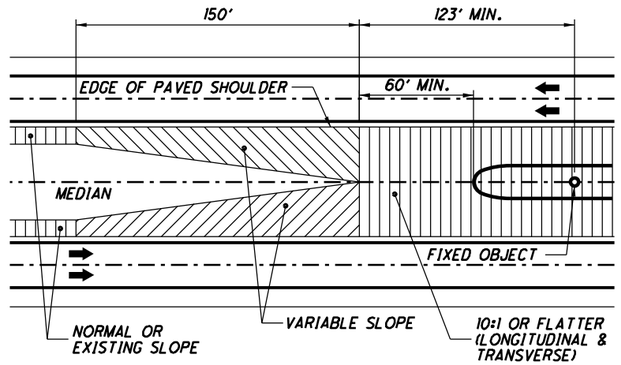
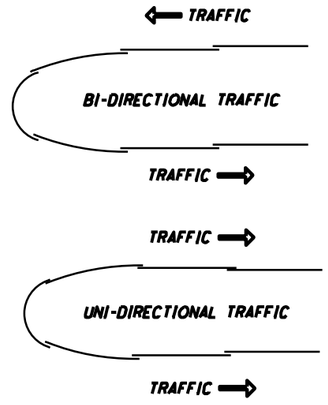
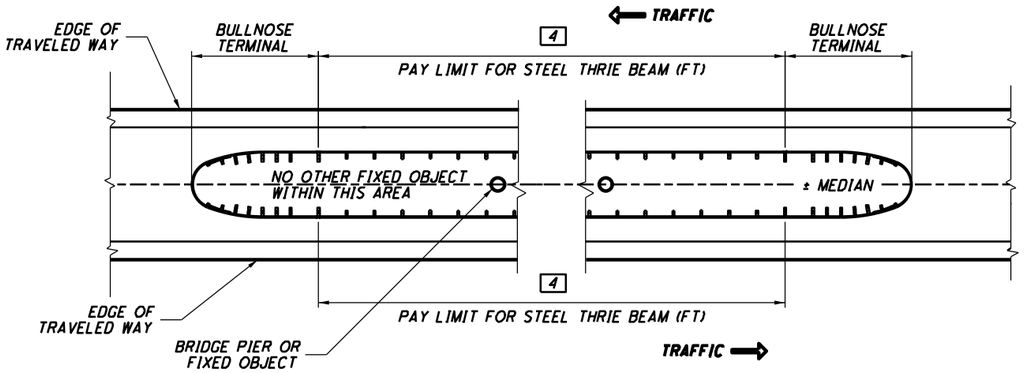


PLAN VIEW

GRADING AT BULLNOSE



LAPPING DETAIL



MEDIAN HAZARD PROTECTION PAY LIMITS

GENERAL NOTES

4' MINIMUM DEFLECTION FROM FACE OF RAIL TO THE FACE OF FIXED OBJECT.

PUNCHING, DRILLING, CUTTING OR WELDING IS NOT PERMITTED ON ANY GALVANIZED THRIE BEAM ACCESSORY OR TERMINAL ACCESSORY.

OTHER ANCHOR CABLE ASSEMBLIES HAVING 40,000 LBS. MIN. BREAKING STRENGTH MAY BE USED.

POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

THE USE OF STEEL POSTS ON THE BULLNOSE IS NOT ALLOWED.

BOLTS AND ALL NECESSARY HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

ALL THRIE BEAM SHALL BE 12-GAUGE.

(A) U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.

(B) NOSE CABLE W/SWAGGED END BUTTONS.

(C) NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).

(D) THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.

