DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	389 R4	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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Caltrans Metric

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
4	03/26/10	DEHUMIDIFIER SCADA INTERFACE	RR	RG FW	130
3	08/03/09	ELECTRICAL WARNING SYSTEMS	RY RR	RG FW	61
2	03/30/09	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_____

1: REGISTERED PROFESSIONAL ENGINEER S. A. ESTOQUE, JR. No. E-10151 Exp. 12/31/2008 ELECTRICAL STATE OF CALIFORNIA — FOR REVISION ONLY

2 3: REGISTERED PROFESSIONAL ENGINEER FADI WALIEDDINE No. 11465 Exp. 12/31/2009 ELECTRICAL STATE OF CALIFORNIA — FOR REVISION ONLY

4: REGISTERED PROFESSIONAL ENGINEER SYN YEE CHIN No. 18186 Exp. 09/30/2011 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
4224	E-115	78	RGS conduit	227.46	1935.24	Pull rope	Soft-Fiber Polyester
						UP105-9	1-2/c + gnd #8,600 V, EPR insulation
4225	E-115	53	RGS conduit	317.80	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
4226	E-115	78	RGS conduit	4 98.10	1935.24	Pull rope	Soft-Fiber Polyester
					4	1115-1	
4241	E-116	78	RGS conduit	477.32	1935.24	1255-2	1-3/C #16,600 V, EPR insulation
						1202-3	1-7/C #16,600 V, EPR insulation
						1202-2	1-3/C #14,600 V, EPR insulation
						1202-1	1-2/c + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4242	E-116	78	RGS conduit	192.40	1935.24	CCTVE01BA	TVP
						CCTVE01BB	TVCP
						Pull rope	Soft-Fiber Polyester
4243	E-116	53	RGS conduit	527.18	879.42		
						Pull rope	Soft-Fiber Polyester
						1096	1-3/c + gnd #2,600 V, EPR insulation
4244	E-116	53	RGS conduit	527.18	879.42	Pull rope	Soft-Fiber Polyester
						1097	1-3/c + gnd #2,600 V, EPR insulation
4245	E-116	53	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
4246	E-116	78	RGS conduit	324.26	1935.24	MVDSW03A	MVDS DLC
						Pull rope	Soft-Fiber Polyester
						CCTVE01BD	TVL
						CCTVE01BC	TVC
4248	E-116	78	RGS-PVC coated conduit	30.19	1935.24	Pull rope	Soft-Fiber Polyester
						1475-3B	12 Fiber, single mode fiberoptic cable
4261	E-117	78	RGS conduit	62.07	1935.24	Pull rope	Soft-Fiber Polyester
						1256-1	1-3/C #16,600 V, EPR insulation
4262	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
4263	E-117	53	RGS conduit	527.18	879.42	Pull rope	Soft-Fiber Polyester
						1098	1-3/c + gnd #2,600 V, EPR insulation
4264	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
4265	E-117	53	RGS conduit	150.44	1935.24	Pull rope	Soft-Fiber Polyester
						MVDSW04A	MVDS DLC
4266	E-117	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
4268	E-117	78	RGS-PVC coated conduit	30.19	1935.24	Pull rope	Soft-Fiber Polyester
						1475-3C	12 Fiber, single mode fiberoptic cable
4281	E-118	78	RGS conduit	4 0.00	1935.24		4
						Pull rope	Soft-Fiber Polyester

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
4282	E-118	78	RGS conduit	1002.67	1935.24		
						2201-1	1-2/c + gnd #8,600 V, EPR insulation
						2201-2	1-2/c + gnd #8,600 V, EPR insulation
						2201-6	1-2/c + gnd #8,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						2201-4	1-9/C #16,600 V, EPR insulation
						2201-3	1-3/C #14,600 V, EPR insulation
						S-3056-8	1-4/C #14,600 V, EPR insulation
4283	E-118	53	RGS conduit	527.18	879.42		
						1099	1-3/c + gnd #2,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4284	E-118	78	RGS conduit	454.92	1935.24	Pull rope	Soft-Fiber Polyester
						UP108-3	1-2/c + gnd #8,600 V, EPR insulation
						UP108-2	1-2/c + gnd #8,600 V, EPR insulation
4285	E-118	53	RGS conduit	317.80	1935.24	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
4286	E-118	78	RGS conduit	4 98.10	1935.24	Pull rope	Soft-Fiber Polyester
						1117-1	1-2PR #18 Twisted Shielded w/overall Shield 4
4301	E-96	78	RGS conduit	366.10	1935.24	A-3001-1	1-3/c + gnd #4,600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
4303	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
4304	E-96	41	RGS conduit	212.85	534.55	Pull rope	Soft-Fiber Polyester
						A-3001-2	3 + 1 gnd #6,#8, 600 V, RHH/RHW insulation
4305	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
4306	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
4307	E-96	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4308	E-96	53	RGS conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
4309	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester
4310	E-96	41	RGS conduit	0.00	534.55	Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-434

REVISED BY	DATE REVISED

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

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 4/26/2010
TIME PLOTTED => 1:36:00 PM