TRAFFIC OPERATIONS STANDARDS

INDEX NUMBERS

SIGNING ...............17300 - 17499
HIGHWAY LIGHTING ...17500 - 17699
TRAFFIC SIGNALS ...17700 - 17899
<table>
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<tr>
<th>Case Number</th>
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<td>Medium arms (1001-5000)</td>
<td>Repair</td>
<td>Weekly</td>
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<td>C</td>
<td>Large arms (5001-10000)</td>
<td>Inspection</td>
<td>Monthly</td>
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<td>D</td>
<td>All other arms</td>
<td>Maintenance</td>
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Note: The above table is an example and the actual content may vary.
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<td>611-4BC</td>
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FLORIDA DEPARTMENT OF TRANSPORTATION

Revisions

INITIAL: 01/01/00
DATE: 01/01/00

Approved by

Drawing No.: 03-17710

Sheet No.: 3
**FIGURE A**
PULL BOX SPACING, CONDUIT ENTRY AND GROUNDING DETAIL

- Pull box spacing should be adjusted in the field to avoid placing boxes in driveways or cross streets.

---

**FIGURE B**
FOR USE UNDER RAILROADS

- PVC conduit to 12" BAVG insulated copper ground wire.
- A pull box is required on each side of the railroad, at least 30' from the outside track.

---

**FIGURE C**

- See Figure 4 or Figure 6, Sheet 1, for minimum depth under sidewalks or other areas not exposed to vehicular traffic.

---

**FIGURE D**
PULL BOX ENTRY OF CONDUIT UNDER SIDEWALKS

- One run of conduit (between pull boxes) shall not contain more than 90° of bend including pull box bends.

---

**CONDUIT INSTALLATION DETAILS**

- Florida Department of Transportation

---

**REVISIONS**

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**STATE PWN NO. 7407**
FIGURE - A
(NO METER USED)

FIGURE - B
(METER USED)
DRAWBRIDGE SIGNALS ARE MANDATORY AS DIRECTED BY SECTION 4E-14, 1971
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SINCE DRAWBRIDGE OPERATIONS COVER
A WIDE RANGE OF TIME PERIODS BETWEEN OPENINGS, TWO TYPES OF SIGNALIZATION
ARE APPLICABLE (TYPE 1 & TYPE 2).

**TYPE 1**
TO BE USED WHERE BRIDGE OPERATORS ARE FULL TIME OR ON A DAILY BASIS
FULL TIME OPERATIONS MAY REQUIRE RELOCATION OF THIS STANDARD DISTANCE.

**TYPE 2**
TO BE USED WHERE TYPE 1 IS NOT APPLICABLE
(USUALLY WHEN THE BRIDGE OPERATOR IS "ON CALL")

### SEQUENCE CHART

#### SIGNALS & SIGNS
- **DRAWBRIDGE AHEAD** (if applicable)
- **STOP HERE ON RED** (Type 2 only)
- **TRAFFIC SIGNALS** (Type 1 only)

#### ENTRANCE GATES
- **Gates**

#### TIMING
- **Variable Time**
- **5 Sec.**
- **10 Sec. Min.**
- **Variable Time**
- **Variable Time - Bridge Open**
- **Variable Time - Operation During Bridge Operation**

#### NOTES:
1. "STOP HERE ON RED" is omitted in Type 1 operation and "TRAFFIC SIGNALS" are omitted in Type 2 operation.
2. 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 80% percentile approach speed.
3. 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).
4. Time of gate lowering and raising is dependent upon gate type.
5. Time of bridge opening is determined by the bridge tender.
6. Each gate shall be operated by a separate switch.
7. On each approach (Type 2), all four red signals shall be on the same two circuit flasher, with the two top signals on one circuit, and the two bottom signals on the alternately flashing circuit.

### LEGEND
- TRAFFIC SIGNALS
- MONITOR SUPPORT MOUNTED
- DRAWBRIDGE AHEAD SIGN
- STOP HERE ON RED SIGN
- ENTRANCE GATE
- EXIT GATE

**APPROVED BY:**

**DATE:**

**DRAWBRIDGE SIGN & SIGNALIZATION**

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**DRAWING NO.**

**INDEX NO.**

**1 OF 3** 17880
PASSIVE STATE
(No Train Present)

ALTERNATE FLASHING 8" SIGNAL HEADS
(YELLOW LENS)
(USE 100W BULBS)

HEATHERIGHT CAP

ALTERNATE FLASHING 8" SIGNAL HEADS
(YELLOW LENS)
(USE 100W BULBS)

STATIONARY BACKGROUND 
TO FORM A PARTITION OF DISTANCE MESSAGE, WHEN STOP-AHEAD 
SIGN IS IN CLOSED MODE.

