

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO: 11	Suppl. No. 0	Contract No. 04 - 0120F4	Road SF-80-13.2/13.9	FED. AID LOC.:
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To: AMERICAN BRIDGE/FLUOR ENTERPRISES INC A JOINT VENT

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Incorporate the following changes into the Project Plan Sheets:

1. Revise Project Plan Sheet Numbers 5, 6, and 7 of 1204, as shown on sheets 4, 5 and 6 of this change order.
2. Revise Plan sheet numbers 97, 98, and 99 of 1204 (E-14, E-15, and E-16) to reflect revised electrical manhole elevations, as shown on sheets 7, 8 and 9 of this change order.
3. On plan sheet number 132 of 1204: SHEET NOTE 5 should reference "Sheet No. 965 of 1204" instead of "Sheet No. 934 of 1161", as shown on sheet 10 of this change order.
4. On plan sheet numbers 133 and 208 of 1204: SHEET NOTE 3 should reference "Sheet No. 965 of 1204" instead of "Sheet No. 934 of 1161", as shown on sheets 11 and 12 of this change order.
5. On Project plan sheet number 233 of 1204: Revise electrical notation number 3 to read : "Ground cable shall be installed along full length of the 15 KV cable tray only", as shown on sheets 13 of this change order.

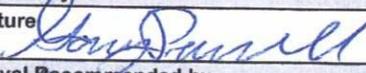
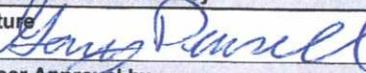
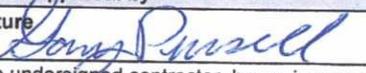
Incorporate the following changes into the Project Special Provisions:

1. Revise the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM", as shown on sheet 2 of this change order.
2. Revise the Special Provisions, Section 8-4.01, "AUDITS", as shown on sheet 3 of this change order.
3. Revise the Special Provisions, Section 5-1.25, "PAYMENTS", as shown on sheet 3 of this change order.
4. Revise the Special Provisions, Section 10-1.17, "ACCELERATED WORKING DRAWINGS SUBMITTAL", as shown on sheet 3 of this change order.
5. Revise the Special Provisions, Section 10-1.49, "TOWER CROSS BRACING SPHERICAL BUSHING BEARING", as shown on sheet 3 of this change order.

This is a no cost change order.

Estimated Cost: Increase Decrease \$0.00

By reason of this order the time of completion will be adjusted as follows: 0 days

Submitted by		
Signature 	Resident Engineer: Gary Pursell	Date 11/26/06
Approval Recommended by		
Signature 	Construction Engineer: Gary Pursell	Date 11/27/06
Engineer Approval by		
Signature 	(Print name and title) Peter Siegenthaler - Chief	Date 12/6/06

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
Signature 	(Print name and title) Michael D. Flowers Project Director	Date 12-1-06

CONTRACT CHANGE ORDER NO. 11 SUPPL. NO. ---
ROAD 04-SF-80-13.2, 13.9 SHEET 2 OF 13 SHEETS
FEDERAL NO.(S) _____ CONTRACT NO.: 04-0120F4

A. DEHUMIDIFICATION SYSTEM INSTALLATION AND MAINTENANCE

1. In the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM," the "Instruction Manual" paragraph, Item C is revised as follows:

"C. Maintenance recommendations and instructions for each type of equipment, including filter inspection schedule at start-up and initial operation."

2. In the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM," the "Dehumidifiers" paragraph, the following two (2) paragraphs are added after the first paragraph:

"The Contractor shall coordinate plant installation access considerations with the dehumidification equipment manufacturer. After assembly and testing of the dehumidification equipment, it shall be capable of being disassembled into sections that expedites final assembly in the field using available access routes and access openings. The disassembled sections shall be adequately packaged and labeled for rapid assembly in the field. Consideration shall also be given to future maintenance and parts replacement through available permanent openings shown on the contract plans."

"At the option of the Contractor, outdoor units may be equipped with skids for ease of initial installation. The Contractor shall also verify that maintenance and parts replacement for the outdoor units is possible through permanent access openings shown on the contract plans."

3. In the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM," the "Dehumidifier Unit Casing" paragraph, Item H is revised as follows:

"H. Filters

The unit casing shall include removable filters at the inlet of both process and reactivation air streams. ~~These~~ process side filters shall be mounted on sliding racks and accessible through panels equipped with fast-acting, captive hardware. The filters shall have a 35 percent efficiency and a 90 percent resistance conforming to the ASHRAE Weight Resistance Test. These filters shall preferably be integral with the dehumidification unit. Otherwise, filters shall be provided inline on process return side ducting, downstream of outside air mixing point. The reactivation side filter shall be a washable, metal mesh, pleated filter approximately 2" thick in a slotted housing. The housing may be integral with the unit or located downstream of mixing points."

4. In the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM," the "Moisture Removal Capacity Control" paragraph, Item C, the following sentence is added at the end of the item:

"Instruments for humidity measurement if located in duct work, shall be located in the return system upstream of any mixing point with outside air and be installed per dehumidifier equipment manufacturer's recommendations."

5. In the Special Provisions, Section 10-4.06, "DEHUMIDIFIER SYSTEM," the "DUCTWORK AND ACCESSORIES" subsection, the "Ductwork" paragraph, the following paragraph is added after Item G.:

"H. The Contractor shall verify the duct routing, support locations, tie-in routes and transitions to the approved equipment prior to purchasing and fabricating ductwork."

CONTRACT CHANGE ORDER NO. 11 SUPPL. NO. ---
ROAD 04-SF-80-13.2, 13.9 SHEET 3 OF 13 SHEETS
FEDERAL NO.(S) _____ CONTRACT NO.: 04-0120F4

B. AUDITS

In the Special Provisions Section 8-4.01 AUDITS, revise the first paragraph as follows:

“Manufacturing or fabrication of the following materials shall not commence at a facility, nor will working drawings be accepted for submittal for those materials prior to the Engineer or his authorized representative completing ~~or waiving~~ a facility audit (Department audit) and issuing an audit report determining that the facility is in compliance with the "Manufacturing and Fabrication Self Qualification Audit" (MFSQA) and other contract requirements. These requirements may be waived or modified if permitted in writing by the Engineer.”

