STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ENGINEER'S DAILY REPORT

LAN Engineering Consultant

REPORT NO.	DATE	
275 {7-day}	September 14, 2007	M T W T F S S (DAY)
NORMAL WORK HOUR: START: 7:00AM STOP: 3:30PM		WEATHER: OVERCAST/SUNNY

LOCATION :

Construction Field Office : 333 Burma Road, Oakland 94607

Working Drawing Campus Office : 375 Burma Road, Oakland 94607

04-SF-80-13.2/13.9
Contract No. 04-0120F4
{SAS Superstructure}

Caltrans Supervisor:
Gary Lai Glai
Senior Bridge Engineer

Office Work:

- **Contract Change Order Meeting (Caltrans-PB-T.Y. Lin)**
  Subject: Status or CCO, RCC, New Items.
  - Discussed status of CCO # 31, 41, 43 and 44.
  - George Bou-Ghosn handed out a comment/guideline covering the CCO plan/specification change layout. See attachment #1.
  - Discussed the title of CCO #31 "Mechanical RFI Resolutions". Since the title is to be the description of the CCO need to remove RFI from the title. George changed to be similar to CC) 42: "Revision to Miscellaneous Mechanical Work".
  - Discussed the status of the CCR List (41-47, 31-32 and 34-35).
  - Talked to George after the meeting about some of the guidelines that I have followed in Caltrans and would like to possible incorporate in the project. He show interest and want to seat down with Darryl Schram and discuss them.
  - See attachment #2 for agenda for the meeting.

- **3-D Electrical Conflict Coordination Meeting (Caltrans - Contractor- PB) (1000):**
  - Went over the issues that were discover in the 3-D meeting on Tuesday between PB. Contractor and Caltrans. Also addressed the items in the memo sent by PB Design Visualization Team in Denver.
  - The following are additional items covered in the meeting:
    - Supports for the conduit to be addressed at a later date.
    - The factory bend radius of the conduits.
    - Sizes of the electrical boxes and cabinets.
    - Limits of rerouting the conduits to avoid conflicts.
    - See attachment # 3 for documents used in the meeting.

- **Proposed Recommended Change.**
  Subject: Lighting in Tower Structure cells below 9.0 M.
  - Cells having junction boxes and enclosures requiring access for maintenance need lighting to safely perform maintenance.
  - Sent proposal to Bill Shedd to add the lighting in the contract..
  - See attachment #4.

- **Electrical CCO # 42 Review.**
  - Continued my review of CCO # 42.

Any questions or comments you can reach me at (916) 919-7158. My E-Mail address is Mike.Travis@LANEngineering.com or Michael_Travis@dot.ca.gov

END OF REPORT

ATTACHMENTS:

1. **Guidelines given to T.Y. Lin and PB for CCO recommendations.**
2. **MEP CCO Meeting Agenda.**
3. **PB 3-D Model meeting work sheets and memo with questions.**
4. **Email / Recommendation for lighting in bridge cells below 9.0 M.**

SIGNATURE

Name	TITLE
Michael F. Travis	Electrical Engineer – LAN Engineering

ATTACHMENT #1 (1/1)

Caltrans Metric

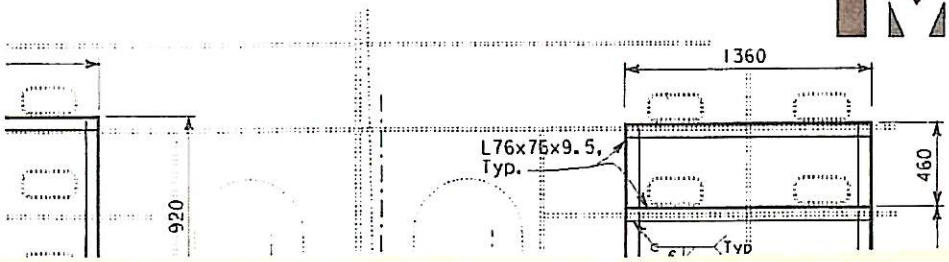
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT
04	SF	80	13.2/13.

REGISTERED CIVIL ENGINEER 4/3/04

12-6-04
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Parsons Brinckerhoff Quade & Douglas, Inc.
303 Second Street, Suite 700N
San Francisco, CA 94107



Notes to PB submittal for CCO 42, dated 8/31/07

I Spec changes:

changes need corrections and the "Engineer Stamp".

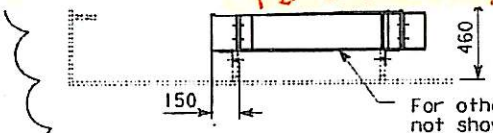
CT (George) will revise and provide final format to PB for approval and "Engineer Stamp"

II Plan sheets Revision

1- The revision Block/legend on every sheet is marked with SHEET XX OF XX
These Marks need to be removed by PB (Do NOT assign sheet No.)

2- The 5 sheets S1, S2, S3, 4of S1, 4of S2, 4of S3, 4of S4 are Marked as Revision one 1 and title is bubbled as revision 1
These supplemental sheets should have the Mark 0: PB to correct

3- File Name (Electronic) is mixed of small and capital letter R: r01, R01, PB to use only R01 (capital letter R).



For other details not shown, see 'TYPE VII Details on sheet 85 of 1204 Caltrans Plan.

TYPE VIIB
SCALE: 1:20

SECTION A-
SCALE: 1:10

	MP		
...ctric work, ...ween cable	EL	SO	42
...NS	BY	CK	CCO

NO. 42

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Gene Lusherovich PROJECT ENGINEER	BRIDGE NO. 34-0006 KILOMETER POST 13.2/13.9	SAS SUPERSTRUCTUR CABLE TRAY SUPPORT DETAIL
10 20 30 40 50 60 70 80 90 100	CU 04251 EA 0120F1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

FILE => 04-0120f1_0085R01.dgn

ATTACHMENT #2 (1/3)

SFOBB SELF ANCHORED SUSPENSION BRIDGE
CALTRANS PROJECT NO. 04-0120F4
ABFJV PROJECT NO. 660110

MEP CCO Meeting Agenda

MTG No. 004

MTG Date	Time	Recorded By	Location	File
09/07/07	0900 - 1000 hours	Martin Chandrawinata	WDC	Caltrans 22.12

