requests you to submit the ~~portions/~~ **two total** percentages of the work, ~~to be performed by different subcontractors~~, **you must** submit the information within 3 business days of the request.

The County reserves the right to request individual Subcontractor percentages and any subcontracted information to verify construction items of work, portions of work, partial work, or any necessary information to verify listed/submitted information.

Item 3: Modification to Special Provision. Refer to Section 19-4, Rock Excavation (Controlled Blasting) on pages 45 through 51 of the Special Provisions. Delete Section 19-4 and replace it with following special provisions:

Replace section 19-4 with:

19-4 ROCK EXCAVATION

19-4.01 GENERAL

19-4.01A Summary

Section 19-4 adds specifications for performing controlled blasting or other specialty methods of rock excavation and presplitting rock to form rock excavation slopes.

In general, the soil in the roadway prism is assumed to be rippable to a depth of 20 to 40 feet below ground surface. Bedrock excavatabilty is expected to vary and may require blasting at localized areas. For additional information refer to section 2-1.06B for supplemental information and the Geotechnical Design Report.

You may use hydraulic splitters, pneumatic hammers, controlled blasting, or other roadway and trench excavation techniques authorized to fracture rock and construct stable final rock cut faces.

Comply with section 12.

Comply with federal, state, and local blasting regulations. Regulations containing specific Cal-OSHA requirements for blasting activities include 8 CA Code of Regs, Ch 4, Subchapter 7, Group 18, "Explosive Materials." Regulations for explosives containing percholate materials include 22 CA Code of Regs, Division 4.5, Ch 33, "Best Management Practices for Percholate Materials."

You are liable for damages resulting from blasting activities.

19-4.01B Definitions

Excavation is classified as common excavation, rock excavation, trench rock or roadway excavation in accordance with the following definitions.

Common excavation is defined as the excavation of all materials that can be excavated, transported, and unloaded using heavy ripping equipment and wheel tractor-scrapers with pusher tractors or that can be excavated and dumped into place or loaded onto hauling equipment by excavators equipped with attachments (shovel, bucket, backhoe, dragline, or clam shell) appropriate to the material type, character, and nature of the materials.

Rock excavation is defined as the excavation of all rock cemented materials that require blasting or the use of ripping and excavating equipment larger than defined for common excavation. The excavation and removal of isolated boulders or rock fragments larger than 1 cubic yard encountered in materials otherwise conforming to the definition of common excavation shall be classified as rock excavation. The presence of isolated boulders or rock fragments larger than 1 cubic yard is not in itself sufficient cause to change the classification of the surrounding material. This definition of rock excavation does not include materials such as hardpan, loose rock, concrete or other materials that can be removed by means other than drilling and blasting, but which for reasons of economy in excavating the CONTRACTOR chooses to remove by drilling and blasting.

Trench rock is defined as material encountered in trench excavation that cannot be dislodged by a track-type hydraulic excavator. Trench rock excavation includes up to 6 inches over-excavation below the required excavation depth. Rock shall be quantified by measuring the extent of rock in the trench, not by measuring the volume of removed rock. This definition of trench rock does not include materials such as hardpan, loose rock, concrete or other materials that can be removed by means other than drilling and blasting, but which for reasons of economy in excavating the CONTRACTOR chooses to remove by drilling and blasting.

Roadway Excavation is defined as the excavation of all materials encountered, including rock materials, regardless of their nature or the manner in which they are removed.

For the purpose of these classifications, the following definitions shall apply:

Heavy ripping equipment: Rear-mounted, heavy duty, single-tooth, ripping attachment mounted on a track type tractor having a power rating of at least 400 flywheel horsepower unless otherwise specified.

Wheel tractor-scraper: Self-loading (not elevating) and unloading scraper having a struck bowl capacity of at least 12 cubic yards.

Pusher tractor: Track type tractor having a power rating of at least 400 flywheel horsepower equipped with appropriate attachments.

Track type hydraulic excavator: Heavy equipment able to perform trench excavation operations with a 42-inch wide short-tip radius rock bucket, rated at not less than 300 hp flywheel power with bucket-curling force of not less than 40,000 lbs and stick-crowd force of not less than 30,000 lbs.

Controlled blasting: Use of explosives and blasting accessories in predetermined spaced and aligned drill holes to limit blast vibrations, noise from airblast overpressure, and flyrock.

Flyrock: Rock that becomes airborne due to blasting.

Near field blasting: Blasting within 30 feet of a critical structure.

Presplitting: Establishment of a free surface or shear plane in rock along the specified excavation slope by the controlled use of explosives and blasting accessories in appropriately aligned and spaced drill holes.

19-4.01C Submittals

19-4.01C(1) General

Submit 3 copies of the blasting safety plan and each controlled blasting plan. After each plan is authorized, submit 3 additional copies of each authorized plan.

19-4.01C(2) Blasting Safety Plan

Submit a blasting safety plan. The plan must include:

1. References to applicable federal, state, and local codes and regulations
2. Copies of permits required for blasting activities
3. Business name, contractor license number, address, and telephone number of the blasting subcontractor
4. Proof of current liability insurance and bonding
5. Name, address, telephone number, copies of applicable licenses, and resume of:
   - 5.1. Blaster-in-charge
   - 5.2. Personnel responsible for controlled blast design, loading, and conducting the blasting operation
   - 5.3. Safety officer for blasting subcontractor
   - 5.4. Blast monitoring consultant
   - 5.5. Blasting consultant

6. Name, address, and telephone number of the local fire station and law enforcement agencies
7. Detailed description of:
   7.1. Location where explosives will be stored
   7.2. Security measures to protect and limit access to the explosives
   7.3. Transportation means for explosives
   7.4. List of personnel permitted to handle the explosives
8. Exclusion zone and limited-entry zone for non-blast related operations and personnel surrounding loading and blasting operations
9. Details of warning signals used to alert employees on the job site of an impending blast and to indicate the blast is completed and the area is safe to enter
10. How blasting operations will be conducted
11. Measures to protect blasting operations and personnel from lightning
12. Emergency evacuation procedures for areas where explosives may be present
13. How misfires will be recognized, handled, and resolved including:
    13.1. Who will be notified
    13.2. How blast zone will be secured until misfire is resolved
    13.3. Identification of equipment that may be needed to resolve misfires
14. Details of signs to be used around blasting zones including:
    14.1. Timing of when signs will be posted relative to a specific blast
    14.2. Name and telephone number of person responsible for placing signs
    14.3. Roadway signs for compliance with Chapter 6, Typical Application 2, of the California MUTCD.
15. Traffic control details for:
    15.1. Loading and blasting operations
    15.2. Misfire event or other blast related phenomenon that causes a transportation corridor to remain closed to the public
16. Description of possible noxious gas generation and details of safeguards to be used to protect employees, work zones adjacent to the shot, private property, and the public
17. Procedure to report and resolve complaints for blast related accidents
18. Copies of each MSDS and manufacturer data sheets of explosives, caps, primers, initiators, and other compounds

19-4.01C(3) Controlled Blasting Plan

Submit a controlled blasting plan for each blast. The plan must include details on how each blast will be controlled and the following:

1. Blast identification by numerical and chronological sequence
2. Location, referenced to stationing, offset distance, date, and time of blast
3. Drawings showing drill hole pattern, spacing, burden, and initiation sequence
4. Typical cross-sections through zone to be blasted
5. Groundwater level, if present, within the prism to be blasted
6. Initiation-sequence diagram showing the actual firing time of each delay
7. Type of material to be blasted
8. Number of drill holes
9. Diameter, depth, and spacing of holes
10. Height or length of stemming
11. Types and characteristics of explosives used, including explosive's density, relative strength, and date of manufacture
12. Type of caps and delay periods used and their date of manufacture
13. Total amount of explosives used
14. Total amount of explosives detonating within any 8 millisecond period
15. Powder factor (pounds of explosive per cubic yard of material blasted)
16. Method of firing
17. Direction and distance to nearest building or structure
18. Type and method of instrumentation
19. Location and placement of instruments

20. Measures to limit air noise and flyrock
21. Measures to limit overbreak
22. Name of blasting subcontractor
23. Name and signature of blaster-in-charge
24. Drawings showing spacing and proximity of shot guards to blast location

Changes to a controlled blasting plan made to adjust for site conditions must be submitted for review before implementing.

19-4.01D Quality Control and Assurance

19-4.01D(1) General

Not Used

19-4.01D(2) Blaster-In-Charge

Assign a blaster-in-charge responsible for supervising all blasting activities. The blaster-in-charge must have 10 years of experience in performing or supervising similar blasting activities and must be a licensed blaster.

19-4.01D(3) Blast Monitoring Consultant

Assign a blast monitoring consultant to monitor blasting generated vibrations and noise near buildings and structures that may be subject to damage. The monitoring consultant must be responsible for collecting and interpreting vibration and noise data. The blast monitoring consultant must:

1. Not be employed by the blasting contractor or other subcontractor on the project
2. Have a minimum of a 2-year Associate's Degree in science or engineering
3. Have at least 5 years of documented experience in collecting and interpreting ground vibrations and noise data

19-4.01D(4) Blasting Consultant

Assign a blasting consultant to oversee near field blasting activities. The blasting consultant must:

1. Be an engineer or geologist who is licensed in the State
2. Have 10 years of experience providing specialized blasting services in near field blasting
3. Not be employed by the blasting contractor, explosive manufacturer, or explosive distributor
4. Submit a resume of credentials and a list of projects worked on

19-4.01D(5) Preblast Surveys

At least 15 days before starting blasting activities, prepare a preblast survey of all buildings and structures within 330 feet of blasting activities and submit it with the controlled blasting plan. The preblast survey must include a written report, sketches, and photos or a videotape with date and time displayed on the image. The preblast survey must include:

1. Name of the person making the inspection
2. Name of property owner and occupants
3. Property address
4. Date and time of the inspection
5. Description of the structure or other improvement including culverts and bridges
6. Detailed description of existing condition of walls, ceiling, and floor of each interior room including attic and basement
7. Detailed description of existing condition of foundations, exterior walls, roofs, doors, windows, and porches
8. Detailed description of existing condition of garages, outbuildings, sidewalks, driveways, and swimming pools
9. Detailed listing of highway sign posts, light fixtures, and overhead power lines

10. Survey of wells or other private water supplies including total depth and existing water surface levels
11. Identification of sites conducting procedures, processes, or operations that may be sensitive to blasting activities
12. Scaled map or aerial photo showing the location of structures and properties surveyed and location of all proposed blasting sites

If blasting activities are suspended for a period of 45 days or more, perform another preblast survey and submit it at least 15 days before resuming blasting activities.

After blasting activities are completed, prepare and submit a postblast survey of the same buildings and structures as in the preblast survey. The postblast survey must include all items included in the preblast survey.

19-4.01D(6) Vibration and Noise Monitoring

Vibration levels must be kept below peak particle velocity of 2 inches per second at the nearest building or structure.

Noise from airblast overpressure levels must be kept below 128 dB (C-network or Linear network) at the nearest building

Ground vibrations and noise created from blasting must be controlled by using properly designed delay sequencing and charge weights for shots.

Provide 3 seismographs to be available for deployment that are appropriate for controlled blasting activities and capable of:

1. Recording particle velocities for 3 mutually perpendicular components of vibration and instantaneous resultant peak vector sum in the range generally found with controlled blasting.
2. Continuously measuring, recording, and reporting vibrations along 3 primary axes.
3. Measuring and recording vibration frequencies ranging from 2 to 300 Hz.
4. Providing a printed record of each event showing a plot of peak particle velocity versus vibration frequencies.
5. Measuring and recording airblast noise levels. The noise transducer must be detachable from the main unit to allow placing at elevations with a clear line of sight between transducer and blast.