C. PAYMENTS

In the Special Provisions Section 5-1.25 PAYMENTS, revise the ninth (last) paragraph as follows:

“To be eligible for these payments for any material stored outside the United States, the Contractor shall furnish an advance payment bond, first demand bank guarantee, or combination of no more than two thereof to secure the value of potential partial payments for material furnished but not incorporated in the work pursuant to these special provisions and Section 9-1.06, "Partial Payments," of the Standard Specifications. The advance payment bond or first demand bank guarantee shall be in a sum not less than the amount requested for payment by the Contractor, and shall, at a minimum, match the terms of the sample advance payment bond or first demand bank guarantee forms identified in "Project Information" in these special provisions. The value of the advance payment bond or first demand bank guarantee shall not be adjusted more than once per year, unless otherwise approved in writing by the Engineer. The Contractor shall certify in writing to the Engineer that the proposed bonding company or bank complies with these special provisions. The bonding company shall be licensed to do business in the State of California, and shall be certified to write a bond equal to 30% of the executed contract price by the United States Department of the Treasury. The bank shall have United States operations with a minimum rating of "A-" by either AM Best or Standard & Poor. All alterations, extensions of time, extra and additional work, and other changes authorized by these special provisions or any part of the contract may be made without securing the consent of the surety of the bond or the bank.”

D. ACCELERATED WORKING DRAWINGS SUBMITTAL

In the Special Provisions Section 10-1.17 ACCELERATED WORKING DRAWINGS SUBMITTAL, revise the second paragraph as follows:

The Contractor shall receive approval from the Engineer for the preliminary erection plan and the weight control procedure prior to any approval of working drawings for the fabrication of the box girder structural steel, tower structural steel, and the cable system, unless otherwise approved in writing by the Engineer. Prior approval of preliminary erection plans and/or weight control procedures will not relieve the Contractor of responsibility for revisions to approved working drawings resulting from the subsequent review and approval of preliminary erection plans and/or weight control procedures.

E. TOWER CROSS BRACING SPHERICAL BUSHING BEARING

In the Special Provisions Section 10-1.49 TOWER CROSS BRACING SPHERICAL BUSHING BEARING, Subsection “WORKING DRAWINGS” revise the fifth paragraph as follows:

Each working drawing and calculation sheet shall be signed by an engineer who is registered as a Civil Engineer or Mechanical Engineer in the United States of America. ~~This registered Civil Engineer or Mechanical Engineer shall be a full-time employee of the tower cross bracing spherical bushing bearing manufacturer.~~

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT		CALCULATED / DESIGNED BY	DATE	REVISOR	DATE	REVISION
	Bob Zandj pour						
Caltrans	61						
	60						
	59						
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	52						

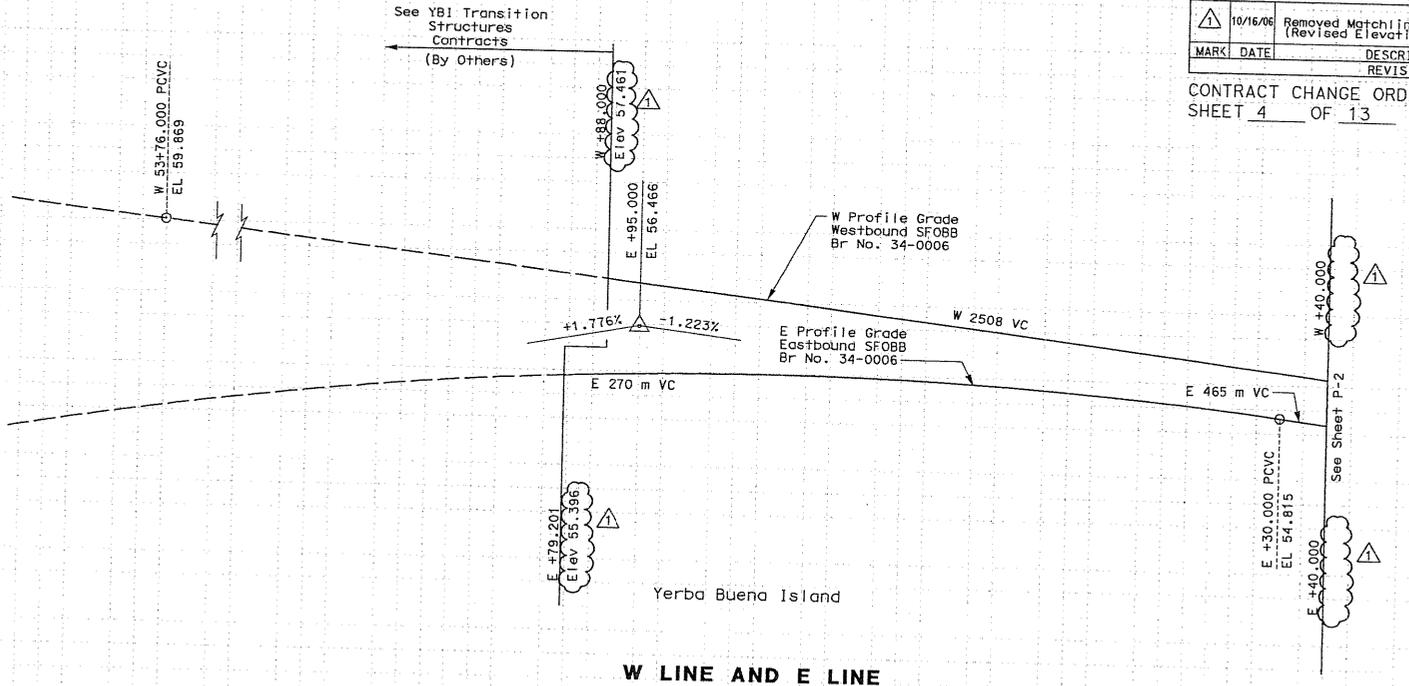
NOTE:
1. Elevation is based on 1929 National Geodetic Vertical Datum (NGVD).