	Description	Notes / Action
CCO #	**CCO Tracking**	
31	**Mechanical RFI Resolutions**	
	TY Lin: CCO package is due on Sept 7.	Received 9/10. Under CT Review
	PB: CCO package is due on Sept 7.	Received 9/10. Under CT Review
42	**Revision to Miscelaneous Electrical Work**	
	TY Lin: CCO package is due on Sept. 7.	Received 9/10. Under CT Review
	PB: CCO package received.	Under CT Review
43	**Electrical Lighting Design Revisions**	
	TY Lin: CCO package received.	
	PB: CCO package is due on October 19.	10/19/07 date is acceptable to PB.
44	**Barrier Modifications**	
	TY Lin: CCO package received.	
	PB: CCO package is due to ABF on September 18.	Per Eric, Rocky is working on this change. 9/18/07 date is acceptable to PB. ABF needs plans by 9/18/07.
CCR #	**New / Old Topics for Discussion**	
47	**Elevator Phone Options**	
	Elevator Pit is and provisions for the phone system and electrical may need require modifications.	A Mtg to be convened with DOSH. James to contact Larry, TYL Consultant check
46	**Fog, Bell, and Horn per USCG**	
	FD-5 Panel, Additional 1-mile Bell at E3 and 1 Horn at E2 on the Skyway.	PB to design panel and final electrical routing
45	**FAA Lighting**	
	Discrepancies between Contract Plans and USCG approved lighting layout on the tower. CT seeking clarification from FAA. Scope may include AV-1 Fixture that was rejected in SUB-172.	Waiting for the FAA to respond to Steve Hulsebus letter dated 8/17/2007.
44	**Bridge Painting, Galvanizing and other misc. items**	
	Piping visible to the public shall be painted white like the rest of the bridge. Piping originally was specd with bituminous coating.	April, Irene Khinsann, Steve Bonnett
43	**Interior Tower Issues from 3 to 9 meters**	
	Shop Dwg submittal revealed illumination deficiency. Also, sump pump submittal revealed potential hazard due to lack of grating for the sump pit.	Mike Travis sent a proposal to Gary L. and Bill S. on 8/30/07

ATTACHMENT #2 (2/3)

42	**Tower Utility Panels** Changes resulted from Submittal 174-176 redesign for the tower. Changes include Utility Panels, Transformers & Circuit Breakers.	CCO 42 PB redesigns received 9/11/07. CT to review and give direction to ABF.
41	**Pipe Riser Support at Elev. 53.85m** Pipe relocation per PB Mechanical & TY Lin sketches and RFI 451 585	State letter sent to ABF. Issues has been addressed & included in CCO31.
CCO 31 35	**Additional HLS Field Penetrations** Additional penetrations required.	Bill Shedd to discuss with Gary Pursell
34	**Remove Call Boxes and Add Handrails** Change Request per Steve Hulsebus Memo to Gary Pursell on 2/16/07. Eliminate 9 CBs; Keep 7 CBs. Ref. E-396, E-66, E-160.	TY Lin to design handrails Done - ! Ty Line
32	**USCG Navigation Lighting** Changes in Nav. Lights NV-1 (Green Lantern) per SUB-171	RFI-873 & Revised SUB-171 comment sent on 8/30/07
31	**Luminaire Light Poles, Poles and Fixers** These will be State-furnished, not Contractors furnished. Possibly a credit.	Need ABF cost breakdown.

Next Meeting	Attendance		Distribution
Friday, Sept. 14 , 2007 at 0900 hrs WDC	Bill Shedd Grady Hart Angel Triunfante Irene Khinsann Martin Chandrawinata	Scott Fabel Eric Sugiyama James Duxbury Alex Sanjines	George Bou-Ghosn

(CCRs') Contract Change Requests for 04-0120F4 (SAS) CCR - CCO Hopper

CT Change Request # (CCR)	Change Request # (CR)	CCO No.	CCO Group	CCO Tracking Number	SUBJECT	CHANGE	B.I. #	PLANS	SPECS	OTHER	Est. Cost of CCO	OVERSIGHT REVIEW	COMMENTS	REFERENCE (Resp. party)
	Below are the CALTRANS Change Requests (CCRs') noted after the start of the Project													
31					East Span Light Poles							10/17/2006	Change light standards to State furnished.	Bill Shedd
32					USCG Requirements for Lighting							3/14/2007	Navigation Lights	Bill Shedd
33					Hinge A Reaction Measurements							4/27/2007	Complementing CCOs SAS & SKY (BB)	Brian Beal
34		4251			Eliminate Callboxes on SAS							4/30/2007		Bill Shedd
35					Additional HLS Field Penetrations							6/18/2007		Bill Shedd
36					T1-Fender (Modify Bolt Pattern)							3/9/2006		Brian Beal
37		46			Additional Macalloy Bars							7/10/2007	Will be tracked under Change Orders	Brian Beal
38		47			Thermo Control Plan Credit							7/10/2007	Will be tracked under Change Orders	Gil K.
39		49			Transportation In China							7/10/2007	Will be tracked under Change Orders	Gary Pursell
40					Cable Splay Layout							7/25/2007		Brian Beal
41		31			Tower Riser Pipe Supports (PB&TY Lin)							8/3/2007		Bill Shedd
42					Tower Utility Panels, involves SUB174-176 redesign (PB)							8/3/2007		Bill Shedd
43					Tower Interior design issues at 3 to 9 meters - lighting									
44					Bridge Paint									
45					FAA Aviation Lights									Bill Shedd
46					Additional Fog Detection System									Bill Shedd
47					Elevator Options	Modifies phone lines in elevator (so far).					$ 50,000.00			
48					Minor Formwork Adjustments	Includes shared cost of survey falsework.								

COLOR KEY:

Assigned CCO Number and will be tracked under Change Orders

Additional information or confirmation needed

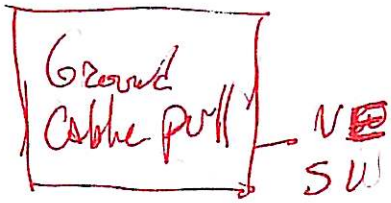
ATTACHMENT #2 (3/3)

G Fonge

ATTACHMENT #3 (1/6)

Sugiyama, Eric

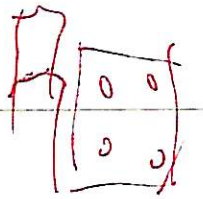
From: Gilson, Kevin
Sent: Thursday, September 06, 2007 12:07 PM
To: Sugiyama, Eric
Subject: FW: Tower @ 53.85 Electrical



Some questions we have about the 53.8 Twr model.
K

Kevin Gilson
PB
P 303.390.5932

Location of MVDS @ 60 M of E-Face
Mounting - conduit Support



From: White, Tracey
Sent: Thursday, September 06, 2007 11:42 AM
To: Gilson, Kevin
Subject: Tower @ 53.85 Electrical

I have a few questions and comments regarding the electrical work at platform 53.85:

Regarding the new sketches for conduit routing, penetration plate placement, strut placement and fixture plate placement-

NE-A : Strut top is at center-line of the penetration plate, which means the conduit routed there is above the strut.

The strut is at center-line 56.75 and is 1500mm long. This puts the top edge of the strut at 57.50 which is the center-line of the penetration plate. Is this intended or should the strut be moved up to the top of the penetration plate? Need To Extend Strut To 2000mm Recommend. Need To Check Other Locations.

Conduit 3359 (1A) at elevation 57.17 intersects with the MVDS pull box according to the elevation SW-E sketch. The pull box dimensions are 305x305x152. When place on the wall at (center-line) 57.30, the bottom of the box is lower than 57.17, which is the elevation for conduit 3359 (1A). If the vertical section of conduit 3359(1A) is moved between the MVDS pull box and the CCTV pull box, the conflict will be avoided. This would also move conduit 3339(1B). Please note that the placement of the pull boxes are according to the sketches for the struts and differs slightly from the elevation sketch. Conflict Excess Need To Clear With Contractor For Solution. (Routing By Contractor)

I found the dimensions for the SMS cabinet #3 (it's huge) but need details on conduit penetration points in the cabinet. Penitrations Coordination With Contractor. (Racking by Contractor)

Is there any new drawings for UP-210, the wireway, the main breaker and the transformer boxes? I need box dimensions and mounting racks. RFI-706.707 SK-1 Rev 2 has some dimensions, but the print is too small to read (or my eyesight is really that bad). This Needs Resolved By Sending An Electronic Copy Of Details.