SIGN NO. W10-10947
WITH HIGH INTENSITY 
GRADE REFLECTIVE SHEETING (YELLOW)
(SEE HINR NO. 4)

4.5 ALUMINUM PIPE
(0.188" WALL THICKNESS)
-YELLOW

SIGN CONTROL 
STATION TO BE AS 
RECOMMENDED BY 
MANUFACTURER

U.S. HION

4.5 ALUMINUM PIPE

SIGN NO. W10-10577
WITH HIGH INTENSITY 
GRADE REFLECTIVE SHEETING (YELLOW)
(SEE HINR NO. 1)

SIGN NO. W10-10607
WITH HIGH INTENSITY 
GRADE REFLECTIVE SHEETING (YELLOW)
(SEE HINR NO. 5)

4.5 ALUMINUM PIPE

HIGH INTENSITY GRADE 
REFLECTIVE SHEETING (YELLOW)

4.5 ALUMINUM PIPE

FLASHING CABSINETS

FLASHING LIGHTS, MANUAL TEST 
SWITCH, NORMALLY CLOSED, 
PRESS BUTTON, CONTROL RELAY

PULLING ELBOW 
(TYPE: CB-1/4"
WALL)

INSTALL ELBOWS TO PROTECT 
WIRE FROM CHAFING

NOTE:
1. "STOP AHEAD" IS STANDARD AND PREferred 
SIGN MESSAGE. ANOTHER MESSAGE MAY BE 
APPROVED WHEN APPROPRIATE FOR 
SPECIFIC SITUATIONS.
2. REFER TO STANDARD INDEX NO.10960 FOR 
MOUNTING OF SIGNS ON POST.

FUNCTIONAL BLOCK DIAGRAM
(TYPICAL)

REFER TO CASE 1, 11 OR 11 IN STANDARD 
INDEX NO. 17302A.
TYPICAL POWER SERVICE

NOTE:
SEE STANDARD INDEX NO. 17364 FOR ELECTRIC POWER SERVICE INSTALLATION DETAILS.

NOTE:
SEE STANDARD INDEX NO. 11786 FOR ELECTRIC POWER SERVICE INSTALLATION DETAILS.

TYPICAL PLAN SHEET

TABLE OF DIMENSION "X"

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FLORIDA DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING

ADVANCE WARNING FOR R.R. CROSSING

REVISIONS

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APPROVED BY FACING FEBRUARY 24, 1979

17881
NOTE:
(1) FLORIDA SHIELD SHALL BE BLACK OPAQUE
(2) LEGEND SHALL BE 1\(^{\circ}\) CAPS, BLACK OPAQUE
(3) BACKGROUND SHALL BE REFLECTIVE WHITE
(4) LENGTH OF PANEL WILL VARY WITH LEGEND
WEIGH STATION
AGRICULTURAL
INSPECTION
1 MILE

ALL TRUCKS
ALL TRAILERS
NEXT RIGHT

WEIGH STATION
AGRICULTURAL
INSPECTION
NEXT RIGHT

TRUCKS
TRAILERS

NOTE: IZA — RIGHT ARROW
IZO — LEFT ARROW

SIGN NO. 10A
12" O.C. X 9'-6"
2" BORDER — 9" RAD.

SIGN NO. 11A
2'-6" X 9'-6"
2" BORDER — 9" RAD.

SIGN NO. 12
5'-6" X 6'-6"
2" BORDER — 9" RAD.

SIGN NO. 12B
6'-0" X 6'-0"
2" BORDER — 9" RAD.

SIGN NO. 12C
5'-6" X 6'-0"
2" BORDER — 9" RAD.

NEXT LEFT

NOTE
ALL SIGNS SHALL HAVE GREEN RELECTORIZED BACKGROUND WITH
WHITE LEGEND AND BORDER, EXCEPT SIGNS 10A & 10B WHICH SHALL
HAVE A WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.
ALL DIMENSIONS SHOWN ARE IN INCHES AND EIGHTHS
NOTE:
DISTANCE MESSAGE OF ½ MILE MAY BE USED TO KEEP
THIS SIGN WITHIN THE STATE LINE.

