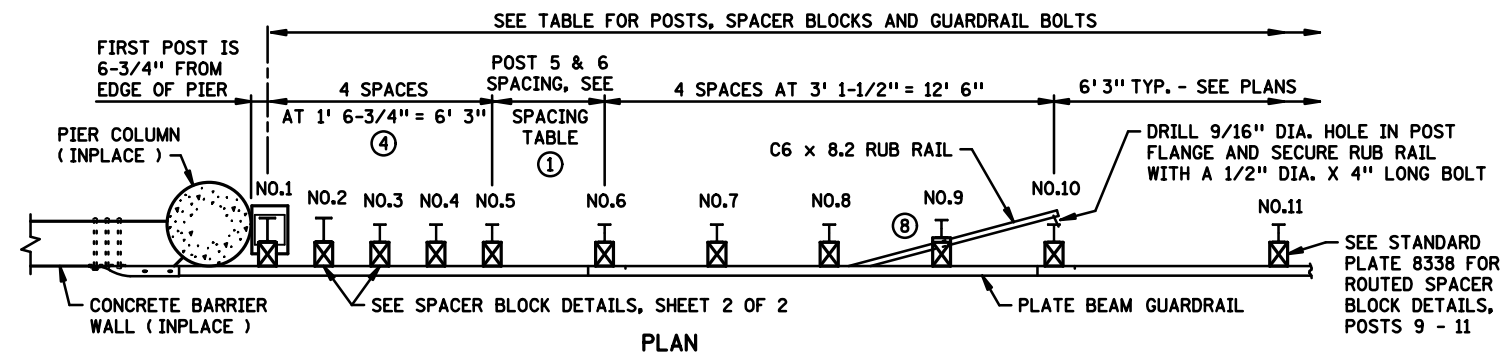


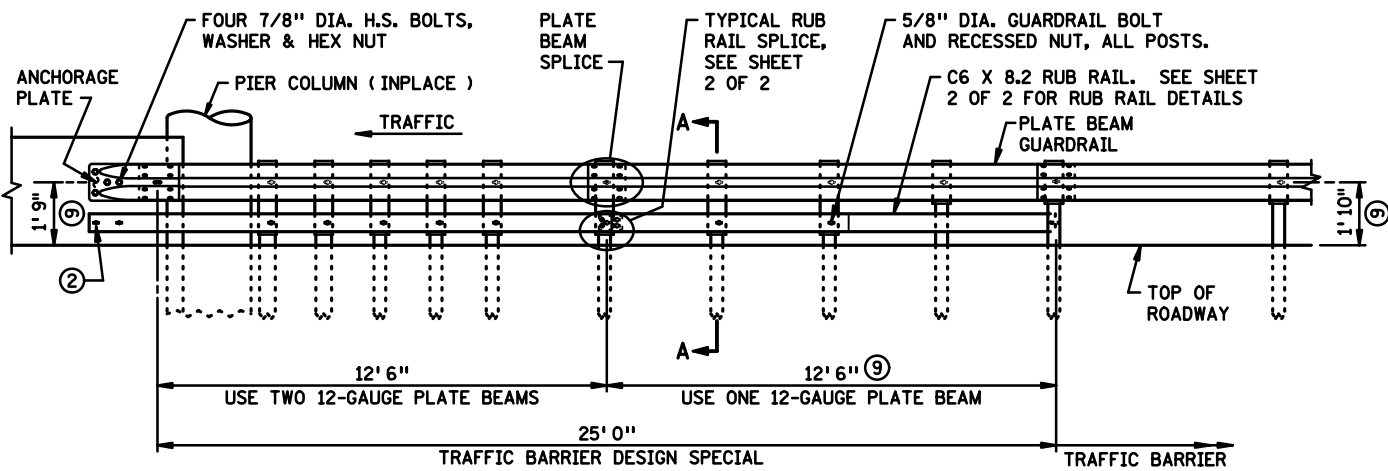
PLAN VIEW



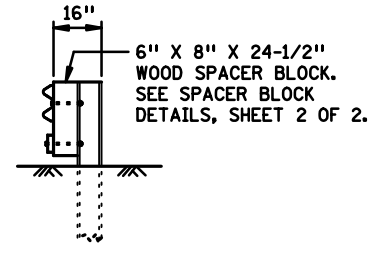
PLAN

POST SPACING TABLE ①

