NAVIGATION 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

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

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

TYPICAL ELECTRICAL SCHEMATIC DIAGRAM

POWER CONDUCTORS

<table>
<thead>
<tr>
<th>DISTANCE (Foot)</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>75 - 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>#6 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>over 10000</td>
<td>480</td>
<td>#4 AWG</td>
<td>2 KVA</td>
</tr>
</tbody>
</table>

LEGEND

- LC: Lighting Contact
- PC: Photocell Control
- Xfer: Transformer (if Required)
- RPL: Red Pier/Port Light
- RCL: Red Channel/Margin Light
- GCL: Green Center Channel Light
- CM: Clearance Gauge Light
- CM: Channel/Margin or Pier inner surface whichever defines Channel/Margin.

INSTRUCTIONS TO DESIGNER:
1. Provide design of GCL locations, configurations and its supporting structures.
2. Provide design of RPL locations and configurations in Fender System; Drawings if applicable.
3. If actual conditions differ from the typical configurations shown on this sheet design Navigation Light System to comply with Code of Federal Regulations Title 33, Chapter 1, Part 126.
4. Provide automatic lock positions for service and operating.
5. Specify Service Chain mounting location.
GCL OR RCL MOUNTING DETAILS (SCHEMATIC)

VIEW A-A
(Traffic Railing – 32" F Shape shown, other railings similar)

* Supplied by Light Fixture Manufacturer

CROSS REFERENCES:
1. For Navigation Light System notes and legend, see Sheet 1
2. See Utility Conduit Details sheets for pullbox dimensions & locations.

ELEVATION VIEW
(Traffic Railing (32" F Shape) shown, other railings similar)