NOTE:
ROADWAY NOT DRAWN TO SCALE
DISTANCES SHOWN ARE APPROXIMATE
FOR ACCURATE DRIVER COMMUNICATION
BUT MAY BE ALTERED SLIGHTLY IF FIELD
CONDITIONS REQUIRE.

SIGN NO. 1
6'0" x 6'0"
3" BOR 3" RAD.
BLUE REF. BACKGROUND
WHITE REF. LEGEND & BORDER

SIGN NO. 2
7'-0" x 12'-0"
3" BOR 3" RAD.
BLUE REF. BACKGROUND
WHITE REF. LEGEND & BORDER

SIGN NO. 3
4'-0" x 12'-0"
2'-3" BOR 3" RAD.
BLUE REF. BACKGROUND
WHITE REF. LEGEND & BORDER

SIGN NO. 4
5'-0" x 11'-0"
2'-3" BOR 3" RAD.
BLUE REF. BACKGROUND
WHITE REF. LEGEND & BORDER

NOTE:
1. SIGNS AND SIGN STRUCTURES SHALL BE ERECTED IN ACCORDANCE
   WITH THE DETAILS SHOWN ON SHEET 3015.
2. SIGN NO. 1 SHALL BE LOCATED ON THE WELCOME CENTER GROUNDS
   IN PROXIMITY TO THE BUILDINGS AND AS FAR FROM THE MAIN LINE
   ROADWAYS AS POSSIBLE (2 SIGNS BACK TO BACK).
3. SIGN NO. 2A SHALL BE LOCATED ON LIMITED ACCESS HIGHWAYS
   ONLY.
4. DETAIL OF FLORIDA SYMBOL IS AVAILABLE ON REQUEST FROM
   TRAFFIC OPERATIONS OFFICE OF D.O.T.

APPROVED BY D.F.W.A. D-75

FLORIDA DEPARTMENT OF TRANSPORTATION
TRAFFIC OPERATIONS

FOR LIMITED ACCESS HIGHWAYS

TYPICAL WELCOME CENTER SIGNING

REVISIONS

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NOTE:
SIGN SHALL HAVE BLUE REFLECTORIZED BACKGROUND WITH WHITE REFLECTORIZED
LEGEND & BORDER. SIGN NO. 3 SHALL BE USED AS A SUPPLEMENTAL GUIDE SIGN AT
INTERCHANGES WHICH MAKE A TOURIST INFORMATION CENTER APPROVED FOR SUCH
SIGNING (LOCATE HALF-WAY BETWEEN NORMAL GUIDE SIGNS.)
STATE OF FLORIDA
WELCOME CENTER
1 MILE

SIGN NO. JA
4'-6" x 12'-6"
2" BOR - 9" RAD.
BLUE REFLECTIVE BACKGROUND
WHITE REFLECTIVE LEGEND & BORDER

STATE OF FLORIDA
OFFICIAL
WELCOME CENTER

SIGN NO. 4
4'-6" x 12'-6"
2" BOR - 9" RAD
BLUE REFLECTIVE BACKGROUND
WHITE REFLECTIVE LEGEND & BORDER
ORANGE REFLECTIVE STATE SILHOUETTE

1/2 MILE

SIGN NO. TB
6'-0" x 12'-6"
2" BOR - 9" RAD.

SIGN NO. E
5'-6" x 12'-6"
2" BOR - 9" RAD.

NOTES
(1) SIGNS AND SIGN STRUCTURES SHALL BE ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON INDEX 9553.
(2) SIGN NO. 4 SHALL BE LOCATED ON THE WELCOME CENTER GROUND IN PROXIMITY TO THE BUILDING AND AS FAR FROM THE MAIN LINE AS POSSIBLE. SIGNS BACK TO BACK.
(3) DETAILS OF FLORIDA SYMBOLS ARE AVAILABLE FROM TRAFFIC OPERATIONS OFFICE OF D.O.T.

