STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ENGINEER'S DAILY REPORT

LAN Engineering Consultant

REPORT NO.	DATE	
257 {7-day}	August 27, 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
Senior Bridge Engineer

Office Work:

- **Submittal Status Meeting (Caltrans – T.L.LIN – PB)**
  - Covered all submittals being returned this week, on-going submittals and new submittals.
  - Submittal # 257 & 258 due this week. Need to coordinate with Max (PB) on the response.
  - Need to review the transition of electrical equipment through hinge A.
  - Submittal 278 – Bike path fixture review required.

- **Design Coordination Meeting (Caltrans-T.Y.LIN-PB) (0930):**
  - The following items were discussed at the meeting:
    - A discussion on the barrier railing hand rail design by T.Y. Lin was covered. The following items were discussed:
      - Expansion joints in the railing.
      - Angle piece under the hand railing.
      - Bolt attachments (drill and bond – bolted connection).
      - Calking under the angle piece for sealing the area where water cannot accumulate.
    - Homeland Security and installation of penetrations in the bridge structure. The issue to not go back through the shop drawings to make changes at this time. If shop drawings have not been submitted yet then changes can be made but an official RCC needs to be processed to justify the additional relines on the shop drawings.
    - 3-D model will be expedited to save approximately 2-3 months on the proposed schedule. The end of October is the proposed new date for the OBG/Tower Model. The OBG reference points have been established so clash detection can be used by the end of October. The tower at elevation 53 will have reference points established soon. The remaining elevations reference points will be established shortly after.

- At the end of the meeting the issue about the traveler components as to have them galvanized or painted was brought up. I indicated that I can check on this issue with the Mechanical Engineer in Sacramento that designs the mechanical portions of the travelers on the bridges in the state.
- Emailed and called Jack Wheeler (Senior Mechanical Engineer – HQ) and asked about the traveler rails and the requirements for galvanizing of them vs. painting. He indicated that they should not be painted. Paint acts as a lubricant for the traveler rollers. See attachment #2.
- Email Reply from Jack Wheeler on the traveler rail painting issue. See attachment #3.

❖ **Caltrans Staff Meeting (1300):**

- 4D presentation on construction sequencing.
- The following items were discussed at the meeting:
  - Temporary tower fabrication hand out showing fabricators. See attachment # 1.
  - Start of Fabrication in China next month.
  - Temporary tower foundation starts on island next month.
  - Penetrations on shop drawings in upcoming shop drawings but not in previous drawings. Set aside for possible installation in china if possible.
  - Mike Stone 4D presentation next staff meeting possibly.

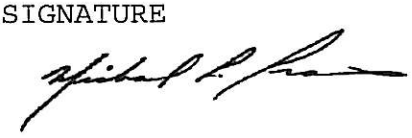
Any questions or comments you can reach me at (916) 919-7158. My E-Mail address is Mike.Travis@LANEngineering.com or Michael_Travis@dot.ca.gov

END OF REPORT

ATTACHMENTS:

1. **Temporary Tower Fabrication Hand Out.**
2. **Email on traveler rail galvanizing issue vs. painting.**
3. **Email Reply from Jack Wheeler (Senior Mechanical Engineer- HQ).**

SIGNATURE



Name	TITLE
Michael F. Travis	Electrical Engineer – LAN Engineering

Attachment #1 (1 of 1)

Temporary Towers Fabricators

1. Temp. Tower A-C & Trusses A- C (land based)	– American Bridge Manufacturing, Reedsport, Oregon
2. Temp. Tower Piles	– Twin Brothers Marine, Lafayette, Louisiana
3. Temp. Tower D Driving Frame (at T1)	– Jesse Engineering, Tacoma, Washington
4. Temp. Tower F & G Driving Frames	– XKT Engineering, Vallejo. California
5. Temp. Tower D, F & G & Trusses C-G (marine based)	– ZPMC, Shanghai, China (tentative)

Attachment #2 (1 of 1)

Jack Wheeler/HQ/Caltrans/CAGov
08/27/2007 11:56 AM

To Michael Travis/HQ/Caltrans/CAGov@DOT
cc Tom Hatam/HQ/Caltrans/CAGov@DOT
bcc
Subject Re: Traveler Rail Question

History: This message has been forwarded.

As per our phone conversation we require that all rails for travelers be galvanized. In the past construction has overridden this and allowed the contractor to save money by painting them. In that case the traveller did not have sufficient traction to accelerate or brake. We are in the process of paying to have all the rails replaced at this bridge. I believe that the consultant at the Carquinez bridge also painted the rails and they had an accident there due to the inability of the traveller to brake. Our office strongly believes that painted rails represent a danger to our workforce and will not approve them.
Michael Travis/HQ/Caltrans/CAGov

Michael Travis/HQ/Caltrans/CAGov
08/27/2007 11:18 AM

To Jack Wheeler/HQ/Caltrans/CAGov@DOT
cc
Subject Traveler Rail Question

Jack,

I was in a meeting this morning when a question was brought up dealing with the rails for the Traveler.

They are considering to not-galvanize the rail and paint it white to match the bridge.

I don't remember painting any of the rails. As a matter of fact I believe one was painted but had to be striped because of problems.

Can you let me know if this should be done or should it only be galvanized.

Attached is a copy of the plan sheet covering the Traveler Rail : 1121 Referance Sheet.pdf

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

Attachment #3 (1 of 1)

Michael Travis/HQ/Caltrans/CAGov
08/27/2007 11:54 AM

To Bill Shedd/D04/Caltrans/CAGov@DOT
cc Gary J Lai/D04/Caltrans/CAGov@DOT
bcc
Subject Traveler Rail Galvanizing Question

Bill,

I call Jack Wheeler (Caltrans Senior Mechanical Engineer- Sacramento) to ask about the issue dealing with the Traveler Rail.
Jack is the engineer that designs the Mechanical portion of the traveler systems installed on our bridges in the State.
He pointed out that it is not recommended to paint the rails for the traveler.
Paint acts as a lubricant and if there is any grade to the rail there will be slippage.
Also if the rails are painted the paint would likely come off at the friction points exposing the bare metal.

Jack Wheeler
Senior Mechanical Engineer
Office Phone : (916) 227-8352
Cell Phone : (916) 752-9825 (Telecommute Day - Monday)
Email Address: Jack_Wheeler@dot.ca.gov

Any question or Comments please let me know.

Michael Travis
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Phone: 510-808-4618