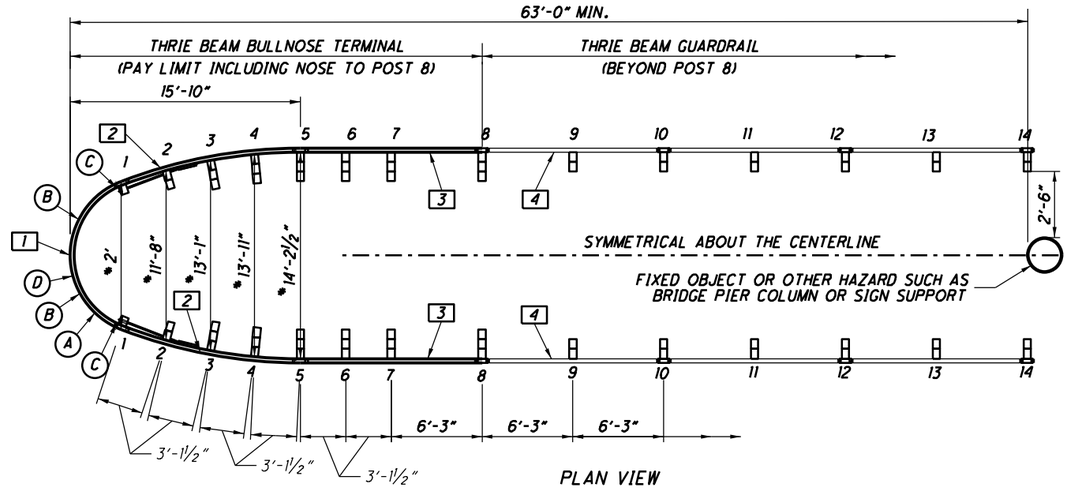
[1] SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)

[2] SLOTTED THRIE BEAM RAIL NO. 2A. (POST 1 TO POST 5)

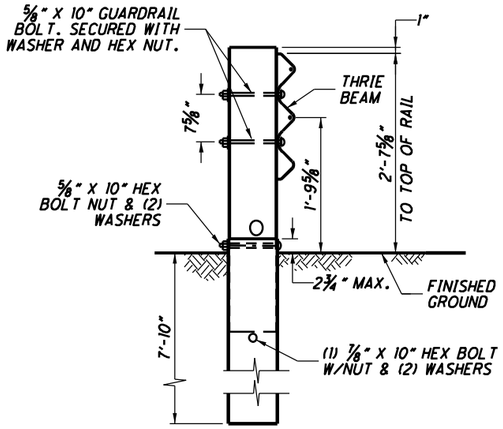
[3] SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)

[4] BEYOND POST 8: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 4.

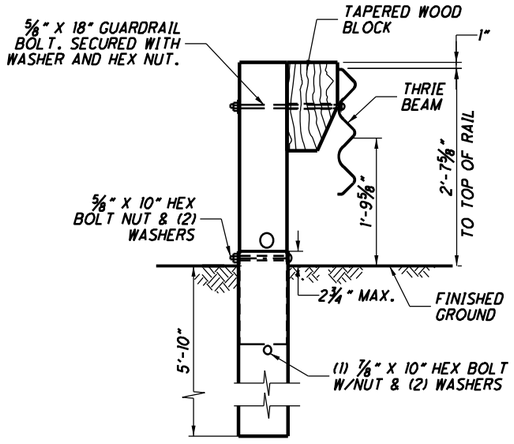
* DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE POSTS ARE BOLTED TO POST OR BLOCK



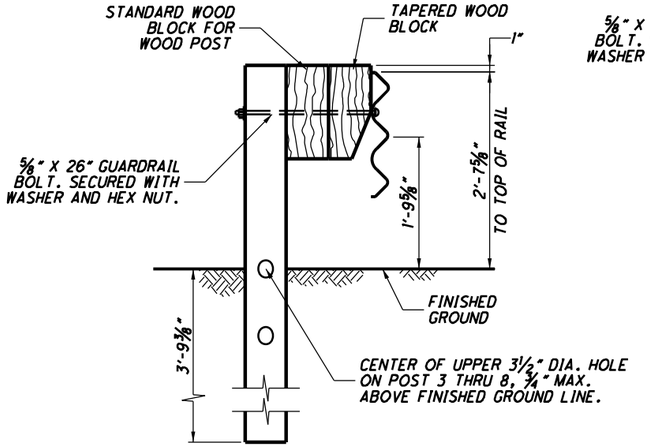
PLAN VIEW



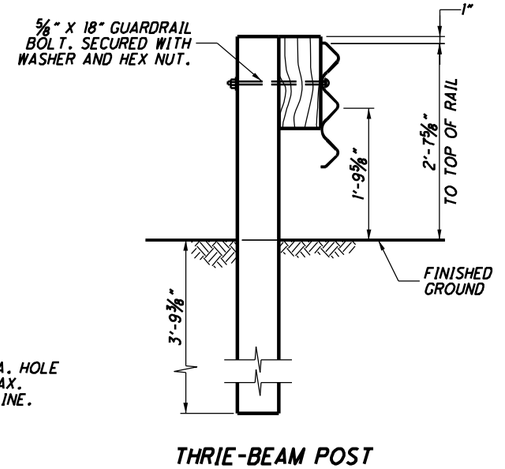
THRIE-BEAM BCT POST
(WITH 8'-0" FOUNDATION TUBE)
POST NO. 1



