DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	281 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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Caltrans Metric

UTILITY PANEL UP-210 (CKT #2123)

Location: PIER 1 TOWER AT PLATFORM ELEV 53.85 m

LOAD DESCRIPTION	LTG	REC	OTH.	CB		CB	LTG	REC	OTH.	LOAD DESCRIPTION
Spare				20/1	1 A 2	30/1	2002			Tower Base LTG (14) @ EL. 9.0 m
Fog Detection Panel FDP-5			2880	30/1	3 B 4	20/1		900		Recept Tower Base (5) @ EL. 9.0 m
Sump Pump @ Elev 3.000 m Sump P-A			12	20/1	5 C 6	30/1	2145			Tower Base LTG (15) @ EL. 9.0 m
Sump Pump @ Elev 3.000 m Sump P-B			12	20/1	7 A 8	20/1		900		Recept Tower Base (5) @ EL. 9.0 m
Elevator Light & Fan			220	20/1	9 B 10	20/1	287			Platform LTG (7) @ EL. 53.85 m
Recept Platform (5) @ EL. 53.85 m		900		20/1	11 C 12	20/1			900	Strong Motion Recorder #3
SE Ltg.Tower Diaphragm (11) @ Elev 13.00 - 53.85 m	1573			20/1	13 A 14	20/1	1573			SW Ltg.Tower Diaphragm (11) @ Elev 13.00 - 53.85 m
NE Ltg.Tower Diaphragm (11) @ Elev 13.00 - 53.85 m	1573			20/1	15 B 16	20/1	1573			NW Ltg.Tower Diaphragm (11) @ Elev 13.00 - 53.85 m
Recept. (6) SE Tower Diaphragm @ Elev 13.00 - 53.85 m		1080		20/1	17 C 18	20/1		1080		Recept. (6) SW Tower Diaphragm @ Elev 13.00 - 53.85 m
Recept. (6) NE Tower Diaphragm @ Elev 13.00 - 53.85 m		1080		20/1	19 A 20	20/1		1080		Recept. (6) NW Tower Diaphragm @ Elev 13.00 - 53.85 m
Spare				20/1	21 B 22	20/1				Spare
				20/1	23 C 24	20/1				
				20/1	25 A 26	20/1				
				20/1	27 B 28	20/1				
Spare				20/1	29 C 30	20/1				Spare
TOTAL VA	3146	3060	3124				7580	3960	900	TOTAL VA

LOAD SUMMARY (INCLUDES .90PF) (VA)

Lighting (At 100%): 10726
Gen Use (1st 10 kVA AT 100% Plus 50% of remainder): 522