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	5R1	1204	
<i>Cora N. Gustavich</i> , 12/19/02 REGISTERED CIVIL ENGINEER DATE						
PLANS APPROVAL DATE <i>Mark J. Lammert</i> No. C54338 Exp. 12/31/03 CIVIL STATE OF CALIFORNIA						
PARSONS BRINCKERHOFF QUAIN & DOUGLAS, INC. 303 Second St., Suite 700N San Francisco, CA 94107-1317						
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10/16/06	Removed Matchline Elevations (Revised Elevations)	LR	MG	11
MARK	DATE	DESCRIPTIONS	REV	CK
		REVISIONS	CCO	NO.

CONTRACT CHANGE ORDER NO. 11
SHEET 4 OF 13

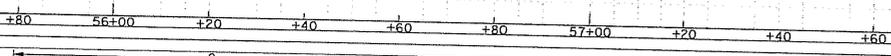


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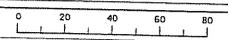
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PROFILE
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P-1



FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



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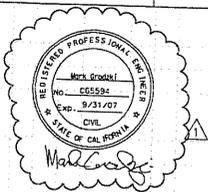
CU 04251

EA 0120F1

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	CALCULATED / DESIGNED BY	CHECKED BY	
Bob Zandi pour			

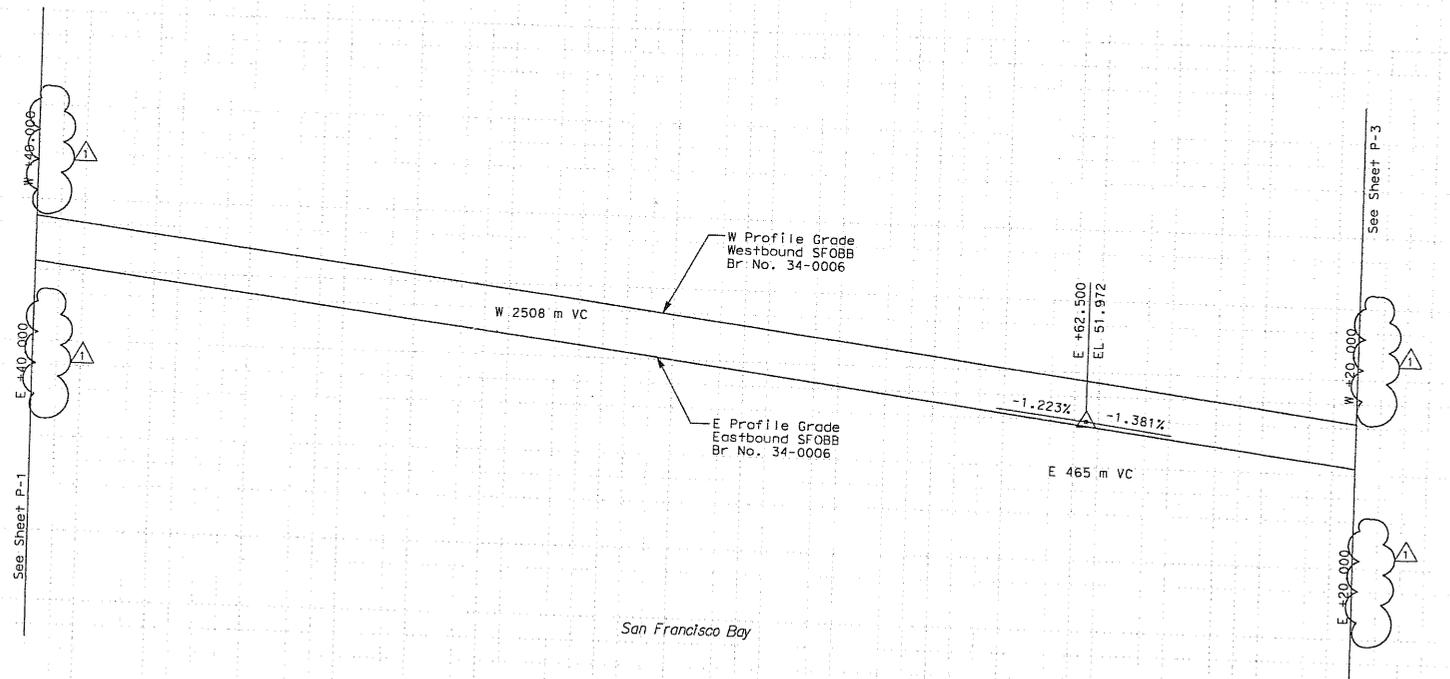
NOTE:
1. Elevation is based on 1929 National Geodetic Vertical Datum (NGVD).



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Gary V. deLuzanich REGISTERED CIVIL ENGINEER		DATE 12/19/02			
PARSONS BRINCKERHOFF QUAYE & DOUGLAS, INC. 303 Second St., Suite 700N San Francisco, CA 94107-1317					

10/16/06	Removed Matchline Elevations	LR	MG	11	
MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
		REVISIONS			

CONTRACT CHANGE ORDER NO. 11
SHEET 5 OF 13



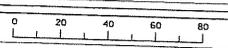
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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P-2