THRIE-BEAM BCT POST
(WITH 6'-0" FOUNDATION TUBE)
POST NO. 2



THRIE-BEAM CRT POST
(WITH 6'-6" LONG POST)
POST NO. 3,4,5,6,7, & 8



THRIE-BEAM POST
(6'-6" LONG POST)
POST NO. 9 AND BEYOND

THIS IS A NEW STANDARD DRAWING.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
1-20-12 DATE
ADMINISTRATOR

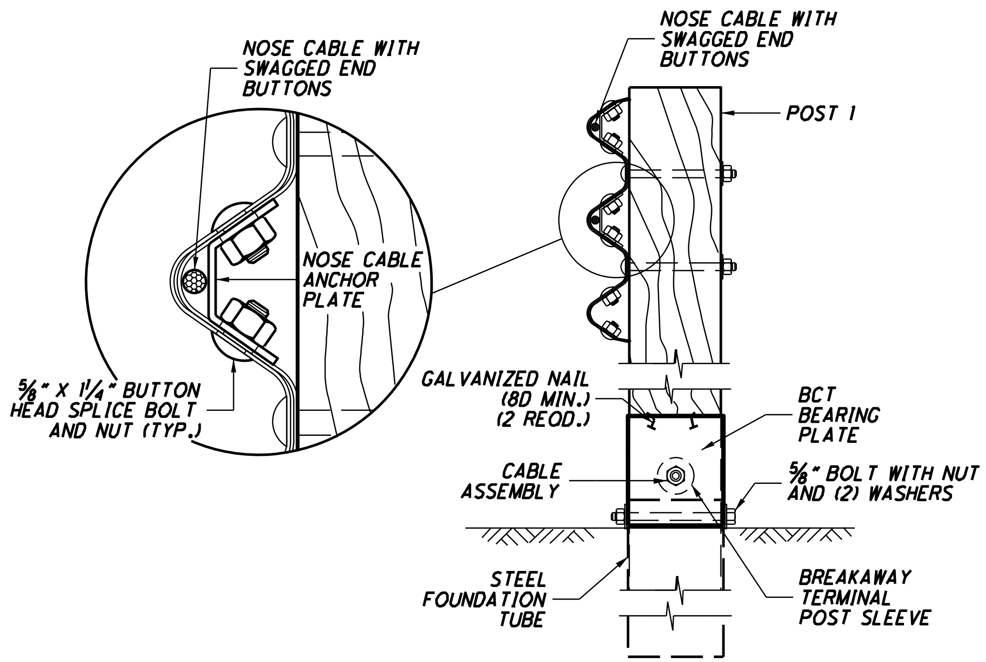
STDS. ENGINEER M. RUPPE

OFFICE OF ROADWAY ENGINEERING

STANDARD ROADWAY CONSTRUCTION DRAWING

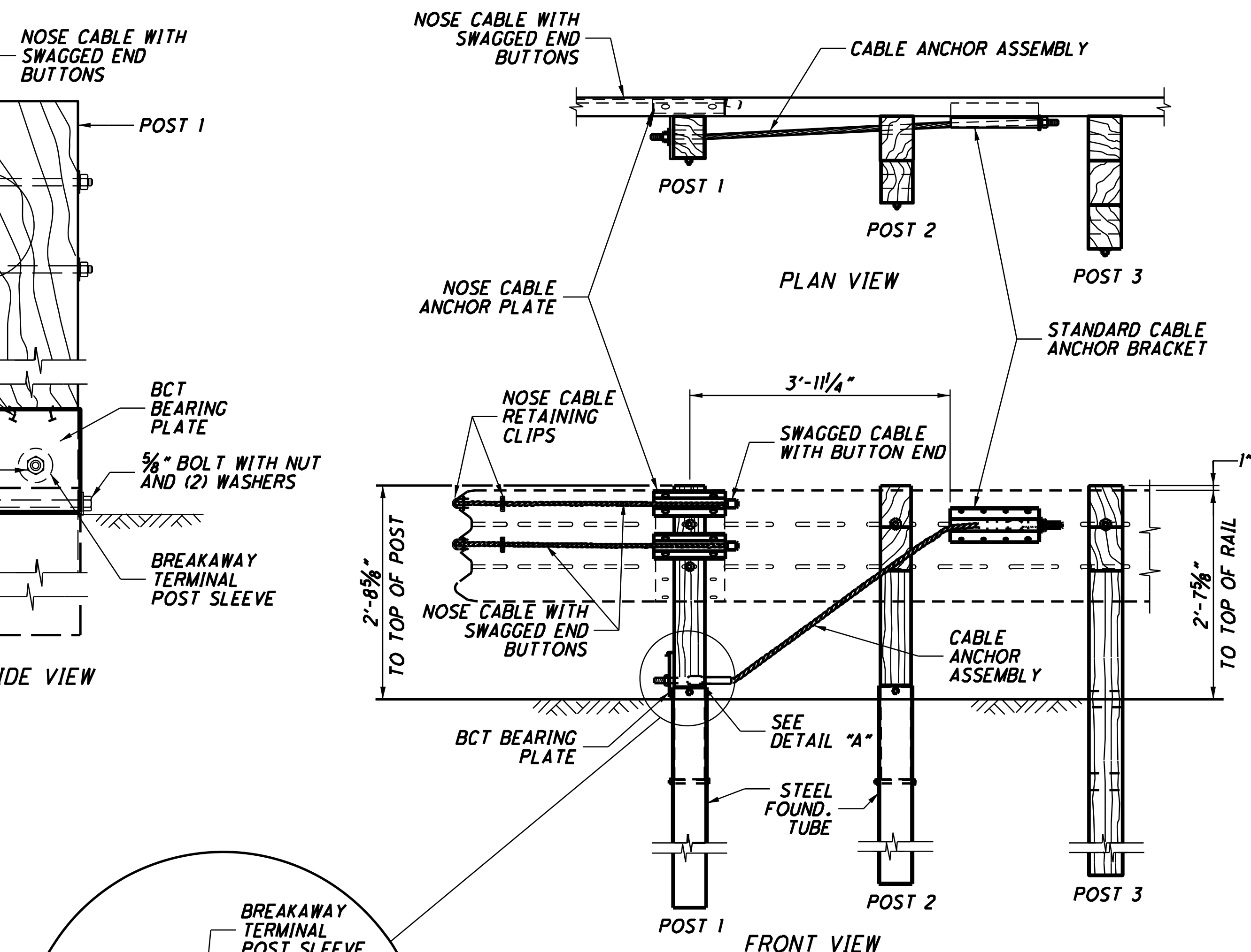
THRIE BEAM BULLNOSE AT BRIDGE PIERS

SCD NUMBER GR-6.3

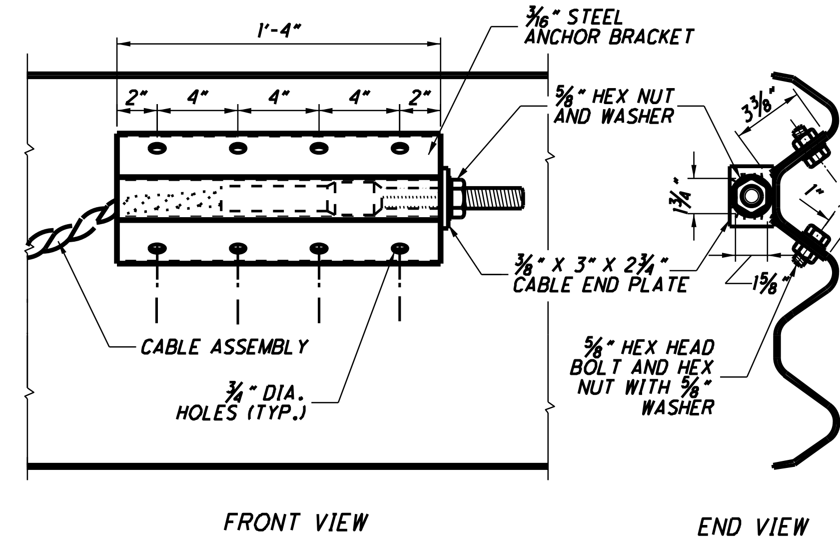