The plan sketch for the fixtures (4/7) notes that the conduit elevations are minimum 56.288. At this elevation, the conduits and junction boxes on the south side would intersect conduits 3330-2b2 and 3320.

Also, this drawing notes the fixtures at elevation 56.25 (page 2/7 notes that fixture plates centerlines are at ~~56.25~~ (moved from 55.975). This causes an intersection on both SW-A and SE-A penetration plates. * Why 56.288 Min. Elevation → Creates PB Conflict.

~~Page 3/7~~ has a schedule for UP-210 stating: "Power from UP-210 out via wireway to:". Are there any drawings showing cable/conduit routing from the wireway? 707 R2 has Elevation View.

The water pipes going to/from the boost pump conflict with conduits 1A and 1B. I wasn't sure how far from the wall to put the conduits (they are lined up with the struts). Please clarify the distance from the wall the conduits need to be. Keep in mind that one conduit (3320-2B2) runs behind the big pull box. Conflict In Note But Will Resolve After Electrical Resolved

Does the MVDS conduit routing from the pull box up to elevation 60 negate the MVDS conduit routing and pull box shown on E-345 (RFI-475)? The Contractor has Modified The Routing And Should be Followed.

ATTACHMENT #3 (2/6)

Moving the conduit cluster to the other side of the ladder causes mass conflicts. How far does the ladder stand off the wall? Are the conduits good running behind the ladder? (SE-E) wall.

Sheet 919 Detail A ← Showes Ladder.

That's it (for now).

Tracey White

Design Visualization Specialist
Project Visualization Technical Resource Center

PB
Direct: 303-390-5928
Fax: 303-390-5934
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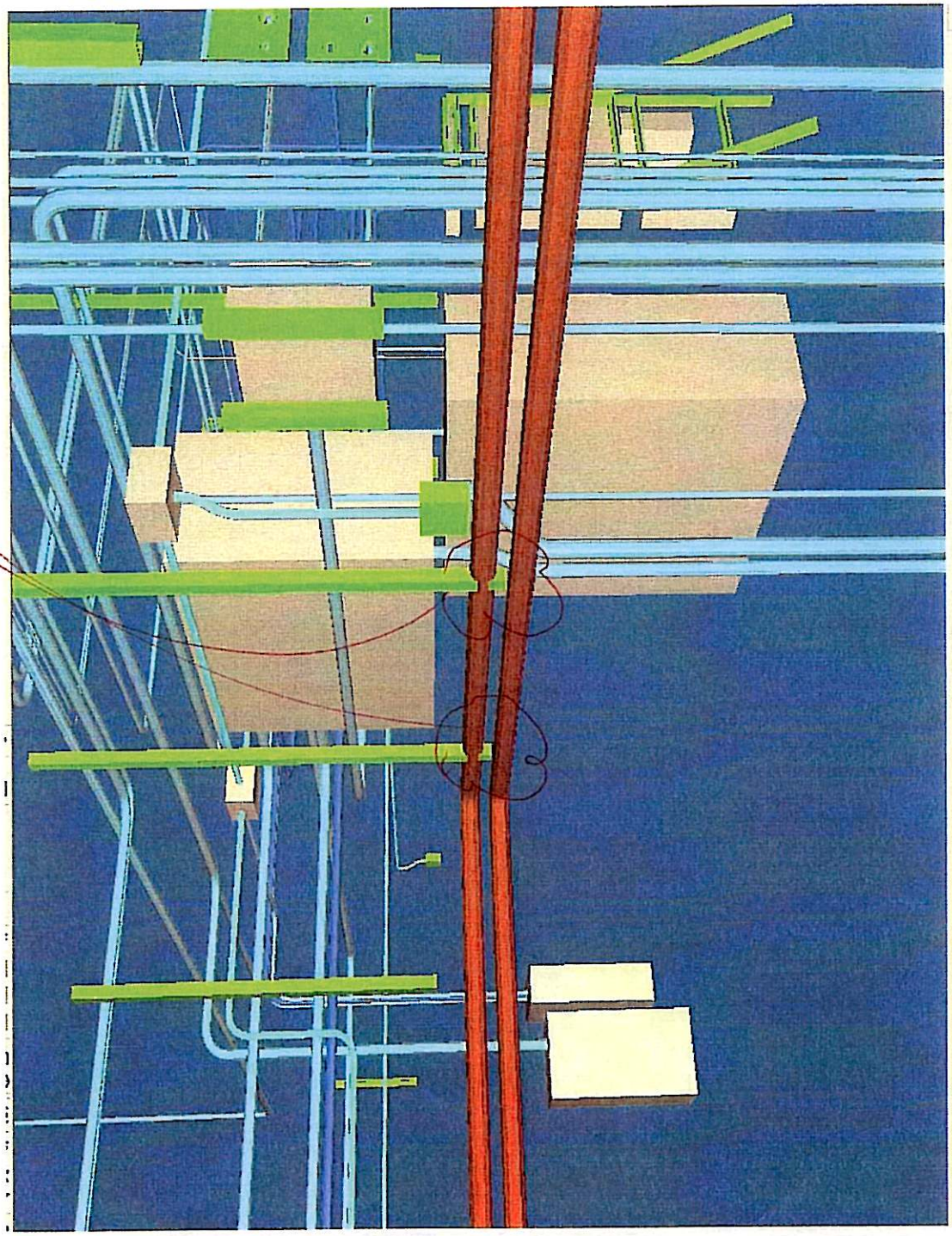
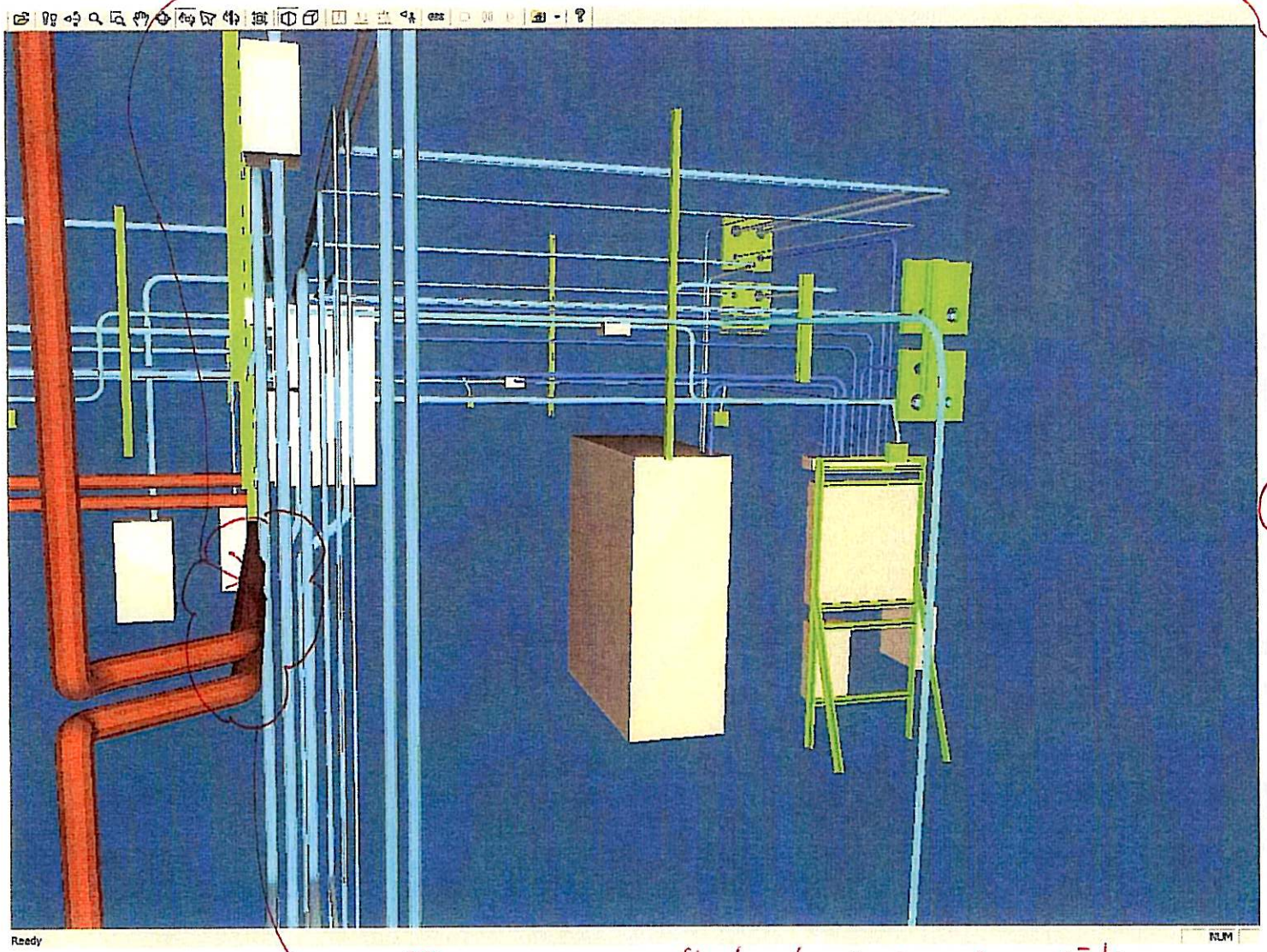
Fax: 303-390-5934
Cell: 303-638-7683
gilson@pbworld.com