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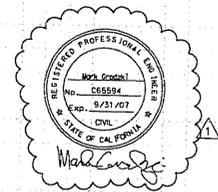
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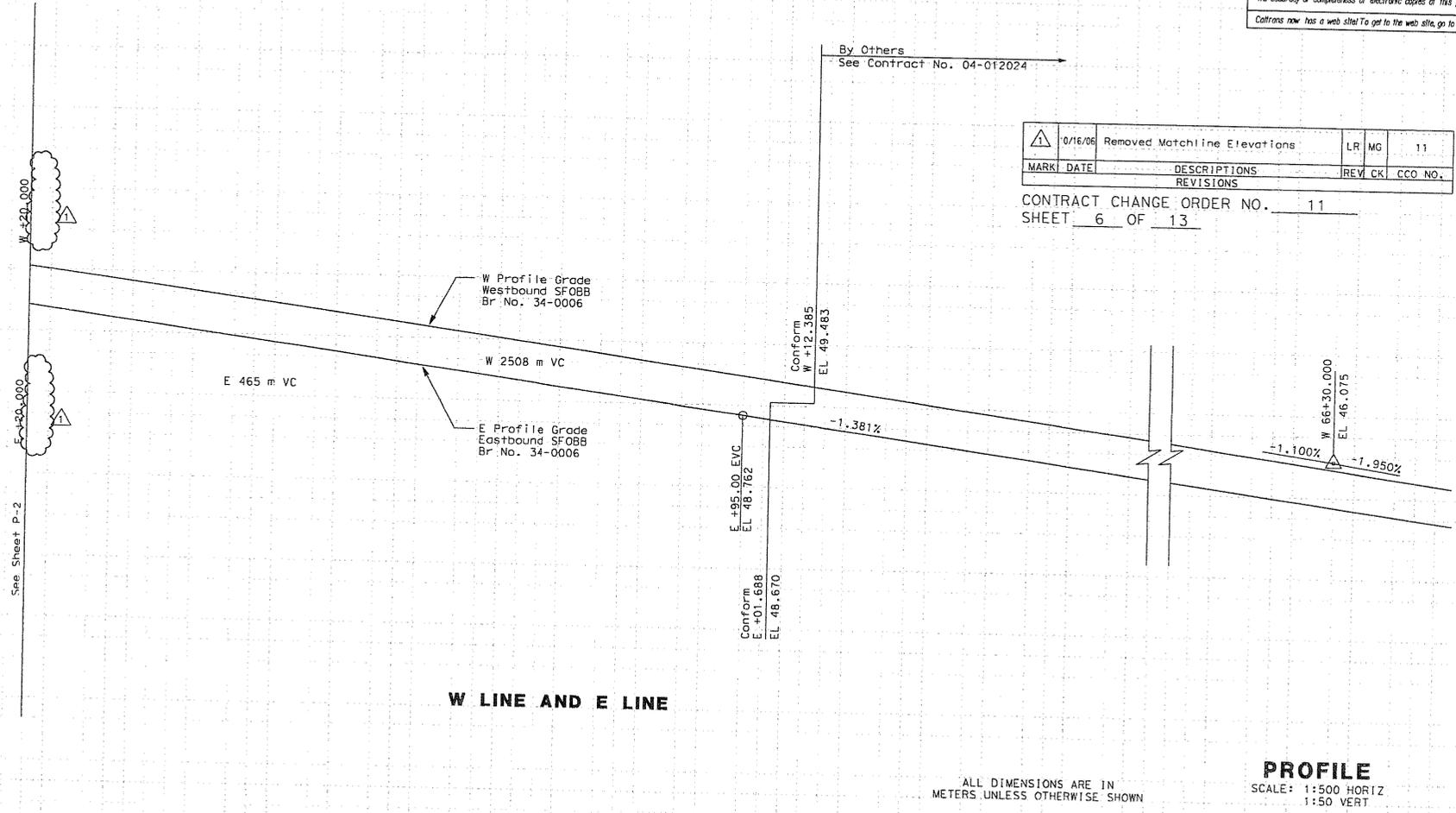
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			BY	BY
C&T	Bob Zandipour	CHECKED BY	CR	DATE
			CR	DATE
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NOTE:
1. Elevation is based on 1929 National Geodetic Vertical Datum (NGVD).



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	13.2/13.9	7R1	1204
REGISTERED CIVIL ENGINEER DATE 12/19/02 No. 054338 Exp. 12/31/03 CIVIL STATE OF CALIFORNIA					
PLANS APPROVAL DATE PARSONS BRINCKERHOFF OLIVE & DOUGLAS, INC. 303 Second St., Suite 700N San Francisco, CA 94107-1317					
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0/16/06	Removed Matchline Elevations	LR	MG	11	
MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
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CONTRACT CHANGE ORDER NO. 11
SHEET 6 OF 13

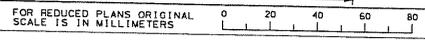
By Others
See Contract No. 04-012024

W LINE AND E LINE

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P-3



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CU 04251

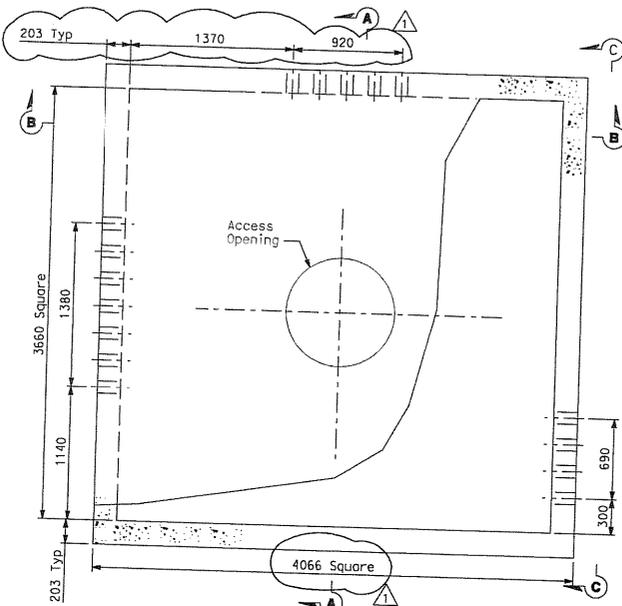
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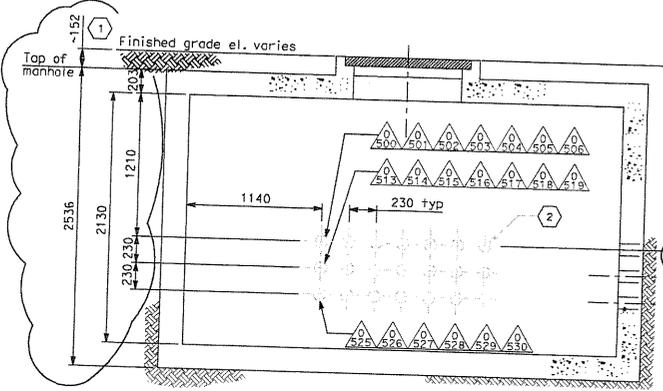
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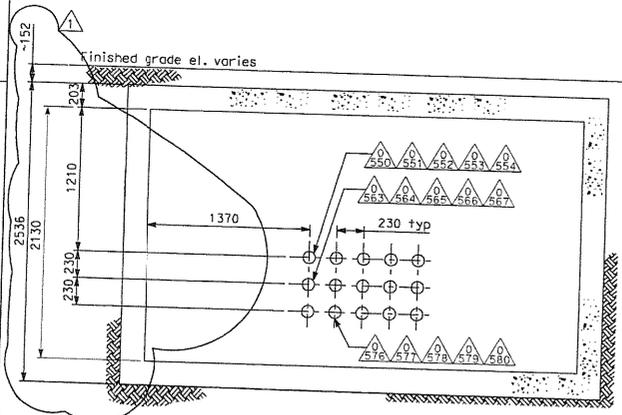
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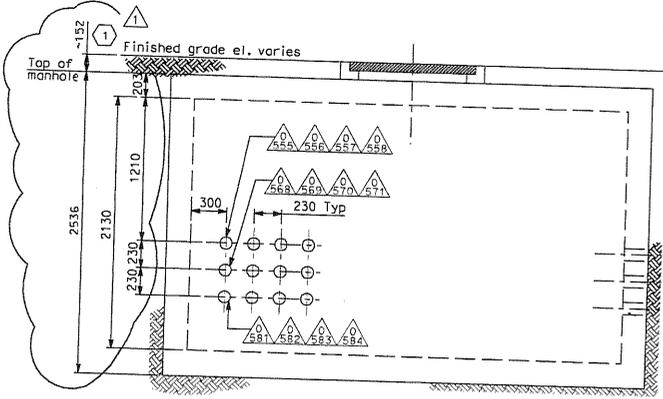
PLAN-MANHOLE-25
 SCALE: 1:20 (600 V)



