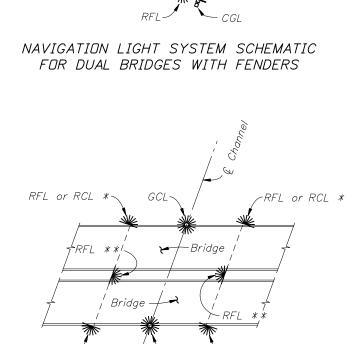


NAVIGATION LIGHT SYSTEM SCHEMATIC FOR SINGLE BRIDGE WITH FENDERS

RFL or RCL \*

RFL or RCL \*



-RFL or RCL \*

Bridge

Fender (Typ.)

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 or RCL \*

\*\*\* RFL to be located at mid length of straight portion of fender.

NAVIGATION LIGHT SYSTEM SCHEMATIC

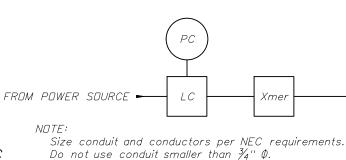
FOR SINGLE BRIDGE WITHOUT FENDERS

RFL or RCL \*

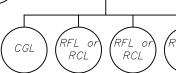
~RFL or RCL \*

## NAVIGATION LIGHT NOTES:

1. Provide Navigation Light System in compliance with Specifications Section 510.



CGL





TYPICAL ELECTRICAL SCHEMATIC DIAGRAM

GCL

GCL

## **LEGEND**

	SYMBOL	DESCRIPTION		
	LC	Lighting Contactor		
	PC	Photocell Control		
	Xmer	Transformer (If Required)		
	[RFL	Red Pier/Fender Light		
<b>3</b>	RCL	Red Pier/Fender Light Red Channel Margin Light		
**	GCL	Green Center ChannelLigh		
	CGL	Clearance Gauge Light		

POWER CONDUCTORS					
DISTANCE	VOLTS	CONDUCTOR	TRANSFORMER		
(feet)					
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		

## INSTRUCTIONS TO DESIGNER:

- 1. Provide design of CGL locations, configurations and its supporting structures.
- 2. Provide design of RFL 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 118.
- 4. Provide automatic lock positions for service and operating.
- 5. Specify Service Chain mounting location.



2008 FDOT Design Standards

Channel Margin or Pier inner surface

whichever defines Channel Edge.

Sheet No.

NAVIGATION LIGHT SYSTEM DETAILS (FIXED BRIDGES)

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