Kevin Gilson
Director, Design Visualization
Project Visualization TRC

ATTACHMENT #3 (3/6)



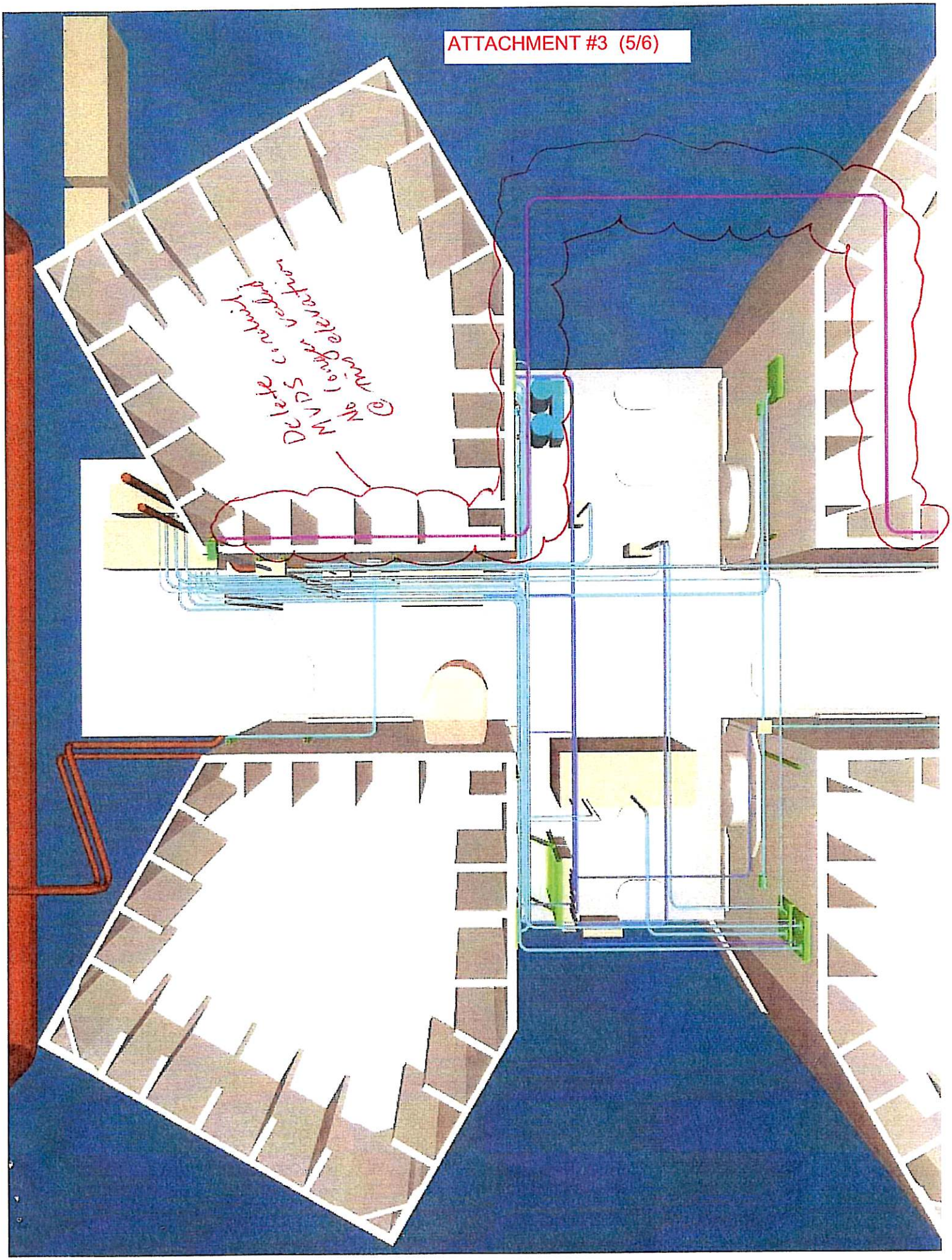
ATTACHMENT #3 (4/6)