SECTION A-A
 SCALE: 1:20



SECTION B-B
 SCALE: 1:20



SECTION C-C
 SCALE: 1:20



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	13.2/13.9	97R1	1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/02
 JAMES S. SHANNON
 REG. NO. 8248
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 PB POWER, Inc.
 A Parsons Brinckerhoff Company
 303 Second St., Suite 700N
 San Francisco, CA 94107-1317

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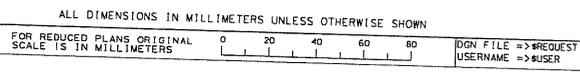
- NOTES:**
- References:
 - For duct bank and manhole plan, see sheet E-11.
 - For typical manhole and duct bank details, see sheet E-17.
 - For duct bank sections, see sheets E-19 and E-23.
 - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
 - For other related work, not shown on this sheet, see Electrical Special Provisions.

- SHEET NOTES:**
- Approximate distance of manhole necking or riser is from the finished grade and top of manhole. Maximum length of manhole necking or riser shall be 914 mm.
 - Not in contract. (Work included on contract 04-120P4).

MARK	DATE	DESCRIPTIONS REVISIONS	REV	CK	CCO NO.
1	1/10/06	Revised Manhole detail	CR	JE	11

CONTRACT CHANGE ORDER NO. 11
 SHEET 7 OF 13

DETAILS UNDERGROUND MANHOLE PLANS AND SECTIONS
 SCALE AS NOTED



CU 04251 EA 0120F1

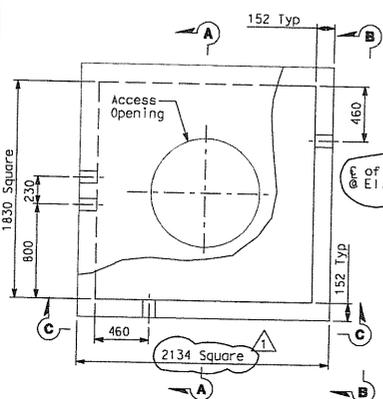
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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 CHECKED BY CYF / DATE REVISIONS

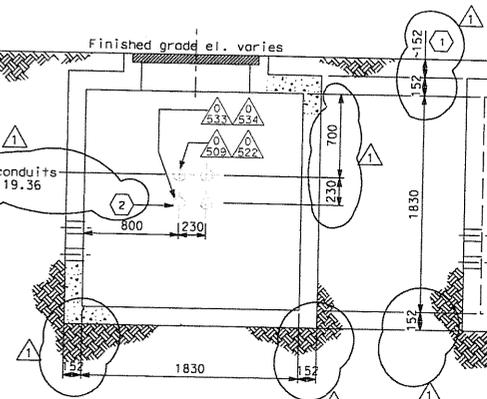


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	98R1	1204

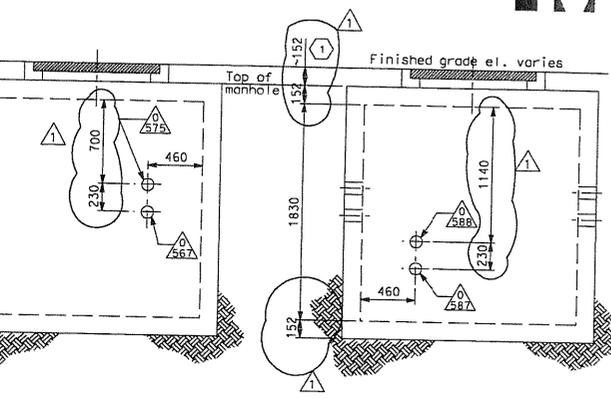
REGISTERED ELECTRICAL ENGINEER
 12/19/02
 REGISTERED ELECTRICAL ENGINEER DATE
 PROFESSIONAL ENGINEER
 JENS ERLINSSON
 No. 8249
 Exp. 9/30/06
 ELECTRICAL ENGINEER
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE
 PB POWER, Inc.
 A Parsons Brinckerhoff Company
 303 Second St., Suite 700N
 San Francisco, CA 94107-1317
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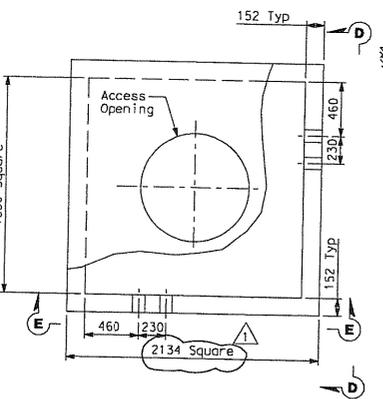
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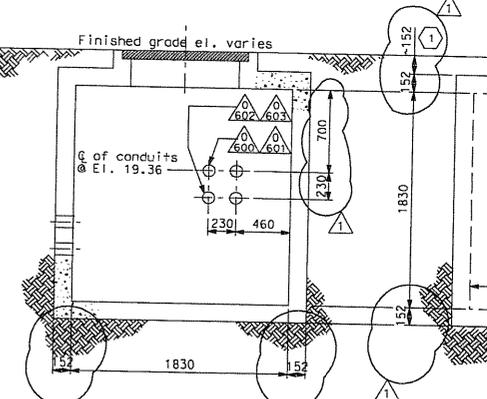
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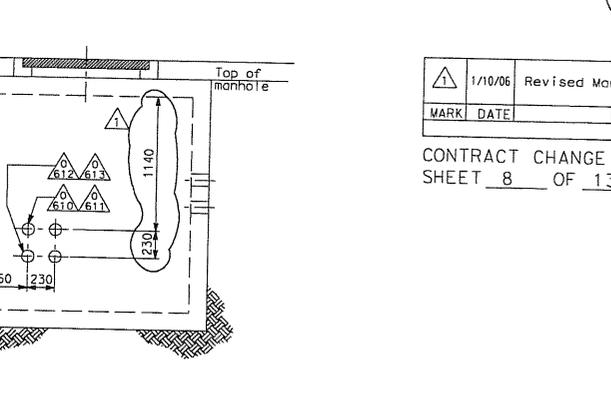
SECTION B-B
 SCALE: 1:20



