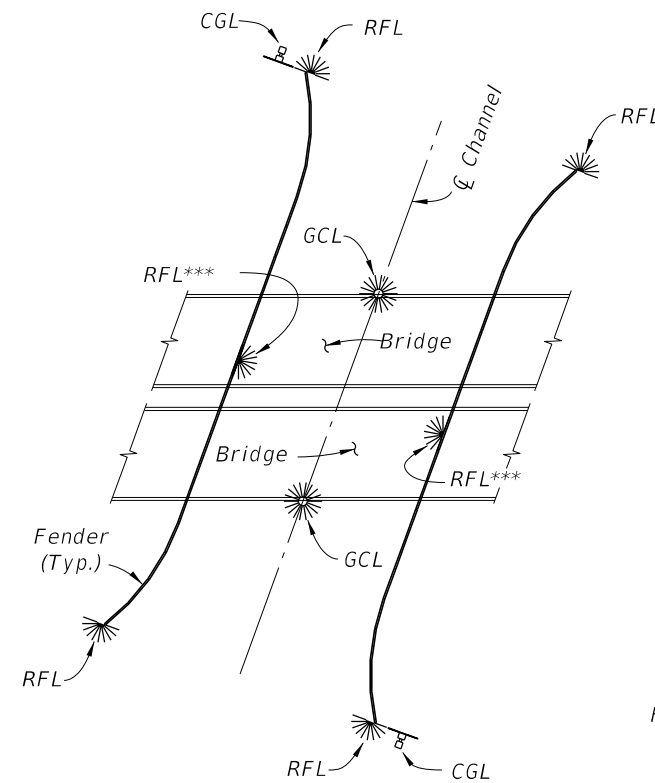
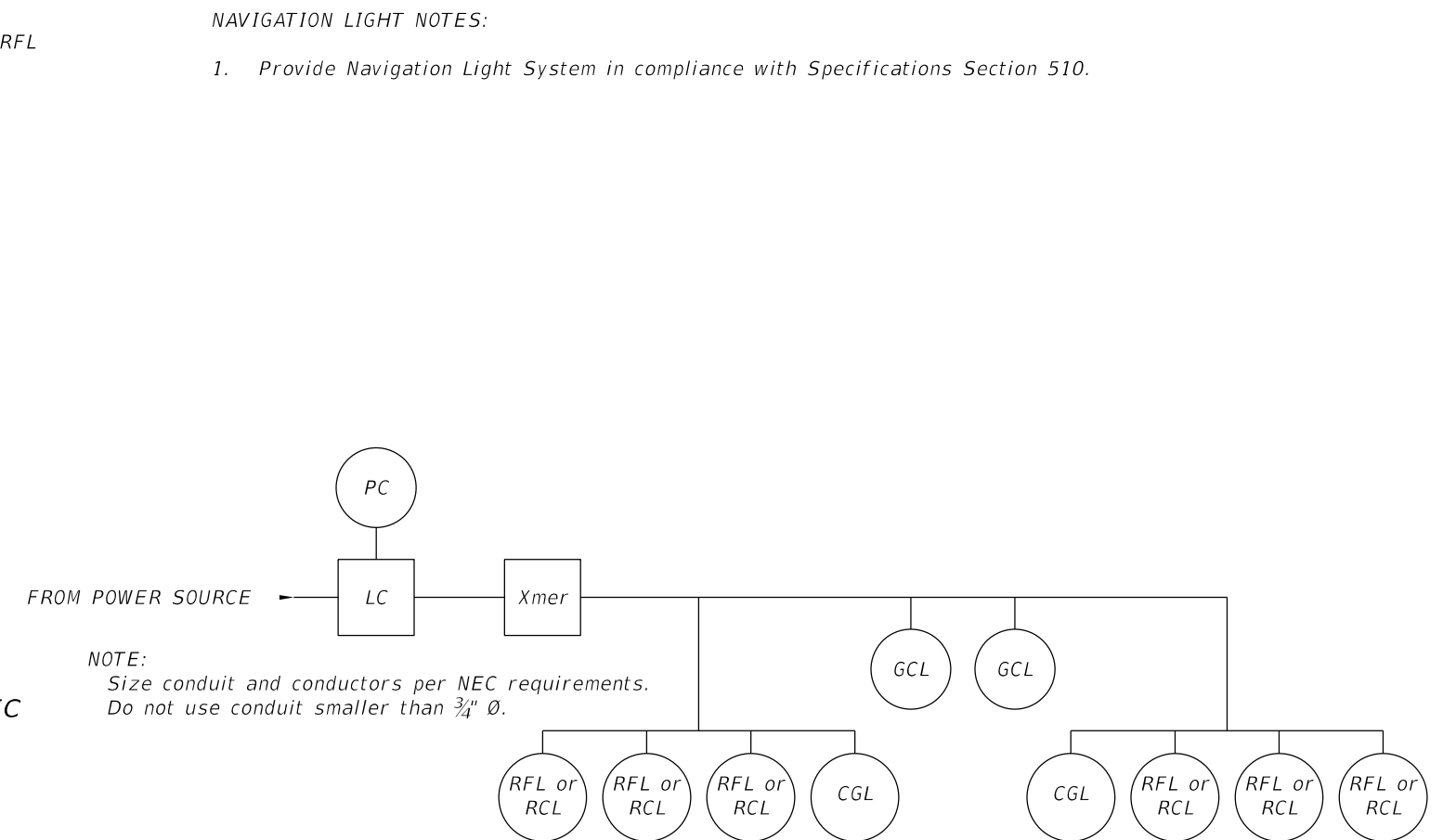


NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITH FENDERS

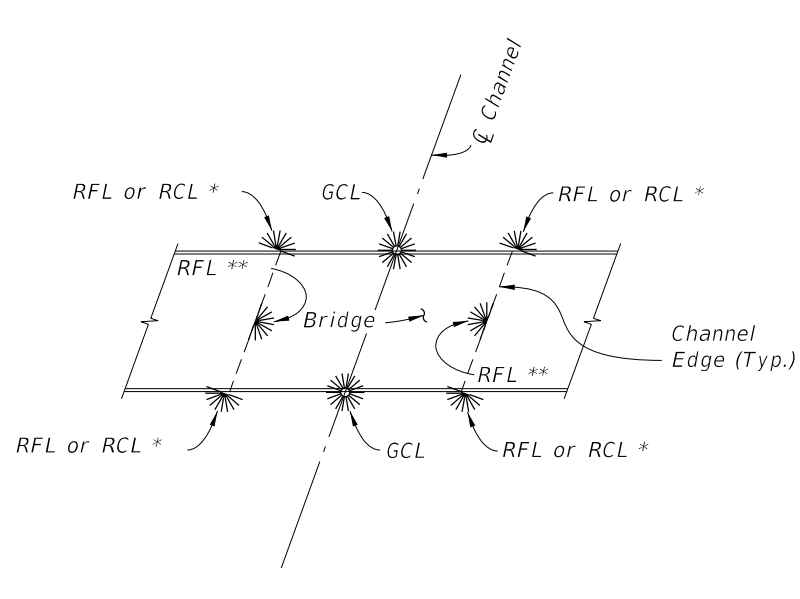


NAVIGATION LIGHT SYSTEM SCHEMATIC FOR DUAL BRIDGES WITH FENDERS

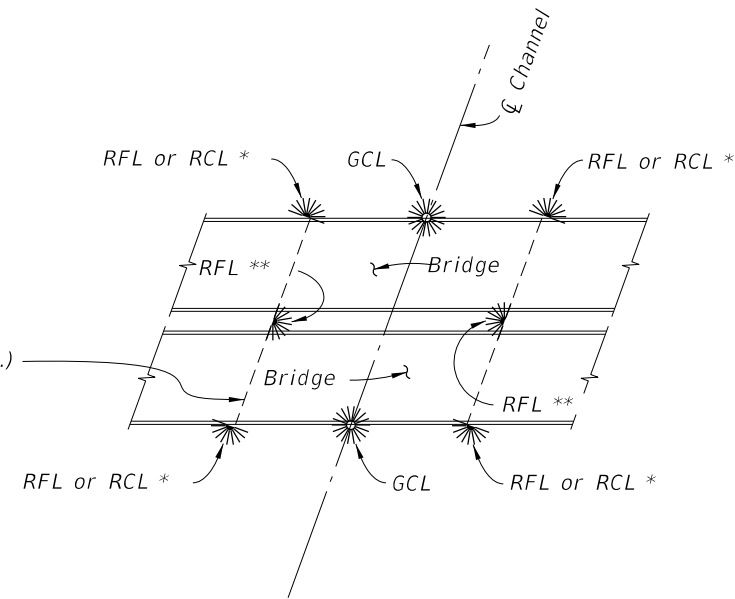


NOTE:  
Size conduit and conductors per NEC requirements.  
Do not use conduit smaller than 3/4" Ø.

TYPICAL ELECTRICAL SCHEMATIC DIAGRAM



NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITHOUT FENDERS



NAVIGATION LIGHT SYSTEM SCHEMATIC FOR DUAL BRIDGES WITHOUT FENDERS

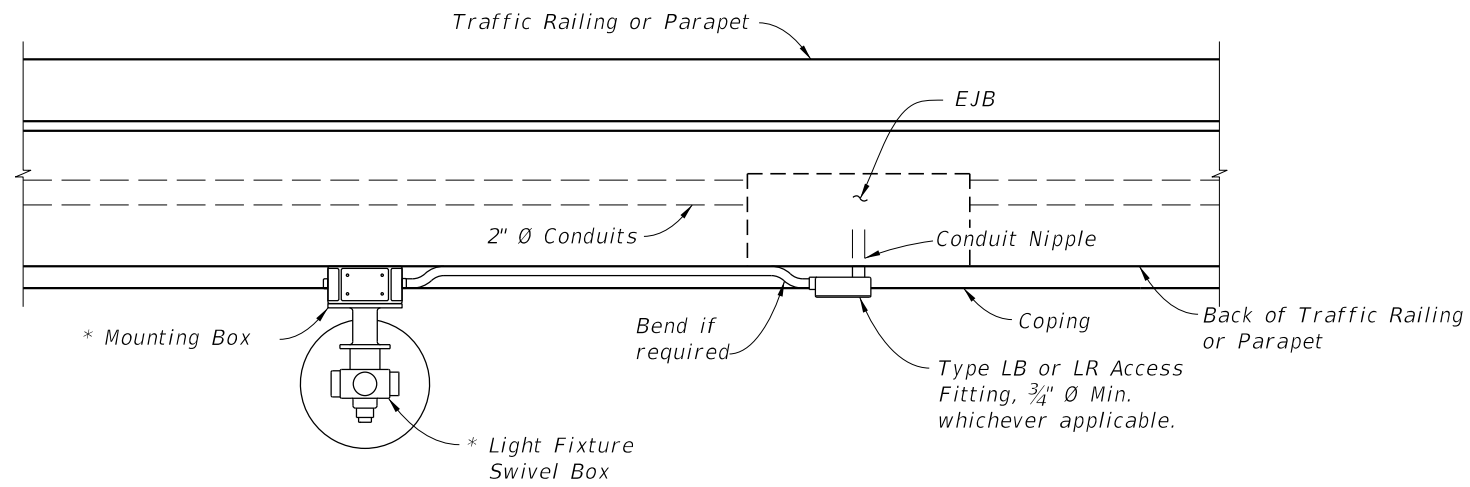
POWER CONDUCTORS			
DISTANCE (feet)	VOLTS	CONDUCTOR	TRANSFORMER
0 - 75	120	#12 AWG	N/A
75 - 500	120 or 240	#10 AWG	N/A
500-1000	240	#10 AWG	N/A
1000-2000	480	#10 AWG	2 KVA
2000-5000	480	#8 AWG	2 KVA
5000-10000	480	#6 AWG	2 KVA
over 10000	480	#4 AWG	2 KVA

LEGEND

- SYMBOL DESCRIPTION
- LC Lighting Contactor
  - PC Photocell Control
  - Xmer Transformer (If Required)
  - RFL Red Pier/Fender Light (180° visibility)  
or  
 RCL Red Channel Margin Light (180° visibility)
  - GCL Green Center Channel Light (360° visibility)
  - CGL Clearance Gauge Light
  - CM Channel Margin or Pier inner surface whichever defines Channel Edge.

