DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	386 R1	1204

Jens Erlingsson 12/19/02
REGISTERED ELECTRICAL ENGINEER DATE

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENS ERLINGSSON No. 8249 Exp. 9/30/06 ELECTRICAL STATE OF CALIFORNIA

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

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

Caltrans now has a web site! To get to the web site, go to http://www.dot.ca.gov

Caltrans Metric

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
1	03/04/08	BARRIER MODIFICATIONS	JS BM	RG SE	44
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF _____

REGISTERED PROFESSIONAL ENGINEER S. A. ESTOQUE, JR. No. E-10151 Exp. 12/31/2008 ELECTRICAL STATE OF CALIFORNIA

FOR REVISION ONLY

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
3702	E-284, E-275	78	RGS-PVC coated conduit	436.32	1935.24	UP210-1B-1B	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-2	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3703	E-284	53	RGS-PVC coated conduit	725.01	879.42	UP210-1B-3	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-4	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-3C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3704	E-284, E-285	53	RGS-PVC coated conduit	436.32	879.42	UP210-1B-4	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP210-1B-3C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-3A	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
3705	E-284, E-275	53	RGS-PVC coated conduit	315.59	879.42	UP210-1B-3B	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-4	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-3C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
3706	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-5	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-5C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-6	2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation
3707	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-6	2 + 1 gnd #12, #12 600 V, RHH/RHW insulation
						UP210-1B-5A	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-5C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
3708	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-5B	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-5C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-6	2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation
3800	E-284, E-275	53	RGS-PVC coated conduit	387.11	879.42	UP210-1B-8	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-7	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-7C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3801	E-284	53	RGS-PVC coated conduit	483.34	879.42	UP210-1B-8	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-7A	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-7C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3802	E-284, E-275	78	RGS-PVC coated conduit	436.32	1935.24	Pull rope	Soft-Fiber Polyester
						UP210-1B-8	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP210-1B-7C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-7B	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3803	E-284, E-275	53	RGS-PVC coated conduit	725.01	879.42	UP210-1B-10	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-9	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-9C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3804	E-284, E-285	78	RGS-PVC coated conduit	436.32	1935.24	Pull rope	Soft-Fiber Polyester
						UP210-1B-10	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP210-1B-9A	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-9C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3805	E-284, E-275	53	RGS-PVC coated conduit	337.90	879.42	UP210-1B-10	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP210-1B-9B	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP210-1B-9C	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
3806	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-12	2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation
						UP210-1B-11	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-11C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
3807	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-11A	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-11C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-12	2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
3808	E-284, E-275	53	RGS-PVC coated conduit	241.67	879.42	UP210-1B-12	2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation
						UP210-1B-11B	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
						UP210-1B-11C	2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation
4007	E-114	53	RGS-PVC coated conduit	150.44	879.42	Pull rope	Soft-Fiber Polyester
						MVDSW02A	MVDS DLC
4009	E-71	53	RGS-PVC coated conduit	60.80	879.42	Pull rope	Soft-Fiber Polyester
						UP104-5	2 + 1 gnd #10,#10, 600 V, RHH/RHW insulation
4010	E-71	53	RGS-PVC coated conduit	98.42	879.42	UP104-12	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
						UP104-10	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
4011	E-71	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4029	E-72	78	RGS-PVC coated conduit	1217.21	1935.24	1201-5	1-3/C #14,600 V, EPR insulation
						UP105-15	1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						1201-4	1-9/C #16,600 V, EPR insulation
						1201-3	1-3/C #14,600 V, EPR insulation
						1201-1	1-2/C + gnd #8,600 V, EPR insulation
						1201-6	1-2/C + gnd #8,600 V, EPR insulation
						1201-2	1-2/C + gnd #8,600 V, EPR insulation
4032	E-115	78	RGS-PVC coated conduit	317.80 1	1935.24	Pull rope	Soft-Fiber Polyester
						1474-5B	1 - 6 pair, shielded #18 with overall shield , 300 V, PVC jacket
						1474-5A	1 - 6 pair, shielded #18 with overall shield , 300 V, PVC jacket 1
4033	E-72	53	RGS-PVC coated conduit	481.89	879.42	Pull rope	Soft-Fiber Polyester
						UP105-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP105-13	1-2/C + gnd #12,600 V, EPR insulation
						UP105-11	1-2/C + gnd #12,600 V, EPR insulation
						UP105-15	1-2/C + gnd #8,600 V, EPR insulation
4034	E-72	53	RGS-PVC coated conduit	0.00 1	879.42	Pull rope	Soft-Fiber Polyester 1
4035	E-72	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4036	E-73	53	RGS-PVC coated conduit	276.67	879.42	UP106-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP106-15	1-2/C + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-431

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

CALCULATED/ DESIGNED BY	PBP	DATE 8/02	REVISED BY	DATE REVISED
CHECKED BY	AB	8/02		

LAST REVISION 00-00-00
DATE PLOTTED => 5/22/2008
TIME PLOTTED => 11:14:03 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
DGN FILE =>T:\13103\MS\pse\SAS Struc\CCO\SAS CCO44\04-0120f1_0386R01.dgn
USERNAME =>llorico
CU 04251
EA 0120F1