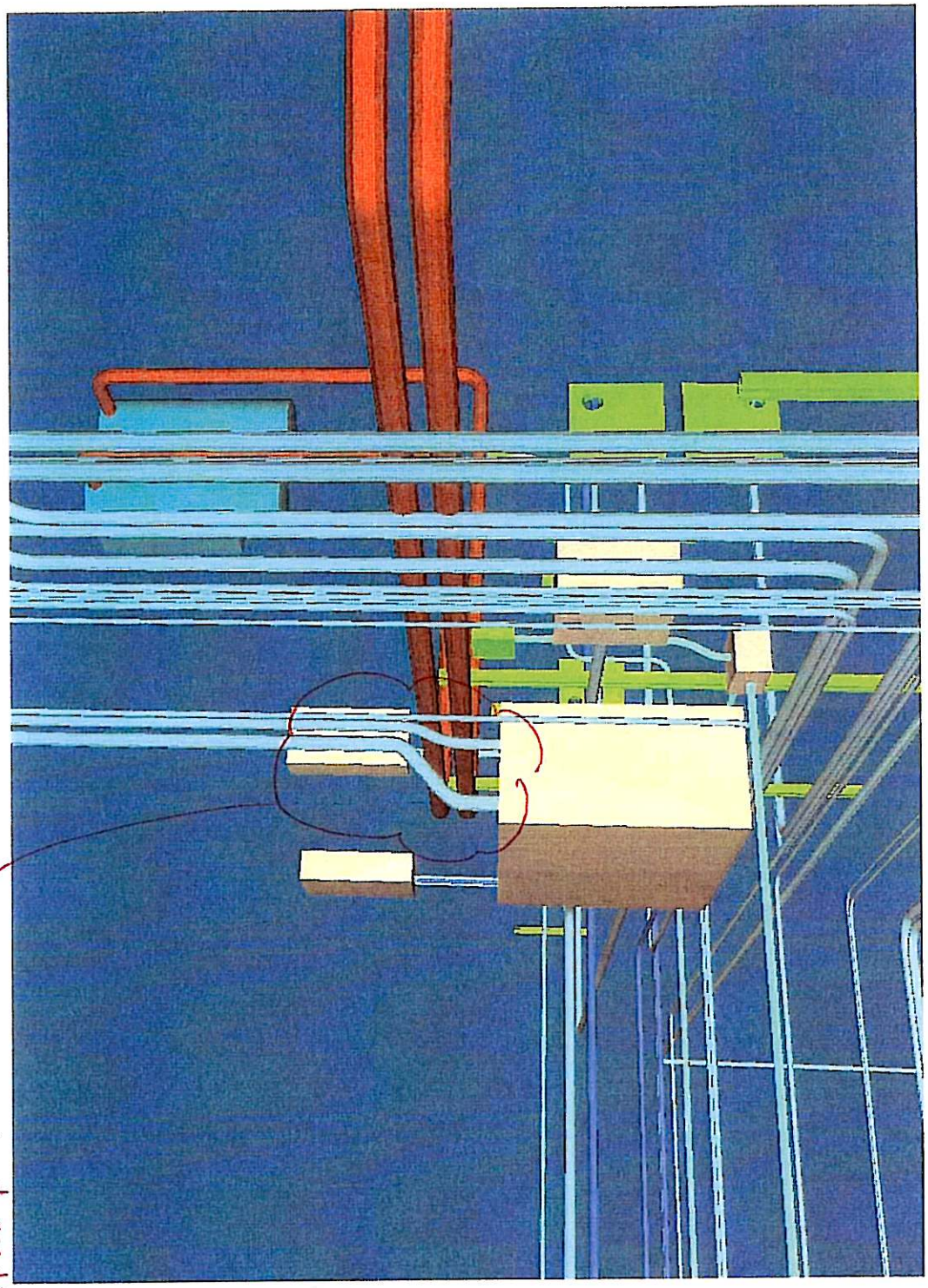
(2) Provide struts to support Mech pipes also

(1) Mech pipes conflict w/ Electrical conduits. Pls revise. Push out Elec conduits further away from tower skin wall as necessary.

ATTACHMENT #3 (5/6)



ATTACHMENT #3 (6/6)



Do not bend conduits going into PB. ~~[illegible]~~ Run straight vert conduits. Other conduits have to be pushed out farther from the wall as a result of this.

ATTACHMENT #4 (1/6)

Michael Travis/HQ/Caltrans/CAGov

09/14/2007 01:18 PM

To Bill Shedd/D04/Caltrans/CAGov@DOT, Gary J Lai/D04/Caltrans/CAGov@DOT

cc SAS - Caltrans

bcc Mike.Travis@LANEngineering.com

Subject Proposal for Lighting in Tower cells below 9.0 M elevation

Bill/Gary,

Attached is my recommendation for providing lighting in the cells in the tower structure below the 9.0 M elevation.
After contacting Caltrans bridge maintenance personnel and Electrical Maintenance personnel the following recommendations are being made:

Cells having junction boxes or enclosures with equipment or conductors installed should have general lighting installed.
The light will provide a safe working enviroment for performing maintenance tasks that willhave need for handling tools and equipment to perform the maintenance.
The other cells where bridge maintenance will need to go to perform inspections don't require general lighting per their response.

Proposal: Recommendation Package Processed.pdf

If there are any questions or comments please let me know.

Michael Travis
SFOBB Construction Offices
Design Campus Building
375 Burma Road
Oakland Ca. 94607
Phone: 510-808-4618

ATTACHMENT #4 (2/6)

Recommendation to evaluate and change the contract plans

By

Michael Travis

Subject: General Lighting for Tower Cells below 9.0 M.

Existing Conditions:

- The eleven cells within the tower structure have access ladders ascending to the top of the pile cap.
- The eleven cells do not have any general lighting installed in the contract plans.

Review of the possible installation of lighting within these cells:

- The cells would be accessed by Bridge Maintenance to perform schedule inspections to the structure. I called Bridge Maintenance and discussed the existing condition without general lighting and asked if it would be necessary to install lighting for their inspection entries. I was told that the general lighting would not be necessary that they had all the portable lighting required to perform the inspections.
- The contract has strong motion senor boxes installed in two of the cells that would possible require personnel other than Bridge Maintenance personnel to enter the cells to perform inspection or maintenance on these units.
- The contractor is rerouting conduits to some of the equipment below 9.0 m and will be installing junction boxes in two of the cells. That would require personnel other than Bridge Maintenance personnel to enter the cells to perform maintenance on these units.

Recommendations:

- For the safety of the personnel entering and performing maintenance within these cells I would recommend that these cells have general lighting installed in the contract.
- There are four cells that have either junction boxes or strong motion sensor boxes installed. General light in these cells by the ascending ladder and possible additional lights in the cell if needed.
- This issue was brought up to the district maintenance personnel and they indicated that lighting should be installed to provide a safe working area.

Attachments:

- Attached are the reference contract plans and detail sheets covering the areas discussed above.

