DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	394 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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REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	06/12/08	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_____

FOR REVISION ONLY

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

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
5002	E-71A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5003	E-71A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5004	E-71A 2	78	RGS-PVC coated conduit	648.58	1935.24	Pull rope	Soft-Fiber Polyester
						LP219-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						LP219-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5005	E-71A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5006	E-71A	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5007	E-114	78	RGS-PVC coated conduit	150.44	1935.24	MVDSE01A	MVDS DLC
						Pull rope	Soft-Fiber Polyester
5026	E-72A	78	RGS-PVC coated conduit	205.22	1935.24	UP205-9	1-2/C + gnd #12, 600 V, EPR insulation
						UP205-11	1-2/C + gnd #12, 600 V, EPR insulation
	2					Pull rope	Soft-Fiber Polyester
5027	E-72A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5028	E-72A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5029	E-72A	78	RGS-PVC coated conduit	648.58	1935.24	LP220-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP220-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5030	E-72A	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5031	E-72A	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5032	E-115	78	RGS-PVC coated conduit	160.17	1935.24	2910-11	1-3/C #16, 600 V, EPR insulation
						2155	1-2 pair, shielded #18 with IS/OA, 300V, PVC jacket
						Pull rope	Soft-Fiber Polyester
5035	E-72	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5051	E-73A	78	RGS-PVC coated conduit	49.21	1935.24	Pull rope	Soft-Fiber Polyester
	2					UP206-5	2+1gnd #12,#12, 600 V, RHH/RHW insulation
5052	E-73A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5053	E-73A	78	RGS-PVC coated conduit	227.46	1935.24	UP206-9	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5054	E-73A	78	RGS-PVC coated conduit	648.58	1935.24	Pull rope	Soft-Fiber Polyester
						LP221-6,8	1-3/C + gnd #6, 600 V, EPR insulation
						LP221-2,4	1-3/C + gnd #6, 600 V, EPR insulation
5055	E-73A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5056	E-73A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5057	E-116	78	RGS-PVC coated conduit	324.26	1935.24	Pull rope	Soft-Fiber Polyester
						CCTVE01AD	TVL
						MVDSE02A	MVDS DLC
						CCTVE01AC	TVC
5058	E-73	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5076	E-74A	78	RGS-PVC coated conduit	49.21	1935.24	UP207-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
	2					Pull rope	Soft-Fiber Polyester
5077	E-74A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5078	E-74A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5079	E-74A	78	RGS-PVC coated conduit	648.58	1935.24	LP222-6,8	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
						LP222-2,4	1-3/C + gnd #6, 600 V, EPR insulation
5080	E-74A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5081	E-74A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5082	E-117	78	RGS-PVC coated conduit	150.44	1935.24	Pull rope	Soft-Fiber Polyester
						MVDSE03A	MVDS DLC

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
5101	E-75A	78	RGS-PVC coated conduit	481.89	1935.24	UP208-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						UP208-11	1-3/C #12, 600 V, EPR insulation
						UP208-15	1-2/C + gnd #8, 600 V, EPR insulation
	2					UP208-9	1-2/C + gnd #12, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5102	E-75A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5103	E-75A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5104	E-75A	78	RGS-PVC coated conduit	648.58	1935.24	LP223-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						LP223-6,8	1-3/C + gnd #6, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5105	E-75A	78	RGS-PVC coated conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5106	E-75A	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester
5107	E-75A	78	RGS-PVC coated conduit	212.85	1935.24	2154	1 - 2 pair, shielded #18 with IS/OA , 300 V, PVC jacket
						Pull rope	Soft-Fiber Polyester
5201	E-114	78	RGS conduit	648.58	1935.24	Pull rope	Soft-Fiber Polyester
						LP219-2,4	1-3/C + gnd #6, 600 V, EPR insulation
						LP219-6,8	1-3/C + gnd #6, 600 V, EPR insulation
5202	E-114 2	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5203	E-71A, E-114	53 2	RGS conduit	527.18	879.42 2		2
						2095	1-3/C + gnd #2, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5204	E-114	78	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5205	E-114	53 2	RGS conduit	527.18	879.42 2	Pull rope	Soft-Fiber Polyester
						2103	1-3/C + gnd #2, 600 V, EPR insulation
5206	E-114	78	RGS conduit	1201.71	1935.24	1474-4	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
						Pull rope	Soft-Fiber Polyester
5207	E-114	78	RGS conduit	1352.15	1935.24	MVDSE01A	MVDS DLC
						1474-5	50 pair #18, shielded pairs, IS/OS shield 600 V, XLPE insul., PVC jacket
			2			Pull rope	Soft-Fiber Polyester
5208	E-114	78	RGS conduit	30.19	1935.24	2475-3A	12 Fiber, single mode fiberoptic cable
						Pull rope	Soft-Fiber Polyester
5209	E-114	53	RGS-PVC coated conduit	0.00	879.42	Pull rope	Soft-Fiber Polyester

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-439

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 6/12/2008
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