



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**ENGINEER'S DAILY REPORT**

LAN Engineering Consultant

REPORT NO.	237	DATE	August 07, 2007	M <i>J</i> W T F S S (DAY)	
NORMAL WORK HOUR:	{7-day}	WEATHER:	START: 7:00AM	STOP: 3:30PM	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 *GL*  
 Senior Bridge Engineer

**Office Work:**

- ❖ **Pre-Design MEP Coordination Meeting (Caltrans - PB) (0900):**
  - ❖ Covered the agenda items for the preparation for the team MEP meeting for 10:00 AM.
  - ❖ Brought up the submittals that need to be addressed and changed. The Navigation Warning System and the Fog Detection System.
- ❖ **Design MEP Coordination Meeting (Caltrans-TY-LIN-PB-Contractors) (1000):**
  - The following are the key issues brought up during the meet:
    - Coordination of MEP related structural details for incorporation into shop drawings.
    - Concern was made about the RFI information and how it is getting incorporated or not incorporated in the shop drawings.
    - A suggestion was made to go through all the RFI's and resolve any conflicts that had developed between the RFI's.
    - See attachment #1.
- ❖ **Submittal NO. ABF-SUB-000171 Rev: 0**  
**Subject: Navigation Warning System – Returned Submittal.**
  - Completed my research of the information to correct the submittal package and address the contractor's concerns on the returned submittal package.
  - Sent an email to Eric Sugiyama (PB) with my final comments on the submittals and my recommendations on how to correct the submittal document.  
 (See attachment #2).
- ❖ **Navigation Warning System Changes by Coast Guard.**
  - Received phone call from Steve about the request for placement of the Fog Horns and Bells on the new bridge structure. Steve indicated the Coast Guard uses the Mean High Water elevation as the reference elevation. The Plans only give MHHW at 1.0 M Steve indicated



that 0.6 m would probably be the MHW elevation. This would give my calculations an added amount of safety. Steve also indicated that he will draft the letter and change the 5.03m to 5.0 m  $\pm$  1.0 m.

- ❖ **Submittal NO. ABF-SUB-000235 Rev: 0**  
**Subject: Elevator Layouts, Electrical Schematics, and Hoist Calculations.**
  - Continued my review of this submittal.
  
- ❖ **Working on the Electrical RFI's by going through them and making copies and referencing them to the contract plans.**

*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. **TEAM MEP Meeting Agenda** handout.
2. **Email sent to Eric Sugiyama (PB)** covering submittal 171 Navigation Warning System.

SIGNATURE

A handwritten signature in black ink, appearing to read 'Michael F. Travis'.

---

Name

Michael F. Travis

TITLE

Electrical Engineer – LAN Engineering

---



**TEAM MEP MEETING**  
**Agenda for August 7, 2007, 10:00 AM**  
**WDC Conference Room**

**1. RFI STATUS REVIEW AND EVALUATIONS**

1.1. Requests for which ABF is awaiting response

- 1.1.1. RFI # 793R0 (7/16/07) – Cable Tray Supports at West end OBG *- Not Ready yet.*
- 1.1.2. RFI # 707R2 (7/17/07) – Utility Panels and Pullboxes at Tower Platform Elev. 53.85 *Tomorrow*
- 1.1.3. RFI # 814R0 (7/23/07) – Cable Tray Supports Inside OBG in vicinity of PP117 to PP119 (to be tracked by team OBG) *Not Ready waiting PB*
- 1.1.4. RFI # 834R0 (7/30/07) – Additional Pipe Sleeves in OBG Side Plates near Crossbeams with Service Platform (to be tracked by team OBG) *Ready (RUC) Tomorrow*
- 1.1.5. RFI # 839 (7/31/07) – Pole Pedestal Pipe Sleeve Arrangement (to be tracked by team OBG) *STRUCTURAL -*
- 1.1.6. RFI # 794R1 (8/1/07) – Cable Tray Supports Type I, Type II, Type III (to be tracked by team OBG) *Ready - waiting for PB*
  - 1.1.6.1. Please note that there is a typo in the description of Change 1...."to gain clearance for trays on Type I supports." It should be written as Type II (not Type I) support.
  - 1.1.6.2. Also, note that by flipping the upstanding angles we now have a conflict with the longitudinal catwalk grating. RFI to come.