PLAN-MANHOLE-28
 SCALE: 1:20 (Non-Caltrans Utilities)



SECTION D-D
 SCALE: 1:20



SECTION E-E
 SCALE: 1:20

NOTES:

- References:
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 - For typical manhole and duct bank details, see sheet E-17.
 - For duct bank sections, see sheets E-19 and E-23.
 - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
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SHEET NOTES:

- Approximate distance of manhole necking or riser is from the finished grade and top of manhole. Maximum length of manhole necking or riser shall be 914 mm.
- Not in contract. (Work included on contract 04-120P4).

1/10/06	Revised Manhole detail	CR	JE	11	
MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
		REVISIONS			

CONTRACT CHANGE ORDER NO. 11
 SHEET 8 OF 13

DETAILS
UNDERGROUND
MANHOLE PLAN AND SECTIONS
 SCALE AS NOTED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
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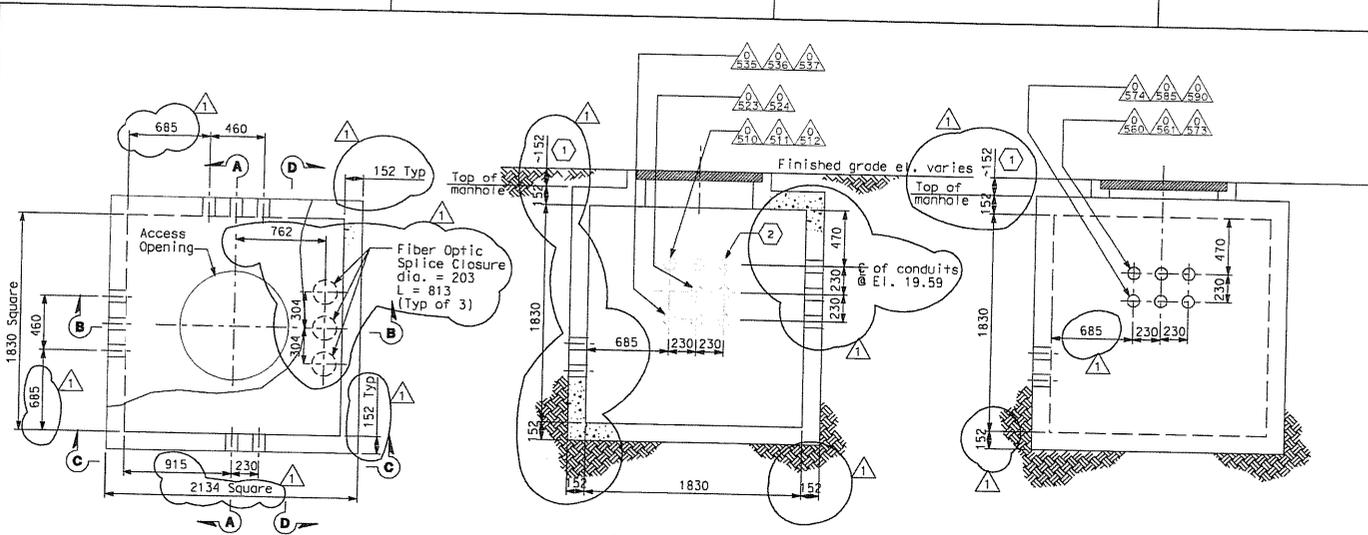
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CU 04251

EA 0120F1

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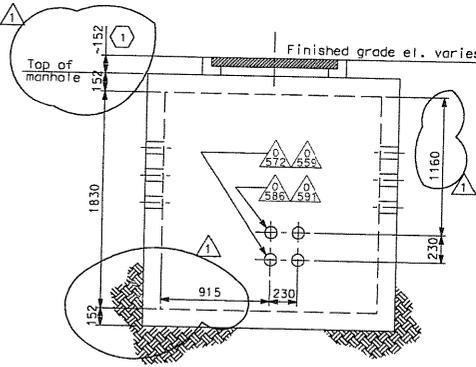
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
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 BEHZAD GOLEMOHAMMADI
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 CHECKED BY
 DATE REVISION
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 DATE REVISION
 REVISOR



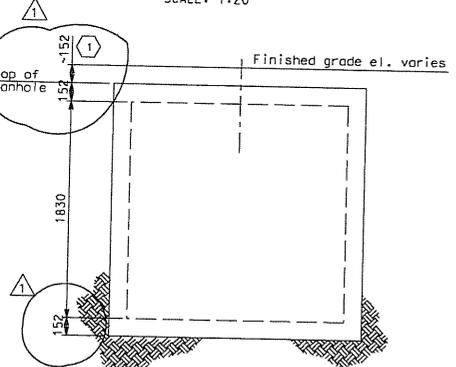
PLAN-MANHOLE-27
 SCALE: 1:20 (TOS & COMMUNICATION)

SECTION A-A
 SCALE: 1:20

SECTION B-B
 SCALE: 1:20



SECTION C-C
 SCALE: 1:20



SECTION D-D
 SCALE: 1:20



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	99R1	1024
REGISTERED ELECTRICAL ENGINEER			DATE	12/19/02	
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
PR POWER, Inc.			No. 5249		
303 Second St., Suite 700N			Exp. 3/30/08		
San Francisco, CA 94107-1317			ELECTRICAL		
			STATE OF CALIFORNIA		
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- NOTES:**
- References:
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 - For duct bank sections, see sheet E-19.
 - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
 - For other related work, not shown on this sheet, see Electrical Special Provisions.