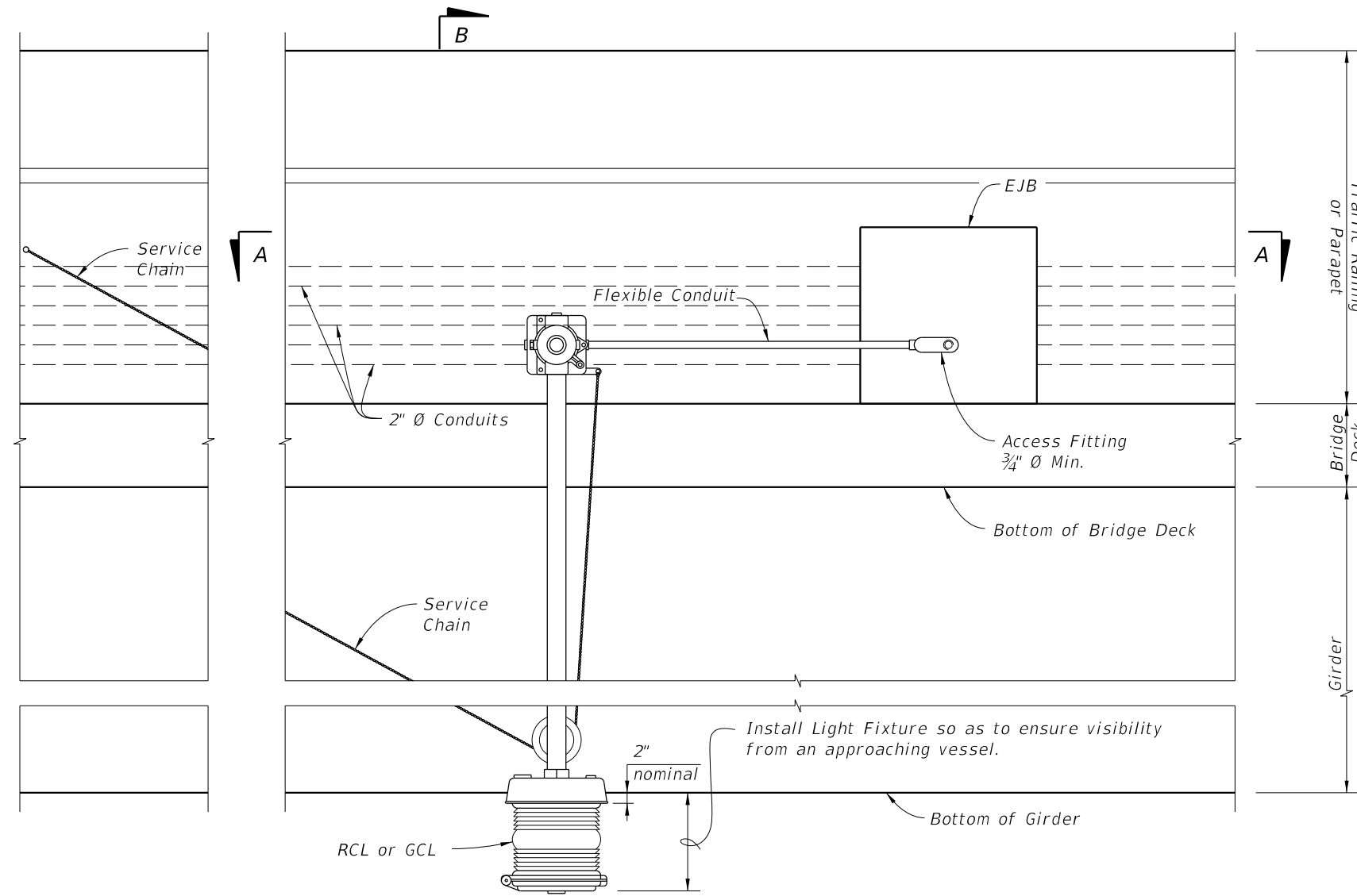
\* Use RFL when Pier is at Channel Edge and see CFR, Title 33, part 118 for Mounting Height restrictions. Use RCL otherwise.  
\*\* Mounted only on the Pier that defines CM, otherwise does not apply.  
\*\*\* RFL to be located at mid length of straight portion of fender.