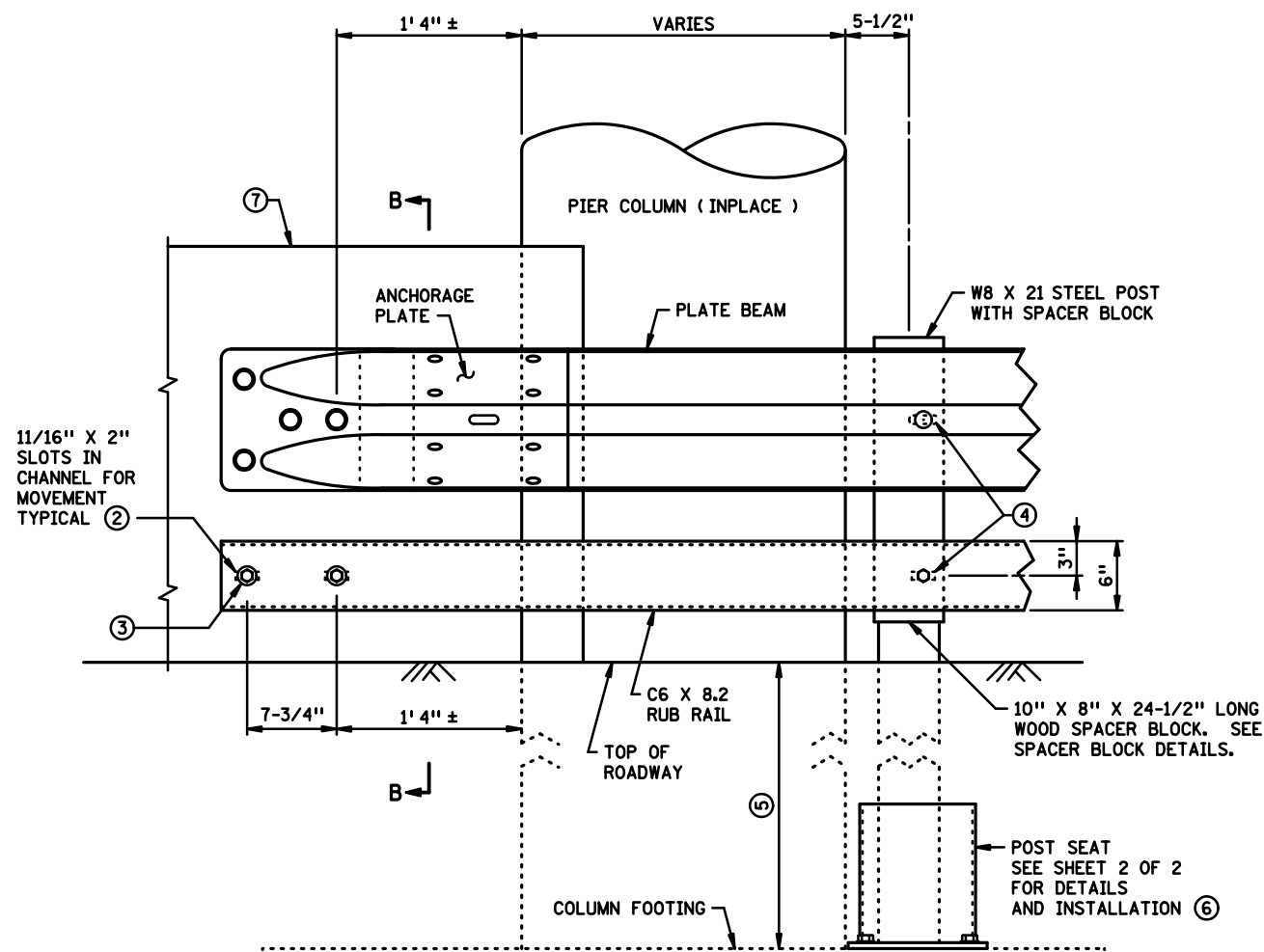
PIER COLUMN DIA.	SPACING BETWEEN POSTS 5 & 6
28"	3' 1"
30"	2' 11"
32"	2' 9"
34"	2' 7"
36"	2' 5"
38"	2' 3"
40"	2' 1"
42"	1' 11"
44"	1' 9"
46"	1' 7"



