TYPICAL BRIDGE MOUNTS

**LEGEND**
- TRAFFIC SIGNALS
- DRAWBRIDGE SIGN
- DRAWBRIDGE AHEAD SIGN WITH YELLOW FLASHING BEACON
- STOP HERE (ON RED) SIGN WITH RED FLASHING BEACON
- ENTRANCE GATE
- EXIT GATE
- 24" THERMOPLASTIC STOP BAR

**NOTES:**
1. A bypass switch shall be installed to override each timing interval in the event 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 signals 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 85th 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 gates 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 other alternate flashing circuit.
9. A drawbridge ahead sign is required for both signal operations, 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 41 of the "Manual of Uniform Traffic Control Devices".

**SEQUENCE CHART**

**GATES**
- ENTRANCE GATE
- EXIT GATE

**TIMING**
- Normal Operation

**SLIPPERY WHEN WET SIGN**
- See Note 11
SIGN PANEL MOUNTING ASSEMBLY

FIGURE - B

Pole Clamp With Wire Entrance
(See Grooves Detail in Figure E)

FIGURE - C

STOP HERE ON RED

Pole Mounting Bracket With Stainless Steel Bands

FIGURE - D

12" Signal Head With Visor

4" Slip Fit Color

Flashing Cabinet Location When Required

FIGURE - E

Sign Panel Mounting Angle

FIGURE - F

Pole Mounting Details Not Shown

Bridge Mounting Details Not Shown

1/2" PVC Conduit

Crushed Rock

1/2" Slotted Holes In Sign Mounting Angle

FIGURE - G

# Measured from the bottom of the sign to the near edge of the pavement. Horizontal distance between edge of the pavement and inside edge of sign shall vary with condition at job site.
DRAWBRIDGE SIGNAL

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

NOTES:
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.
2. 16" alternate diagonally reflectorized red and white stripes.

TYPICAL LAMP PLACEMENT