DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	376 R5	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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REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

REGISTERED PROFESSIONAL ENGINEER SYN YEE CHIN No. 18186 Exp. 09/30/2011 ELECTRICAL STATE OF CALIFORNIA

3 4 5 Syn Yee Chin
FOR REVISION ONLY

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

1 2 S. Estoque
FOR REVISION ONLY

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type
						2900-452A	4 pair #22, shielded pairs, FEP insulation
						2900-442A	4 pair #22, shielded pairs, FEP insulation
						2900-442C	4 pair #22, shielded pairs, FEP insulation
						2900-442B	4 pair #22, shielded pairs, FEP insulation
						2900-272A	4 pair #22, shielded pairs, FEP insulation
						2900-162A	4 pair #22, shielded pairs, FEP insulation
						2900-192C	4 pair #22, shielded pairs, FEP insulation
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2900-432A	4 pair #22, shielded pairs, FEP insulation
						2900-192A	4 pair #22, shielded pairs, FEP insulation
						2900-172C	4 pair #22, shielded pairs, FEP insulation
						2900-172B	4 pair #22, shielded pairs, FEP insulation
						2900-162B	4 pair #22, shielded pairs, FEP insulation
						2900-152C	4 pair #22, shielded pairs, FEP insulation
						2900-152B	4 pair #22, shielded pairs, FEP insulation
						2900-152A	4 pair #22, shielded pairs, FEP insulation
						1474-5B	1 - 6 pair, shielded #18 with overall shield, 300 V, PVC jacket
						1474-6	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
						1473-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2900-272B	4 pair #22, shielded pairs, FEP insulation
2T46	E-115, E-183	610	152.4 mm siderail solid bottom tray	6170.68 5	38709.60	1474-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
						5 MVDSE02A	MVDS DLC
						5 CCTVE01A	HCC
						5 MVDSW03A	MVDS DLC
						5 CCTVE01B	HCC
						1473-7	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
						1473-6	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2475-3B	12 Fiber, single mode fiber optic cable
						2479-1	72 Fiber, single mode fiber optic riser cable inside brown innerduct
2T47	E-117, E-184	610	152.4 mm siderail solid bottom tray	4987.47	38709.60	1474-7	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						MVDSE03A	MVDS DLC
						2475-3C	12 Fiber, single mode fiber optic cable
						1473-8	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
						Pull rope	Soft-Fiber Polyester
2T48	E-118, E-185	610	152.4 mm siderail solid bottom tray	6816.85	38709.60	Pull rope	Soft-Fiber Polyester
						1474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						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
						1474-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2154	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						2148	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						2149	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						1473-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						1473-8	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2474-10	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2150	1 - 2 pair, shielded #18 with IS/OA, 300 V, PVC jacket
						1118-1	1-2PR #18 Twisted Shielded w/overall shield

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm2)	Allowable Fill (mm2)	Included Cable No.	Conductor Type
2T49	E-212, E-21B	305	152.4 mm siderail ladder tray	1904.72	19354.80	Pull rope	Soft-Fiber Polyester
						2900-152A	4 pair #22, shielded pairs, FEP insulation
						2900-152C	4 pair #22, shielded pairs, FEP insulation
						2900-162A	4 pair #22, shielded pairs, FEP insulation
						2900-162B	4 pair #22, shielded pairs, FEP insulation
						2910-2	4 pair #22, shielded pairs, FEP insulation
						2910-3	4 pair #22, shielded pairs, FEP insulation
						1473-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						2475-3	72 Fiber, single mode fiberoptic riser cable
						2900-152B	4 pair #22, shielded pairs, FEP insulation
						2900-142A	4 pair #22, shielded pairs, FEP insulation
2T53	E-181 Thru E-186 E-212A	610	152.4 mm siderail solid bottom tray	0.00	38709.60	Pull rope	Soft-Fiber Polyester
2T54	E-212, E-21B	610	152.4 mm siderail ladder tray	0.00	16774.16	Pull rope	Soft-Fiber Polyester
3000		41	RGS conduit	323.69	534.55	UP204-8-2	2 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP204-7-1	1-2/C + gnd #8,600 V, EPR insulation
3001		41	RGS conduit	454.92	534.55	UP204-7	1-2/C + gnd #8,600 V, EPR insulation
						UP204-8	1-2/C + gnd #8,600 V, EPR insulation
3002		53	RGS conduit	684.34	879.42	UP204-7	1-2/C + gnd #8,600 V, EPR insulation
						UP205-7-1	1-2/C + gnd #8,600 V, EPR insulation
						UP204-8-2	2 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP204-8-1	3 + 1gnd #8,#10, 600 V, RHH/RHW insulation
3003		41	RGS conduit	454.92	534.55	UP205-8	1-2/C + gnd #8,600 V, EPR insulation
						UP205-7	1-2/C + gnd #8,600 V, EPR insulation
3004		53	RGS conduit	684.34	879.42	UP205-8-2	2 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP205-8-1	3 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP206-7-1	1-2/C + gnd #8,600 V, EPR insulation
						UP205-7	1-2/C + gnd #8,600 V, EPR insulation
3005		41	RGS conduit	454.92	534.55	UP206-8	1-2/C + gnd #8,600 V, EPR insulation
						UP206-7	1-2/C + gnd #8,600 V, EPR insulation
3006		53	RGS conduit	684.34	879.42	UP206-7	1-2/C + gnd #8,600 V, EPR insulation
						UP207-7-1	1-2/C + gnd #8,600 V, EPR insulation
						UP206-8-1	3 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP206-8-2	2 + 1gnd #8,#10, 600 V, RHH/RHW insulation
3007		41	RGS conduit	454.92	534.55	UP207-8	1-2/C + gnd #8,600 V, EPR insulation
						UP207-7	1-2/C + gnd #8,600 V, EPR insulation
3008		53	RGS conduit	684.34	879.42	UP207-8-2	2 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP207-8-1	3 + 1gnd #8,#10, 600 V, RHH/RHW insulation
						UP207-7	1-2/C + gnd #8,600 V, EPR insulation
						UP208-7-1	1-2/C + gnd #8,600 V, EPR insulation
3009		41	RGS conduit	454.92	534.55	UP208-8	1-2/C + gnd #8,600 V, EPR insulation
						UP208-7	1-2/C + gnd #8,600 V, EPR insulation

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-421

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DRAFT 1 (03/01/11)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY
CHECKED BY

DATE 8/02	PBP	REVISED BY
8/02	AB	DATE REVISED

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

DGN FILE =>04-0120f1_0376R05.dgn
USERNAME =>llorico

CU 04251

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LAST REVISION 00-00-00

DATE PLOTTED => 05-JUL-2011
TIME PLOTTED => 14:57