1.2. RFI/CCO EVALUATIONS LEGEND

- (1 = NC = NO CHANGE)
- (2 = CCO = CALTRANS TO INCLUDE IN CHANGE ORDER)
- (3 = ? = STATUS UNRESOLVED; DEFER TO CORE GROUP FOR EVALUATION)
- (4 = OH = ON HOLD PENDING FURTHER REVIEW OR ADD'L INFO)

1.2.1. Recap of previous week evaluations

RFI / EVALUATIONS	ABFJV	CALTRANS	FINAL
ABF-RFI-000790R00	2	1	4
ABF-RFI-000794R00	2	2	2

1.2.2. Recent (or on hold) RFI responses to be evaluated for CCO needs

RFI / EVALUATIONS	ABFJV	CALTRANS	FINAL
ABF-RFI-000790R00	2	4	
ABF-RFI-000811R00	2	2	

1.3. RFI-811 Response

1.3.1. "tbd"? \*

1.3.2. Changes to transverse supports and coordination with other details?

1.3.2.1. new horizontal supports

1.3.2.2. height of Type V and VI supports modified; two different modifications for Type VI

1.3.2.3. centerline of trays; centerline of supports

1.3.2.4. reducer/enlarger fittings in relation to supports

2. SUBMITTALS

2.1. Closure to mechanical Submittal No. 10

2.1.1. Resubmittal to memorialize which cut sheets morphed into other submittal numbers and to cover those which were not addressed.

*Re Submi*

*ABF - Breakdown  
To Resolve*

*171*

*173*

*- cover*

*Re Stamp*

3. TOWER MEP COORDINATION

3.1. Notice for pipe supports fabrication, based on most current submittal, coming soon.

3.2. Focus on platform at elevation 53.85

3.2.1. Equipment placements and attachment means.

3.2.2. Conduit routes and support

3.2.3. Booster pump piping and support

*Bob*

4. FESTERING ISSUES

4.1. Use of "Thrust-lock" fittings for field cut ductile iron pipe.

4.2. Coordination of MEP related structural details for incorporation into shop drawings.

*11221*  
*Need to Schedule*

*Bob*

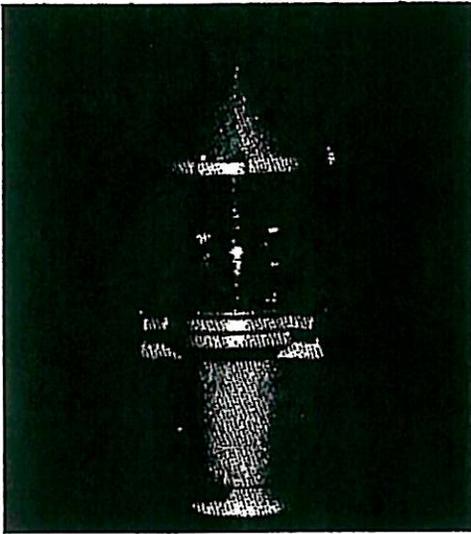


Need to change back to 6 (M.Travis)



# FA-143079 200 MM BRIDGE LANTERN

NV-1 green lens  
NV-3 red, lens



FA-143079 Bridge Lantern

access to control electronics, lamp replacement and servicing. Captive stainless steel bolts attached the lens to the base unit. The large base of the lantern is used to house flash control electronics, including remote monitoring radios or Uniflash<sup>®</sup>-II GPS synchronizing system.

The FA-143 lantern is made of corrosion-resistant aluminum and is finished with a clear alodine and a polyurethane paint system. Two neoprene gaskets provide a watertight seal (IP-55 rated). The FA-143079 features four 5/8" studs of a 4 3/4" bolt circle. The Electrical access is via 3/4" NPT threaded entries in the side or bottom of the base of the lantern.

The lantern is typically suspended from a bridge using the FA-230 Swivel Suspension. Pier mounts use the FA-220 Pedestal.

The FA-143079 Bridge Lantern is a rugged, dependable, heavy-duty, marine lantern of cast aluminum construction. It has been proven to withstand the most severe environmental conditions where plastic lanterns fail. It is a very low maintenance unit with a typical service life exceeding 20 years. It can accommodate both standard lampchangers and LED modules.

The FA-143079 is available in a single 200 mm molded, heavy duty, glass fresnel lens in clear, red, green or amber.

### Options for Caltrans 04-012024:

- 120VAC/10-10.5VDC power supply (internal)
- Shock Mount/Vibration Isolator
- Four-Place 1297A Lampchanger (replaces operating lamp in focal plane when lamp fails)
- 12V, 3.05 amp, S-11 Lamps (25,000 hours total operating life)
- No birdspeike for lanterns mounted upside down

- Green lens to emit through 360 degrees
- Red lens to emit through 180 degrees

360 (SEE SHEET 295)

Need to remove (M. Travis)

**Submittal No.**

The top casting incorporates a birdspeike. The lens is held in position by stainless steel astragale mounted at a 27-degree angle to minimize any shadows in the optical plane.