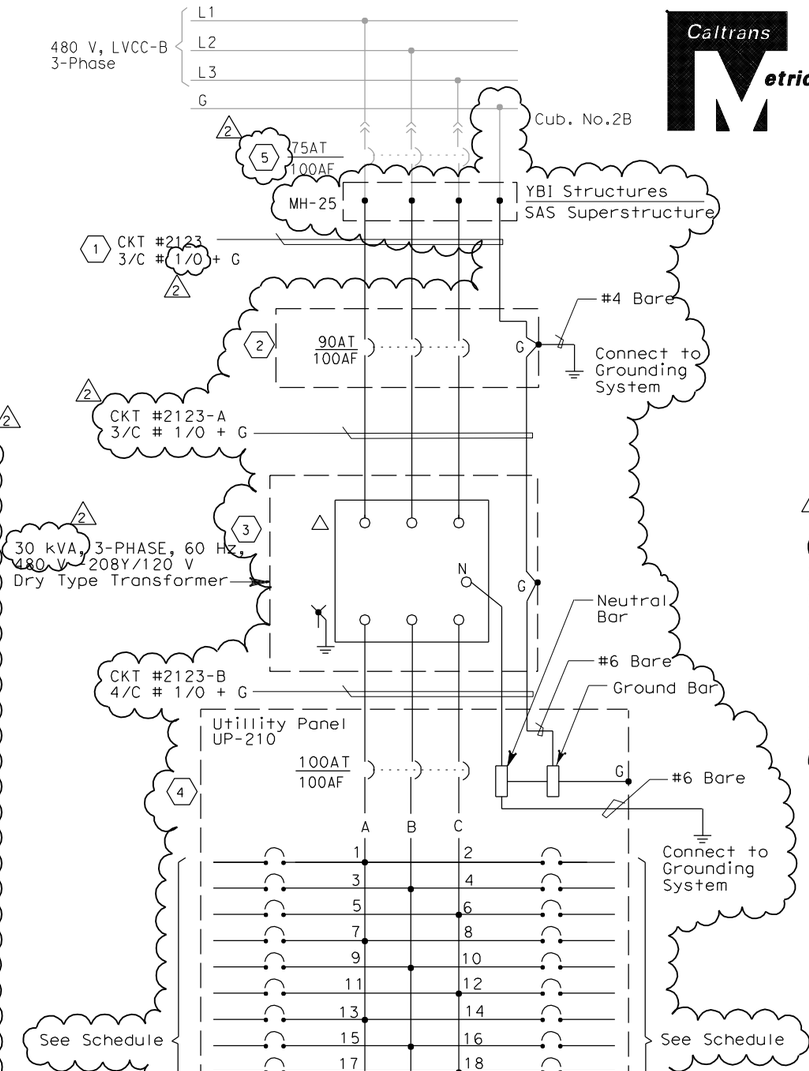
TOTAL kVA: 21.770

BALANCE (kVA)

Phase A - 8.220
Phase B - 7.433
Phase C - 6.117

VOLTAGE: 208/120 V
PHASE/WIRES: 3-Phase, 4-Wire
BUS RATING: 100 A
MAIN: 100 A Frame
MOUNTING: Surface
K.A.I.C.: 10

FEEDER ENTRY: TOP RIGHT



SHEET NOTES:

1. The Contractor shall extend and coil 5 meters of cable in Manhole-25. All cables shall be ~~tagged with circuit~~ number as shown. (YBI-1 contract).
2. Enclosed type circuit breaker in NEMA type 4x stainless steel enclosure.
3. Dry type step down transformer with copper winding in NEMA type 4x stainless steel enclosure.
4. Panelboard w/ 100A copper bus in NEMA type 4x stainless steel enclosure.
5. As-built feeder circuit breaker rating per YBI Substation contract. Feeder conductor size accomplished by YBI-1 contract.

NOTES:

1. The Contractor shall provide nameplates and circuit schedules as shown.
2. Deleted.
3. References:
   - For conduit and cable tray schedules, see sheets starting at E-401.
   - For pull box schedules, see sheets E-83 and E-169.
   - For elevator pit circuits, see sheet E-265.
   - For LVCC-B single line diagram, ~~see sheets E-32 through E-34~~
   - For equipment location and arrangement, see sheets E-264B E-264C.

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

FOR REVISION ONLY

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
2	09/18/09	TOWER UTILITY PANELS	JS TW	RG FW	70
1	04/10/09	ELECTRICAL WARNING SYSTEMS	JS TW	RG FW	61

REVISIONS

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

DETAILS
TOWER AND SUSPENSION CABLE PANEL UP-210 SCHEDULE
NO SCALE

E-278

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

CALCULATED/ DESIGNED BY	FK	DATE 10/01	REVISED BY	AB	2/04
CHECKED BY	EDC	11/01	DATE REVISED		

LAST REVISION 00-00-00
DATE PLOTTED => 12/10/2009
TIME PLOTTED => 3:33:38 PM

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

DGN FILE =>t:\13103\ms\pse\SAS Struc\CCO\SAS CCO70\2009-12-02 issued for Submittal\04-0120f1_0281R02.dgn
USERNAME =>llorico

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