NOSE CABLE ASSEMBLY AT POST NO. 1

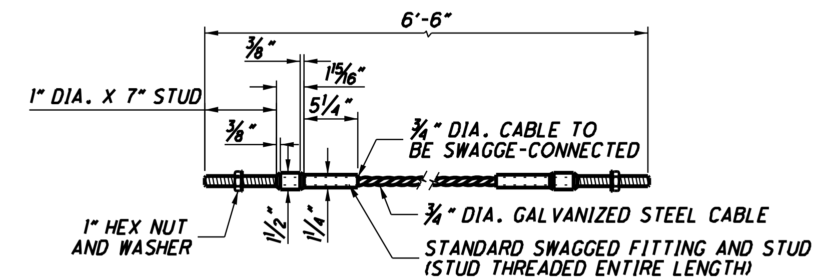
SIDE VIEW



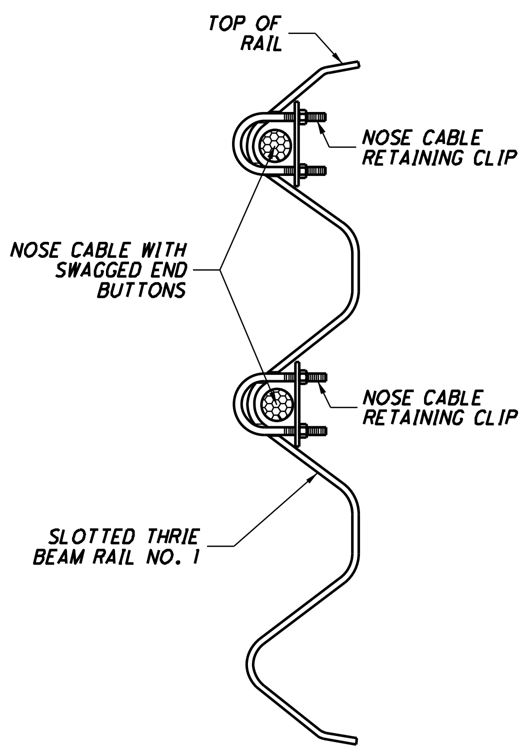
NOSE CABLE ANCHOR AND STANDARD BRACKET ASSEMBLY



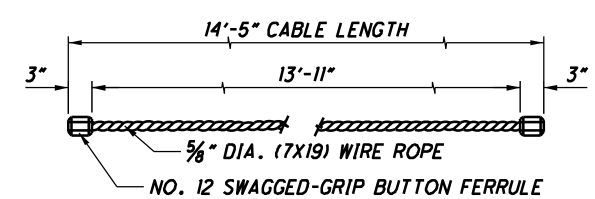
DETAILS OF STANDARD CABLE ANCHOR BRACKET



