

RESPONSE 2 COMMENTS RECEIVED FROM INDUSTRY REVIEW

Jennifer Taylor

File: 5100000 - Navigation Lights for Fixed Bridges
Username: Jennifer Taylor
UserEmail: jennifer.taylor@dot.state.fl.us
UserTel: SC 373-3471
Date: Tuesday, October 18, 2005
Time: 01:44:10 PM

Comments:

Should there be a warranty similar to traffic signals.

Response: This is more of a General Provisions requirement.

Will Watts

District Two Bridge Maintenance offers the following comments:

General Comments:

1. This specifications is for fixed bridges. What will govern lift, single and double draw, and swing bridges?

Response: TSP 508 covers all electrical items on movable bridges.

2. Does not address aviation lighting.

Response: FAA hazard lights are not considered to be Navigation Lights.

3. Needs to address light contactor and photo cell at the power source/utility pole, specifically a four pole system for maintenance redundancy.

Response: This is project specific and was intentionally left out of the Specifications and Index Drawings.

Specific Comments:

510-1 "A guide to Bridge Lighting", check for proper title of document, is it 'Bridge lighting and other signals'?

Response: "Bridge Lighting and Other Signals" is the title of CFR Title 33, Part 118. "A Guide to Bridge Lighting" is a separate publication by the Coast Guard that illustrates what CFR 118 says. They are two separate publications.

510-2 "Use experienced personnel", further define as licensed electrician.

Response: Agree with the comment. The following wording has been added: "Perform all electrical work either by, or under the immediate supervision of an electrical journeyman."

510-3 Due to the varying products that get installed in these systems, maintenance would like the contractor to provide a list of all the component manufactures and ensure the state can purchase products from them, i.e. e-procurement registered.

Response: This is more of a General Provisions requirement, this would apply to all equipment installed, not just Navigation Lights.

510-4.1 First paragraph - "absorbing" to "absorbing and recovering from multiple strikes."

Response: A suppressor has to "recover" from a strike if it is rated for multiple strikes, this is a basic requirement of surge suppressors.

Third Paragraph - Pier/Fender lights do not need to swivel, just the Center and Channel and Channel Margin lights. Further specify chain shall be 1/4". This will be big enough to safely retrieve the fixture, gripping, and small enough not to lean the fixture. Where bronze fixtures are utilized at lengths of greater than 5' from the swivel. a 60% counterweight shall be installed.

Response:

- a. Only Center Channel Lights and Channel Margin Lights are specified to be swivel.
- b. Old specification called for 1/4" chain, but we feel that specifying a capacity is more appropriate than specifying a size.
- c. It is a good idea to add the counterweight requirement, it has been added.

510-4.2 We replace the light fixture described, 50 watt, HPS, with a standard 75 watt flood light fixture. Due to vandalism occurrence and the price/availability of the fixtures.

Response: This is a District preference and is allowed provided the fixture meets the requirements of the Coast Guard (as far as illumination level) since an incandescent fixture provides less lumens than a HPS fixture.

510-6 No plastic or power activated anchors shall be used.

Response: Third paragraph specifically requires the use of ASTM 300 series stainless steel straps. First sentence of fourth paragraph specifically prohibits the use of powder-actuated anchors.

510-7.5 5th Paragraph - "of three 90 degree bends" to "a total of 270 degrees of turns". This will make sure offsets and 45's are included in calculation.

Response: Complete sentence reads: "Do not install more than the equivalent of three 90 degree bends between boxes." An electrician would understand this to mean 270 degrees, nevertheless, we have added "total of 270 degrees".

6th Paragraph - "Allow joint to cure a minimal of 20 minutes." add "before pulling wire."

Response: Added wording.

510-8.1 Seeking clarification and/reason for last sentence of paragraph 3, audio and digital signals.

Response: Wording has been deleted.

If you have question are need clarification on the comments above, please advise.

Will Watts, P.E.
Bridge Management System Engineer
District Two - Structures and Facilities
Florida Department of Transportation
will.watts@dot.state.fl.us
(386)961-7012

Bill Richards

File: 5100000 - Navigation Lights for Fixed Bridges
Username: Bill Richards
UserEmail: william.richards@dot.state.fl.us
UserTel: (386) 943-5161 or SC 373-5161
Date: Monday, September 26, 2005
Time: 04:05:54 PM

Comments:

In the 5th paragraph, of 510-7.5, the third sentence you use a double negative. Suggest you delete the fourth word "no" to fix this situation.

Response: "No" has been deleted.

Paul Smith

COMMENTS: Duane- I question calling out the length of the bolts supporting the hanging lights from the bridge. Some of the bridge lights, Clearwater Memorial are 13'-

0 long and need more depth to get behind the first mat of rebar. I agree with the 1/2" minimum diameter.

Response: These are minimum requirements, special cases would be project specific and need to be addressed in the Contract Documents.

Another item that needs to be addressed is the securing of the chain to rotate the light up to work on the bulb. If it is locked at a height that a pedestrian can get a hold of it they will. We have not yet secured ours for this reason.

Response: This requirement is project specific

Paul Smith,
Parsons Brinckerhoff Construction Services.

Phone #: 813-207-2994