

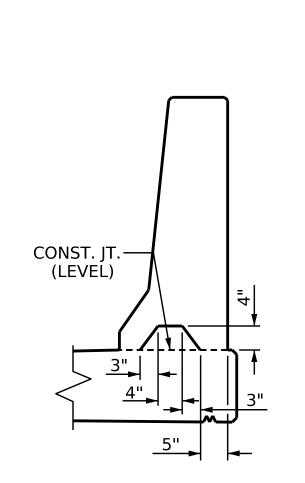
33/8"

NOTES

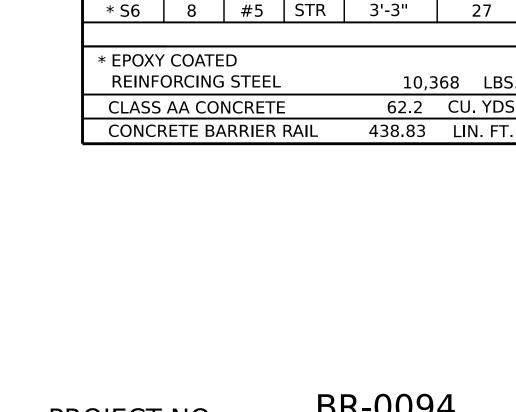
- THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- WHEN FOAM JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.
- ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S5 AND S6 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S5 AND S6 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

GROOVED CONTRACTION JOINTS, ½" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.



SECTION S-S AT DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)



BR-0094 PROJECT NO. _ ROCKINGHAM COUNTY 20+38.70 -L-STATION:

BAR TYPES

2

164

176

4436

153

140

2075

3168

29

27

10,368 LBS

3¹⁄₄" S5

ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

22 | #5 | STR

22 | #5 | STR

176 | #5 | STR

#5

#5 | STR

#5 | STR

2

3

22

22

*S1 | 434 | #5

434 #5

* B1

* B2

* B3

* B4

* B5

* S2

* S5

NO. | SIZE | TYPE | LENGTH | WEIGHT

7'-2"

7'-8"

24'-2"

6'-8"

6'-1"

4'-7"

7'-0"

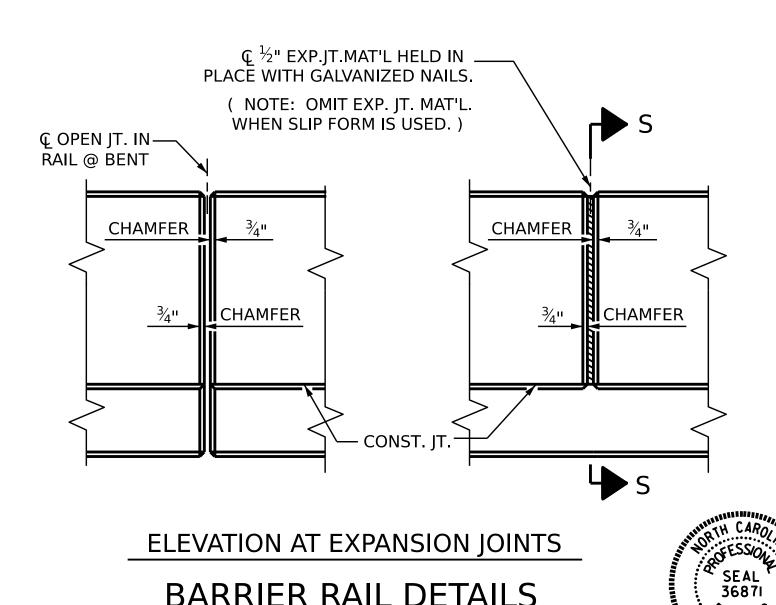
3'-5"

8⁷⁄16".

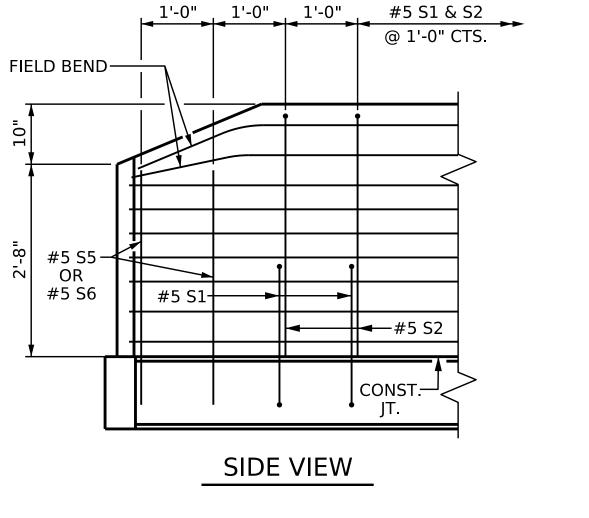
<u>8"</u>

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD CONCRETE **BARRIER RAIL**

SHEET NO REVISIONS S-17 DATE: DATE: TOTAL SHEETS



BARRIER RAIL DETAILS



END OF RAIL DETAILS

 $1\frac{1}{2}$ " EXT.

CONST.JT. (LEVEL)

FOR ADHESIVE ANCHORING AT SAWED JOINTS

Q. T. NGUYEN DATE : 08/2022 S. MATTA DATE : 09/2022 ASSEMBLED BY: CHECKED BY: MAA/GM MAA/GM MAA/THC REV. 7/12 REV. 6/13 REV. 12/17 DRAWN BY: ARB 5/87 CHECKED BY: SJD 9/87

SECTION THRU RAIL

_3%"

_2³/₄" CL.

#5 S1 @ 1'-0'' CTS.

CONST. JT.

2- 1"∆GROOVES

BEAM BOLSTER IN SLAB OVERHANG

(LEVEL)

__#5 S2 @ 1'-0'' CTS.

 $1\frac{1}{2}$ " EXT.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

AVCESCA

11/16/2022

Francesca lea

11/10/2022 R:\Structures\Plans\401_031_BR0094_SMU_BR_S17_780069.dgn

2³/₄" CL.

END VIEW

STD. NO. CBR1 (SHT 3)