DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	363 R6	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

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
6	07/01/11	TOS MODIFICATIONS	RR	RG	81
5	03/01/11	BASE INTEGRATION	RSB	WB	150
4	03/26/10	DEHUMIDIFIER SCADA INTERFACE	RR	RG FW	130
3	03/30/09	SERVICE PLATFORM ELECTRICAL CHANGES	RY RR	RG MP	55
2	02/25/08	CABLE TRAY CHANGES	RR TW	RG	42S1
1	03/04/08	BARRIER MODIFICATIONS	JS BM	RG	44

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 1 2
FOR REVISION ONLY

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

REGISTERED PROFESSIONAL ENGINEER SYN YEE CHIN No. 18186 Exp. 09/30/2011 ELECTRICAL STATE OF CALIFORNIA 4 5 6
FOR REVISION ONLY

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
1T33	E-114B	610	152.4 mm siderail ladder tray	7720.94	18064.48	UP104-8	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-12	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-9	1-2/C + gnd #8, 600 V, EPR insulation
						A-1011-1	1-3/C + gnd #2, 600 V, EPR insulation
						A-1012-1	1-3/C + gnd #2, 600 V, EPR insulation
						UP104-3	1-2/C + gnd #10, 600 V, EPR insulation
						UP107-3	1-2/C + gnd #8, 600 V, EPR insulation
						UP105-9	1-2/C + gnd #8, 600 V, EPR insulation
						UP104-9	1-2/C + gnd #10, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						UP108-4	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-2	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-7	1-2/C + gnd #8, 600 V, EPR insulation
						UP107-7	1-2/C + gnd #8, 600 V, EPR insulation
						UP106-7	1-2/C + gnd #8, 600 V, EPR insulation
						UP105-7	1-2/C + gnd #8, 600 V, EPR insulation
						A-1013-1	1-3/C + gnd #2, 600 V, EPR insulation
						UP107-9	1-2/C + gnd #8, 600 V, EPR insulation
						A-1014-1	1-3/C + gnd #2, 600 V, EPR insulation
						UP106-3	1-2/C + gnd #8, 600 V, EPR insulation
						UP105-3	1-2/C + gnd #10, 600 V, EPR insulation
						UP106-6	1-2/C + gnd #8, 600 V, EPR insulation
						UP105-10	1-2/C + gnd #8, 600 V, EPR insulation
						UP104-6	1-2/C + gnd #8, 600 V, EPR insulation
						UP107-8	1-2/C + gnd #8, 600 V, EPR insulation
						UP106-8	1-2/C + gnd #8, 600 V, EPR insulation
						UP105-8	1-2/C + gnd #8, 600 V, EPR insulation
						UP104-7	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-8	1-2/C + gnd #8, 600 V, EPR insulation
						UP106-9	1-2/C + gnd #8, 600 V, EPR insulation
						UP108-10	1-2/C + gnd #8, 600 V, EPR insulation
1T39	E-20B, E-126	610	152.4 mm siderail ladder tray	1054.36	18064.48	A-1011-1	1-3/C + gnd #2, 600 V, EPR insulation
						A-1014-1	1-3/C + gnd #2, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
1T43	E-114B	610	152.4 mm siderail solid bottom tray	13605.16	38709.60	MVDSW04A	MVDS DLC
						1144	1 - 2 pair, shielded #18 with IS/OA , 300 V, PVC jacket
						1475-3C	12 Fiber, single mode fiberoptic cable
						1475-3A	12 Fiber, single mode fiberoptic cable
						1474-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1145	1 - 2 pair, shielded #18 with IS/OA , 300 V, PVC jacket
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1477-2	72 Fiber, single mode fiberoptic riser cable
						1475-3	72 Fiber, single mode fiberoptic riser cable
						MVDSW02A	MVDS DLC
						1115-1	1-2PR #18 Twisted Shielded w/overall shield
						1117-1	1-2PR #18 Twisted Shielded w/overall shield
						1475-3B	12 Fiber, single mode fiberoptic cable
						2900-472B	4 pair #22, shielded pairs, FEP insulation
						2900-182A	4 pair #22, shielded pairs, FEP insulation
						2900-182B	4 pair #22, shielded pairs, FEP insulation
						2900-202A	4 pair #22, shielded pairs, FEP insulation
						2900-282A	4 pair #22, shielded pairs, FEP insulation
						2900-342A	4 pair #22, shielded pairs, FEP insulation
						2900-392A	4 pair #22, shielded pairs, FEP insulation
						2900-462A	4 pair #22, shielded pairs, FEP insulation
						2900-472A	4 pair #22, shielded pairs, FEP insulation
						Pull rope	Soft-Fiber Polyester
						2900-472C	4 pair #22, shielded pairs, FEP insulation
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1473-5	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
						1473-10	50 pair #18, shielded pairs, IS/OS shield 600V, XLPE insul., PVC jacket
						1474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2900-462B	4 pair #22, shielded pairs, FEP insulation
						1479-1	72 Fiber, single mode fiber optic riser cable inside brown innerduct
						1479-2	72 Fiber, single mode fiber optic riser cable inside brown innerduct
						1481-2	12 Fiber, single mode fiber optic cable inside brown innerduct

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
1T44	E-114A	610	152.4 mm siderail solid bottom tray	3785.76	38709.60	1473-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1475-3A	12 Fiber, single mode fiberoptic cable
						MVDSW02A	MVDS DLC
						Pull rope	Soft-Fiber Polyester
						1474-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
1T45	E-114B	610	152.4 mm siderail solid bottom tray	2972.95	38709.60	Pull rope	Soft-Fiber Polyester
						2900-182A	4 pair #22, shielded pairs, FEP insulation
						2910-10	4 pair #22, shielded pairs, 300 V, PE insulation
						2910-8	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
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						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
						2900-472C	4 pair #22, shielded pairs, FEP insulation
						2900-182B	4 pair #22, shielded pairs, FEP insulation
						2900-472A	4 pair #22, shielded pairs, FEP insulation
						2900-462B	4 pair #22, shielded pairs, FEP insulation
						2900-462A	4 pair #22, shielded pairs, FEP insulation
						2900-392A	4 pair #22, shielded pairs, FEP insulation
						2900-342A	4 pair #22, shielded pairs, FEP insulation
						2900-282A	4 pair #22, shielded pairs, FEP insulation
						2910-7	4 pair #24, overall shielded, 30 V, PE insulation
						2900-472B	4 pair #22, shielded pairs, FEP insulation
						2900-202A	4 pair #22, shielded pairs, FEP insulation
						1115-1	1-2PR #18 Twisted Shielded w/overall shield
1T46	E-98, E-114	610	152.4 mm siderail solid bottom tray	5211.36 6	38709.60	CCTVE01B	HCC 6
						1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						MVDSW03A	MVDS DLC
						6	
						1475-3B	12 Fiber, single mode fiberoptic cable
						Pull rope	Soft-Fiber Polyester
						1473-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1479-1	72 Fiber, single mode fiber optic riser cable inside brown innerduct
						1479-2	72 Fiber, single mode fiber optic riser cable inside brown innerduct
						1481-2	12 Fiber, single mode fiber optic cable inside brown innerduct

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-408

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

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DRAFT 1 (03/01/11)

LAST REVISION 00-00-00
DATE PLOTTED => 05-JUL-2011
TIME PLOTTED => 14:56