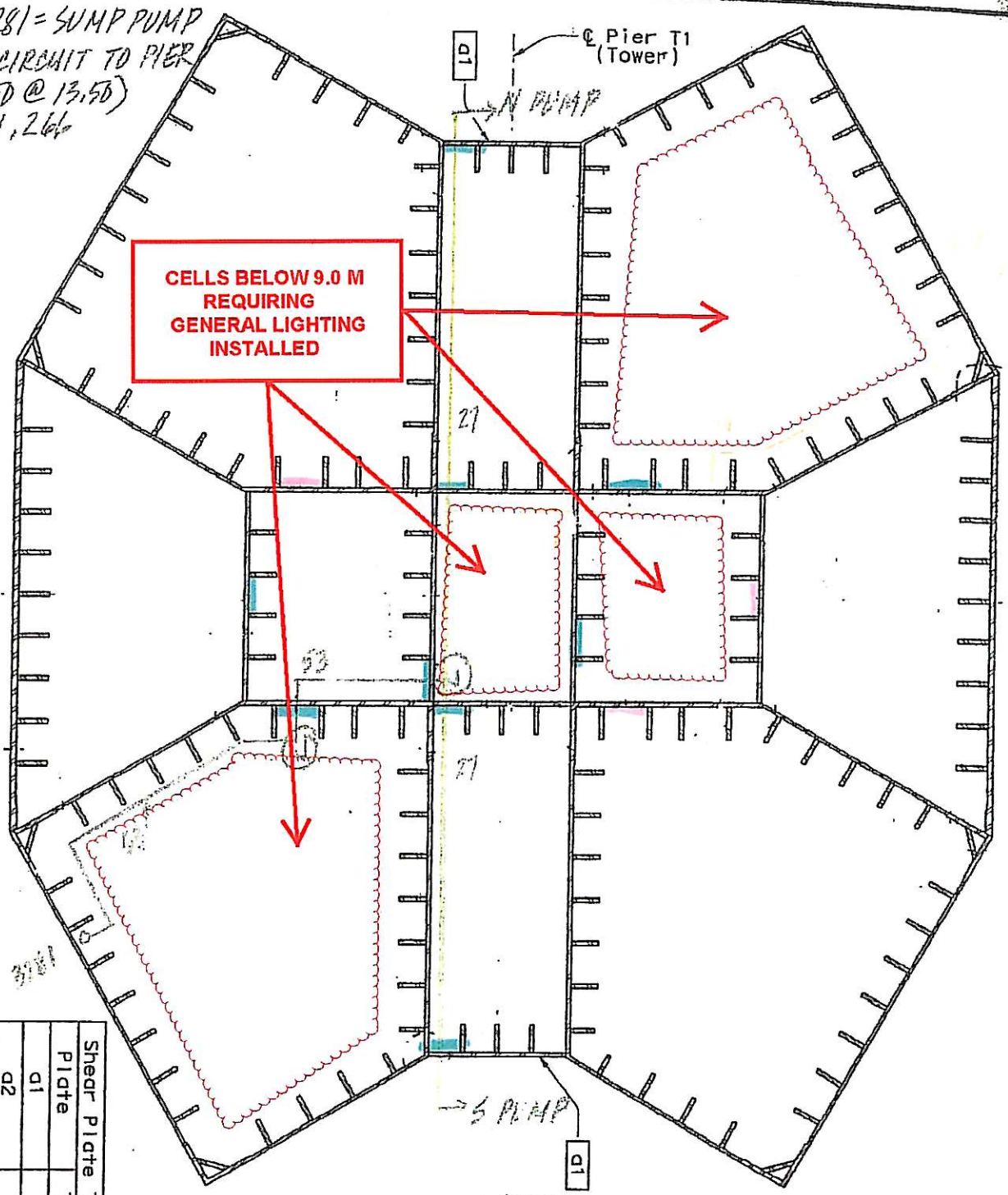
ATTACHMENT #4 (3/6)

SEISMIC & PUMPS @ ELEV 6.50

TOP

℄ DBLER PL = 6.500

3281 = SUMP PUMP
(LITE CIRCUIT TO PIER
EXITED @ 13.50)
E231,266



4

TYPICAL TOWER BASE CROSS SECTION

Shear Plate Thickness	
Plate	Thickness
a1	60 mm
a2	60 mm
b1	60 mm
b2	60 mm
c	80 mm

Elev 9.000 m

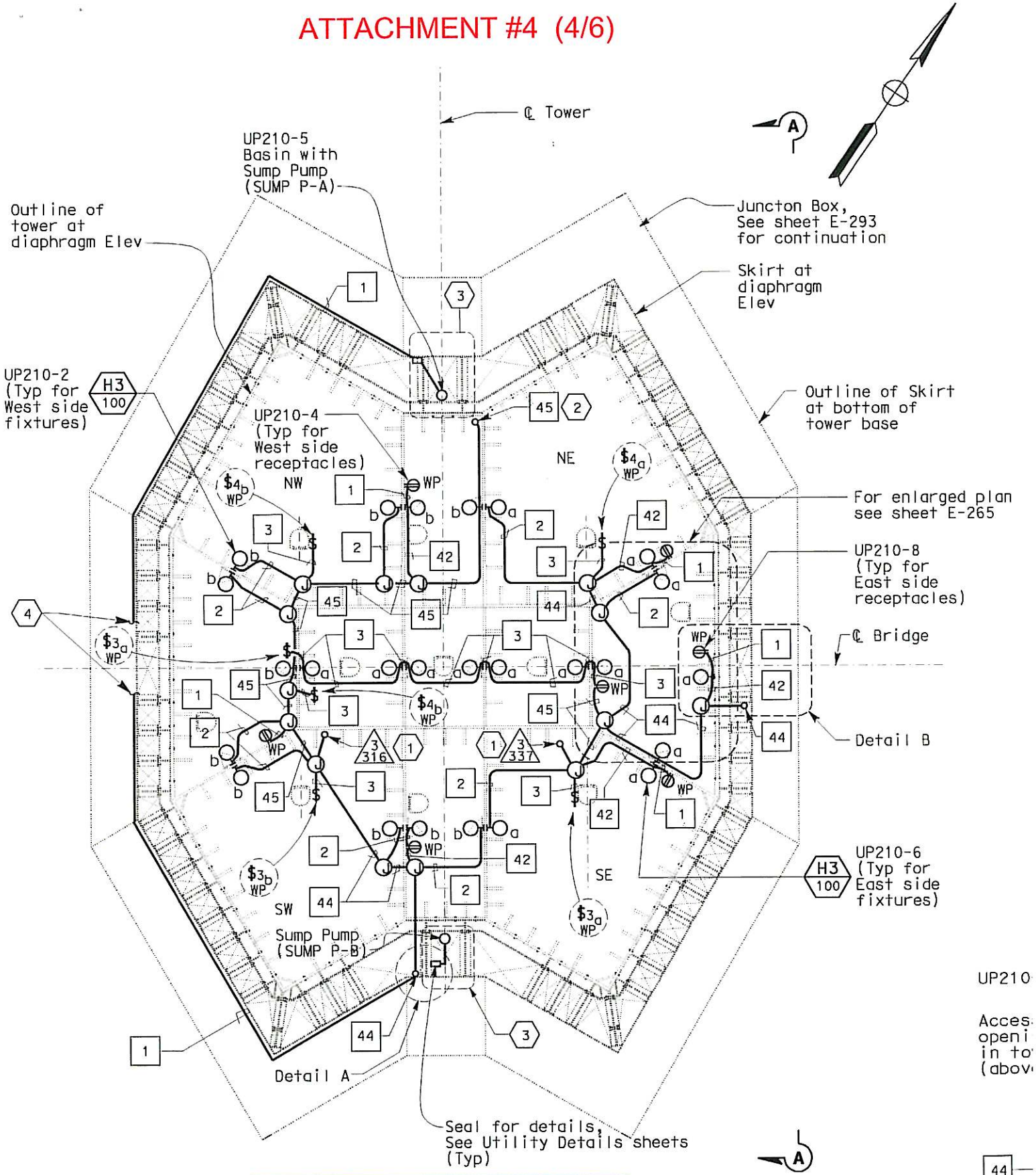
Diaphragm
at 13 m
Elev varies
13.000 to
12.883 m

NOTES:

1. For Details D, E
2. Longitudinal sti
3. For tower diaphr
Details No.11" s
4. For diaphragm to
Details No.13" s
5. For tower anchor
6. For access openi
7. For elevation of
8. Access openings

INFORMATION ONLY

ATTACHMENT #4 (4/6)



UP210

Acces
openi
in to
(abov

44

DN to
EL.9.

