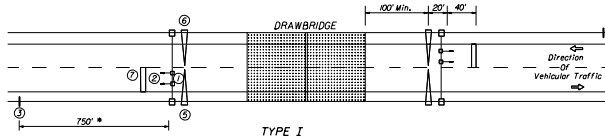


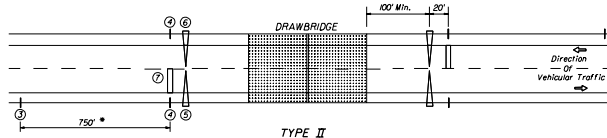
TYPICAL BRIDGE MOUNTS



TYPE I

TO BE USED WHERE BRIDGE OPERATORS
ARE FULL TIME OR A DAILY BASIS

* Field conditions may require adjustment of this standard distance.



TYPE II

TO BE USED WHERE TYPE I IS NOT APPLICABLE
(USUALLY WHEN THE BRIDGE OPERATOR IS "ON CALL")

SEQUENCE CHART

	SIGNAL SWITCH	OFF	ON	OFF
SIGNALS & SIGNS	FLASHING BEACON DRAWBRIDGE AHEAD (See Note 9) SIGN	BLANK	FLASHING YELLOW	BLANK
	STOP HERE ON RED (Type II only)	BLANK	FLASHING RED	BLANK
	TRAFFIC SIGNALS (Type I only)	GREEN	YELLOW	RED
	ENTRANCE GATES	RAISED	LOWERED	RAISED
EXIT GATES		LOWERED	RAISED	
TIMING				
	Variable Time (See Note No. 3)	5 Sec. Min.	15 Sec. Min. Variable Time (See Note No. 4)	Variable Time (See Note No. 5)
			Variable Time - Bridge Open (See Note No. 6)	Variable Time (See Note No. 5)
	Normal Operation			
	Operation During Bridge Preemption			

LEGEND

- ① TRAFFIC SIGNALS Mast Arm Mounted (Off Bridge)
- ② DRAWBRIDGE SIGN Manubrie Support Mounted (On Bridge)
- ③ DRAWBRIDGE AHEAD SIGN Ground Mounted
- ④ STOP HERE ON RED SIGN Ground Mounted
- ⑤ ENTRANCE GATE
- ⑥ EXIT GATE
- ⑦ 24" THERMOPLASTIC STOP BAR

NOTES:

1. A bypass switch shall be installed to override each timing interval in case of a malfunction.
2. "STOP HERE ON RED" is omitted in Type I operation and "TRAFFIC SIGNALS" are omitted in Type II operation.
3. The time between beginning of flashing yellow on "Drawbridge Ahead" sign and the clearance of traffic signal to red, or beginning of flashing red should not be less than the travel time of a passenger car, from the sign location to the stop line, traveling at the 85 percentile approach speed.
4. Beginning of operation of drawbridge gates shall not be less than 15 seconds after steady red or 20 seconds after flashing red (Actual time may be determined by the bridge tender.)
5. Time of gate lowering and raising is dependent upon gate type.
6. Time of bridge opening is determined by the bridge tender.
7. Each gate shall be operated by a separate switch.
8. On each approach (Type II), all four red signals shall be on the same two circuit flashers, with the two top signals on one circuit, and the two bottom signals on the alternately flashing circuit.
9. A Drawbridge Ahead sign is required for both types of signal operation. However a flashing beacon shall be added to the sign when physical conditions prevent a driver traveling at the 85% approach speed from having continuous view of at least one signal indication for approximately 10 seconds.
10. Requirements on gate installation are contained in Section 4E-14 through 4E-17 of the Manual on Uniform Traffic Control Devices.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

TRAFFIC CONTROL DEVICES FOR MOVABLE SPAN BRIDGE SIGNALS

Designed By	Date	Approved By	Date	Scale	Notes
Drawn By	4-77	<i>Charles J. ...</i>			
Checked By	4-77			00	1 of 3 17890

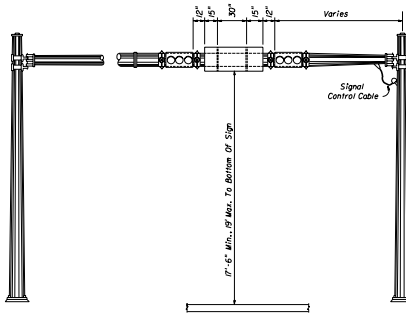
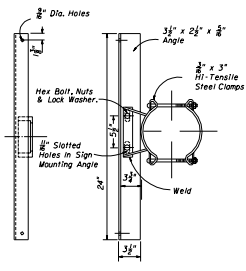


