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	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_____

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

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

FOR REVISION ONLY (1) FOR REVISION ONLY (2)

CONDUIT DATA

Conduit No	Reference	Size	Type	Total Fill (mm²)	Allowable Fill (mm²)	Included Cable No.	Conductor Type
5002	E-71A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5004	E-71A	53	Liquidtight Flex. Metal Cond.	648.58	879.42	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	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5006	E-71A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5026	E-72A	53	Liquidtight Flex. Metal Cond.	205.22	879.42	UP205-9	1-2/C + gnd #12, 600 V, EPR insulation
						UP205-11	1-2/C + gnd #12, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5027	E-72A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5029	E-72A	53	Liquidtight Flex. Metal Cond.	648.58	879.42	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	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5031	E-72A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5051	E-73A	53	Liquidtight Flex. Metal Cond.	49.21	879.42	Pull rope	Soft-Fiber Polyester
						UP206-5	2+1gnd #12,#12, 600 V, RHH/RHW insulation
5053	E-73A	53	Liquidtight Flex. Metal Cond.	227.46	879.42	UP206-9	1-2/C + gnd #8, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5054	E-73A	53	Liquidtight Flex. Metal Cond.	648.58	879.42	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	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5056	E-73A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5076	E-74A	53	Liquidtight Flex. Metal Cond.	49.21	879.42	UP207-5	2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation
						Pull rope	Soft-Fiber Polyester
5077	E-74A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5079	E-74A	53	Liquidtight Flex. Metal Cond.	648.58	879.42	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	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5081	E-74A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	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	53	Liquidtight Flex. Metal Cond.	481.89	879.42	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
						UP208-9	1-2/C + gnd #12, 600 V, EPR insulation
						Pull rope	Soft-Fiber Polyester
5102	E-75A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5104	E-75A	53	Liquidtight Flex. Metal Cond.	648.58	879.42	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	53	Liquidtight Flex. Metal Cond.	0.00	879.42	Pull rope	Soft-Fiber Polyester
5106	E-75A	53	Liquidtight Flex. Metal Cond.	0.00	879.42	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	53	RGS conduit	0.00	1935.24	Pull rope	Soft-Fiber Polyester
5203	E-71A, E-114	53	RGS conduit	527.18	879.42		
						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	RGS conduit	527.18	879.42	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
5206A	E-71A	41	Liquidtight Flex. Metal Cond.		534.55	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
5207A		53	Liquidtight Flex. Metal Cond.		879.42	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

For continuation, see next sheet.

CONDUIT AND TRAY SCHEDULE

E-439

REVISED BY	DATE REVISED
PBP	AB

DATE 8/02

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00

DATE PLOTTED => 3/31/2009
TIME PLOTTED => 2:26:49 PM