INFORMATION ONLY

PLAN AT ELEV 9.0 m

SCALE 1:100

ATTACHMENT #4 (5/6)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	13.2/13.9	273	1204

REGISTERED ELECTRICAL ENGINEER — DATE 12/19/02

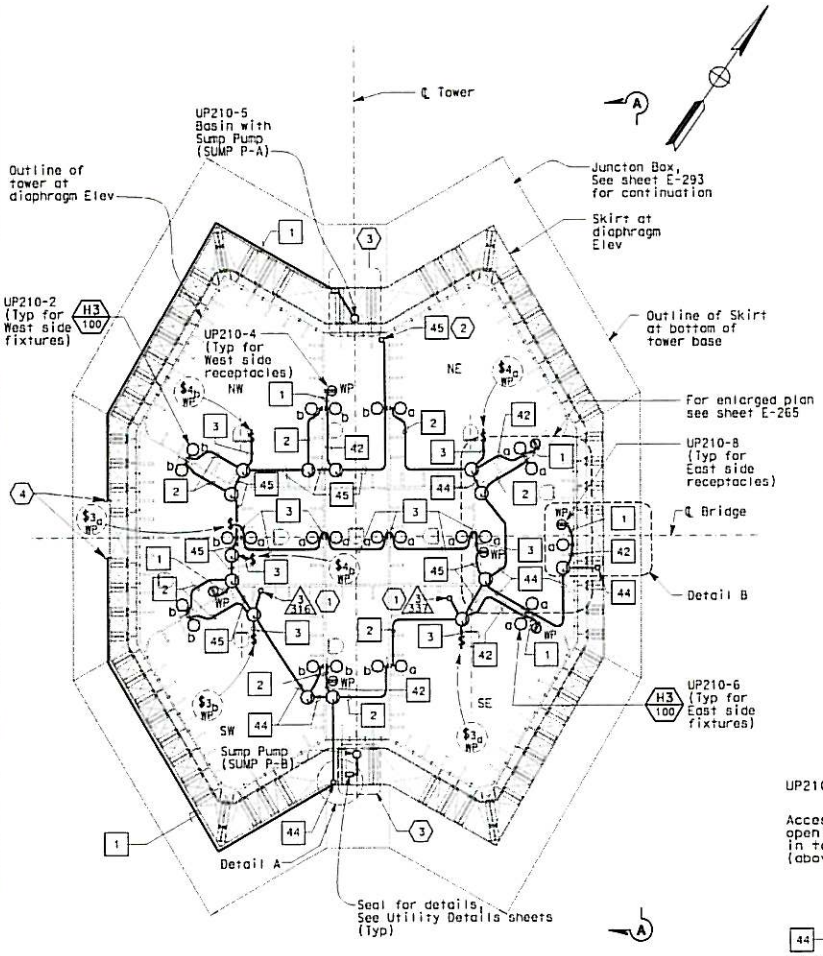
12-6-04
PLANS APPROVAL DATE

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

JENS ERLINGSSON No. 8243 Exp. 9/30/05 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

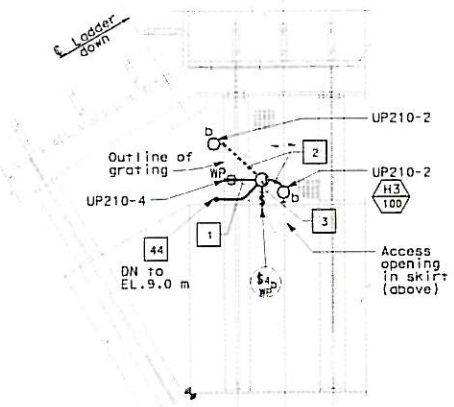
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to http://www.dot.ca.gov



PLAN AT ELEV 9.0 m

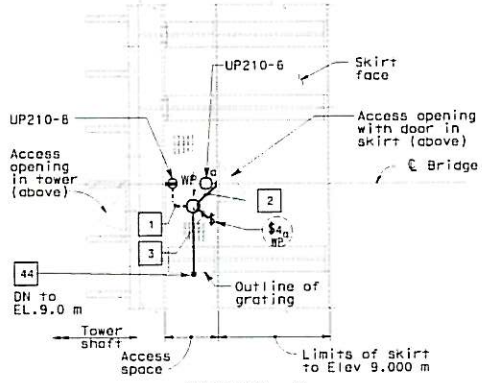
SCALE 1:100



DETAIL A

SCALE 1:25

INFORMATION ONLY



DETAIL B

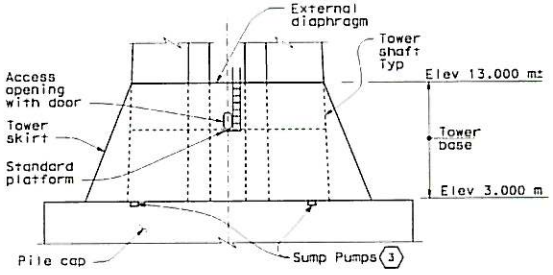
1:25

SHEET NOTES:

1. For continuation, see sheet E-264.
2. For continuation, see sheet E-265.
3. For Sump Pump Basin installation, see Detail G on sheet E-267.
4. Continue conduit to junction box on E-231.

NOTES:

1. References:
   - For vertical conduit runs support system, see sheet E-287.
   - For utility panel UP-210 schedule, see sheet E-278.
   - For types of pull boxes, splice boxes and enclosures, see sheets E-83 and E-169.
   - For conduit and cable tray schedule, see sheets starting at E-401.
   - For lighting installation details, see sheet E-267.
   - For lighting fixture schedule, see sheet E-273.
   - For typical conduit installation details, see sheet E-268.
2. All conduits and fittings routed exposed at grating shall be rigid galvanized steel, PVC coated.
3. Electrical conduits shall enter the tower shafts between stiffeners A3 and A4 only. For conduit entry details, see Structral Utility drawings.
4. Fixture mounting height elevation shall be 2.4 m above floor/platform elevation UNO.
5. For other related work not shown on this sheet, see Electrical Special Provisions.



