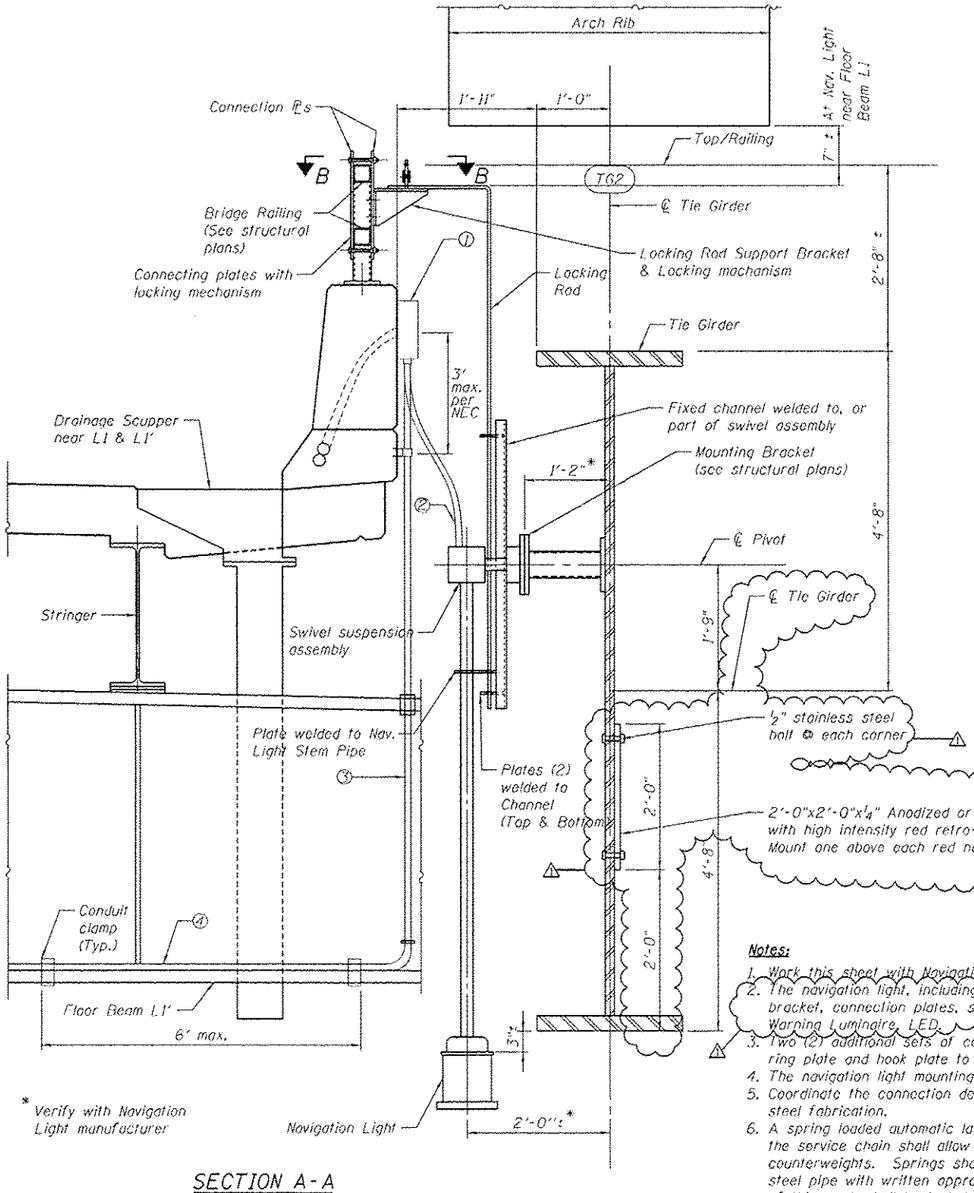
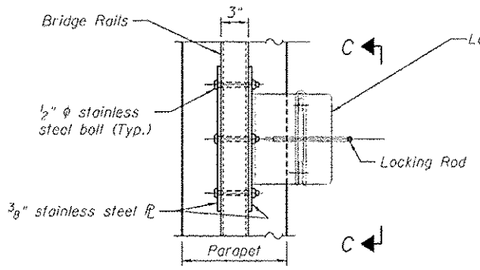
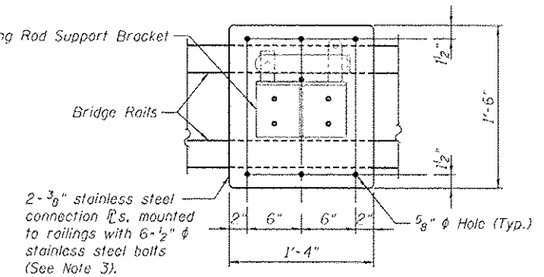