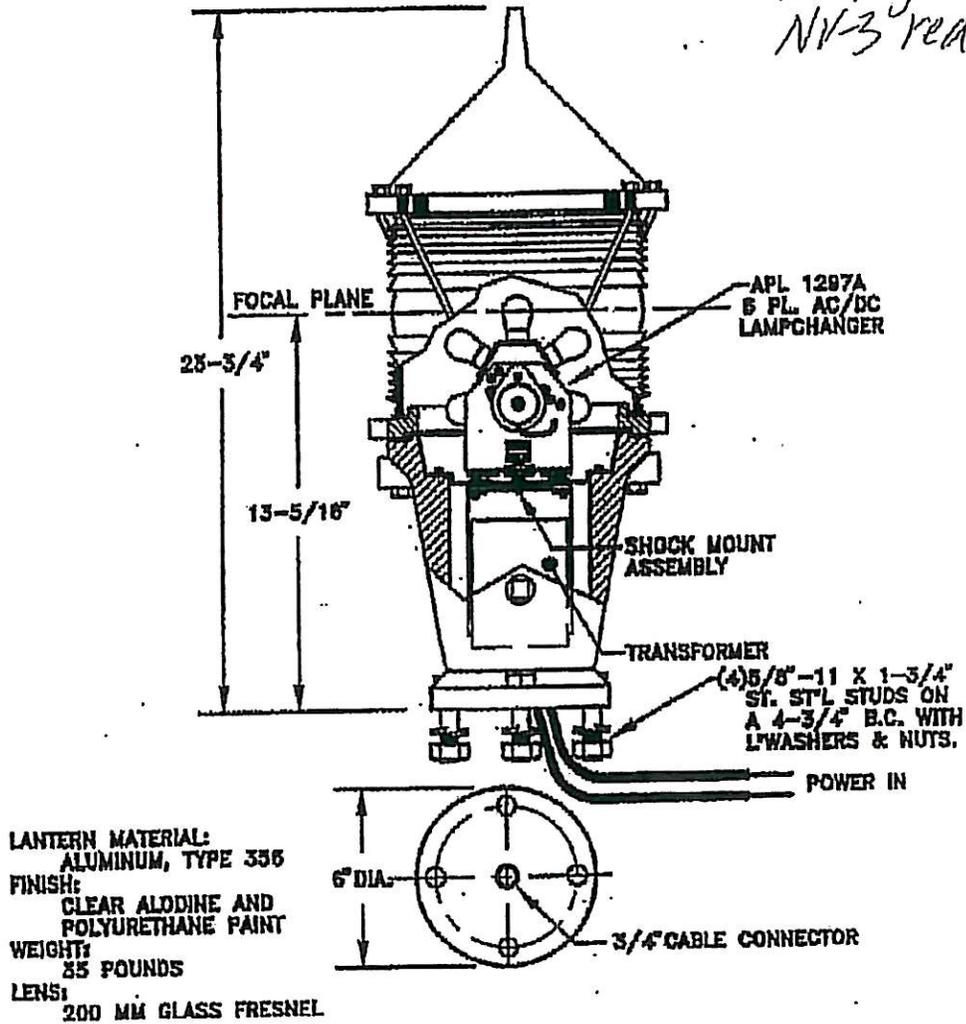
The lantern is hinged at the middle to facilitate

CONFORMS TO DESIGN CONCEPT	
CONFORMS TO DESIGN CONCEPT WITH REVISIONS AS NOTED	X
NON-CONFORMING - REVISE AND RESUBMIT	

General Offices: P.O. Box 230798 • Houston, TX 77223 • Tel: 713-228-5208 • Fax: 713-228-3717  
www.automaticpower.com

DATE: 6/28/17 Signature: [Signature]

NV-1 green  
NV-3 red



**Note:** Four-place lampchanger will be provided for this contract to permit use of larger S-11 envelope lamps called for in specifications.