SHEET NOTES:

(1) Approximate distance of manhole necking or riser is from the finished grade and top of manhole. Maximum length of manhole necking or riser shall be 914 mm.

(1)	1/10/06	Revised Manhole detail	CR	JE	11
MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
REVISIONS					

CONTRACT CHANGE ORDER NO. 11
 SHEET 9 OF 13

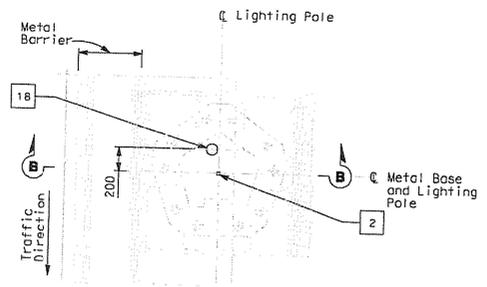
DETAILS UNDERGROUND MANHOLE PLAN AND SECTIONS
 SCALE AS NOTED

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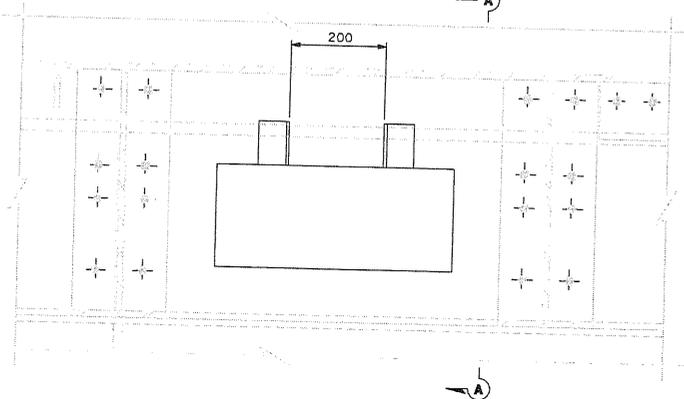
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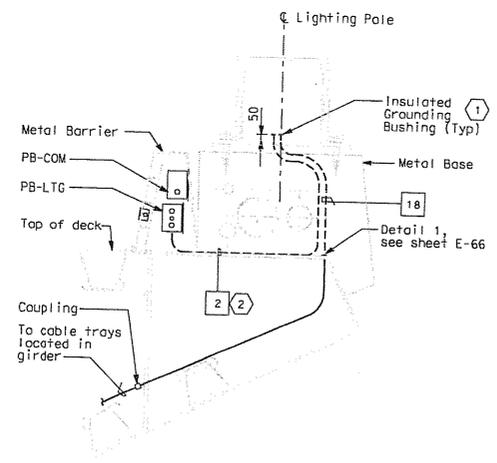
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Caltrans
 DESIGN OVERSIGHT
 BEHZAD GOLEMHAMMADI
 CALCULATED/DESIGNED BY: KG
 CHECKED BY: AB
 DATE REVISION: 10/20/06
 DATE REVISOR: AB



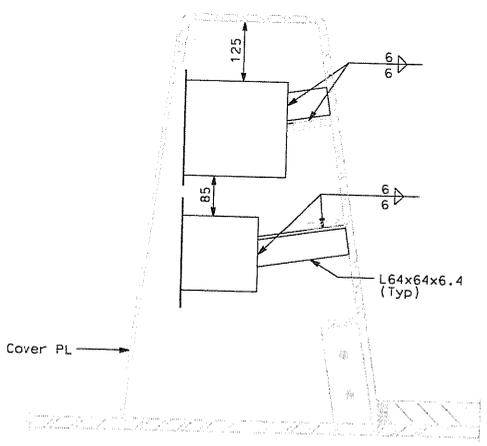
PLAN
 CONDUIT STUB-UP PLAN FOR ROADWAY LIGHTING
 AND MVDS ON METAL BASE
 SCALE 1:20



PLAN
 PULL BOX IN STEEL BARRIER
 SCALE 1:5



SECTION B-B
 SCALE 1:20



SECTION A-A
 SCALE 1:5



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	133R	1204	
REGISTERED ELECTRICAL ENGINEER		DATE		12/19/02		
12-6-04		PLANS APPROVAL DATE		JENS ERLINGSSON		
PB POKER, Inc.		A Parsons Brinckerhoff Company		303 Second St., Suite 700N		
San Francisco, CA 94107-1317		Exp. 9/20/08		ELECTRICAL		
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SHEET NOTES:

- 1 Bond grounding bushing to ground lug of lighting pole or overhead sign post with #6 bare copper wire.
- 2 Conduit shall clear all piping and pipe sleeves. Route conduit on top of deck plate, outside of girder box.
- 3 See Utility Detail No. 1 (Sheet No. 965 of 1204) for conduit penetration through girder plate and lighting pole metal base. The Contractor shall install sealant between the sleeve and conduit to prevent water or moisture from passing inside the sleeve.

NOTES:

1. References:
- For installation and typical details of TOS equipment, see sheets E-344 thru E-357.
 - For pull box schedule, see sheet E-83.
 - For TOS field element locations, see sheet E-341.