NOTE
ROADWAY NOT DRAWN TO SCALE

"90°" MAXIMUM FOR RURAL CONDITIONS
90° MINIMUM FOR CONGESTED AREAS

FOR PRIMARY HIGHWAYS

TYPICAL WELCOME CENTER SIGNING

REVISIONS

DATE | INITIALS | DESCRIPTION
--- | --- | ---

SUPERVISOR R.R. 6-75
ENGINEER FOR APPROVAL INDICATION:
REVIEWED BY:
CHECKED BY:
PRINTED BY:
STATE TRAFFIC OPERATIONS EMERGENCY

NOTE:
EITHER ONE BUT NOT BOTH OF SIGNS TA OR TB SHOULD BE USED DEPENDING ON SPEED, ROADWAY DEVELOPMENT & GEOMETRIC CONDITIONS.
NOTE

(1) Florida shield shall be black opaque.
(2) Legend shall be 10" caps, black opaque.
(3) Background shall be reflective white.
(4) Length of panel will vary with legend.
NOTE:
1. FLORIDA SHIELD SHALL BE BLACK OPAQUE
2. LEGEND SHALL BE 1/8" CAPS, BLACK OPAQUE
3. PANEL BACKGROUND SHALL BE REFLECTIVE WHITE
4. LENGTH OF PANEL WILL VARY WITH LEGEND
### MI-4 U.S. Route Marker

**For Guide Sign Use**

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<td>B</td>
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<tr>
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<td>5/8</td>
</tr>
<tr>
<td>D</td>
<td>1 1/2</td>
</tr>
<tr>
<td>E</td>
<td>2</td>
</tr>
<tr>
<td>F</td>
<td>1/4</td>
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<td>1/4</td>
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<tr>
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**1/2-digits**

- 24 24 5/2 12 6 1/2 1 1 5 7 5 7 2
- 36 36 8 1/4 18 9 1/2 7 1/2 1 1/2 10 1/2 10 1/2 3
- 48 48 11 24 13 2 1 1 10 14 10 14 4
- 30 24 5/2 12 6 1/2 4 1 5 7 9 10 2
- 45 36 8 1/4 18 9 1/2 7 1/2 1 1/2 11 1/2 15 3
- 60 48 11 24 13 8 1 1 10 14 18 20 4

**3-digits**

- 85 36 8 1/4 18 9 1/2 7 1/2 1 1/2 11 1/2 15 3
- 60 48 11 24 13 8 1 1 10 14 18 20 4

**Colors**

- Legend: Black (Non-Reflected)
- Background: White (Reflected)

### MI-1 Interstate Shield

**For Guide Sign Use**

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**1/2-digits**

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- 36 36 3/4 9 3/4 18 6 1/2 7 1/2 22 1/2 2 22 1/2 3 3 1/4 11 1/2 1 1/2 11 1/2 4 5 1/2 11 1/2 15 3
- 48 1 13 24 11 1 1 10 30 30 4 5 1/2 11 1/2 15 3
- 30 24 1/2 6 1/2 12 5 1/2 5 1 1 5 15 2 2 1/2 12 1/2 7 1/2 1 1/2 15 3
- 45 36 3/4 9 3/4 18 6 1/2 7 1/2 36 25 1/2 3 3 1/4 11 1/2 1 1/2 11 1/2 4 5 1/2 11 1/2 15 3
- 60 48 1 13 24 11 1 1 10 48 34 4 5 1/2 11 1/2 15 3

**Colors**

- Legend: White (Reflected)
- Top: Red (Reflected)
- Bottom: Blue (Reflected)

**Florida Department of Transportation**

**Shields for Use on Guide Signs**

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**Recommended for Approval**

**Engineer**

**Traffic Operations Eng.**

**Dwightville**

**INDEX NO.**

**17-3-4-7**
TYPICAL INTERSECTION 2 THRU LANES
PLUS LEFT TURN LANE, WITH CROSSWALK

RIGHT TURN LANE (MUST TURN RIGHT)
(A LANE DROP)
BEGINNING OF A DIVIDED HIGHWAY

NOTE:
Raised pavement markers can be set in thermoplastic as shown below, or set two (2) inches inside painted or thermoplastic lines as shown in detail on the left.

PAVEMENT MARKINGS FOR TRAFFIC CHANNELIZATION AT GORE (TRAFFIC FLOWS IN SAME DIRECTION)

PAVEMENT MARKING FOR TRAFFIC SEPARATION (TRAFFIC FLOWS IN OPPOSITE DIRECTION)

4-LANE - 2-LANE TRANSITION - NO MEDIAN

NOTE:
Raised pavement markers (bi-directional) red and colorless I should be used wall types of this type.

FLORIDA DEPARTMENT OF TRANSPORTATION

SPECIAL MARKING AREAS

Pavement marking for traffic separation (traffic flows in same direction)