DETAILS OF CABLE ANCHOR ASSEMBLY

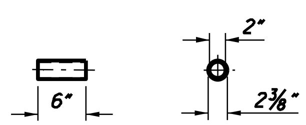


PLACEMENT OF NOSE CABLE RETAINING CLIP

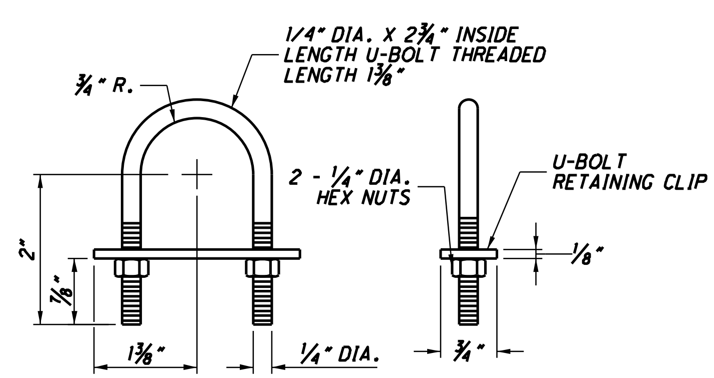


NOSE CABLE WITH SWAGGED END BUTTONS

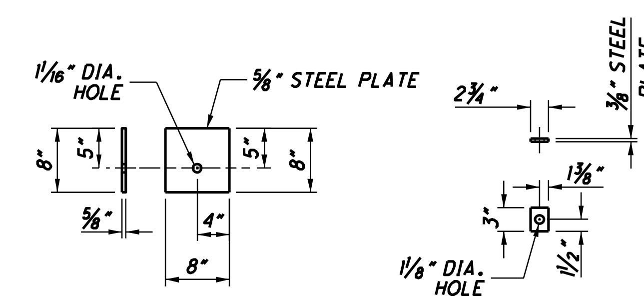
SWAGGED GRIP BUTTON FERRULE CONNECTIONS SHALL HOLD A FORCE EQUAL TO 98% OF THE WIRE ROPE'S BREAKING STRENGHT.



BREAKAWAY TERMINAL POST SLEEVE

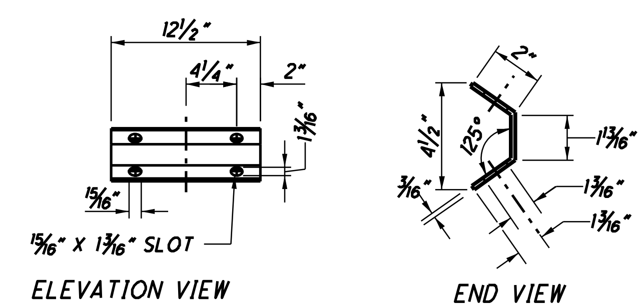


NOSE CABLE RETAINING CLIP



BCT BEARING PLATE

CABLE END PLATE



NOSE CABLE ANCHOR PLATE

NOTE: 12 1/2" X 5 13/16" X 3/16" STEEL PLATE (A306)