ELEVATION

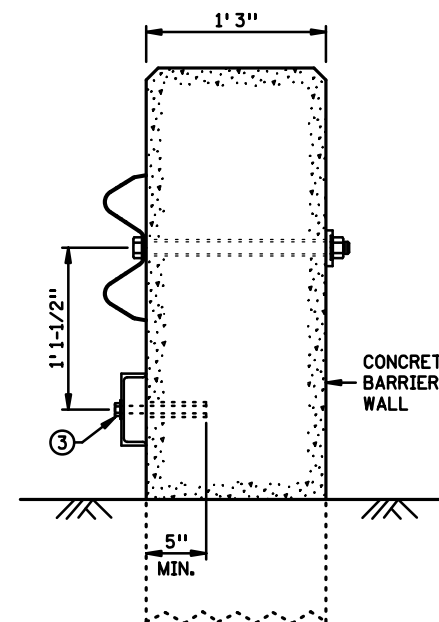


SECTION A-A



ELEVATION

RAIL ATTACHMENT DETAILS



SECTION B-B  
(REINFORCEMENT NOT SHOWN)

NOTES:

ALL STRUCTURAL STEEL AND HARDWARE SHALL MEET THE REQUIREMENTS OF SPEC. 2554 (AASHTO M180).  
SEE STANDARD PLATES MANUAL FOR GUARDRAIL DETAILS, UNLESS OTHERWISE NOTED.

POST, SPACER BLOCK & BOLT TABLE

DESCRIPTION	POST NO.	SIZE
POST	1 & 2	W8 X 21 X 8' 0" MIN. LONG
	3 - 11	W6 X 9 X 6' 0" MIN. LONG
SPACER BLOCK	1 - 8	6" X 8" X 24-1/2"
	9 - 11	6" X 8" X 14"
GUARDRAIL BOLT & RECESSED NUT	1 - 11	5/8" DIA. X 10" - GUARDRAIL
	1 - 8	5/8" DIA. X 12" - RUB RAIL

- ① THE SPACING BETWEEN POSTS 5 AND 6 SHALL BE 1' 6-3/4" MINIMUM AND 3' 1-1/2" MAXIMUM.
- ② END SHOE REQUIRED IF TWO WAY TRAFFIC AND NO MEDIAN.
- ③ 5/8" DIA. HEX HEAD BOLT, ROUND WASHER, WITH AN APPROVED CONCRETE ANCHOR. GALVANIZE PER SPEC. 3392.
- ④ FIELD PUNCH SLOTS FOR POSTS NO. 1, 2, 3, 4, & 5.
- ⑤ IF EMBEDMENT IS GREATER THAN 3' 0" OR IF EMBEDMENT IS 2' 6" TO 3' 0" AND ADJACENT POSTS ARE EMBEDDED 3' 0" OR MORE, THE POST SEAT IS NOT REQUIRED.
- ⑥ CHECK PIER COLUMN FOOTING SIZE FOR ADEQUATE SUPPORT OF POST SEAT IF REQUIRED.
- ⑦ SEE BARRIER WALL DETAILS.
- ⑧ ADDITIONAL BLOCKING REQUIRED AT POST NO. 9.
- ⑨ GUARDRAIL CENTERLINE HEIGHT IS 1'-9" FROM 0' TO 12'-6" FROM BARRIER WALL. HEIGHT TRANSITIONS FROM 1'-9" TO 1'-10" BETWEEN 12'-6" AND 25' FROM BARRIER WALL.

TRAFFIC BARRIER DESIGN SPECIAL

W-BEAM TRANSITION TO PIER COLUMNS  
WITHOUT APPROACH CURB - (STEEL POST)

APPROVED: 11-17-2016  
REVISED:

*Tom Styrbicki*  
THOMAS STYRBICKI  
STATE DESIGN ENGINEER

STANDARD PLAN  
5-297.684

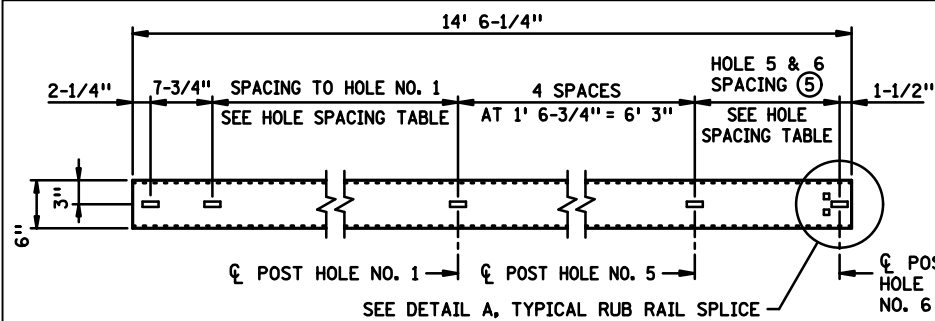
1 OF 2



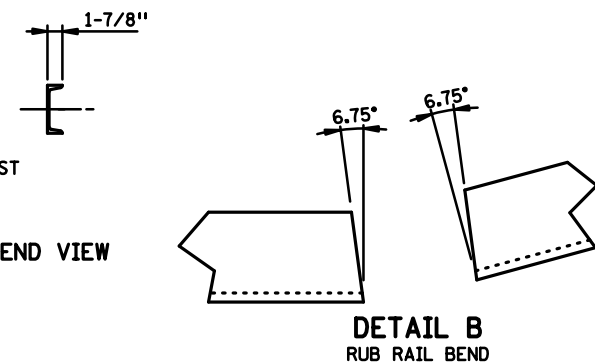
STANDARD PLAN

STATE PROJ. NO.  
TRUNK HWY.