SECTION A-A

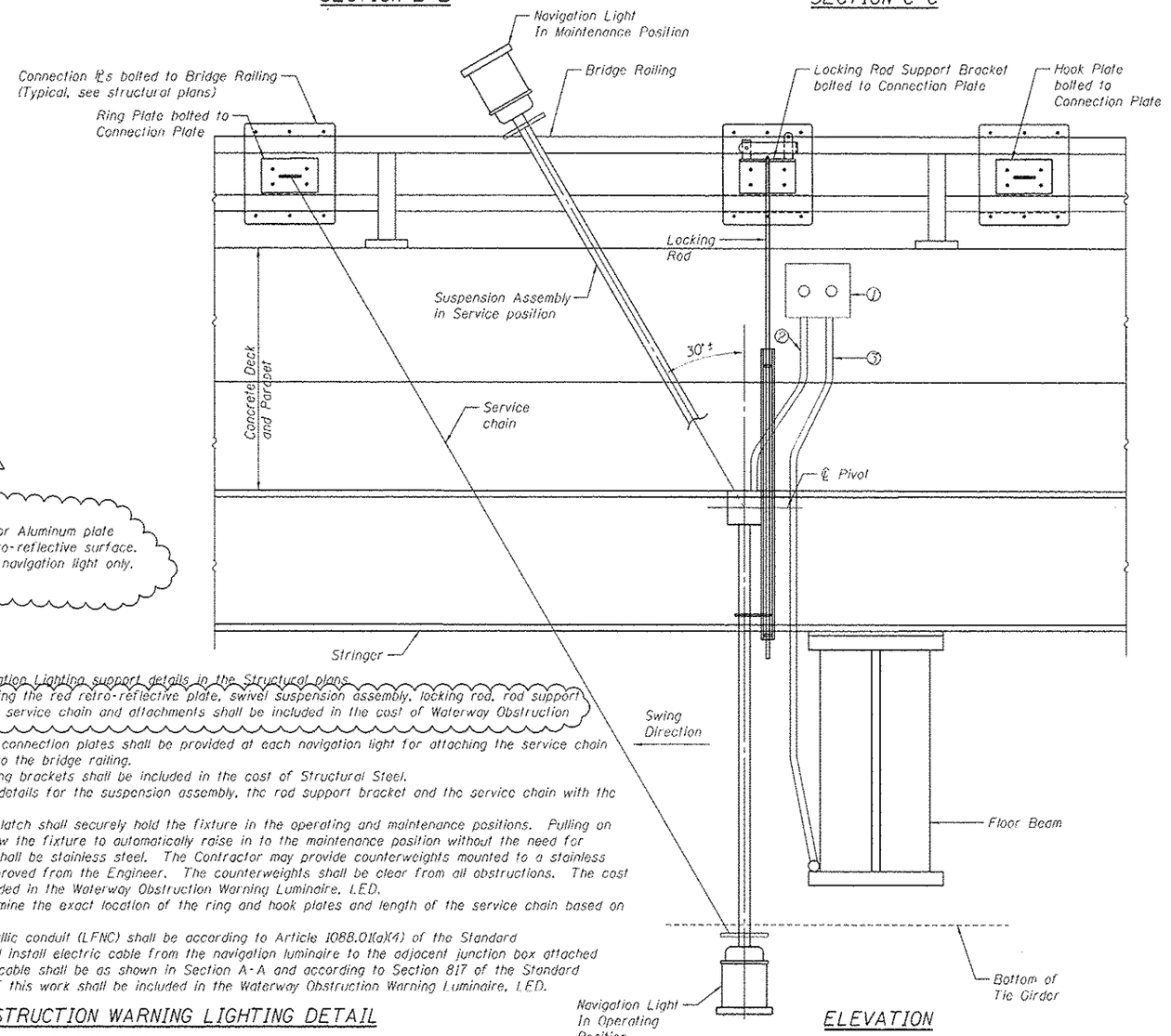
① Junction Box attached to parapet, sized per NEC but shall not be less than size indicated in lighting plan.
② Electric cable, 600V, (XLP-Type USE), 2-1/C No.10, 1/C No.10 Ground in 3/4" min. Dia liquidtight flexible nonmetallic conduit. See Note 6.
③ Electric cable, 600V, (XLP-Type USE) 2-1/C No.8, 1/C No.8 Ground in 1" Dia stainless steel conduit and hardware from junction box to floor beam. (At floor beam L1' only)
④ Electric cable, 600V, (XLP-Type USE), 2-1/C No.8, 1/C No.8 Ground in 1" Dia Rigid Galvanized Steel Conduit attached to floor beam. (At floor beam L1' only)