10/16/06	Revised sheet notes.	LR	MG	11	
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CONTRACT CHANGE ORDER NO. 11
 SHEET 11 OF 13

DETAILS
SAS SUPERSTRUCTURE ROADWAY WESTBOUND
CONDUIT LOCATIONS
 SCALE AS NOTED

E-68

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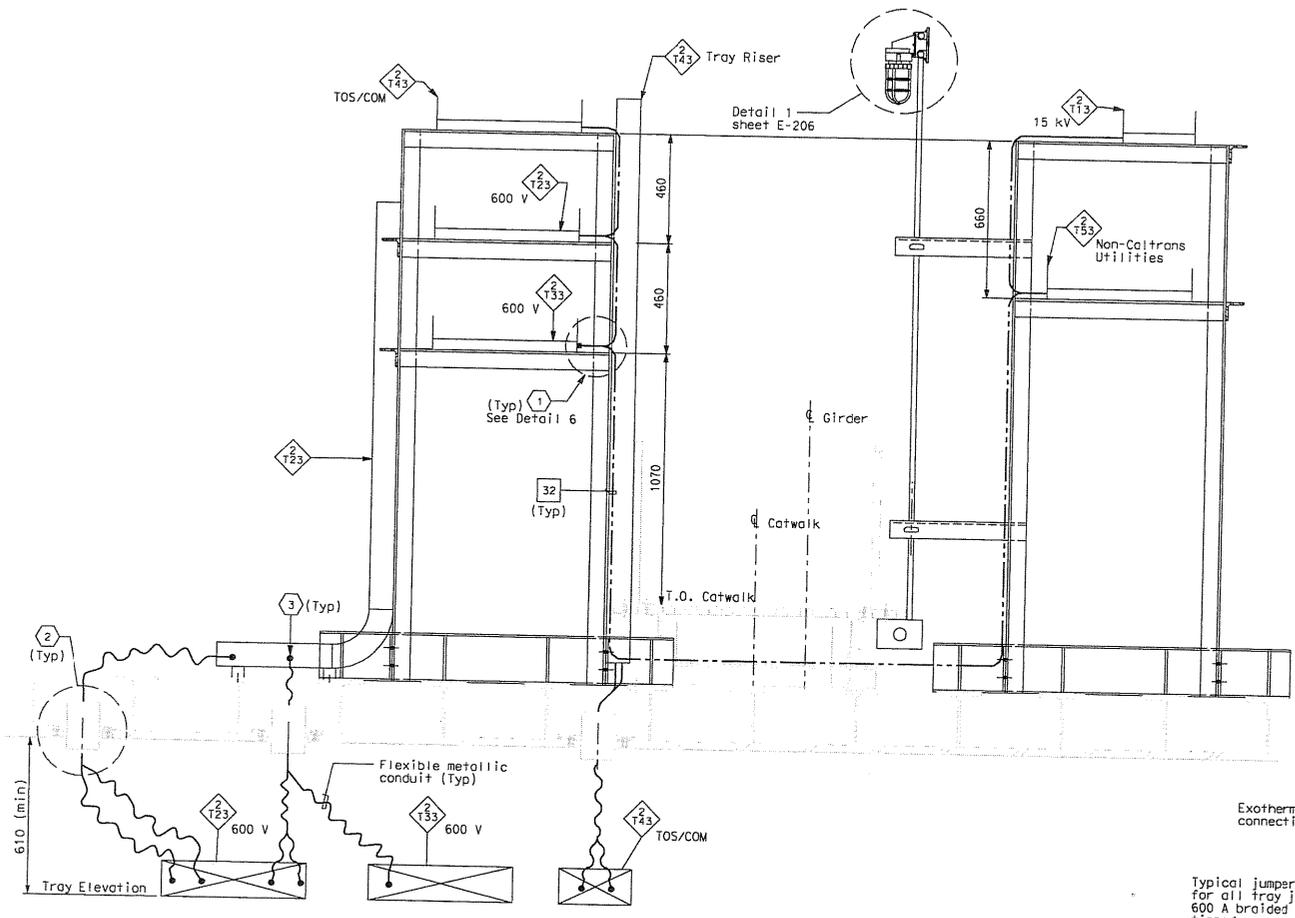
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 CHECKED BY: CYF 3/04
 DATE REVISIONS BY: DATE REVISIONS

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET NO.	TOTAL SHEETS
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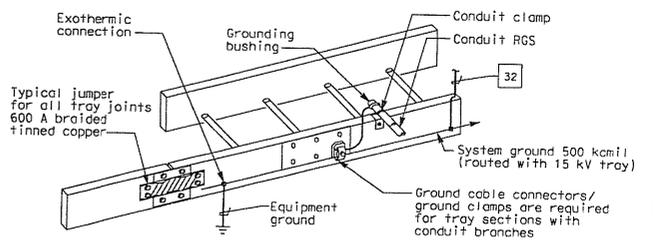
Jawad Al-Ghannam 12/19/02
 REGISTERED ELECTRICAL ENGINEER DATE
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 4245
 EXPIRES 3/30/06
 ELECTRICAL ENGINEER
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE
 PB POWER, Inc.
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SECTION D-D - TYPICAL CABLE TRAY SUPPORT
 SCALE: 1:10

- SHEET NOTES:**
- 1 Provide connections to 500 kcmil system ground for all cable trays, every 200 meters.
 - 2 For location of conduit penetrations thru girder plate, see Utility Detail No. 1 and Utility Layout sheets respectively. To prevent moisture from passing inside the sleeve, Contractor shall install sealant after conduit have been installed. Spares shall be plugged and capped.
 - 3 Contractor shall provide hooked conduit support grips for each conduit or groups of conduits passing through the conduit penetrations. Contractor shall provide support for grips as needed.

- NOTES:**
1. See structural drawings for Catwalk Support Details.
 2. For SAS Superstructure Girder access detail #2, see structural dwgs.
 3. Ground cable shall be installed along full length of the 15 kV cable tray only.
 4. For typical cable tray support details, see AS-sheets.



GROUNDING OF METALLIC RACEWAYS
DETAIL 6

DETAILS
SAS SUPERSTRUCTURE GIRDER EASTBOUND
TYPICAL CABLE TRAY AND GROUNDING INSTALLATION 2
 SCALE AS NOTED

1	1/10/06	Revised note. Bidder Inquiry #330.	CR	JE	11
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CONTRACT CHANGE ORDER NO. 11
 SHEET 13 OF 13

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