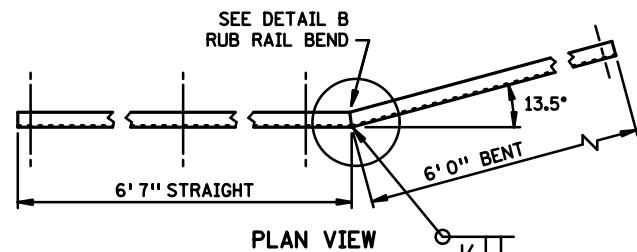
SHEET NO.  
TOTAL SHEETS



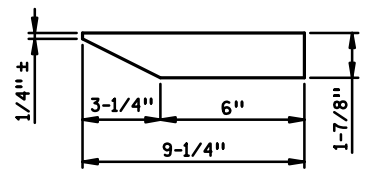
ELEVATION  
RUB RAIL STRAIGHT SECTION  
NON-STANDARD RUB RAIL LENGTH



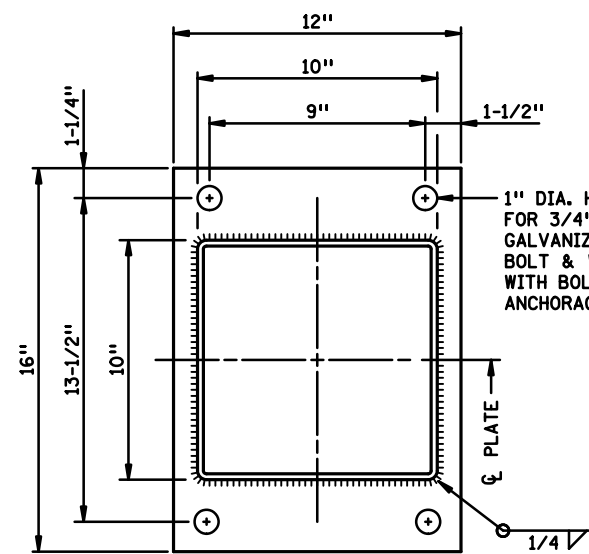
DETAIL B  
RUB RAIL BEND



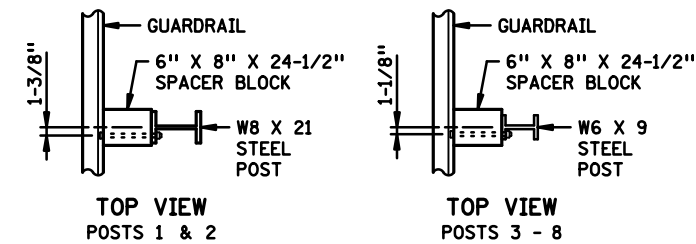
PLAN VIEW



TOP & BOTTOM PLATES

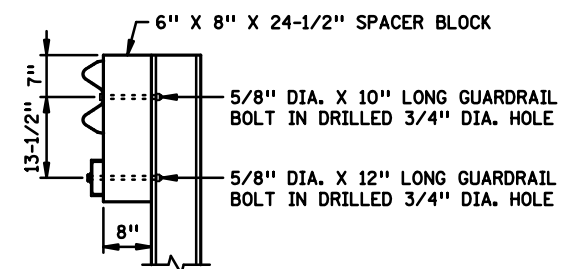


TOP VIEW



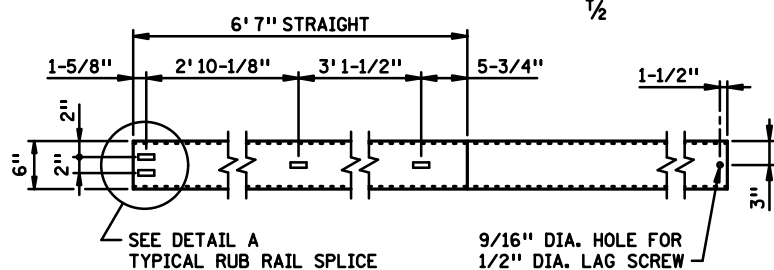
TOP VIEW  
POSTS 1 & 2

TOP VIEW  
POSTS 3 - 8

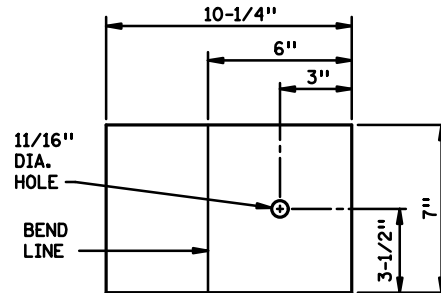


END VIEW

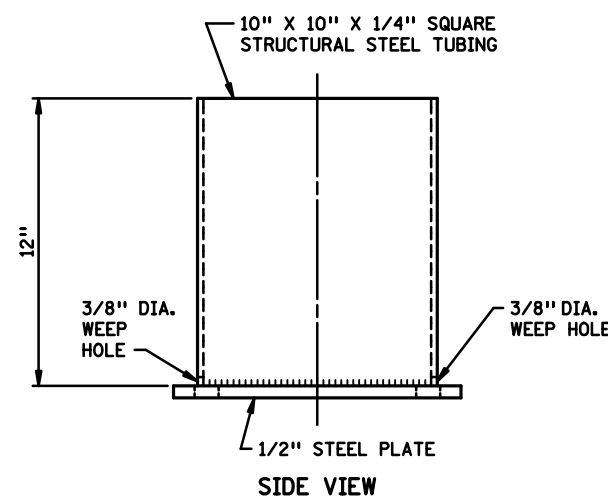
SPACER BLOCK DETAILS  
POSTS 1 - 8



ELEVATION  
RUB RAIL BENT SECTION  
NON-STANDARD RUB RAIL LENGTH



FRONT PLATE  
END SHOE PLATE DETAILS  
(6 mm PLATE)



SIDE VIEW  
POST SEAT DETAILS  
10" SQUARE POSTS

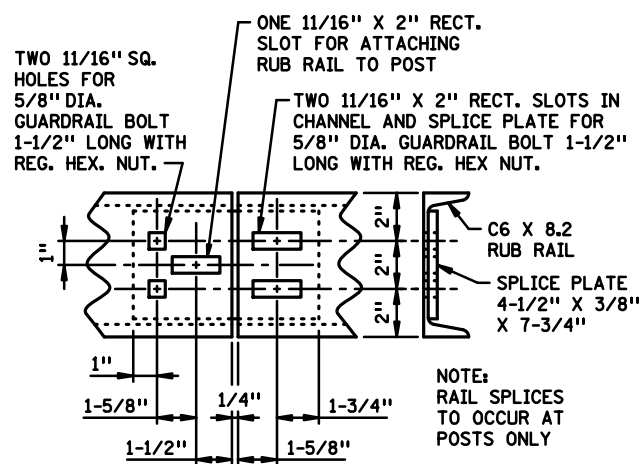
RUB RAIL HOLE SPACING TABLE ①

PIER SIZE ROUND DIA. RECTANGLE OR SQ. SIDE	SPACING TO POST HOLE NO. 1	SPACING BETWEEN POST HOLES 5 AND 6
28"	4' 2-3/4"	3' 1"
30"	4' 4-3/4"	2' 11"
32"	4' 6-3/4"	2' 9"
34"	4' 8-3/4"	2' 7"
36"	4' 10-3/4"	2' 5"
38"	5' 0-3/4"	2' 3"
40"	5' 2-3/4"	2' 1"
42"	5' 4-3/4"	1' 11"
44"	5' 6-3/4"	1' 9"
46"	5' 8-3/4"	1' 7"