Record each blast shot using approved seismographs and prepare a vibration and noise monitoring report. The report must include:

1. Identification of instruments used
2. Name of blast monitoring consultant
3. Distance and direction of recording stations from blast area
4. Type of ground at recording station and material on which instrument sits
5. Maximum particle velocity in each component and resultant peak particle velocity of each shot
6. Copy of seismograph readings with date and signature of blast monitoring consultant
7. Noise levels recorded in dB (C-network or Linear network) units

19-4.01D(7) Video Recording of Blasts

Video-record each blast. The video-recording must be taken from a safe location with a clear view of the blast area, activities, and progression. Identify each video or section of video with an index to identify each blast. Submit a copy of each video in DVD-Video format.

19-4.01D(8) Blasting Complaints

Accurately document each complaint. Notify the Engineer immediately of a complaint received or at the start of the next day's work shift. Complaint documentation must include:

1. Name and address of complainant

2. Date, time, and nature of complaint
3. Dated photo or videotape of physical damage
4. Name of person receiving complaint
5. Record of complaint investigation conducted
6. Resolution of complaint

19-4.01D(9) Postblast Reports

Document each shot in a postblast report. The postblast report must include all data required in the controlled blasting plan for that shot and the following:

1. Description of site conditions, loading, and time of blast
2. Description of weather conditions at time of blast including wind direction and cloud cover
3. Drillers boring record
4. Copy of vibration and noise monitoring report
5. Copy of documented complaints arising from the blast

Submit the postblast report within 48 hours of the blast.

19-4.02 MATERIALS

The maximum diameter of explosives used in presplit holes must not be greater than 50 percent of the diameter of the presplit hole.

Only standard cartridge explosives prepared and packaged by explosive manufacturing firms must be used in the presplit holes. These must consist of one of the following:

1. Fractional portions of standard cartridges to be affixed to the detonating cord in the field
2. Solid column explosives joined and affixed to the detonating cord in the field

Stemming materials must be dry, free-running material meeting the grading requirements in the following table when tested under California Test 202:

Sieve sizes	Percentage passing
3/8"	100
No. 8	90

19-4.03 CONSTRUCTION

All common excavation shall have been completed in an area prior to beginning blasting or other special rock breaking measures, so that accurate quantities of rock excavation can be determined.

At least 7 days before starting or resuming blasting activities, notify occupants of the local buildings within 330 feet of the blasting area in writing. Verbally notify occupants of pending blasting activities on the day of blasting.

Do not perform blasts within 1,200 feet of concrete placed within 72 hours.

Before firing any blast, confirm that groundwater conditions are consistent with shot design and explosive type to be used.

Before firing any blast in areas where flyrock may result in personal injury or damage to property or the work, cover the rock to be blasted with blasting mats, soil, or other equally serviceable material to prevent flyrock.

If blasting causes flyrock, suspend blasting activities. The blasting consultant must review the site to determine the cause of the flyrock problem and provide an amendment to the controlled blasting plan that prevents flyrock.

Do not use drill cuttings as stemming in controlled blasting operations.

Before drilling the presplitting holes, remove overburden soil and weathered rock along the top of the excavation for a distance of at least 50 feet beyond the drilling limits or to the end of the excavation. Ensure removal of overburden soil and weathered rock and expose fresh rock to an elevation equal to the bottom of the adjacent lift of the presplitting holes being drilled.

Drill slope holes for presplitting along the line of the planned slope within the tolerances specified. The drill holes must be at least 2-1/2 inches, but not more than 3 inches in diameter. Control the drilling operations by using proper equipment and techniques. Ensure no hole deviates from the plane of the planned slope by more than 12 inches or from parallel to an adjacent hole by more than 67 percent of the planned horizontal spacing between holes.

The length of presplit holes for an individual lift must not exceed 30 feet, unless you can demonstrate to the Engineer that you can stay within the above tolerances and produce a uniform slope. The length of holes may then be increased to a maximum of 60 feet if authorized.

The spacing of presplit holes must not exceed 3 feet on centers and must be adjusted to produce a uniform shear face between holes.

The Engineer may order you to drill auxiliary holes along the presplit line. These holes must not be loaded or stemmed. Except for spacing, auxiliary drill holes must comply with the specifications for presplit holes. Drilling auxiliary drill holes along the presplit line is extra work.

Place the adjacent line of production holes inside the presplit lines in such a manner that avoids damage to the presplit face.

If necessary to reduce shatter and overbreak of the presplit surface, the 1st line of production holes must be drilled parallel to the slope line at the top of the cut and at each bench level thereafter.

Blasting shall be done in a manner as to prevent damage to the work or unnecessary fracturing of the underlying rock materials. Blasting techniques that result in damage to the presplit surface must be discontinued immediately.

No portion of the production holes must be drilled within 8 feet of a presplit plane unless authorized. The bottom of the production holes must not be lower than the bottom of the presplit holes.

A maximum offset of 24 inches will be permitted for a construction working bench at the bottom of each lift for use in drilling the next lower presplitting pattern.

Adjust the drilling operations to compensate for drift of previous levels and for the offset at the start of new levels to maintain the specified slope plane.

If the methods of drilling and blasting do not produce the desired result of a uniform slope and shear face without overbreak and within the tolerances specified, drill, blast, and excavate in short sections, up to 100 feet, until a technique produces desired results.

If a fractional portion of a standard explosive cartridge is used, the cartridge must be firmly affixed to a length of detonating cord equal to the depth of the drill hole so that the cartridge does not slip down the detonating cord nor cock across the hole and bridge the flow of stemming material. Spacing of cartridges along the length of the detonating cord must not exceed 30 inches center to center and must be adjusted to give the desired results.

If a solid column type explosive is used, the column must be assembled and affixed to the detonating cord to comply with the explosive manufacturer's instructions. Submit as an informational submittal a copy of the explosive manufacturer's instruction before using the column type explosive.

The bottom charge of a presplit hole may be larger than the line charges but must not cause overbreak. The top charge of the presplitting hole must be placed far enough below the collar to avoid overbreaking the surface.

Before placing the charge, the hole must be free of obstructions for the hole's entire depth. Ensure placing of the charge does not cause caving of material from the walls of the holes.

The Engineer may order the use of stemming materials as necessary to achieve a satisfactory presplit face. Stemmed presplit holes must be completely filled to the collar.

Detonate charges in each presplitting pattern simultaneously.

The tolerances in section 19-2.03G do not apply to presplit surfaces of excavation slopes where presplitting is required. The presplit face must not deviate more than 1 foot from the plane passing through adjacent drill holes, except where the character of the rock is such that irregularities are unavoidable. The average plane of the completed slopes must not deviate more than 1 foot from the plan slopes. These tolerances are measured perpendicular to the plane of the slope. No portion of the slope may encroach on the roadbed.

If equally satisfactory presplit slopes are obtained, you may either presplit the slope face before drilling for production blasting or presplit the slope face and production blast at the same time, provided that the presplitting drill holes are fired with zero delay. The production holes must be delayed by at least 50 milliseconds starting at the row of holes farthest from the slope and progressing in steps to the row of holes nearest the presplit line. The presplitting holes must extend either to the end of the excavation or for a distance of not less than 50 feet beyond the limits of the production holes to be detonated.

Excavation limits

Excavations shall comply with OSHA Construction Industry Standards (29CFR Part 1926) Subpart P, Excavations, Trenching, and Shoring. All excavations shall be completed and maintained in a safe and stable condition throughout the total construction phase. Structure and trench excavations shall be completed to the specified elevations and to the length and width required to safely install, adjust, and remove any forms, bracing, or supports necessary for the installation of the work. Excavations outside the lines and limits shown on the drawings or specified herein required to meet safety requirements shall be the responsibility of the contractor in constructing and maintaining a safe and stable excavation.

Overexcavation in Rock

Method 1 – Excavation in rock beyond the specified lines and grades shall be corrected by filling the resulting voids with Portland cement concrete made of colors, materials and mix proportions approved by the engineer. Concrete that will be permanently covered shall contain not less than 470 pounds of cement per cubic yard. The concrete shall be placed and cured as specified by the engineer.

Method 2 – Excavation in rock beyond the specified lines and grades shall be corrected by filling the resulting voids with approved, compacted earthfill. Before correcting an overexcavation condition, the contractor shall review the planned corrective action with the engineer and obtain approval of the corrective measures.

19-4.04 PAYMENT

Payment under the Rock Excavation pay item is for the **additional** cost of blasting or breaking of all rock or cemented materials that require blasting or the use of ripping and excavating equipment larger than defined for common excavation as well as the breaking of isolated boulders or rock fragments larger than 1 cubic yard encountered in materials otherwise conforming to the definition of common excavation. Removal, hauling, grading and other handling of broken or blasted material is considered paid under the Roadway Excavation or associated pipe pay items. Rock excavation is measured in place as specified for roadway excavation in section 19-2.04. There shall be no adjustment of the unit price compensation for quantities of Rock Excavation less than or more than the quantity shown in the Engineer's Estimate.

The pay limits shall be defined as follows:

1. The upper limit shall be the original rock surface as it existed before the start of rock excavation operations.

2. The lower and lateral limits shall be the neat lines and grades shown on the drawings for the roadway prism.
3. The lower limits in a trench shall be 6 inches below the neat lines and grades shown on the drawings for the pipe installation.

Item 4: Supplemental Project Information – Environmental Permits. Refer to Section 2-1.06B, Supplemental Project Information, on page 20 of the Special Provisions.

- The "California Regional Water Quality Control Board Water Quality Certification", and
- the "United States Army Corps of Engineers Permit" will not be available for inspection on the County of Riverside Transportation Department website during the advertisement period.

Although not available for inspection, the County believes that much of the permits conditions have been already included in the different Contract Documents available.

Final copies of the "California Regional Water Quality Control Board Water Quality Certification," and the "United States Army Corps of Engineers Permit" and the "California Department of Fish & Wildlife Streambed Alteration Agreement" will become available to the awarded contractor.

No major deviations are expected between the currently information available in the Contract Documents and the final "California Regional Water Quality Control Board Water Quality Certification", and the "United States Army Corps of Engineers Permit".

In the event that new restrictions are required by the final "California Regional Water Quality Control Board Water Quality Certification", or by the "United States Army Corps of Engineers Permit", any additional work performed by the Contractor as a result of such restrictions and or new requirements shall be handled per General Conditions, Section 24, Extra Work.

When the final "California Regional Water Quality Control Board Water Quality Certification", and "United States Army Corps of Engineers Permit" become available, these shall become part of the Contract Documents.

Commencement of work on the Warm Springs Creek area will not start until the "California Regional Water Quality Control Board Water Quality Certification," and the "United States Army Corps of Engineers Permit" are received by the County.

Item 5: Modification to Special Provision. Refer to Section 8-1.04H, Preconstruction Survey on pages 28 through 29 of the Special Provisions. Delete Section 8-1.04H and replace it with following special provisions:

Replace Section 8-1.04H with the following:

8-1.04H PRECONSTRUCTION SURVEY

8-1.04H(2) General

A preconstruction meeting shall be scheduled prior to the start of construction to discuss the implementation of all survey coordination related to this project. The Contractor, Engineer and County Surveyor's Office shall be present.

The County Surveyor's Office will perform ground survey cross sections at 100 foot-station intervals prior to construction and after completion of construction (as-built) for the purpose of determining material quantities. Contractor may choose to perform similar surveys, at their own expense, for purposes of confirmation. The County Surveyor's office will utilize Trimble GPS equipment to perform an RTK survey, setting a receiver on a point on-site with known coordinates as the RTK base and additional receivers as rovers for point collection. Surface models for prior to construction and as-built construction will be developed using MicroStation and InRoads.