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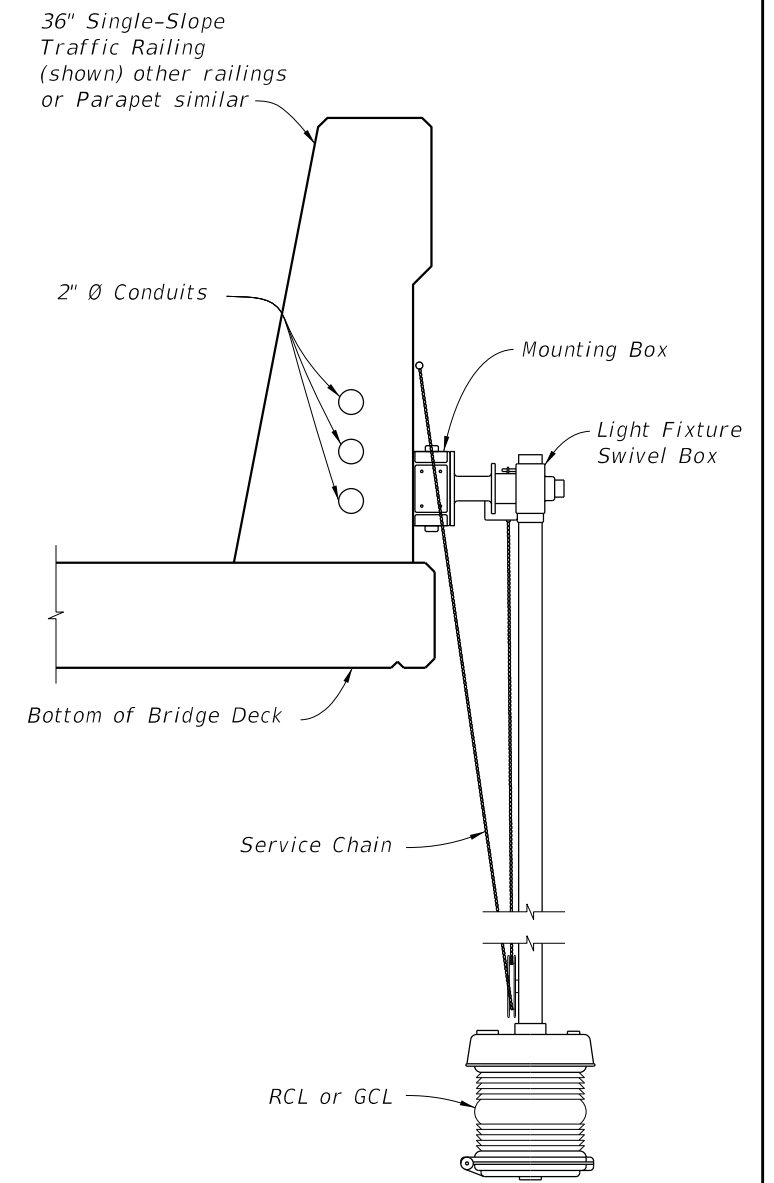


GCL OR RCL MOUNTING DETAILS (SCHEMATIC)  
VIEW A-A

CROSS REFERENCES:  
1. For Navigation Light System notes and legend, see Sheet 1.  
2. See Utility Conduit Detail sheets for Embedded Junction Box (EJB) dimensions & locations.  
\* Supplied by Light Fixture Manufacturer




GCL OR RCL MOUNTING DETAILS (SCHEMATIC)  
ELEVATION VIEW  
(Traffic Railing (36" Single-Slope) shown, other railings similar)



SECTION B-B  
TYPICAL POSITION OF RCL OR GCL  
RELATIVE TO SUPERSTRUCTURES

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LAST REVISION 11/01/17	DESCRIPTION:		FY 2024-25 STANDARD PLANS	NAVIGATION LIGHT SYSTEM DETAILS (FIXED BRIDGES)	INDEX 510-001	SHEET 2 of 2
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