THIS IS A NEW STANDARD DRAWING.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ADMINISTRATOR

1-20-12
DATE

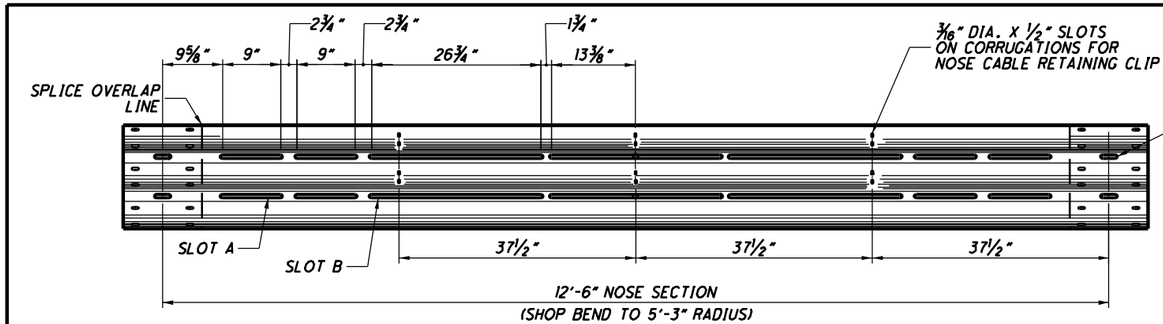
STDS. ENGINEER M. RUPPE

OFFICE OF ROADWAY ENGINEERING

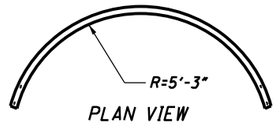
STANDARD ROADWAY CONSTRUCTION DRAWING

THRIE BEAM BULLNOSE AT BRIDGE PIERS

SCD NUMBER GR-6.3

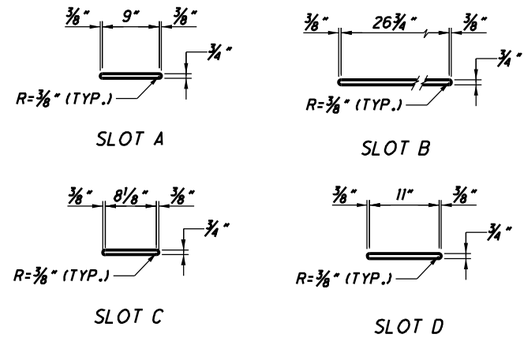


SLOTTED THRIE BEAM RAIL NO. 1



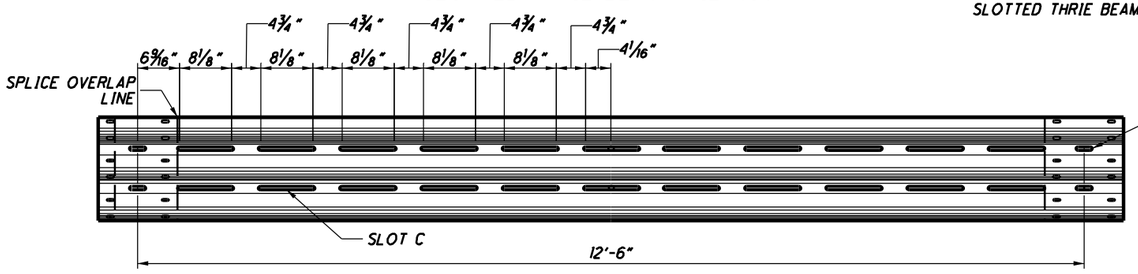
PLAN VIEW

SLOTTED THRIE BEAM RAIL NO. 1



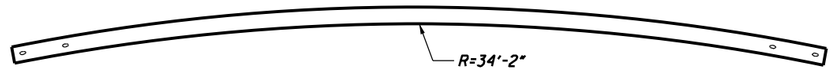
SLOT DETAILS

SLOTTED THRIE BEAM RAIL DIMENSIONS SHOWN ARE BEFORE BENDING TO THE RADIUS SHOWN.



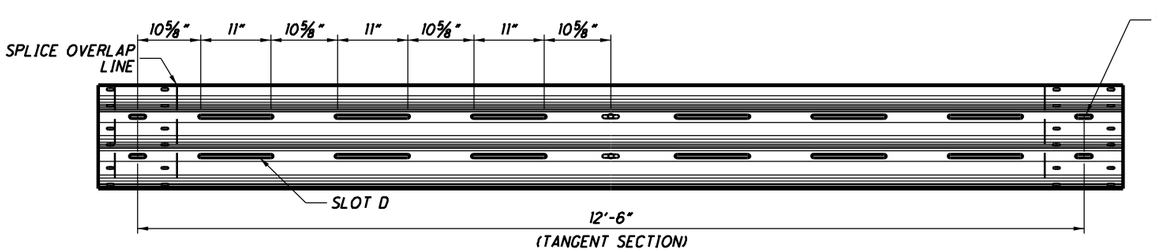
(SHOP BEND TO 34'-2" RADIUS FOR RAIL NO. 2)