Network horizontal coordinate values were determined by fast-static survey on site and incorporation of CORS sites as part of the network solution. Network elevations were determined by running differential levels between published benchmarks and adjusting leveling networks. Final network coordinates were developed using Trimble TGO/TBC.

8-1.04H(3) Payment

The cost of attending these meetings shall be shall be considered as included in the various items of work and no additional compensation will be provided therefor.

Item 6: **Modification to Special Provision.** Refer to Addendum No. 1, Item 5, Special Provisions Section 15-2.02M, Demolish Buildings.

The 10th paragraph is modified as follows:

~~Wells,~~ Piping and conduits to be abandoned shall be capped or plugged immediately after being disconnected.

The following paragraph is added:

Typically homes in this area have wells; but it is unknown if wells do exist on the property. If wells are encountered, then compensation for proper abandonment of the well(s) will be paid in accordance with Section 24 of the General Conditions, Extra Work.

The 16th paragraph is modified as follows:

The Contractor shall take special precautions for the portion of work that may involve handling of materials which contain asbestos. Materials containing asbestos shall be hauled and disposed of away from the premises in strict accordance with all applicable Federal, State and local regulations, standards and codes governing asbestos removal and abatement. Also, refer to Section 28 of the General Conditions, for payment of Removal of Asbestos and Hazardous Substances.

Item 7: **Modification to Standard Specifications:** Refer to Section 73-1.02A, General, of the State Standard Specifications.

Delete from Section 73-1.02A:

~~The cementitious material content of concrete must be at least 463 lb/cu yd~~.

Item 8: **Addition to Special Provisions – Cement Content.** The following Special Provisions are added and made part hereof:

Refer to the different RCFC&WCD Standards, RCTD Standards, and City of Murrieta Standards found in Appendix B, Reference Drawings, of the Special Provisions.

Class A Concrete in RCFC&WCD Standards shall mean that concrete shall not contain less than 590 pounds of cementitious material per cubic yard.

Class B Concrete in RCTD Standards shall mean that concrete shall not contain less than 560 pounds of cementitious material per cubic yard (for Curbs, Gutter, Sidewalk, Curb Ramps).

560-C-3250 concrete in City of Murrieta Standards shall mean that concrete shall contain not less than 560 pounds of cementitious material per cubic yard, grading 'C' per Table 201-1.3.2 (A) of the Greenbook (2009 Edition), minimum 3,250 psi compressive strength at 28 days.

For cement content required for other concrete items of work (not found in Reference Drawings), refer to the State Standard Specifications.

Item 9: **Addition to Special Provisions – Debris Rack Cage/Trash Rack.** The following Special Provisions are added to Section 75-1.06 and made part hereof:

Add to section 75-1.06:

Payment for all work involved in the construction of Debris Rack Cage/Trash Rack will be considered as included in the contract price paid per pound for Miscellaneous Iron and Steel, and shall include full compensation for furnishing all labor, materials, galvanizing per Section 75-1.05, tools and equipment, and no additional compensation shall be allowed therefor.

Item 10: **Project information: Questions and Responses.** Question and response information list is available at the County of Riverside Transportation Department website:

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

The downloadable file is provided for reference only. The Contractor Questions and Responses are included with Addendum No. 5 as **Attachment C**. For any discrepancy written on these Questions and Responses sheets, the Contractor shall conform to the contract documents.

MODIFICATIONS / CLARIFICATIONS TO THE PLANS

Item 11: Plan sheet revisions. The following Plan sheets are revised by **Attachment "B"** and made a part hereof

a. Delete and replace the following three *(3)* plan sheets from the 2-lane option set:

1. Plan sheet 74 of 191
2. Plan sheet 81 of 191
3. Plan sheet 82 of 191

b. Delete and replace the following four *(4)* plan sheets from the 4-lane option set:

1. Plan sheet 76 of 195
2. Plan sheet 83 of 195
3. Plan sheet 84 of 195
4. Plan sheet 85 of 195

Note: All revised plan sheets are posted on the County website and are available for download during the advertisement period.

http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

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

Alicia Cannon

Alicia Cannon, PE

Recommended By:

John Marcinek, PE
County Project Manager

Concurrence:

7/29/15

Khalid Nasim, PE
Engineering Division Manager

Acknowledged: _____ Date: _____
(Contractor)

JRJ:jrj:rr

Note: Refer to Instruction to Bidders Item No. 8, "Addenda". Submission of all addendum pages and non-bidding document attachments of addendum are not necessary for Bid submittal. Submittal of this acknowledgement page is adequate for Bid reception. Bidders are reminded to list addendum number(s) received on the first page of the Bid form (Proposal).

ATTACHMENTS

A – Revised Proposal

B – Revised Clinton Keith Road Plan Sheets
- **(3) Plan sheets from the 2-lane option set**
- **(4) Plan sheets from the 4-lane option set**

C – Contractors Questions and Responses

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
1	016101	OBTAIN ENCROACHMENT PERMIT	FA	1	5,000.00	5,000.00
2	017101	MANHOLE (RCFC & WCDS MH 251)	EA	**15**		
3	017103	MANHOLE (RCFC & WCDS MH 252)	EA	8		
4	017105	JUNCTION STRUCTURE (RCFC & WCDS JS 227)	EA	17		
5	017114	TRANSITION STRUCTURE (RCFC & WCDS TS 303)	EA	1		
6	017305	MINOR CONCRETE (TYPE A-8 CURB) (CRS 201)	LF	9,141		
7	017306	MINOR CONCRETE (CURB RAMP) (CRS 403)	EA	5		
8	017307	MINOR CONCRETE (TYPE "C" CURB) (CRS 202)(MOD)	LF	257		
9	017309	MINOR CONCRETE (TYPE "D" CURB) (CRS 204)	LF	4,008		
10	019902	COURSE OF CONSTRUCTION INSURANCE	LS	1		
11	**000001**	**ITEM DELETED BY ADDENDUM No. 5**	-----	-----	-----	-----
12	066102	DUST ABATEMENT	LS	1		
13	066105	RESIDENT ENGINEERS OFFICE	LS	1		
14	066610	PARTNERING	LS	1		
15	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	1		
16	070030	LEAD COMPLIANCE PLAN	LS	1		
17	071321	TEMPORARY FENCE (TYPE CL-6)	LF	908		
18	071325	TEMPORARY FENCE (TYPE ESA)	LF	2,770		
19	074016	CONSTRUCTION SITE MANAGEMENT	LS	1		
20	120090	CONSTRUCTION AREA SIGNS	LS	1		
21	120100	TRAFFIC CONTROL SYSTEM	LS	1		
22	120165	CHANNELIZER (SURFACE MOUNTED)	EA	17		
23	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1		
24	150606	REMOVE FENCE (TYPE BW)	LF	1,197		
25	150608	REMOVE CHAIN LINK FENCE	LF	3,179		
26	000003	REMOVE CHAIN LNK FENCE (SLATTED)	LF	285		

ADDENDUM No. 5, Page 18 of 44

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
27	150662	REMOVE METAL BEAM GUARD RAIL	LF	110		
28	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	7,913		
29	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,104		
30	150742	REMOVE ROADSIDE SIGN	EA	13		
31	150771	REMOVE ASPHALT CONCRETE DIKE	LF	35		
32	152390	RELOCATE ROADSIDE SIGN	EA	4		
33	153103	COLD PLANE AND ASPHALT CONCRETE PAVEMENT	SQYD	**632**		
34	153130	REMOVE CONCRETE CURB	LF	77		
35	153121	REMOVE CONCRETE (CURB AND GUTTER)	LF	348		
36	153218	REMOVE CONCRETE SIDEWALK	SQFT	1,534		
37	153242A	REMOVE CONCRETE (CURB RAMP)	EA	1		
38	160101	CLEARING AND GRUBBING	LS	1		
39	170101	DEVELOP WATER SUPPLY	LS	1		
40	(F) 190101	ROADWAY EXCAVATION	CY	**420,501**		
41	**190160**	**ROCK EXCAVATION**	CY	70,000		
42	(F) 192003	STRUCTURE EXCAVATION (BRIDGE)	CY	954		
43	(F) 192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	2,974		
44	(F) 193003	STRUCTURE BACKFILL (BRIDGE)	CY	585		
45	(F) 193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	2,432		
46	(F) 193031	PERVIOUS BACKFILL (RETAINING WALL)	CY	81		
47	198205A	SUBGRADE ENHANCEMENT GEOTEXTILE (MULTI-AXIAL)	SQYD	52,975		
48	201600A	CONCRETE PAVER (TURFSTONE)	**SQFT**	**1,800**		
49	203031	EROSION CONTROL (TYPE D)	SQFT	22,486		
50	204099	PLANT ESTABLISHMENT WORK	LS	1		
51	210250	EROSION CONTROL (BONDED FIBER MATRIX WITH SEEDS)	SQFT	1,201,338		
52	210350	FIBER ROLLS	LF	69,185		
53	210430A	HYDROSEED (WILDLIFE OVERCROSSING)	SQFT	137,692		
54	210430B	HYDROSEED (RIPARIAN AREA)	SQFT	**25,102**		
55	220101	FINISHING ROADWAY	LS	1		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
56	260203	CLASS 2 AGGREGATE BASE	CY	14,127		
57	270014	CEMENT TREATED BASE (PLANT-MIXED, CLASS A) **[BUS TURNOUT]**	CY	86		
58	390129	HOT MIX ASPHALT (TYPE C)	TON	10,821		
59	390132	HOT MIX ASPHALT (TYPE A)	TON	7,240		
60	394075	PLACE HOT MIX ASPHALT DIKE (TYPE D)	LF	1,414		
61	405030	PORTLAND CEMENT CONCRETE **[BUS TURNOUT]**	CY	122		
62	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**3,621**		
63	490617	90" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**374**		
64	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1		
65	(F) 510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	313		
66	(F) 510053	STRUCTURAL CONCRETE, BRIDGE	CY	4,342		
67	(F) 510060	STRUCTURAL CONCRETE (RETAINING WALL)	CY	**620**		
68	(F) 510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	293		
69	(F) 510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	**249**		
70	510502A	MINOR CONCRETE (RETAINING WALL)	CY	11		
71	(F) 510526	MINOR CONCRETE (BACKFILL)	CY	9		
72	**(F) 511035**	FRACTURED **BASALT** TEXTURE	SQFT	3,582		
73	519092	JOINT SEAL ASSEMBLY (MR=2 1/2")	LF	273		
74	(F) 519200A	WILDLIFE OVERCROSSING AND RETAINING WALL SYSTEM	LS	1		
75	519205A	WILDLIFE UNDERCROSSING SKYLIGHT	EA	6		
76	(F) 520102	BAR REINFORCING STEEL (BRIDGE)	LB	1,233,974		
77	(F) 520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	59,816		
78	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.80" - FRAMED)	SQFT	397		
79	566011	ROADSIDE SIGN - ONE POST	EA	66		
80	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	7		
81	598001	ANTI-GRAFFITI COATING	SQFT	3,582		
82	641125	36" PLASTIC PIPE	LF	428		
83	650411	18" REINFORCED CONCRETE PIPE (CLASS IV)	LF	592		
84	650416	24" REINFORCED CONCRETE PIPE (CLASS IV)	LF	4,510		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
85	650420	30" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,095		
86	650424	36" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,958		
87	650440	60" REINFORCED CONCRETE PIPE (CLASS IV)	LF	534		
88	650480A	36" WILDLIFE CULVERT	LF	415		
89	650432	48" REINFORCED CONCRETE PIPE (CLASS IV)	LF	234		
90	665117	18" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	151		
91	665136	36" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	134		
92	665137	36" BITUMINOUS COATED STEEL PIPE RISER (0.109" THICK)	LF	24		
92.A	**692007**	**18" ENTRANCE TAPER**	**EA**	**2**		
93	703233	GRATED LINE DRAIN	LF	1,738		
94	705011	18" STEEL FLARED END SECTION	EA	2		
95	705048	36" STEEL FLARED END SECTION	EA	1		
96	**000001**	**ITEM DELETED BY ADDENDUM No. 1**	-----	-----	-----	-----
97	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	257		
98	721017	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	**3,109**		
99	(F) 721030	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	CY	**117**		
100	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	**7,115**		
100.A	**731511**	**MINOR CONCRETE (ISLAND PAVING)**	**CY**	**58**		
100.B	**000003**	**MINOR CONCRETE (PEDESTRIAN GUARD)**	**LF**	**81**		
101	731516	MINOR CONCRETE (DRIVEWAY)	CY	17		
102	731521	MINOR CONCRETE (SIDEWALK)	CY	765		
103	(F) 750001	MISCELLANEOUS IRON AND STEEL	LB	**11,274**		
104	(F) 750501	MISCELLANEOUS METAL (BRIDGE)	LB	38,307		
105	800000A	ONE WAY ACCESS OPENING	EA	9		
106	800300	WIRE MESH FENCE (3/8"x3/8" MESH)	LF	9,265		
107	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	1,775		
108	800360A	FENCE (TYPE BW)	LF	870		
109	800365	CHAIN LINK FENCE (TYPE CL-6,SLATTED)	LF	290		
110	801100	WIRE MESH GATE (3/8"x3/8" MESH)	EA	6		
111	801365A	TUBULAR STEEL GATE	EA	3		
112	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	2		
113	(F) 833000	METAL RAILING	LF	840		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (2-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 1: CLINTON KEITH ROAD, 2-LANE OPTION						
114	839521	CABLE RAILING	LF	302		
115	839601	CRASH CUSHION (TYPE CAT)	EA	2		
116	839602	CRASH CUSHION (TYPE CAT BACKUP)	EA	2		
117	839701	CONCRETE BARRIER (TYPE 60)	LF	4,210		
118	(F) 839702	CONCRETE BARRIER (TYPE 60A)	LF	840		
119	839703	CONCRETE BARRIER (TYPE 60C)	LF	34		
120	839705	CONCRETE BARRIER (TYPE 60E MODIFIED)	LF	220		
121	(F) 839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	840		
122	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	91,938		
123	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	5,961		
124	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	2,321		
125	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,873		
126	860251	SIGNAL AND LIGHTING (CLINTON KEITH/ TROIS VALLEY)	LS	1		
127	860556	SOLAR LIGHTING ON WILDLIFE CROSSING (8 LIGHTS)	LS	1		
128	860557	SOLAR LIGHTING ON WARM SPRINGS CREEK BRIDGE (4 LIGHTS)	LS	1		
129	(F) 860704A	2" INTERCONNECT CONDUIT AND TRACER WIRE	LF	2,550		
130	861497	MODIFY SIGNAL AND LIGHTING (CLINTON KEITH/WHITEWOOD)	LS	1		
131	869039A	NO.6 PULL BOX	EA	9		
132	760090	MOBILIZATION,DEMOBILZATION, AND FINAL CLEAN UP	LS	1		
132.A	**20052A**	**TREE TOPPING**	**LS**	**1**		
132.B	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (KRISTAR FLOGARD)**	**EA**	**1**		
132.C	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (CLEARWATER)**	**EA**	**1**		