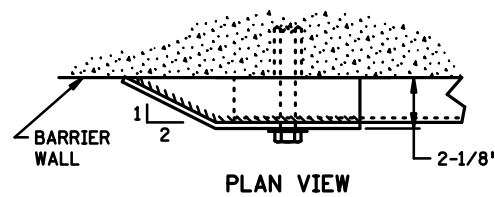
NOTES:

- GALVANIZE POST SEAT AFTER FABRICATION PER SPEC. 3394.
- SEE SPEC. 3306 FOR STRUCTURAL POST SEAT STEEL REQUIREMENTS.
- GALVANIZE ALL HARDWARE PER SPEC. 3392.
- USE END SHOE ON RUB RAIL IF TWO WAY TRAFFIC WITH NO MEDIAN.
- RUB RAIL IS C6 x 8.2
- STRUCTURAL STEEL TO BE 3306 UNLESS OTHERWISE NOTED.
- ALL SLOTTED HOLES ARE 11/16" x 2".
- ALL SQUARE HOLES ARE 11/16".
- GALVANIZE STRUCTURAL SHAPES PER SPEC. 3394 AFTER FABRICATION UNLESS OTHERWISE NOTED.

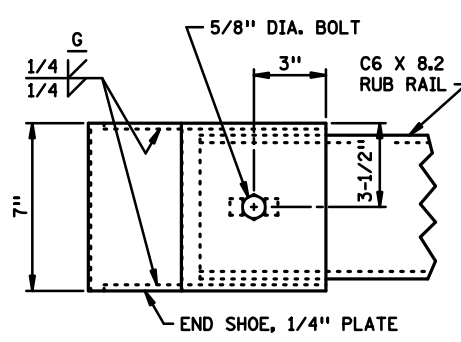
- ① THE SPACING BETWEEN POST HOLES 5 AND 6 SHALL BE 1' 6-3/4" MINIMUM AND 3' 1-1/2" MAXIMUM.
- ② NON-STANDARD LENGTHS, SEE RUB RAIL DETAILS FOR STRAIGHT AND BENT SECTIONS.
- ③ IF EMBEDMENT IS GREATER THAN 3' 0" OR IF EMBEDMENT IS 2' 6" TO 3' 0" AND ADJACENT POSTS ARE EMBEDDED 3' 0" OR MORE, POST SEAT IS NOT REQUIRED.
- ④ 3/4" BOLT ANCHORAGES FOR FASTENING POST SEAT SHALL HAVE AN ULTIMATE PULL OUT STRENGTH OF AT LEAST 13,500 LBS. AND SHALL BE PLACED IN SOUND CONCRETE TO A DEPTH OF 6-1/2" MINIMUM.



DETAIL A  
TYPICAL RUB RAIL SPLICE

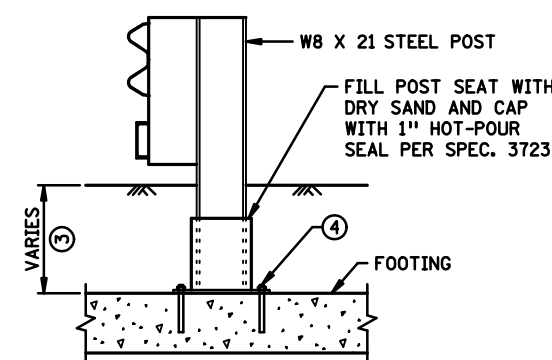


PLAN VIEW



ELEVATION

RUB RAIL END SHOE ASSEMBLY  
(USE IF TWO WAY TRAFFIC WITH NO MEDIAN)



ELEVATION OF POST SEAT INSTALLATION

TRAFFIC BARRIER DESIGN SPECIAL

W-BEAM TRANSITION TO PIER COLUMNS  
WITHOUT APPROACH CURB - (STEEL POST)

APPROVED: 11-17-2016  
REVISED:

THOMAS STYRBICKI  
STATE DESIGN ENGINEER

STANDARD  
PLAN  
5-297.684

2 OF 2



STANDARD PLAN

STATE PROJ. NO.  
TRUNK HWY.

SHEET NO.  
TOTAL SHEETS