

PLAN OF CONCRETE BARRIER RAIL

NOTES

THE BARRIER RAIL IN EACH CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

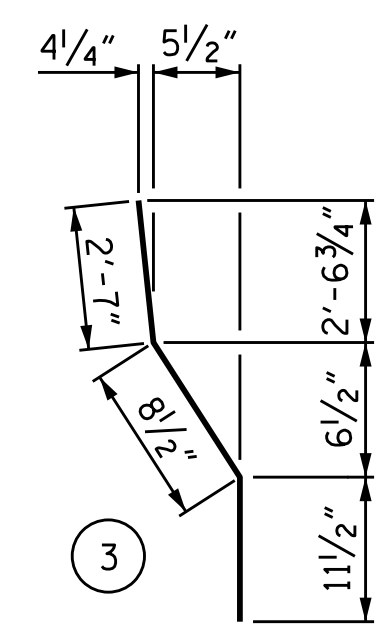
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, 1/2" 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.

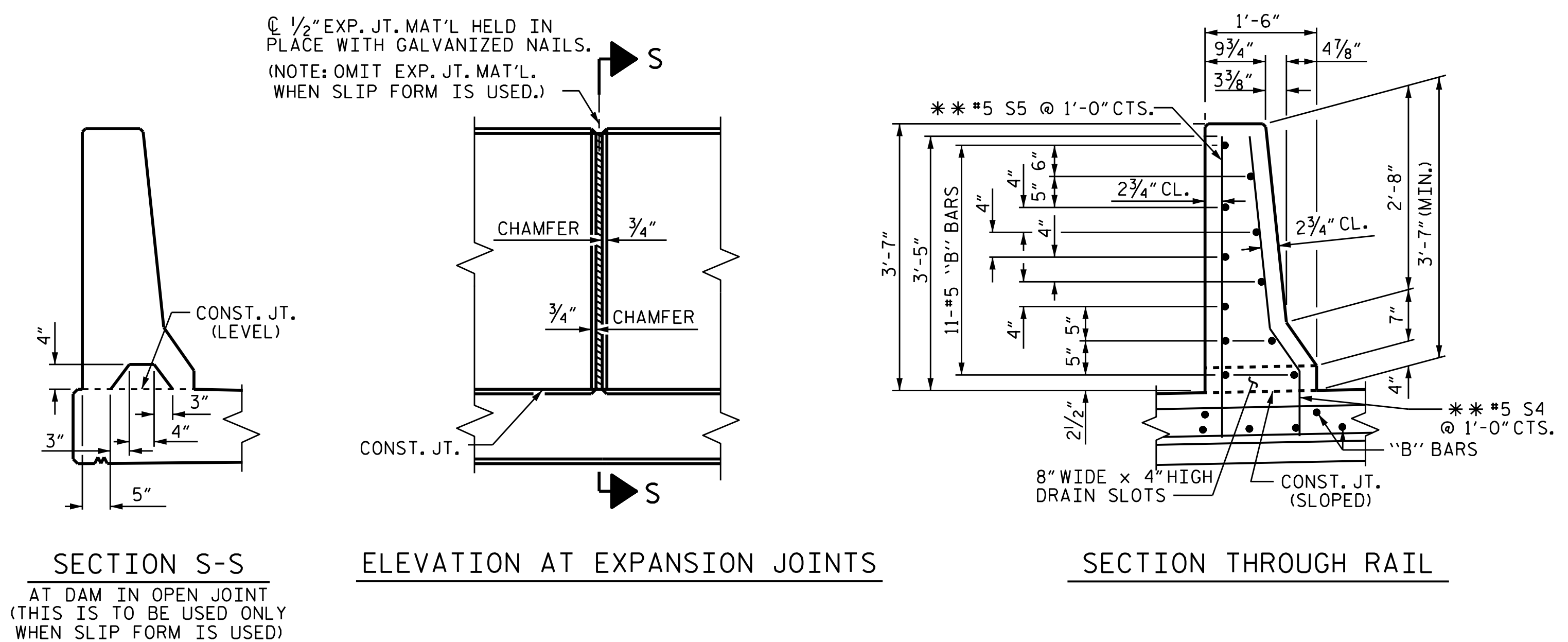
LONGITUDNAL BARS IN THE RAIL MAY BE FIELD CUT TO AVOID DRAIN SLOTS.

**** THE CONTRACTOR MAY USE ADHESIVELY ANCHORED #5 S4 & S5 BARS. LEVEL 2 FIELD TESTING IS REQUIRED, AND THE YIELD LOAD OF THE #5 S4 & S5 IS 18.6 KIPS. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE STANDARD SPECIFICATIONS.**

BAR TYPE		BILL OF MATERIAL				
FOR CONCRETE BARRIER RAIL ONLY						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
* B1	22	#5	STR	15'-8"	359	
* B2	66	#5	STR	27'-7"	1899	
* B3	22	#5	STR	12'-8"	291	
* S4	218	#5	3	4'-3"	966	
* S5	218	#5	STR	4'-1"	928	
* EPOXY COATED REINFORCING STEEL					LBS.	4,443
CLASS AA CONCRETE					C.Y.	30.9
CONCRETE BARRIER RAIL					LIN. FT.	218.22



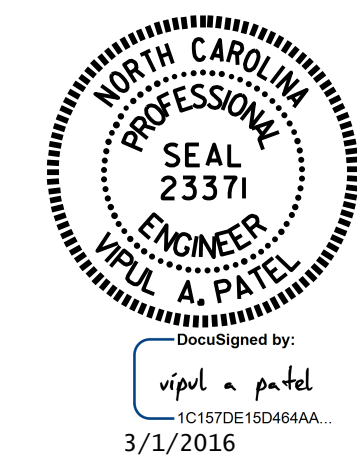
ALL BAR DIMENSIONS ARE OUT TO OUT.



BARRIER RAIL DETAILS

PROJECT NO. B-5123
CABARRUS COUNTY
 STATION: 21+44.10 -L-

SHEET 1 OF 2



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

3'-7" CONCRETE BARRIER RAIL

(LEFT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			74

ASSEMBLED BY : K. D. LAYNE DATE : 8/7/15
 CHECKED BY : N. D'AIUTO DATE : 9/10/15

01-MAR-2016 10:50
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 ndaluto

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STR. #1 STD. NO. CBR1