ALTERNATE BID SCHEDULE 1 TOTAL: ITEMS 1-132.C _____ "WORDS" $_____

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
133	016101	OBTAIN ENCROACHMENT PERMIT	FA	1	5,000.00	5,000.00
134	017101	MANHOLE (RCFC & WCDS MH 251)	EA	11		
135	017103	MANHOLE (RCFC & WCDS MH 252)	EA	6		
136	017701A	MODIFIED MANHOLE 1	EA	4		
137	017701B	MODIFIED MANHOLE 2	EA	2		
138	017105	JUNCTION STRUCTURE (RCFC & WCDS JS 227)	EA	17		
139	017114	TRANSITION STRUCTURE (RCFC & WCDS TS 303)	EA	1		
140	017305	MINOR CONCRETE (TYPE A-8 CURB) (CRS 201)	LF	12,316		
141	017306	MINOR CONCRETE (CURB RAMP) (CRS 403)	EA	7		
142	017309	MINOR CONCRETE (TYPE "D" CURB) (CRS 204)	LF	1,273		
143	019902	COURSE OF CONSTRUCTION INSURANCE	LS	1		
144	**000001**	**ITEM DELETED BY ADDENDUM No. 5**	-----	-----	-----	-----
145	066102	DUST ABATEMENT	LS	1		
146	066105	RESIDENT ENGINEERS OFFICE	LS	1		
147	066610	PARTNERING	LS	1		
148	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	1		
149	070030	LEAD COMPLIANCE PLAN	LS	1		
150	071321	TEMPORARY FENCE (TYPE CL-6)	LF	908		
151	071325	TEMPORARY FENCE (TYPE ESA)	LF	2,770		
152	074016	CONSTRUCTION SITE MANAGEMENT	LS	1		
153	120090	CONSTRUCTION AREA SIGNS	LS	1		
154	120100	TRAFFIC CONTROL SYSTEM	LS	1		
155	120165	CHANNELIZER (SURFACE MOUNTED)	EA	17		
156	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1		
157	150606	REMOVE FENCE (TYPE BW)	LF	1,197		
158	150608	REMOVE CHAIN LINK FENCE	LF	3,179		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
159	150608A	REMOVE WROUGHT IRON FENCE	LF	185		
160	000003	REMOVE CHAIN LINK FENCE (SLATTED)	LF	285		
161	150662	REMOVE METAL BEAM GUARD RAIL	LF	110		
162	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	7,913		
163	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,104		
164	150742	REMOVE ROADSIDE SIGN	EA	12		
165	150771	REMOVE ASPHALT CONCRETE DIKE	LF	35		
166	152353	RECONSTRUCT IRRIGATION SYSTEM (TROIS VALLEY)	LS	1		
167	152390	RELOCATE ROADSIDE SIGN	EA	3		
168	153103	COLD PLANE AND ASPHALT CONCRETE PAVEMENT	SQYD	**632**		
169	153130	REMOVE CONCRETE CURB	LF	77		
170	153121	REMOVE CONCRETE (CURB AND GUTTER)	LF	348		
171	153218	REMOVE CONCRETE SIDEWALK	SQFT	1,534		
172	153242A	REMOVE CONCRETE (CURB RAMP)	EA	1		
173	160101	CLEARING AND GRUBBING	LS	1		
174	170101	DEVELOP WATER SUPPLY	LS	1		
175	(F) 190101	ROADWAY EXCAVATION	CY	**429,067**		
176	**190160**	**ROCK EXCAVATION**	CY	70,000		
177	(F) 192003	STRUCTURE EXCAVATION (BRIDGE)	CY	954		
178	(F) 192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	7,991		
179	(F) 193003	STRUCTURE BACKFILL (BRIDGE)	CY	585		
180	(F) 193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	6,548		
181	(F) 193031	PERVIOUS BACKFILL (RETAINING WALL)	CY	341		
182	198205A	SUBGRADE ENHANCEMENT GEOTEXTILE (MULTI-AXIAL)	SQYD	72,678		
183	201600A	CONCRETE PAVER (TURFSTONE)	**SQFT**	**1,800**		
184	203031	EROSION CONTROL (TYPE D)	SQFT	22,486		
185	204099	PLANT ESTABLISHMENT WORK	LS	1		
186	210250	EROSION CONTROL (BONDED FIBER MATRIX WITH SEEDS)	SQFT	996,422		
187	210350	FIBER ROLLS	LF	73,420		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
188	210430B	HYDROSEED (WILDLIFE OVERCROSSING)	SQFT	137,692		
189	210430C	HYDROSEED (RIPARIAN AREA)	SQFT	**25,102**		
190	220101	FINISHING ROADWAY	LS	1		
191	260203	CLASS 2 AGGREGATE BASE	CY	19,701		
192	270014	CEMENT TREATED BASE (PLANT-MIXED, CLASS A) **[BUS TURNOUT]**	CY	143		
193	390129	HOT MIX ASPHALT (TYPE C)	TON	14,812		
194	390132	HOT MIX ASPHALT (TYPE A)	TON	9,900		
195	405030	PORTLAND CEMENT CONCRETE **[BUS TURNOUT]**	CY	204		
196	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**3,621**		
197	490617	90" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	**374**		
198	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	1		
199	(F) 510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	313		
200	(F) 510053	STRUCTURAL CONCRETE, BRIDGE	CY	4,342		
201	(F) 510060	STRUCTURAL CONCRETE (RETAINING WALL)	CY	**1,437**		
202	(F) 510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	293		
203	(F) 510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	**236**		
204	510502A	MINOR CONCRETE (RETAINING WALL)	CY	26		
205	(F) 510526	MINOR CONCRETE (BACKFILL)	CY	9		
206	**(F) 511035**	FRACTURED **BASALT** TEXTURE	SQFT	11,433		
207	519092	JOINT SEAL ASSEMBLY (MR=2 1/2")	LF	273		
208	(F) 519200A	WILDLIFE OVERCROSSING AND RETAINING WALL SYSTEM	LS	1		
209	519205A	WILDLIFE UNDERCROSSING SKYLIGHT	EA	6		
210	(F) 520102	BAR REINFORCING STEEL (BRIDGE)	LB	1,233,974		
211	(F) 520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	161,977		
212	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.80" - FRAMED)	SQFT	377		
213	566011	ROADSIDE SIGN - ONE POST	EA	69		
214	586001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	3		
215	598001	ANTI-GRAFFITI COATING	SQFT	11,433		
216	641125	36" PLASTIC PIPE	LF	428		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
217	650411	18" REINFORCED CONCRETE PIPE (CLASS IV)	LF	**1,088**		
218	650416	24" REINFORCED CONCRETE PIPE (CLASS IV)	LF	4,566		
219	650420	30" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,103		
220	650424	36" REINFORCED CONCRETE PIPE (CLASS IV)	LF	1,958		
221	650440	60" REINFORCED CONCRETE PIPE (CLASS IV)	LF	534		
222	650480A	36" WILDLIFE CULVERT	LF	415		
223	650432	48" REINFORCED CONCRETE PIPE (CLASS IV)	LF	234		
224	665117	18" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	305		
225	665136	36" BITUMINOUS COATED STEEL PIPE (0.079" THICK)	LF	134		
226	665137	36" BITUMINOUS COATED STEEL PIPE RISER (0.109" THICK)	LF	24		
226.A	**692007**	**18" ENTRANCE TAPER**	**EA**	**5**		
227	703233	GRATED LINE DRAIN	LF	79		
228	705011	18" STEEL FLARED END SECTION	EA	5		
229	705048	36" STEEL FLARED END SECTION	EA	1		
230	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	257		
231	721017	ROCK SLOPE PROTECTION (FACING, METHOD B)	CY	**4,866**		
232	(F) 721030	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	CY	117		
233	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	**10,219**		
234	727901	MINOR CONCRETE (DITCH LINING)	CY	9		
234.A	**731511**	**MINOR CONCRETE (ISLAND PAVING)**	**CY**	**58**		
234.B	**000003**	**MINOR CONCRETE (PEDESTRIAN GUARD)**	**LF**	**81**		
235	731516	MINOR CONCRETE (DRIVEWAY)	CY	17		
236	731521	MINOR CONCRETE (SIDEWALK)	CY	853		
237	(F) 750001	MISCELLANEOUS IRON AND STEEL	LB	**3,433**		
238	(F) 750501	MISCELLANEOUS METAL (BRIDGE)	LB	38,307		
239	800000A	ONE WAY ACCESS OPENING	EA	9		
240	800300	WIRE MESH FENCE (3/8"x3/8" MESH)	LF	9,265		
241	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	1,775		
242	800360A	FENCE (TYPE BW)	LF	870		
243	800365	CHAIN LINK FENCE (TYPE CL-6,SLATTED)	LF	290		
244	801100	WIRE MESH GATE (3/8"x3/8" MESH)	EA	4		
245	801365A	TUBULAR STEEL GATE	EA	4		

