DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	281 R4	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	2145			Tower Base LTG (15) @ EL. 9.0 m
Fog Detection Panel FDP-5			2880	30/1	3 B 4	20/1		1440		Recept Tower Base (8) @ EL. 9.0 m
Sump Pump @ Elev 3.000 m Sump P-A			1440	20/1	5 C 6	30/1	2002			Tower Base LTG (14) @ EL. 9.0 m
Sump Pump @ Elev 3.000 m Sump P-B			1440	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
Tower Base LTG (2) @ EL. 3.0 m	286			20/1	21 B 22	20/1	715			Tower Base LTG (5) @ EL. 3.0 m
Recept Tower Base (1) @ EL. 3.0 m		180		20/1	23 C 24	20/1		360		Recept Tower Base (2) @ EL. 3.0 m
Spare				20/1	25 A 26	20/1		180		Recept. (1) SW Tower Diaphragm @ Elev 9.00 m
				20/1	27 B 28	20/1			150	RTU-10E-A NW Shaft @ Elev 158.00m
Spare				20/1	29 C 30	20/1			100	120VAC/24VDC Converter Unit NW @ Elev 158.00m (4)
TOTAL VA	3432	3240	5980				8295	5040	1150	TOTAL VA

LOAD SUMMARY (INCLUDES .90PF) (VA)

Lighting (At 100%): 11727
Gen Use (1st 10 kVA At 100% Plus 50% of remainder): 12705 (4)

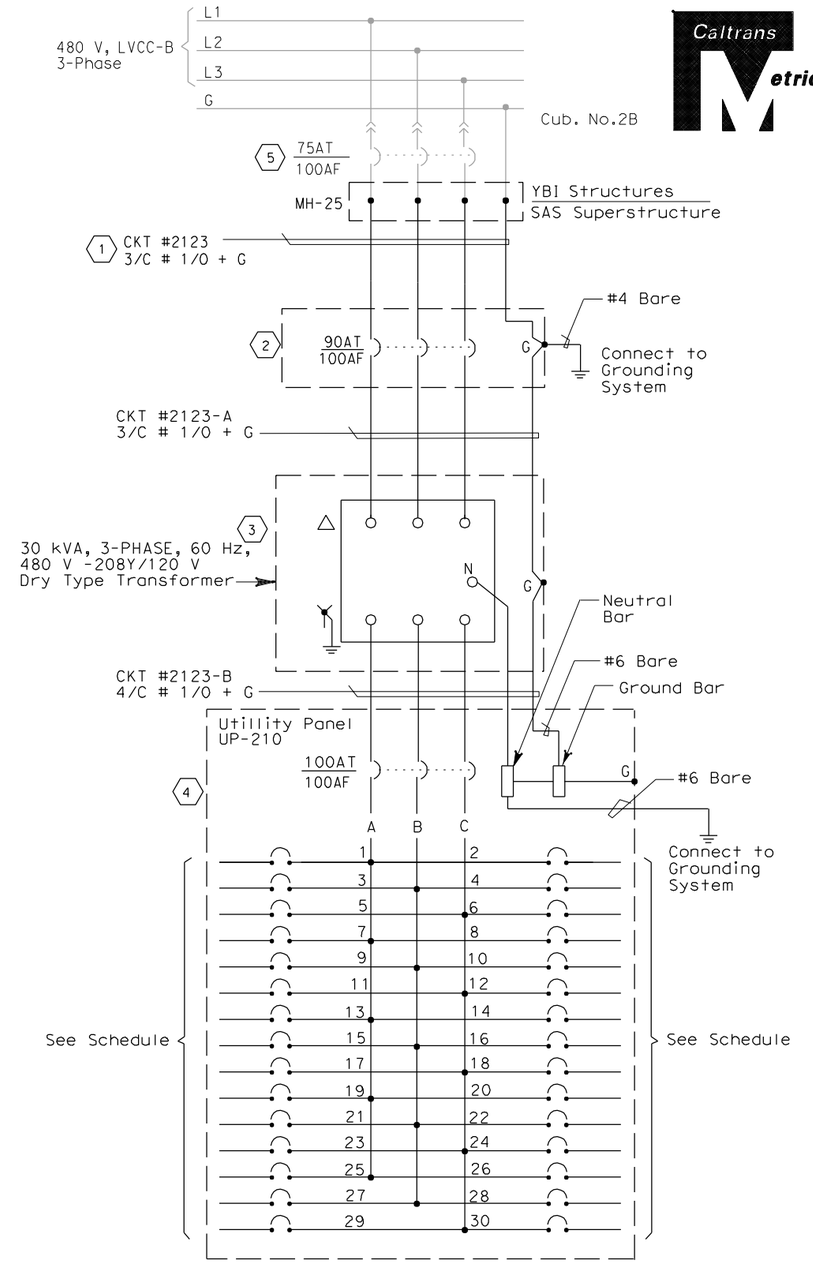
TOTAL kVA: 27.137 (4)

BALANCE (kVA)

Phase A - 9.971
Phase B - 9.124
Phase C - 8.042 (4)

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

Syn Yee Chin
FOR REVISION ONLY (4)

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

FOR REVISION ONLY (1)(2)(3)

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
4	03/26/10	DEHUMIDIFIER SCADA INTERFACE	RR	RG SYC	130
3	12/23/09	TOWER BASE MEP	RR	RG FW	79
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

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	DATE REVISED	AB 2/04
CHECKED BY	EDC	11/01			

LAST REVISION 00-00-00
DATE PLOTTED => 4/26/2010
TIME PLOTTED => 1:23:53 PM

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

DGN FILE =>t:\13103\ms\pse\SAS Struc\CCO\SAS CCO130\2010-04-26 CCO 130 Submittal\04-0120f1_0281R04.dgn
USERNAME =>llorico

CU 04251 EA 0120F1