FIGURE - A

MONOTUBE SUPPORT MOUNTING



SIGN PANEL MOUNTING ASSEMBLY

FIGURE - B

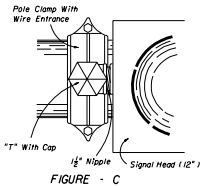


FIGURE - C

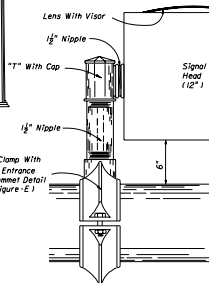


FIGURE - D

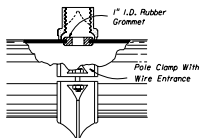


FIGURE - E

SIGNAL HEAD MOUNTING ASSEMBLY

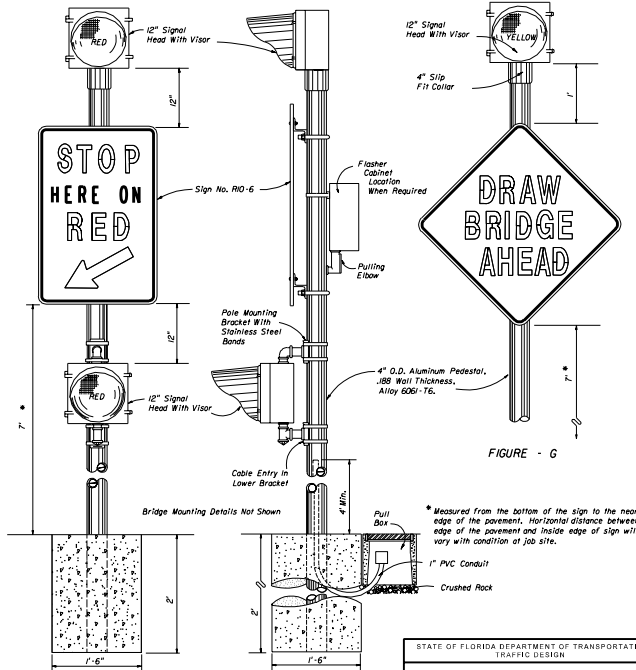


FIGURE - F

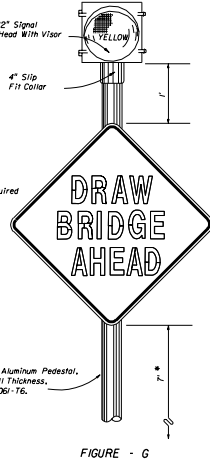
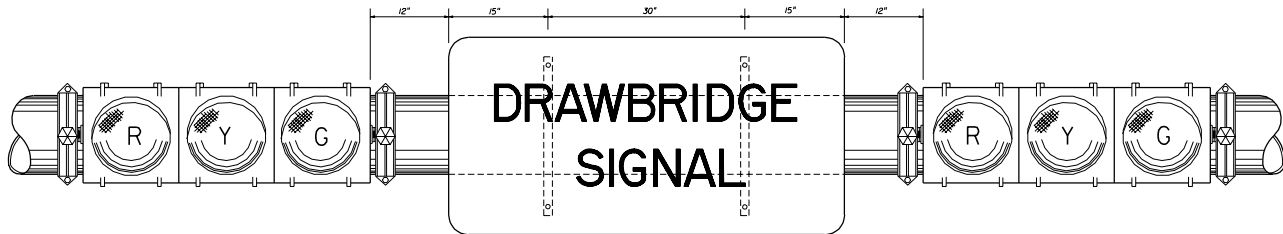


FIGURE - G

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

TRAFFIC CONTROL DEVICES FOR
MOVABLE SPAN BRIDGE SIGNALS

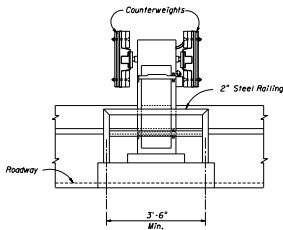
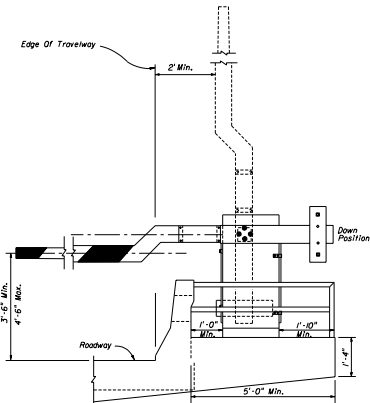
Drawn By	Checked By	Scale	Date	Approved By
			11-71	<i>C. Clark A. Scott</i>
			00	STATE TRAFFIC ENGINEER
			00	2 of 3
				17890



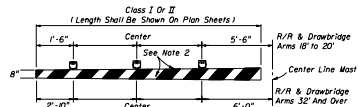
5' x 2'-6"
2" Border-4" Radius
6" Series "D" Letters

BLACK OPAQUE LEGEND AND BORDER ON REFLECTORIZED YELLOW BACKGROUND

TO BE USED WITH TYPE I OPERATION, AS SHOWN
ON PREVIOUS SHEET
MONOTUBE SUPPORT MOUNTING



GATE & ARM DETAIL



Note 1:

- 12 volt flashing red lights shall be mounted on gate arm and shall operate in the flashing mode only when gate arm is in the lower position or in the process of being lowered. The number of lights shall vary accordingly to length of the gate arm.
- 16" alternate diagonal fully reflectorized red and white stripes.

TYPICAL LAMP PLACEMENT

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN

TRAFFIC CONTROL DEVICES FOR
MOVABLE SPAN BRIDGE SIGNALS

Designed By	Checked By	Date	Approved By
			<i>C. Clark</i>
Drawn By			STATE TRAFFIC DESIGN
Checked By			00 3 of 3 17890