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

REVISED PROPOSAL (4-Lane Option)

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 2: CLINTON KEITH ROAD, 4-LANE OPTION						
246	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	2		
247	000003	WROUGHT IRON FENCE	LF	205		
248	(F) 833000	METAL RAILING	LF	840		
249	833020	CHAIN LINK RAILING	LF	415		
250	839521	CABLE RAILING	LF	302		
251	839601	CRASH CUSHION (TYPE CAT)	EA	2		
252	839602	CRASH CUSHION (TYPE CAT BACKUP)	EA	2		
253	839701	CONCRETE BARRIER (TYPE 60)	LF	4,280		
254	(F) 839702	CONCRETE BARRIER (TYPE 60A)	LF	840		
255	839703	CONCRETE BARRIER (TYPE 60C)	LF	34		
256	839705	CONCRETE BARRIER (TYPE 60E MODIFIED)	LF	220		
257	839726	CONCRETE BARRIER (TYPE 736A)	LF	415		
258	(F) 839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	840		
259	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	72,085		
260	840505	6" THERMOPLASTIC TRAFFIC STRIPE	LF	413		
261	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	5,103		
262	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	2,885		
263	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,680		
264	860251	SIGNAL AND LIGHTING (CLINTON KEITH/MENIFEE)	LS	1		
265	860251	SIGNAL AND LIGHTING (CLINTON KEITH/ TROIS VALLEY)	LS	1		
266	860556	SOLAR LIGHTING ON WILDLIFE CROSSING (8 LIGHTS)	LS	1		
267	860557	SOLAR LIGHTING ON WARM SPRINGS CREEK BRIDGE (4 LIGHTS)	LS	1		
268	(F) 860704A	2" INTERCONNECT CONDUIT AND TRACER WIRE	LF	2,800		
269	861497	MODIFY SIGNAL AND LIGHTING (CLINTON KEITH/WHITEWOOD)	LS	1		
270	(F) 867014	12 SINGLE MODE FIBER OPTIC CABLE	LF	2,800		
271	869039A	NO.6 PULL BOX	EA	11		
272	019901	MOBILIZATION,DEMOBILZATION, AND FINAL CLEAN UP	LS	1		
272.A	**20052A**	**TREE TOPPING**	**LS**	**1**		
272.B	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (KRISTAR FLOGARD)**	**EA**	**2**		
272.C	**000003**	**DRAINAGE INLET FILTRATION SYSTEM (CLEARWATER)**	**EA**	**1**		

ALTERNATE BID SCHEDULE 2 TOTAL: _____ $_____
ITEMS 133-272.C "WORDS"

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

Clinton Keith Road Construction Project - Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

REVISED PROPOSAL

ITEM No.	ITEM CODE	ITEM	UNIT	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
ALTERNATE BID SCHEDULE 3: EASTERN MUNICIPAL WATER DISTRICT						
273	000003	EMWD WATER LINE THROUGH WARM SPRINGS CREEK	LS	1		

ALTERNATE BID SCHEDULE 3 TOTAL: _____ $_____
ITEM 273 "WORDS"

ALTERNATE BID SCHEDULE 4: DEMOLISH BUILDINGS						
274	000003	DEMOLISH BUILDINGS	LS	1		

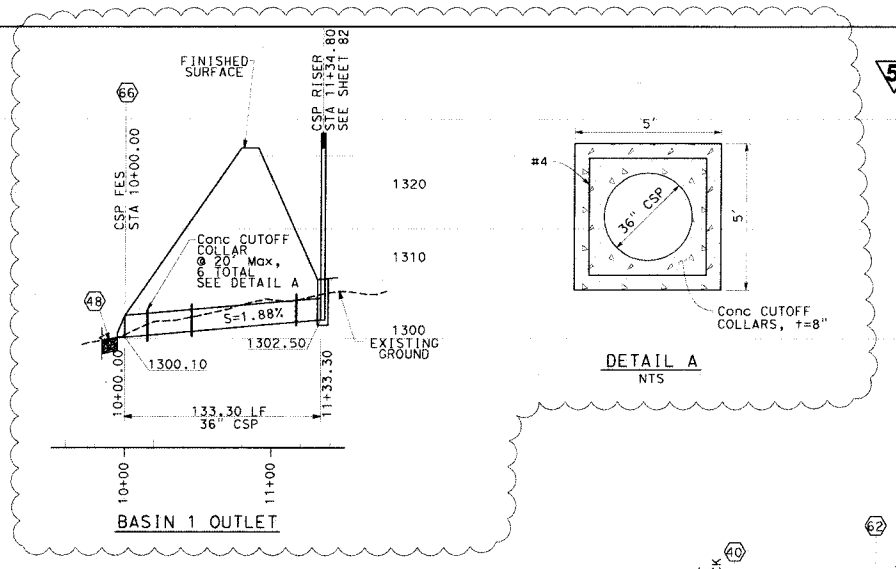
ALTERNATE BID SCHEDULE 4 TOTAL: _____ $_____
ITEM 274 "WORDS"

ALTERNATE BID SCEHEDULES 1, 2, 3 AND 4

PROJECT TOTAL: _____ $_____
ITEMS 1-274 "WORDS"

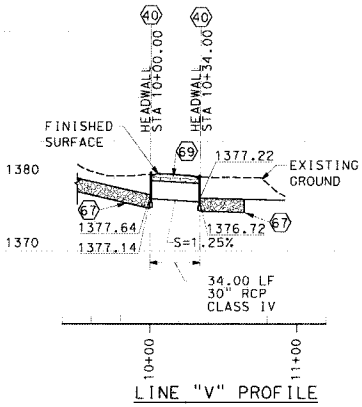
In addition to 'Instruction to Bidders' item 13, Alternate Bid Schedules:
- **The County may award Alternate Bid Schedule 1 or Alteranate Bid Schedule 2 items of work.**
- **If Alternate Bid Schedule 1 is selected, then Alternate Bid Schedule 2 will not be awarded and vice versa.**

Note: See 'Instructions to Bidders' item 16, Like Bid Items. "Like Bid Item" bidding requirement does not apply to this project.

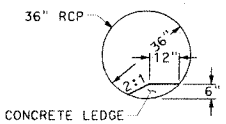


BASIN 1 OUTLET

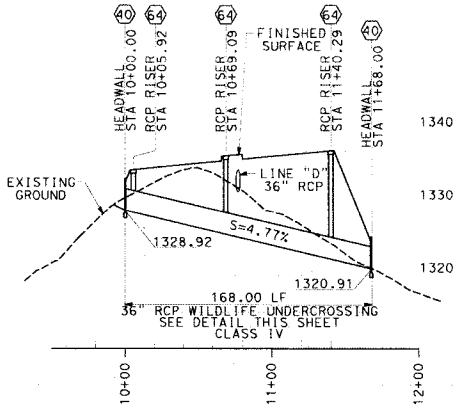
DETAIL A
NTS



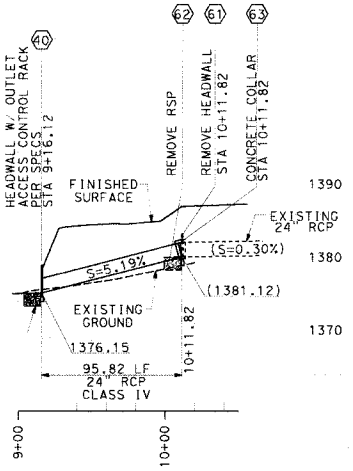
LINE "V" PROFILE



36" RCP WILDLIFE UNDERCROSSING LEDGE DETAIL
NTS



LINE "S" PROFILE



LINE "U" PROFILE

CONSTRUCTION NOTES:

(40) CONSTRUCT HEADWALL PER CALTRANS DETAIL D89.

(48) INSTALL RSP PER DETAILS, SHEETS 77 AND 78.

(61) REMOVE HEADWALL

(62) REMOVE RSP

(63) CONSTRUCT CONCRETE COLLAR, SHEET 80.

(64) CONSTRUCT SKYLIGHT OVER 36" RCP RISER PER CALTRANS STD PLAN D93A AND DETAILS SHEET 37.

(66) CONSTRUCT FES PER CALTRANS STD PLAN D94B

(67) CONSTRUCT RSP SWALE, SEE SHEET 77.

(69) CONSTRUCT CONCRETE BACKFILL, SEE SHEET 79.

NOTES:

1. RSP SHALL BE CONSTRUCTED IN LAYERS AS SHOWN IN THE TYPICAL SECTION. PLACEMENT SHALL BE METHOD B. DEPTHS SHOWN ARE MIN.
2. FG SHALL BE FLUSH WITH OG.
3. RSP FABRIC SHALL BE PROVIDED AT ALL SOIL INTERFACES.

ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"