SLOTTED THRIE BEAM RAILS NO. 2

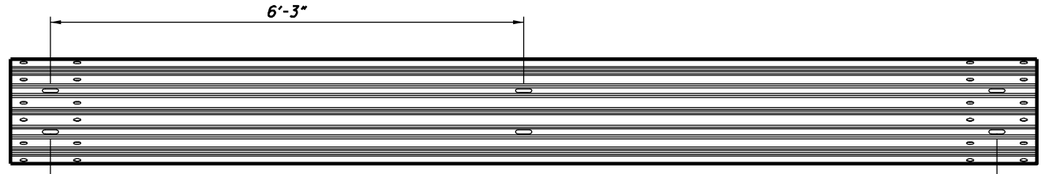


PLAN VIEW

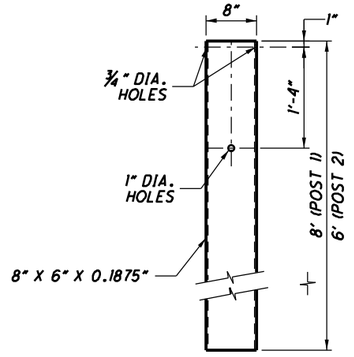
SLOTTED THRIE BEAM RAIL NO. 2



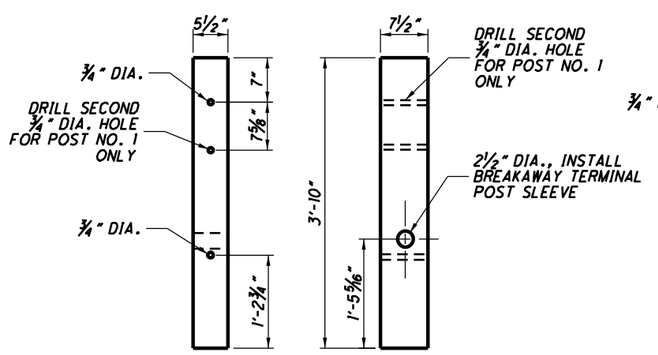
SLOTTED THRIE BEAM RAIL NO. 3



UNBENT STANDARD THRIE BEAM RAIL NO. 4

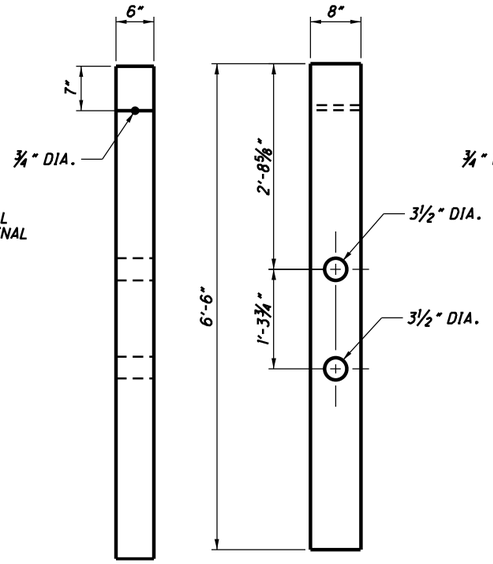


STEEL FOUNDATION TUBE



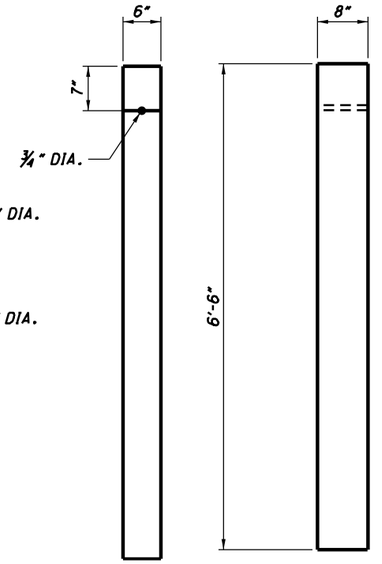
FRONT VIEW SIDE VIEW

THRIE-BEAM BCT POSTS



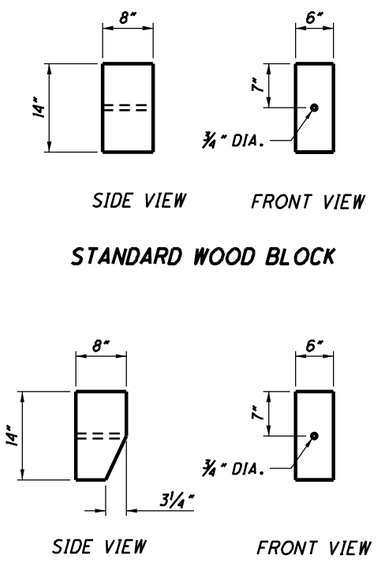
FRONT VIEW SIDE VIEW

THRIE-BEAM CRT WOOD POSTS



FRONT VIEW SIDE VIEW

THRIE-BEAM WOOD POSTS



SIDE VIEW FRONT VIEW

STANDARD WOOD BLOCK

SIDE VIEW FRONT VIEW

TAPERED WOOD BLOCK

THIS IS A NEW STANDARD DRAWING.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

1-20-12 DATE

ADMINISTRATOR

STDS. ENGINEER M. RUPPE

OFFICE OF ROADWAY ENGINEERING

STANDARD ROADWAY CONSTRUCTION DRAWING

THRIE BEAM BULLNOSE AT BRIDGE PIERS

SCD NUMBER GR-6.3