DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	364 R1	1204

REGISTERED ELECTRICAL ENGINEER 12/19/02 DATE

12-6-04
PLANS APPROVAL DATE

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

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

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

FOR REVISION ONLY

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
1	03/04/08	BARRIER MODIFICATIONS	JS BM	RG SE	44

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF _____

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
1T47	E-117	610	152.4 mm siderail ladder tray	3785.76	38709.60	Pull rope	Soft-Fiber Polyester
						MVDSW04A	MVDS DLC
						1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1473-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1475-3C	12 Fiber, single mode fiberoptic cable 1
1T48	E-118	610	152.4 mm siderail ladder tray	2157.13 1	38709.60		
						Pull rope	Soft-Fiber Polyester
						1474-8A	1 - 6 pair, shielded #18 with overall shield , 300 V, PVC jacket
						1474-8B	1 - 6 pair, shielded #18 with overall shield , 300 V, PVC jacket
						1474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
					1		
						1473-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
1T49	E-128, E-19	305	152.4 mm siderail ladder tray	1849.01	19354.80	Pull rope	Soft-Fiber Polyester
						1474-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1475-3	72 Fiber, single mode fiberoptic riser cable
						1477-2	72 Fiber, single mode fiberoptic riser cable
1T53	E-96, E-126	610	152.4 mm siderail ladder tray	0.00	16774.16	Pull rope	Soft-Fiber Polyester
1T54	E-126	610	152.4 mm siderail ladder tray	0.00	16774.16	Pull rope	Soft-Fiber Polyester
2000	E-96	41	RGS conduit	323.69	534.55	UP104-7-1	1-2/C + gnd #8,600 V, EPR insulation
						UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2001	E-96	53	RGS conduit	809.26	879.42	UP104-9	1-2/C + gnd #10,600 V, EPR insulation
						UP104-8	1-2/C + gnd #8,600 V, EPR insulation
						UP104-6	1-2/C + gnd #8,600 V, EPR insulation
						UP104-7	1-2/C + gnd #8,600 V, EPR insulation
2002	E-96	63	RGS conduit	905.49	1663.73	UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-6	1-2/C + gnd #8,600 V, EPR insulation
						UP104-9	1-2/C + gnd #10,600 V, EPR insulation
						UP104-7	1-2/C + gnd #8,600 V, EPR insulation
						UP104-8	1-2/C + gnd #8,600 V, EPR insulation
2003	E-96	41	RGS conduit	192.46	534.55	UP104-9-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-6A	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2004	E-96	53	RGS conduit	811.22	879.42	UP104-7	1-2/C + gnd #8,600 V, EPR insulation
						UP104-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-9	1-2/C + gnd #10,600 V, EPR insulation
						UP104-6	1-2/C + gnd #8,600 V, EPR insulation
2005	E-96	41	RGS conduit	192.46	534.55	UP104-6b	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-9-1	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2006	E-96	53	RGS conduit	811.22	879.42	UP104-9	1-2/C + gnd #10,600 V, EPR insulation
						UP104-6	1-2/C + gnd #8,600 V, EPR insulation
						UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-7	1-2/C + gnd #8,600 V, EPR insulation
2007	E-97	41	RGS conduit	354.34	534.55	UP104-9	1-2/C + gnd #10,600 V, EPR insulation
						UP104-6	1-2/C + gnd #8,600 V, EPR insulation
2008	E-97	53	RGS conduit	456.88	879.42	UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-7-1	1-2/C + gnd #8,600 V, EPR insulation
2009	E-97	63	RGS conduit	909.84	1663.73	UP105-7	1-2/C + gnd #8,600 V, EPR insulation
						UP105-9	1-2/C + gnd #8,600 V, EPR insulation
						UP105-10	1-2/C + gnd #8,600 V, EPR insulation
						UP105-8	1-2/C + gnd #8,600 V, EPR insulation

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
2010	E-97	63	RGS conduit	1139.26	1663.73	UP104-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP104-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-8	1-2/C + gnd #8,600 V, EPR insulation
						UP105-7	1-2/C + gnd #8,600 V, EPR insulation
						UP105-9	1-2/C + gnd #8,600 V, EPR insulation
						UP105-10	1-2/C + gnd #8,600 V, EPR insulation
2011	E-97	41	RGS conduit	192.46	534.55	UP105-10A	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-9-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2012	E-97	63	RGS conduit	911.80	1663.73	UP105-9	1-2/C + gnd #8,600 V, EPR insulation
						UP105-10	1-2/C + gnd #8,600 V, EPR insulation
						UP105-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-7	1-2/C + gnd #8,600 V, EPR insulation
						UP105-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2013	E-97	41	RGS conduit	192.46	534.55	UP105-10b	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-9-1	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2014	E-97	63	RGS conduit	911.80	1663.73	UP105-10	1-2/C + gnd #8,600 V, EPR insulation
						UP105-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-7	1-2/C + gnd #8,600 V, EPR insulation
						UP105-9	1-2/C + gnd #8,600 V, EPR insulation
2015	E-97	41	RGS conduit	454.92	534.55	UP105-10	1-2/C + gnd #8,600 V, EPR insulation
						UP105-9	1-2/C + gnd #8,600 V, EPR insulation
2016	E-97	63	RGS conduit	229.42	1663.73	UP105-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2017	E-98	63	RGS conduit	909.84	1663.73	UP106-6	1-2/C + gnd #8,600 V, EPR insulation
						UP106-8	1-2/C + gnd #8,600 V, EPR insulation
						UP106-7	1-2/C + gnd #8,600 V, EPR insulation
						UP106-9	1-2/C + gnd #8,600 V, EPR insulation
2018	E-98	63	RGS conduit	1139.26	1663.73	UP106-7	1-2/C + gnd #8,600 V, EPR insulation
						UP106-9	1-2/C + gnd #8,600 V, EPR insulation
						UP106-6	1-2/C + gnd #8,600 V, EPR insulation
						UP105-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP105-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP106-8	1-2/C + gnd #8,600 V, EPR insulation
2019	E-98	41	RGS conduit	323.69	534.55	UP106-6A	1-2/C + gnd #8,600 V, EPR insulation
						UP106-9-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
2020	E-98	63	RGS conduit	911.80	1663.73	UP106-6	1-2/C + gnd #8,600 V, EPR insulation
						UP106-8-1	3 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP106-7	1-2/C + gnd #8,600 V, EPR insulation
						UP106-8-2	2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation
						UP106-9	1-2/C + gnd #8,600 V, EPR insulation

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-409

REVISED BY	DATE REVISED
PBP	8/02

CALCULATED/ DESIGNED BY	CHECKED BY

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 5/22/2008
TIME PLOTTED => 11:00:57 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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