5 REVISED PER ADDENDUM No. 5

SCALES: 1" = 40' HOR
1" = 8' VER

CH2MHILL ENGINEERING COMPANY

APPROVED BY: SHENG-CHUAN HSU, C45806, 12/31/16, PROJECT ENGINEER — APRIL 14, 2015 DATE

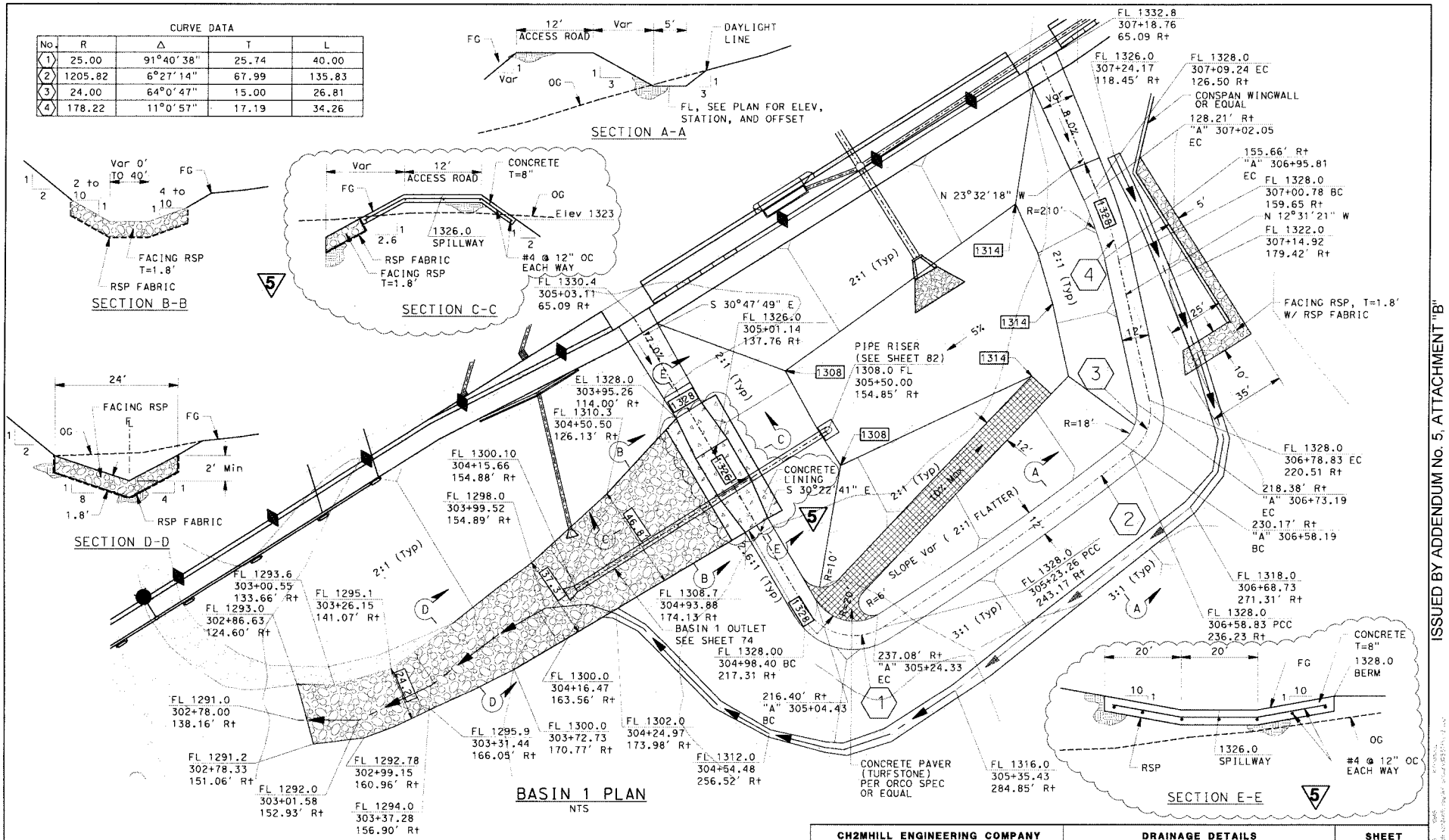
DESIGNED BY	DRAWN BY	CHECKED BY
TC	TC	CH

DRAINAGE PROFILE

CLINTON KEITH ROAD
FROM
WHITEWOOD ROAD TO LEON ROAD

SHEET 74 of 191

PROJECT No. B2-0472 ARCHIVE No. **962-W**



NOTE:

5 **REVISED PER ADDENDUM No. 5**

STATIONS SHOWN REFER TO CLINTON KEITH ROAD UNLESS OTHERWISE NOTED.

CH2MHILL ENGINEERING COMPANY	DRAINAGE DETAILS	SHEET
APPROVED BY: SHENG-CHUAN HSU C45806 exp. 12/31/16 PROJECT ENGINEER — APRIL 14, 2015 DATE	**CLINTON KEITH ROAD** FROM WHITEWOOD ROAD TO LEON ROAD	81 of 191
DESIGNED BY TC / DRAWN BY TC / CHECKED BY CH	PROJECT No. B2-0472 ARCHIVE No. **962-W**	

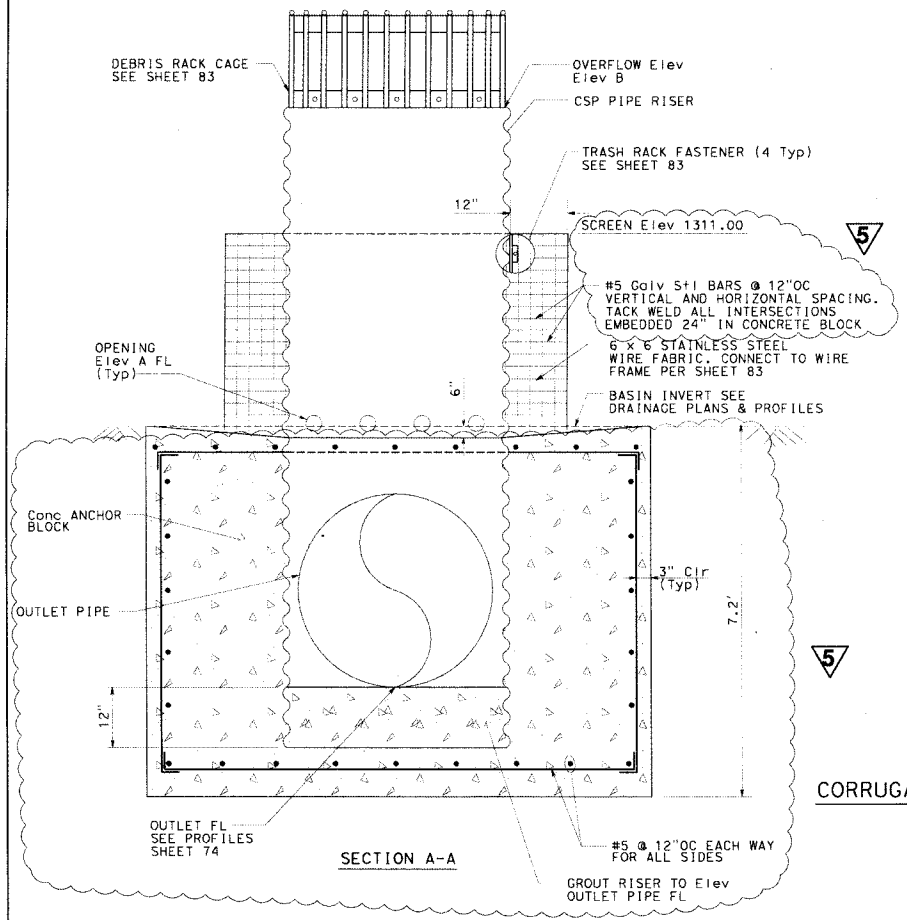
ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"

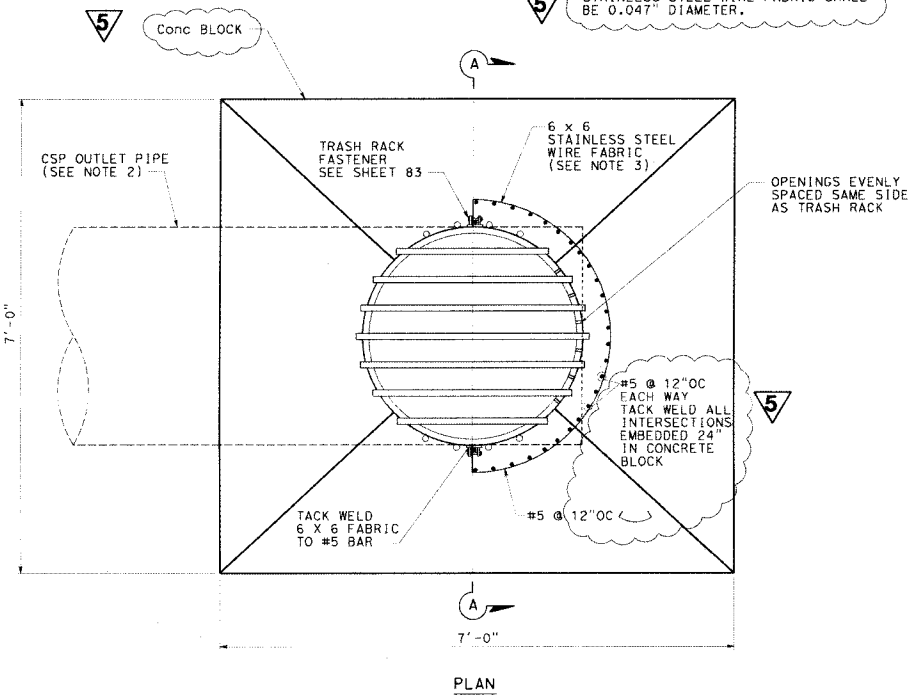
BASIN	DRAINAGE SYSTEM	PIPE RISER SIZE (in)	OPENING AT Elev A NUMBER X SIZE	Elev A	Elev B (OVERFLOW Elev)	CSP THICKNESS (in)
1	D	36	1 x 1.75"	1308.00		
			2 x 4.50"	1324.00	1326.10	0.109

NOTES:

1. SLOPE APRON TO MATCH GRADE OF BERM WHEN APRON IS ON BERM.
2. CORRUGATED STEEL PIPE RISER SHALL BE PROTECTED WITH BITUMINOUS COATING.
3. TRASH SCREEN SHALL BE COVERED WITH 6 x 6 STAINLESS STEEL WIRE FABRIC AT SCREEN ELEVATION.

5 STAINLESS STEEL WIRE FABRIC SHALL BE 0.047" DIAMETER.





PLAN

CORRUGATED STEEL PIPE RISER

(BASIN 1)

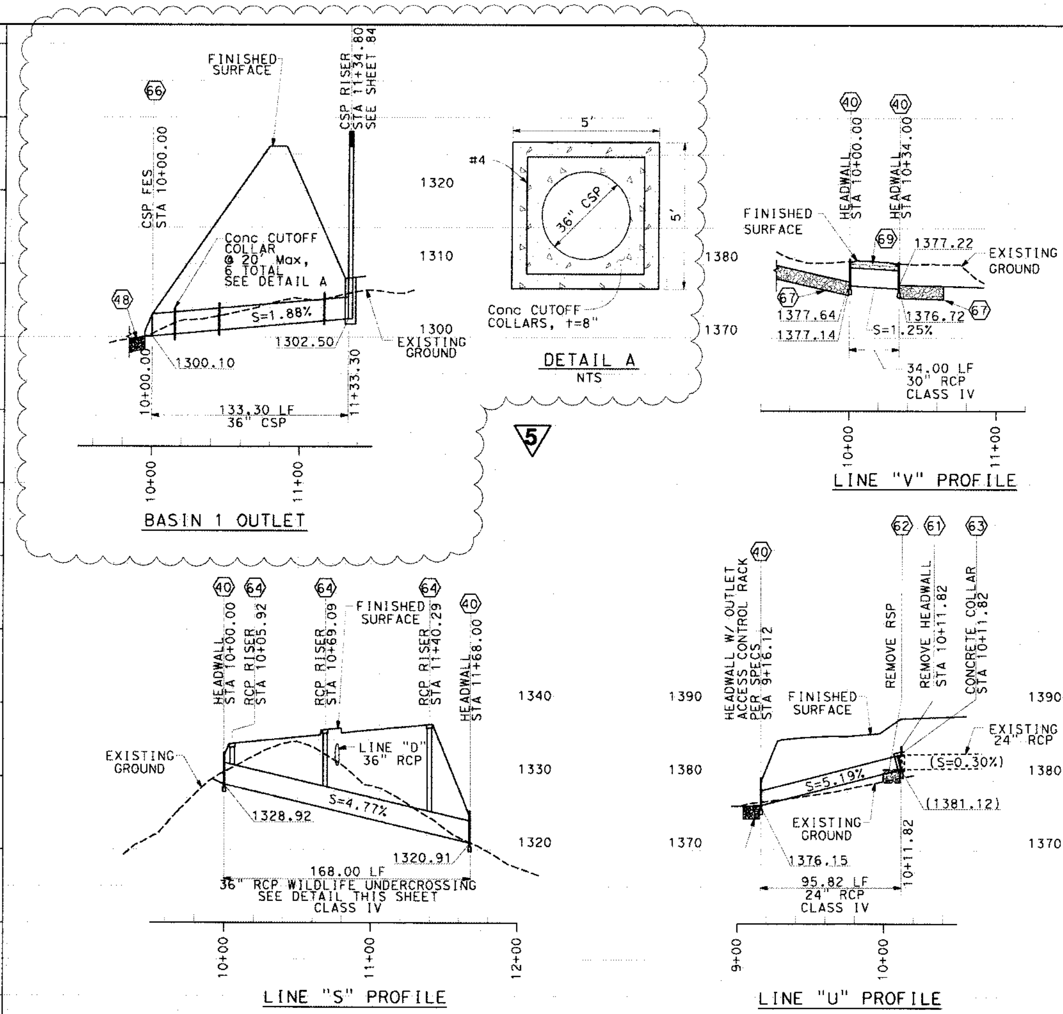
Don't Dig... Until You Call U.S.A. Toll Free 800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