Submittal No: 171/10.1

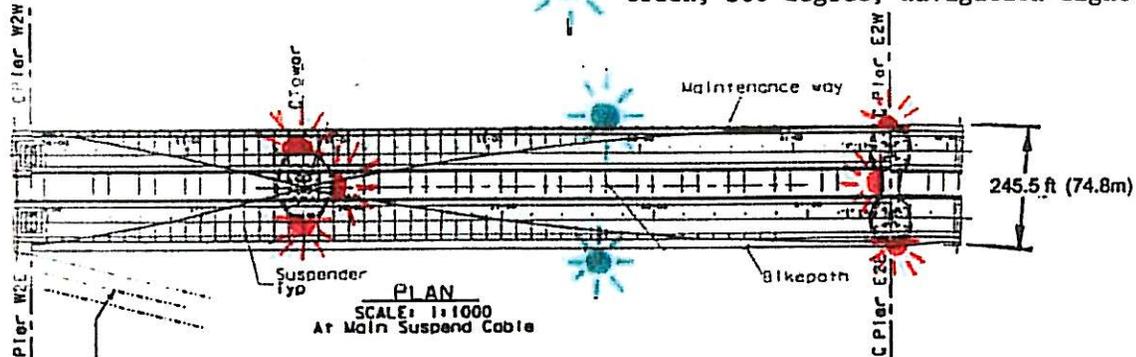
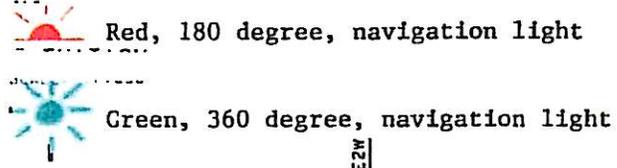
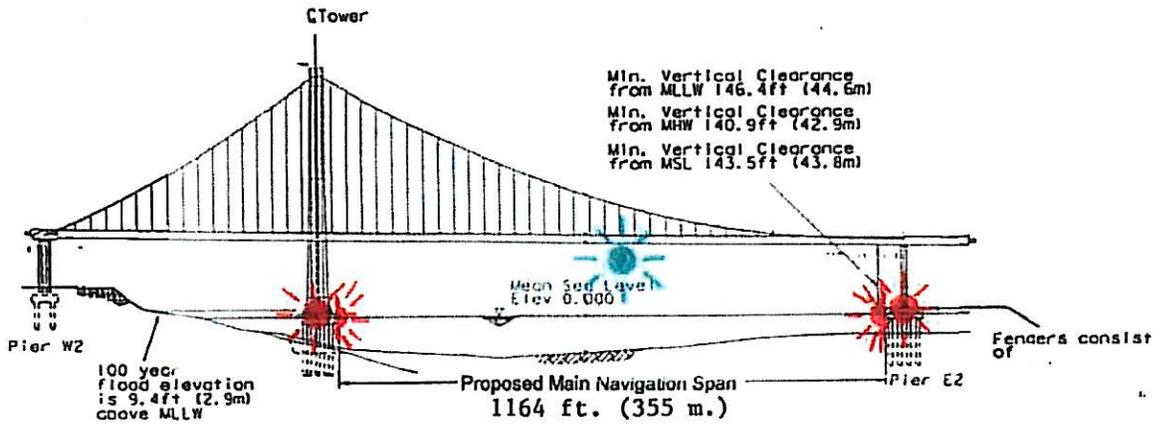
SUBMITTAL REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS.

CONFORMS TO DESIGN CONCEPT	
CONFORMS TO DESIGN CONCEPT WITH REVISIONS AS NOTED	X
NON-CONFORMING - REVISION REQUIRED	

General Offices: P.O. Box 230738 • Houston, TX 77223 • Tel: 713-228-5208 • Fax: 713-228-3717  
www.automaticpower.com

Date: 6/28/07 Signature: EVL

# NAVIGATION OPENING



Existing San Francisco Oakland Bay Bridge To Be Removed

Navigation Lights and/or Other Signals, approved as shown, pursuant to 33 CFR 118.

Date: 12/19/01

Signature: *David H. Sulouff*

**DAVID H. SULOUFF**  
 Chief, Bridge Section  
 11th Coast Guard District  
 By direction of District Commander

Note: Datum is NGVD 29 + 0.00ft (0.00m)



Proposed San Francisco - Oakland Bay Bridge East Span Replacement
San Francisco Bay, Mile Point 8.9 (14.3 km)
Location - San Francisco, San Francisco County, CA Oakland, Alameda County, CA
Jan 2001

ENCLOSURE(3)

## Attachment #2 (5/5)

 You forwarded this message on 8/6/2007 3:04 PM.

**Mike Travis**

**From:** DolanTP@aol.com [DolanTP@aol.com]

**Sent:** Mon 8/6/2007 2:39 PM

**To:** Mike Travis

**Cc:**

**Subject:** Re: FA-413 Bridge Navigation Lantern

**Attachments:**

I can provide a certification letter if necessary. This light is a standard bridge light installed on several major and minor bridges nationwide. The lights are also standard USCG issue for use on buoys and shore aids. We've been providing it for several (50+) years.  
Pete



Pete Dolan  
Automatic Power, Inc./Pharos Marine  
Tel: 415-382-6296  
Fax: 415-382-6299  
Skype: tpdolan  
250 Bel Marin Keys Blvd., B-3  
Novato, CA 94949 USA  
[www.automaticpower.com](http://www.automaticpower.com)

---

Get a sneak peek of the all-new [AOL.com](http://AOL.com).