NAVIGATION LIGHT SYSTEM NOTES:
1. Provide Navigation Light System in compliance with Specifications Section 510.

NAVIGATIONAL LIGHT SYSTEM SCHEMATIC
FOR SINGLE BRIDGE WITH FENDERS

NAVIGATION LIGHT SYSTEM SCHEMATIC
FOR DUAL BRIDGES WITH FENDERS

NAVIGATION LIGHT SYSTEM SCHEMATIC
FOR SINGLE BRIDGE WITHOUT FENDERS

NAVIGATION LIGHT SYSTEM SCHEMATIC
FOR DUAL BRIDGES WITHOUT FENDERS

* 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.

NOTE: Size conduit and conductors per NEC requirements. Do not use conduit smaller than $\frac{1}{2}".

NAVIGATION LIGHT SYSTEM DETAILS
(FIXED BRIDGES)

TYPICAL ELECTRICAL SCHEMATIC DIAGRAM

SYMBOL DESCRIPTION

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

<table>
<thead>
<tr>
<th>POWER CONDUCTORS</th>
<th>VOLTS</th>
<th>CONDUCTOR</th>
<th>TRANSFORMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 75</td>
<td>120</td>
<td>#12 AWG</td>
<td>N/A</td>
</tr>
<tr>
<td>&gt; 75 &lt; 500</td>
<td>120 or 240</td>
<td>#10 AWG</td>
<td>N/A</td>
</tr>
<tr>
<td>500 - 1000</td>
<td>240</td>
<td>#10 AWG</td>
<td>2 KVA</td>
</tr>
<tr>
<td>1000 - 2000</td>
<td>480</td>
<td>#8 AWG</td>
<td>2 KVA</td>
</tr>
<tr>
<td>2000 - 5000</td>
<td>480</td>
<td>#6 AWG</td>
<td>2 KVA</td>
</tr>
<tr>
<td>5000 - 10000</td>
<td>480</td>
<td>#4 AWG</td>
<td>2 KVA</td>
</tr>
<tr>
<td>&gt; 10000</td>
<td>480</td>
<td>#2 AWG</td>
<td>2 KVA</td>
</tr>
</tbody>
</table>
Install Light Fixture so as to ensure visibility from an approaching vessel.

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

**SECTION B-B**

**TYPICAL POSITION OF RCL OR GCL RELATIVE TO SUPERSTRUCTURES**

**GCL OR RCL MOUNTING DETAILS (SCHEMATIC)**

**ELEVATION VIEW**

(Traffic Railing (36° Single-Slope) shown, other railings similar)