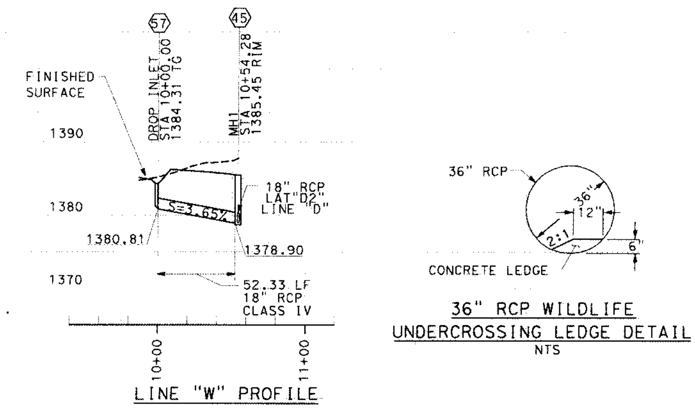
5 REVISED PER ADDENDUM No. 5

CH2MHILL ENGINEERING COMPANY	DRAINAGE DETAILS	SHEET
APPROVED BY: SHENG-CHUAN HSU, C45806, 12/31/16, PROJECT ENGINEER — APRIL 14, 2015 DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	82 of 191
DESIGNED BY TC / DRAWN BY TC / CHECKED BY CH		

PROJECT No. B2-0472 ARCHIVE No. 962-W

ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"





CONSTRUCTION NOTES:

- (40) CONSTRUCT HEADWALL PER CALTRANS DETAIL D89.
- (48) INSTALL RSP PER DETAILS, SHEETS 79 AND 80.
- (57) CONSTRUCT G1 INLET PER CLATRANS STD PLAN D73.
- (61) REMOVE HEADWALL
- (62) REMOVE RSP
- (63) CONSTRUCT CONCRETE COLLAR, SHEET 82.
- (64) CONSTRUCT SKYLIGHT OVER 36" RCP RISER PER CALTRANS STD PLAN D93A AND DETAILS SHEET 39.
- (66) CONSTRUCT FES PER CALTRANS STD PLAN D94B
- (67) CONSTRUCT RSP SWALE, SEE SHEET 79.
- (69) CONSTRUCT CONCRETE BACKFILL, SEE SHEET 81.

NOTES:

1. RSP SHALL BE CONSTRUCTED IN LAYERS AS SHOWN IN THE TYPICAL SECTION. PLACEMENT SHALL BE METHOD B. DEPTHS SHOWN ARE MIN.
2. FG SHALL BE FLUSH WITH OG.
3. RSP FABRIC SHALL BE PROVIDED AT ALL SOIL INTERFACES.

Don't Dig... Until You Call U.S.A. Toll Free 800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

5 REVISED PER ADDENDUM No. 5

SCALES: 1" = 40' HOR, 1" = 8' VER

CH2MHILL ENGINEERING COMPANY

APPROVED BY: SHENG-CHUAN HSU, PROJECT ENGINEER — APRIL 14, 2015 (DATE)

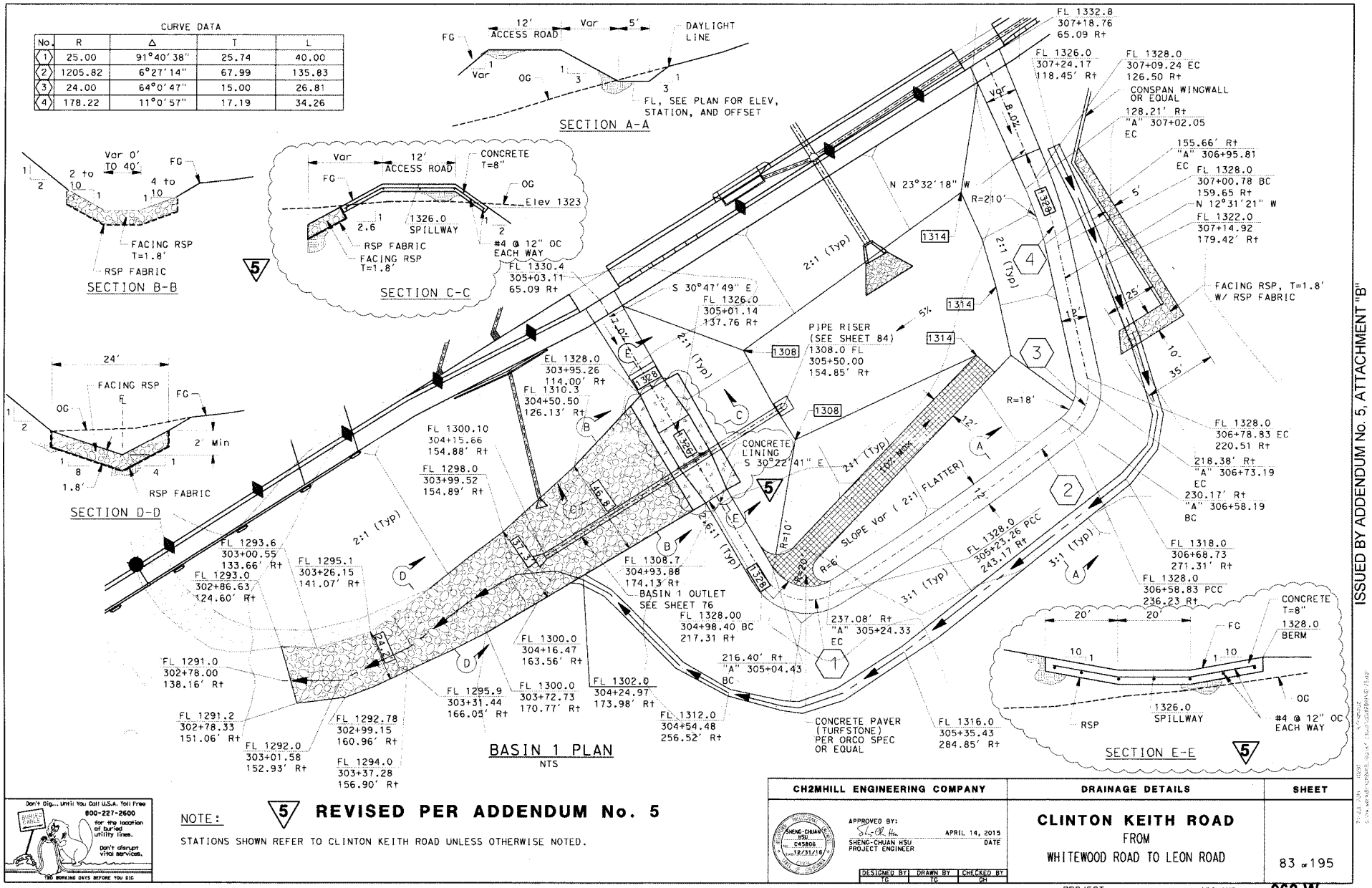
DESIGNED BY	DRAWN BY	CHECKED BY
TC	TC	CH

DRAINAGE PROFILE

CLINTON KEITH ROAD
FROM
WHITEWOOD ROAD TO LEON ROAD

PROJECT No. B2-0472 — ARCHIVE No.

SHEET 76 of 195 — 962-W



NOTE:

5 REVISED PER ADDENDUM No. 5

STATIONS SHOWN REFER TO CLINTON KEITH ROAD UNLESS OTHERWISE NOTED.

CH2MHILL ENGINEERING COMPANY	DRAINAGE DETAILS	SHEET
APPROVED BY: SHENG-CHUAN HSU, PROJECT ENGINEER, APRIL 14, 2015 DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	83 of 195
DESIGNED BY TC / DRAWN BY TC / CHECKED BY CH	PROJECT No. B2-0472 ARCHIVE No. 962-W	

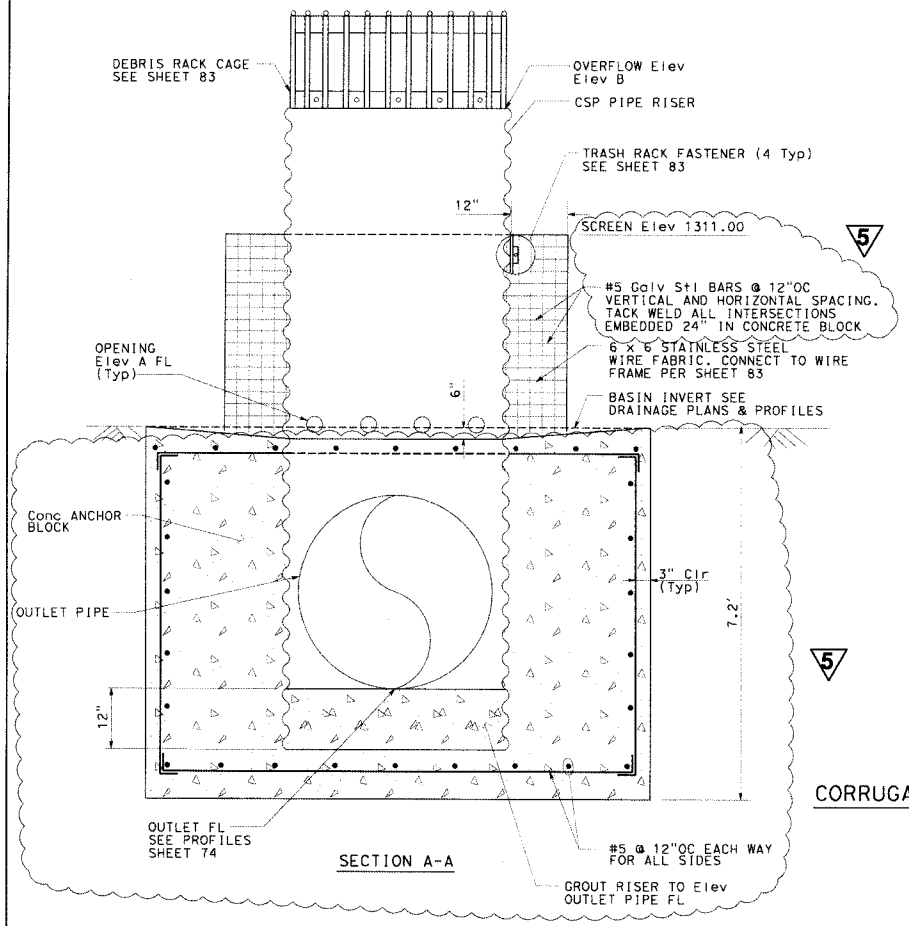
ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"

BASIN	DRAINAGE SYSTEM	PIPE RISER SIZE (in)	OPENING AT Elev A NUMBER X SIZE	Elev A	Elev B (OVERFLOW Elev)	CSP THICKNESS (in)
1	D	36	1 x 1.75"	1308.00	1326.10	0.109
			2 x 4.50"	1324.00		

