



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**ENGINEER'S DAILY REPORT**  
LAN Engineering Consultant

REPORT NO.	222 (7-day)	DATE	July 23, 2007 <i>[Signature]</i>	<i>[Signature]</i> T W T F S S (DAY)
NORMAL WORK HOUR:	START: 7:00AM STOP: 3:30PM	WEATHER:	OVERCAST/SUNNY	
LOCATION :	Construction Field Office : Working Drawing Campus Office :	333 Burma Road, Oakland 94607 375 Burma Road, Oakland 94607		

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

**Caltrans Supervisor:**  
**Gary Lai**  
**Senior Bridge Engineer**

**Office Meeting (MEP Submittal Meeting):**

- ❖ Meeting scheduled for 8:30 AM to discuss the status of the project submittals for the SAS Structure:
  - The submittal for Liquid Tight Flexible Non-Metallic Conduit (Submittal ABF-SUB-000196R00) was returned on July 18, 2007. The submittal was not stamped because it is no longer required in the contract. The conduit was changed to Liquid Tight Metallic Conduit in the contract per the response in RFI 270.
  - The submittal for the fog detection system (Submittal ABF-SUB-000198R00) was returned on July 17, 2007. The submittal was approved as noted. The additional requirement for additional fog signal and bell is being requested to be installed. This is being worked on by PB to perform the design change for the system.
  - The submittal for the Pull box TOS/COM (Submittal ABF-SUB-000173R00) was returned on July 19, 2007. The submittal was approved as noted. The notation on the submittal was the red line crossed out of the accessories list in the catalog cut. There was no indication of the accessories in the product description in the cover letter and the part number does not indicate any accessories being ordered. There should be no reason to cross out something on the catalog data sheet if it is not marked or specified to be included in the material being submitted.

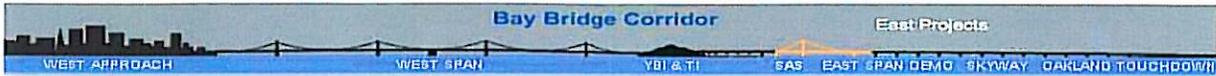
**Office Meeting (MEP Coordination Meeting) meeting scheduled for 9:00 AM:**

- Unable to attend the meeting this morning.

**Office Work:**

**(Issue on power feed to the TOC/Communication Cabinets on the new bridge structure):**

- After a site visit from the Tos/Communication contact in District Headquarters Caltrans, It was discovered that the branch breakers feeding the Tos/Comm. Cabinets from the panel boards are only 20 Ampere. The control cabinets have a main disconnect of 30 Ampere inside the cabinets. To properly feed the required power to the cabinets the branch circuit breaker should be at least equal to the same size as the one in the cabinet. All the power feed breakers feeding the TOS/Comm. Cabinets are 20 Ampere breakers. All the breakers



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feeding the control cabinets should be changed to 30 Ampere and the conductors up-sized to AWG #10 from AWG #12.

- o Received an email from PB (Ellery) indicating that he is in the process of requesting these changes. See attached email.

**CABLE MOUNTED ROADWAY LIGHTING:**

- ❖ Worked on the Cable Lighting Layout for checking the contractors submittal when submitted:
  - o Developing a spread sheet to determine X-Y-Z coordinates for the fixtures.
  - o Setting up the procedure to determine the pre-set angles required for installation of the fixtures.

*Any questions or comments you can reach me at (916) 919-7158. My E-Mail address is [Mike.Travis@LANEngineering.com](mailto:Mike.Travis@LANEngineering.com) or [Michael\\_Travis@dot.ca.gov](mailto:Michael_Travis@dot.ca.gov)*

**END OF REPORT**

**ATTACHMENTS:**

1. Email from PB covering the Branch Circuit Breakers feeding the Control Cabinets.

SIGNATURE

Name

Michael F. Travis

TITLE

Electrical Engineer – LAN Engineering

 The sender of this message has requested a read receipt. [Click here to send a receipt.](#)

From: Lucas, Ellery [Lucas@pbworld.com] Sent: Mon 7/23/2007 7:42 AM  
To: Bill Howe; Bill Shedd; Sean Coughlin  
Cc: Sugiya, Eric; parviz\_boozarpour@dot.ca.gov; Sharad Patel; Martin Chandrawinata; Mike Travis; Takaki, Maxwell; Jaime Gutierrez; Erlingsson, Jens; Nadell, Brady  
Subject: RE: SAS Submittal 174; Branch Circuit Breaker for TOS at IP-30 A, 120 V

Attachments:

Sean,  
I checked all the current SFOBB contracts regarding the needs for 120 V power supply for IOS controller cabinet. It appears there was a change of breaker trip from 20A to 30A, single pole. I believe it happen after the award of SAS contract.

Skyway contact, Bill Howe. We need the utility panel branch circuit breaker to change breaker size to 30A, 1P from 20A, 1P. Change cable size to #10 from #12 for all the incoming 120 v supply to TOS controller cabinets.

**Bill H, Let me know what action you want from PB.**

SAS contract, Bill Shedd. We need to change the same as Skyway contract.

**Bill S, We will go ahead and change the design drawings and revise the material submittal from ABF accordingly. It would simplify things if we can include this as part of revision to RFI-451. I also have a couple of items to include as part of this.**

OTD-1, Jaime Gutierrez. No change. Breaker size is 30A and cable is #10.

YBI-1, Design is for 30A, 1P.

The other contracts, OTD-2 and YBI-1 shall be provided with 30A, 1P and #10 cable sizes.

Hope this clears all issue about the power supply to IOS controller cabinets for the SFOBB Eastern Span Seismic Project.

Regards,  
Ellery Lucas  
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San Francisco, California 94107  
415-243-4726  
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