DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	395 R2	1204

REGISTERED ELECTRICAL ENGINEER 12/19/02 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

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Caltrans Metric

REGISTERED PROFESSIONAL ENGINEER FADI WALIEDDINE No. 11465 Exp. 12/31/2009 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#
2	10/30/08	SERVICE PLATFORM ELECTRICAL CHANGES	RR RY	RG MP	55
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
5210	E-114	78	RGS conduit 2	1323.45	1935.24	Pull rope	Soft-Fiber Polyester
						2119-2	4 pair #22, shielded pairs, 300 V, PE insulation
						1473-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5211	E-114	78	RGS conduit 2	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5221	E-115	78	RGS conduit	272.97	1935.24	2202-2	1-3/C #14, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						2202-3	1-7/C #16, 600 V, EPR insulation
						2202-4	1-3/C #14, 600 V, EPR insulation
5222	E-115	78	RGS conduit	1211.54	1935.24	LP220-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						2121-1	1-3/C #14, 600 V, EPR insulation
						LP220-6,8	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						S-3056-6	1-4/C #14, 600 V, EPR insulation
						2120-2	1-3/C #14, 600 V, EPR insulation
						2120-1	1-3/C #14, 600 V, EPR insulation
						2204-2	1-3/C #16, 600 V, EPR insulation
						2204-1	1-3/C #16, 600 V, EPR insulation
						2121-4	1-3/C #14, 600 V, EPR insulation
5223	E-115	78	RGS conduit	1235.86	1935.24	UP205-1	1-2/C + gnd #10 ,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						UP206-1	1-2/C + gnd #10 ,600 V, EPR insulation
						UP205-8	1-2/C + gnd #8, 600 V, EPR insulation
						2096	1-3/C + gnd #2, 600 V, EPR insulation
						UP205-7	1-2/C + gnd #8, 600 V, EPR insulation
5224	E-115	78	RGS conduit	227.46	1935.24	Pull rope	Soft-Fiber Polyester
						UP205-6	1-2/C + gnd #8, 600 V, EPR insulation
5225	E-115	53 2	RGS conduit	527.18	879.42 2	Pull rope	Soft-Fiber Polyester
						2104	1-3/C + gnd #2, 600 V, EPR insulation
5226	E-115	78	RGS conduit	1361.88	1935.24		
						2910-11	1-3/C #16, 600 V, EPR insulation
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2155	1-2 pair, shielded #18 with IS/OA, 300V PVC jacket
						Pull rope	Soft-Fiber Polyester
5227	E-115	78	RGS conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1474-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5228	E-115	78	RGS conduit	1445.19	1935.24	2910-10	4 pair #22, shielded pairs, 300 V, PE insulation
						Pull rope	Soft-Fiber Polyester
			2			1473-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2910-12	4 pair #22, shielded pairs, 300 V, PE insulation
5229	E-115	78	RGS conduit	317.80	1935.24	1474-5A	1 - 6 pair, shielded #18 with overall shield, 300 V, PVC jacket
						Pull rope	Soft-Fiber Polyester
						1474-5B	1 - 6 pair, shielded #18 with overall shield, 300 V, PVC jacket
5230	E-114	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5231	E-114	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5232	E-114	78	RGS conduit	1201.71	1935.24	1473-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5233	E-115	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5234	E-115	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5235	E-115	78	RGS conduit	1201.71	1935.24	Pull rope	Soft-Fiber Polyester
						1473-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
5236	E-116	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5237	E-116	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5238	E-116	78	RGS conduit 2	1201.71	1935.24	1473-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5241	E-116	78	RGS conduit	1027.61	1935.24	2202-3	1-7/C #16, 600 V, EPR insulation
						2202-2	1-3/C #14, 600 V, EPR insulation
						2202-4	1-3/C #14, 600 V, EPR insulation
						2105	1-3/C + gnd #2, 600 V, EPR insulation
						2202-1	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5242	E-116	78	RGS conduit	192.40	1935.24	Pull rope	Soft-Fiber Polyester
						CCTVE01AB	TVCP
						CCTVE01AA	TVP
5243	E-116	53 2	RGS conduit 2	527.18	879.42	Pull rope	Soft-Fiber Polyester 2
						2097	1-3/C + gnd #2, 600 V, EPR insulation
5244	E-116	78	RGS conduit	648.58	1935.24	Pull rope	Soft-Fiber Polyester
						LP221-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						LP221-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5245	E-116	78	RGS conduit 2	727.89	1935.24	2202-1	1-2/C + gnd #8, 600 V, EPR insulation
						2202-2	1-3/C #14, 600 V, EPR insulation
						UP206-9	1-2/C + gnd #8, 600 V, EPR insulation
						2202-4	1-3/C #14, 600 V, EPR insulation
						2204-3	1-7/C #16, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5246	E-116	78	RGS conduit	1201.71	1935.24	1474-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5247	E-116	78	RGS conduit	1525.97	1935.24	Pull rope	Soft-Fiber Polyester
						MVDSE02A	MVDS DLC
						CCTVE01AD	TVL
						CCTVE01AC	TVC
						1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
5249	E-116	78	RGS-PVC coated conduit	30.19	1935.24	2475-3B	12 Fiber, single mode fiberoptic cable
						Pull rope	Soft-Fiber Polyester
5250	E-116	78	RGS conduit 2	1201.71	1935.24	1473-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-440

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY	CHECKED BY
PBP	AB

DATE 8/02 | 8/02

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

DATE PLOTTED => 10/29/2008
TIME PLOTTED => 3:54:36 PM