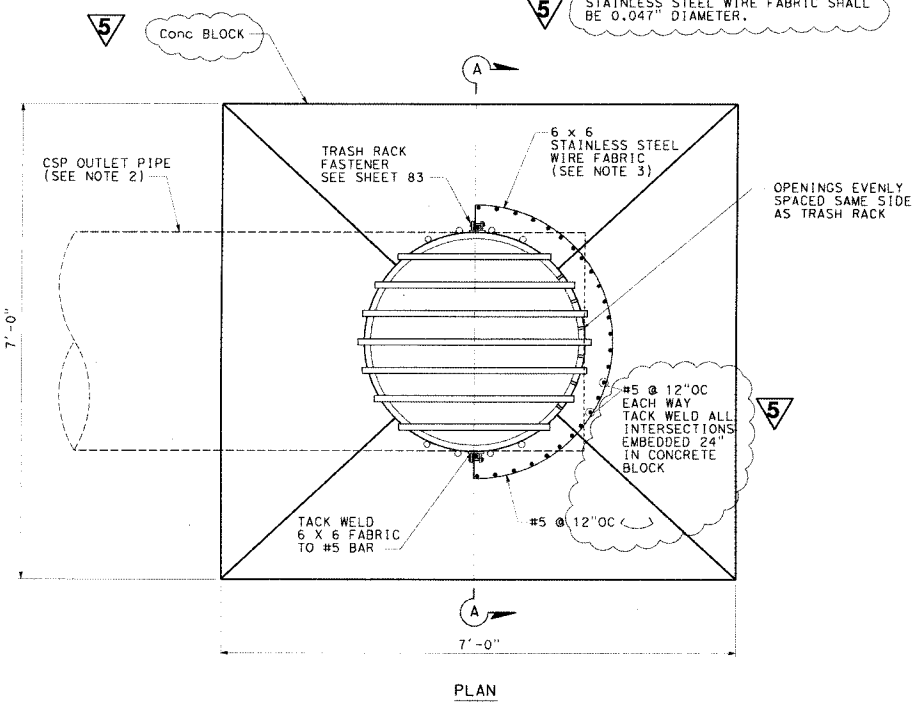
NOTES:

1. SLOPE APRON TO MATCH GRADE OF BERM WHEN APRON IS ON BERM.
2. CORRUGATED STEEL PIPE RISER SHALL BE PROTECTED WITH BITUMINOUS COATING.
3. TRASH SCREEN SHALL BE COVERED WITH 6 x 6 STAINLESS STEEL WIRE FABRIC AT SCREEN ELEVATION.

5 STAINLESS STEEL WIRE FABRIC SHALL BE 0.047" DIAMETER.



SECTION A-A



PLAN

CORRUGATED STEEL PIPE RISER

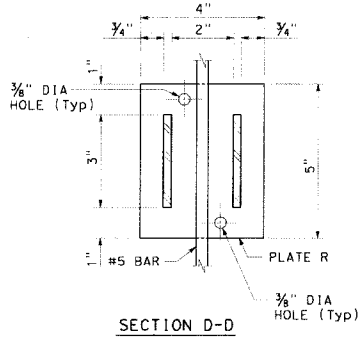
(BASIN 1)

Don't Dig... Until You Call U.S.A. Toll Free 800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

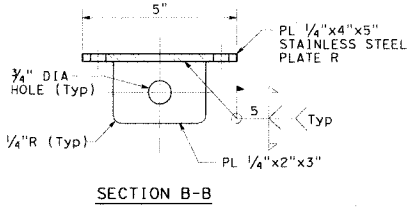
5 REVISED PER ADDENDUM No. 5

CH2MHILL ENGINEERING COMPANY	DRAINAGE DETAILS	SHEET
APPROVED BY: SHENG-CHUAN HSU PROJECT ENGINEER — APRIL 14, 2015 DATE	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	84 of 195
DESIGNED BY TC / DRAWN BY TC / CHECKED BY GH		
PROJECT No. B2-0472	ARCHIVE No. 962-W	

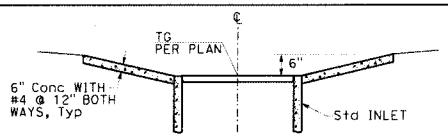
ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"



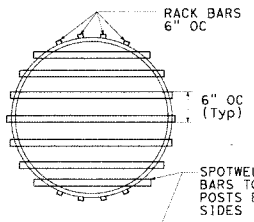
SECTION D-D



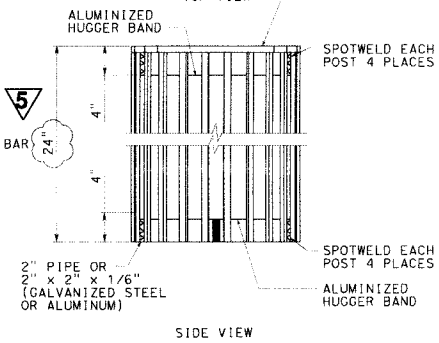
SECTION B-B



SECTION E-E

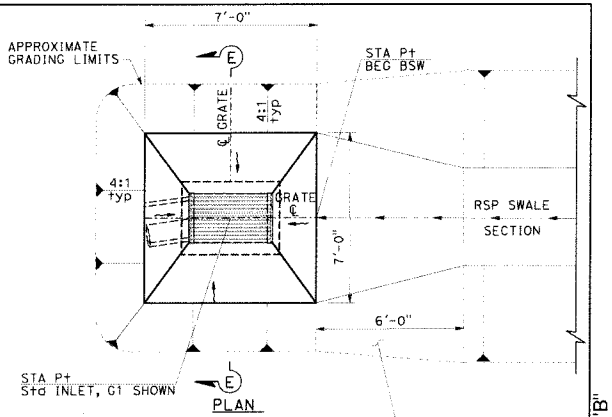


TOP VIEW



SIDE VIEW

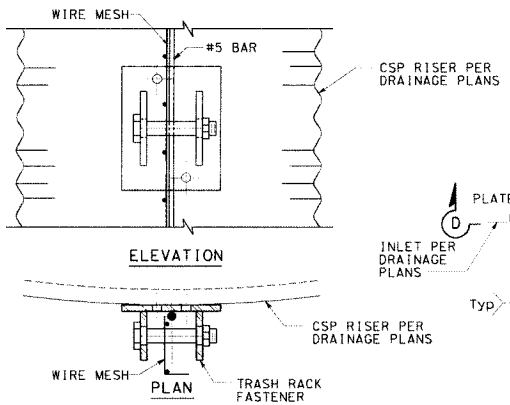
DEBRIS RACK CAGE



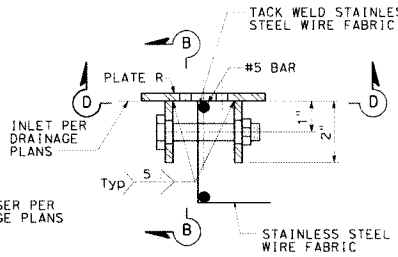
PLAN

TYPICAL PLACEMENT

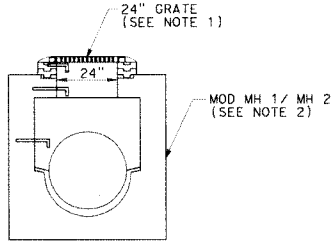
CONCRETE APRON



TRASH RACK FASTENER



DETAIL 1



MOD MH1 & MH2

NOTES:

1. TRASH RACK FASTENERS SHALL BE BOLTED TO CSP RISER AT LOCATIONS SHOWN.
2. ALL HARDWARE AND FABRICATION MATERIALS SHALL BE STAINLESS STEEL.
3. ALL BARS SHALL BE STAINLESS STEEL.

NOTES:

1. ALL REINFORCING STEEL SHALL BE #4 BARS.
2. TOP BARS: TYPE SAME AS RACK EXCEPT USE 1" DIA BARS WHEN RACK BARS ARE ½" DIA.
3. RACK: USE 2" GALVANIZED STEEL OR ALUMINUM PIPE 2" x 2" x ¼" OR ½" DIA BARS, 1" DIA BARS ON TOP (GALVANIZED STEEL OR ALUMINUM)

NOTES:

1. ALHAMBRA FOUNDARY A-1558-24 GRATE AND FRAME OR EQUAL.
2. FOR DETAILS OF MOD MH1 AND MOD MH2 NOT SHOWN HERE, SEE DETAILS ON RCFC AND WCD STD MH251 AND MH 252 RESPECTIVELY.

5 REVISED PER ADDENDUM No. 5

CH2MHILL ENGINEERING COMPANY	DRAINAGE DETAILS	SHEET
APPROVED BY: SHENG-CHUAN HSU C45806 12/31/16 — SHENG-CHUAN HSU PROJECT ENGINEER — APRIL 14, 2015 DATE DESIGNED BY TC · DRAWN BY TC · CHECKED BY CH	CLINTON KEITH ROAD FROM WHITEWOOD ROAD TO LEON ROAD	85 of 195
PROJECT No. B2-0472	ARCHIVE No. 962-W	

ISSUED BY ADDENDUM No. 5, ATTACHMENT "B"

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

ATTACHMENT "C" 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://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids

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.

Clinton Keith Road Construction Project – Phase 2
From Whitewood Road to Leon Road
In the City of Murrieta and French Valley Area
Project No. B2-04722

Refer to Addenda No. 1 and 3 for Questions and Responses 1 through 78

CONTRACTOR QUESTIONS AND RESPONSES		
79	Question	See Section 8-1.04H Pre-Construction Survey. Please define what is meant by .... "and shall be monitored before, during and after roadway excavation operations." Specifically, what is meant by monitoring and what is the purpose of during operations?
	Response	See Addendum No. 5, Section 8-1.01H, Preconstruction Survey, has been deleted and replaced.
80	Question	See Section 13 Water Pollution Control. Without a preliminary SWPPP it makes it difficult to include the appropriate cost for temporary BMP's that will satisfy the County. Will the County please add bid items for Temporary BMP's such as Construction Entrances, Street Sweeping, Silt Fence, Fiber Rolls, Inlet Protection, Etc.? This is common bidding practice on Caltrans projects.
	Response	The awarded Contractor is required to prepare the SWPPP; therefore, Contractors need to include the cost for BMPs. BMPs individual items will not be added to the bid items list.
81	Question	See Addition to Section 19-2.03D regarding riparian areas. Last sentence states.... Impacted riparian areas will be re-graded to original contours as feasible once construction is complete, stockpiled topsoil will be incorporated and redistributed across riparian area as shown on the plans. Please specify or provide plan sheet showing limits of stripping and replacement. Which bid item is this work paid under?
	Response	Plans sheets 51 and 54 of 191 (2-lane), and 53 and 56 of 195 (4-lane). See Addendum No. 3, Special Provision 19-3.04 was modified. Compensation for stockpiling topsoil, redistributing topsoil and re-grading contours in the riparian areas as described in section 19-2.03D is considered as included in the contract unit price for roadway excavation.
82	Question	The US Army Corps permit has not been posted on your web-site yet. The contractor needs to know their restrictions in Warm Springs Creek in order to bid the bridge work. When will this info be available?
	Response	See Addendum No. 5 for information regarding environmental permits supplemental project information not being available during the advertisement period.
83	Question	California Public Contract Code 7105 is evoked through section 5-1.39B of the 2010 Caltrans Standard Specification, and is also referenced on page GC9- Section 6 of the Special Provisions. If CA PCC 7105 caps the Contractors responsibility for quake and tsunami at 5% of the contract value, is it still necessary for the Contractor to provide a Course of Construction policy "that includes coverage for earth movement for the full value of the contract" as required in the County Provisions – Section 00-1.07?
	Response	California Public Contract Code 7105 also states: *"This section shall not prohibit a public agency from requiring that a contractor obtain insurance to indemnify the public agency for any damage to the work caused by an act of God if the insurance premium is a separate bid item."* Course of Construction Insurance is a separate bid item and it is required for this project per Section 00-1.07 of the Special Provisions.

ADDENDUM No. 5, Page 37 of 44