SECTION B-B



SECTION C-C



ELEVATION

Notes:

1. Work this sheet with Navigation Lighting support details in the Structural plans.
2. The navigation light, including the red retro-reflective plate, swivel suspension assembly, locking rod, rod support bracket, connection plates, service chain and attachments shall be included in the cost of Waterway Obstruction Warning Luminaire, LED.
3. Two (2) additional sets of connection plates shall be provided at each navigation light for attaching the service chain ring plate and hook plate to the bridge railing.
4. The navigation light mounting brackets shall be included in the cost of Structural Steel.
5. Coordinate the connection details for the suspension assembly, the rod support bracket and the service chain with the steel fabrication.
6. A spring loaded automatic latch shall securely hold the fixture in the operating and maintenance positions. Pulling on the service chain shall allow the fixture to automatically raise in to the maintenance position without the need for counterweights. Springs shall be stainless steel. The Contractor may provide counterweights mounted to a stainless steel pipe with written approved from the Engineer. The counterweights shall be clear from all obstructions. The cost of this work shall be included in the Waterway Obstruction Warning Luminaire, LED.
7. The Contractor shall determine the exact location of the ring and hook plates and length of the service chain based on field conditions.
8. Liquidtight flexible nonmetallic conduit (LFNC) shall be according to Article 1088.01(a)(4) of the Standard Specifications. Furnish and install electric cable from the navigation luminaire to the adjacent junction box attached to the parapet wall. The cable shall be as shown in Section A-A and according to Section 817 of the Standard Specifications. The cost of this work shall be included in the Waterway Obstruction Warning Luminaire, LED.

NAVIGATION OBSTRUCTION WARNING LIGHTING DETAIL

(6 REQUIRED)

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11/17/2014, 7:18:13 PM, NEWMOYD
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FILE NAME =	USER NAME = $USER$	DESIGNED - IDOT	REVISED - ⚠ ADDENDUM NO. 1 11/25/2014
$FILE$		DRAWN - JB	REVISED -
exp U.S. Services Inc. Chicago, IL BUILDINGS · EARTH & ENVIRONMENT · ENERGY INDUSTRIAL · INFRASTRUCTURE · SUSTAINABILITY	PLOT SCALE = $SCALE$	CHECKED - IDOT	REVISED -
	PLOT DATE = $DATE$	DATE - 11/25/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP ROUTE 745 / IL ROUTE 104

LIGHTING DETAILS
NAVIGATION LIGHT SUPPORT DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	331
	* 123R-2, 124RS-8	CONTRACT NO. 72858		
		ILLINOIS FED. AID PROJECT		