SECTION A-A

1:200

DETAILS
TOWER AND SUSPENSION CABLE
TOWER POWER AND LIGHTING

SCALE AS NOTED

E-266

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

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

DGN FILE = 0401201x0266.dgn
USERNAME = kirlendrd

CU 04251 | EA 0120F1

DATE PLOTTED = 10-04-2004
TIME PLOTTED = 05:55

REVISION DATE 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI

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

ATTACHMENT #4 (6/6)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	13.2/13.9	334	1204

REGISTERED ELECTRICAL ENGINEER 12/19/02 DATE

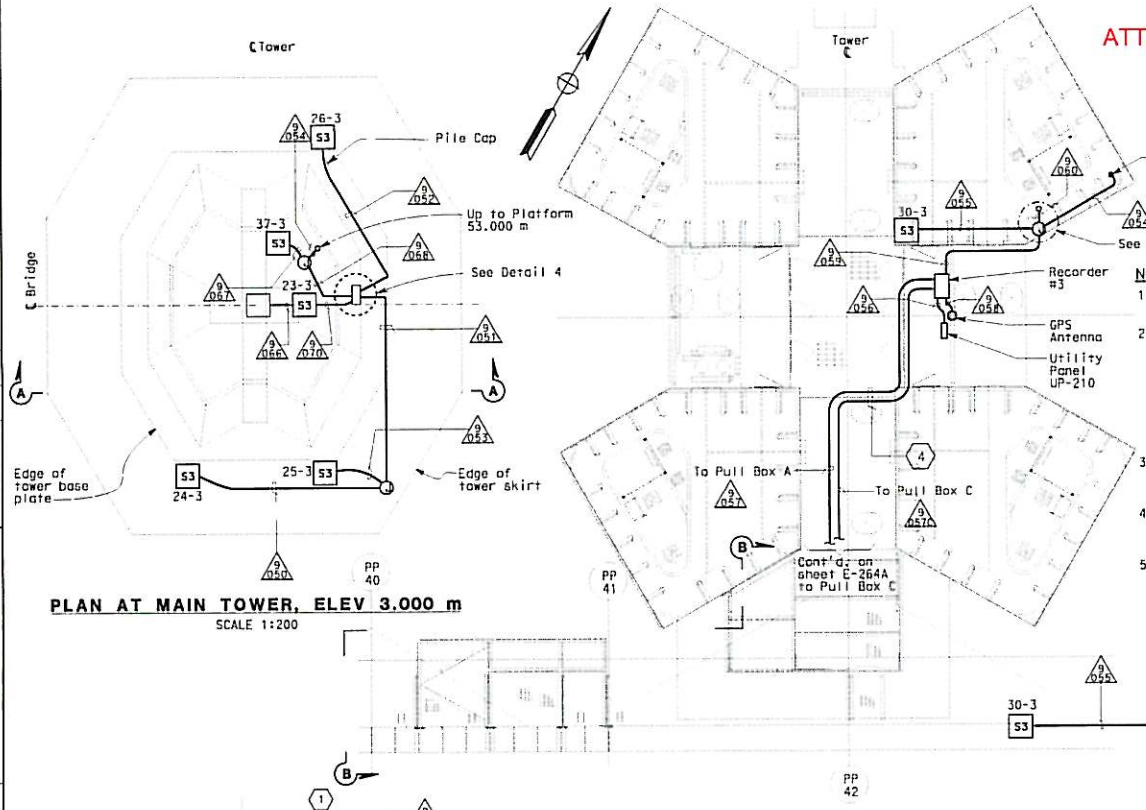
12-6-04
PLANS APPROVAL DATE

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

JENS ERLINGSSON No. 8219 Exp. 3/30/05 ELECTRICAL REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to http://www.dot.ca.gov



PLAN AT MAIN TOWER, ELEV 3.000 m
SCALE 1:200

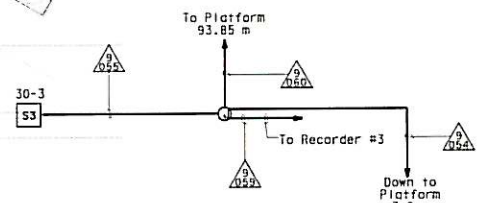
PLAN AT MAIN TOWER, ELEV 53.85 m
SCALE 1:50

NOTES:

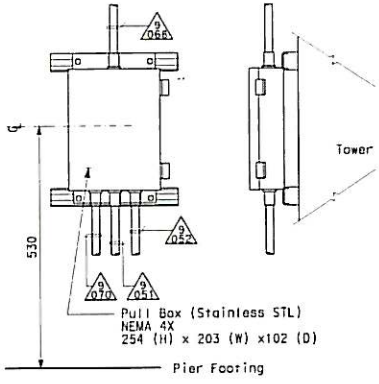
1. For other related work not shown on this drawing, see Electrical Special Provisions.
2. References:
   - For sensors and recorder schedules, see sheets E-379, E-380 and E-381.
   - For cable block diagram, see sheets E-382, E-383 and E-384.
   - For general notes on the strong motion detection system, see sheet E-361.
   - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
3. All conduits and fittings located outside or inside pier shall be rigid galvanized steel, PVC coated.
4. Secure enclosure to concrete wall with manufacturer's recommended mounting and as approved by the Engineer.
5. For Section B-B, see sheet E-264A.

SHEET NOTES:

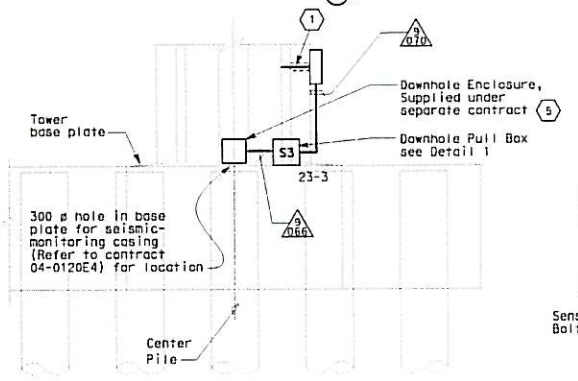
1. Pipe sleeves shall be provided with watertight seals after conduits are installed. Spare sleeves shall be capped and plugged.
2. Downhole sensor cables will be furnished and installed by CDMG.
3. For nameplate engraving, see nameplate Schedule on sheet E-379.
4. All conduits which thereafter cross the access walkways shall be raised to a level of at least 2438 above the grating to pass overhead, allowing free walkways on the remaining three quadrants of the platform. Door on north face of SE tower shaft shall remain accessible..
5. Remove Downhole Enclosure and re-install on top of the base plate.



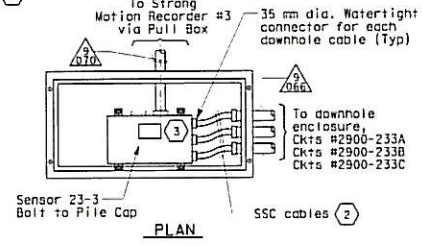
DETAIL 3
NO SCALE



DETAIL 4
NO SCALE



SECTION A-A
SCALE 1:100



DETAIL 1
DOWNHOLE PULL BOX
(SCALE 1:10)

INFORMATION ONLY

STRONG MOTION DETECTION SYSTEM
SAS SUPERSTRUCTURE
TOWER PLATFORM CONDUIT AND SENSOR LOCATION
SCALE AS NOTED

E-366

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

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

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY	DATE	REVISED BY	DATE REVISED
EDC	10/01	AB	2/04
EG	8/01		
CHECKED BY			

DATE PLOTTED = 10-01-2004
TIME PLOTTED = 07:12
00-00-00