

**PLAN**

(RIGHT RAIL SHOWN. LEFT RAIL SIMILAR.)

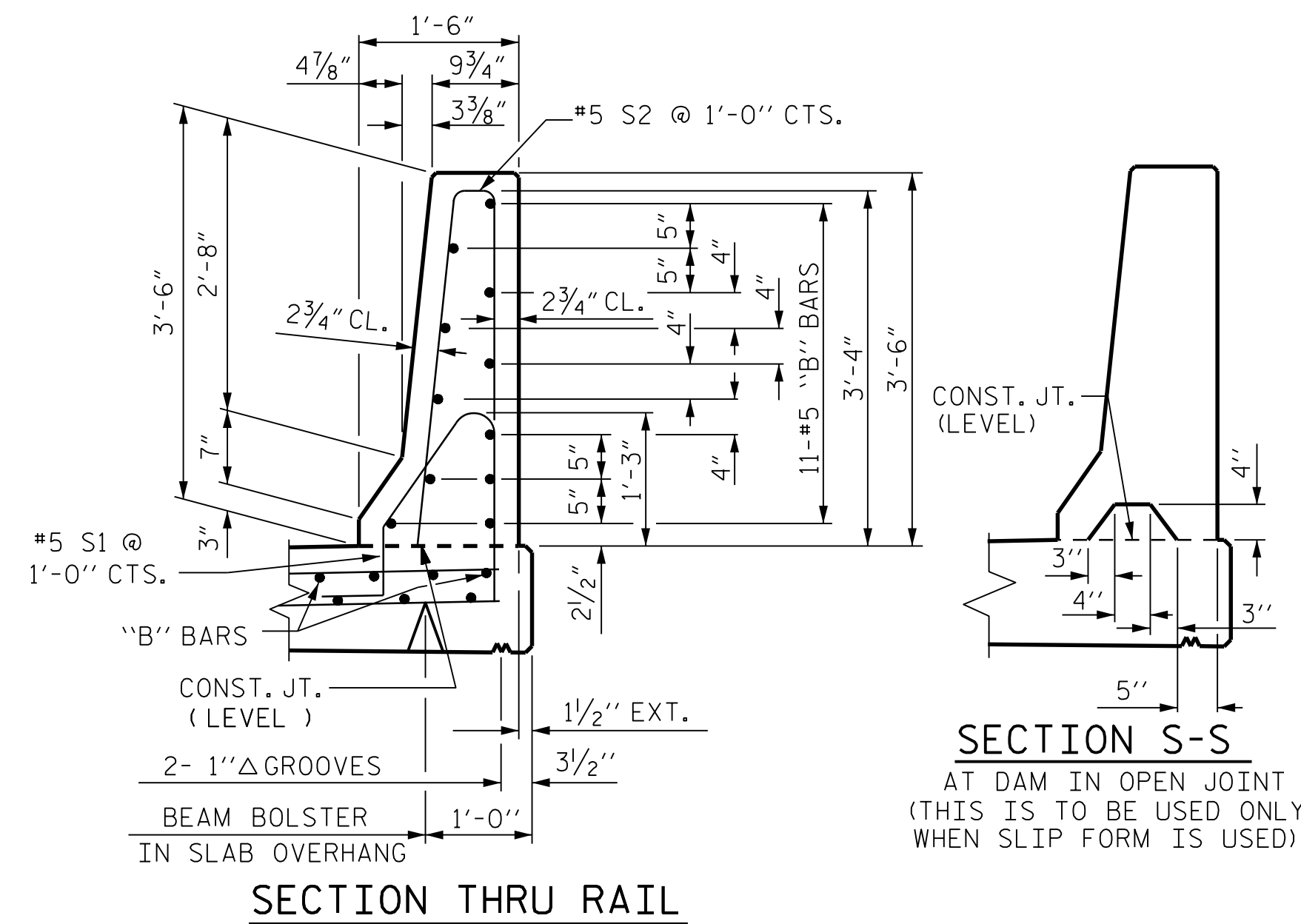
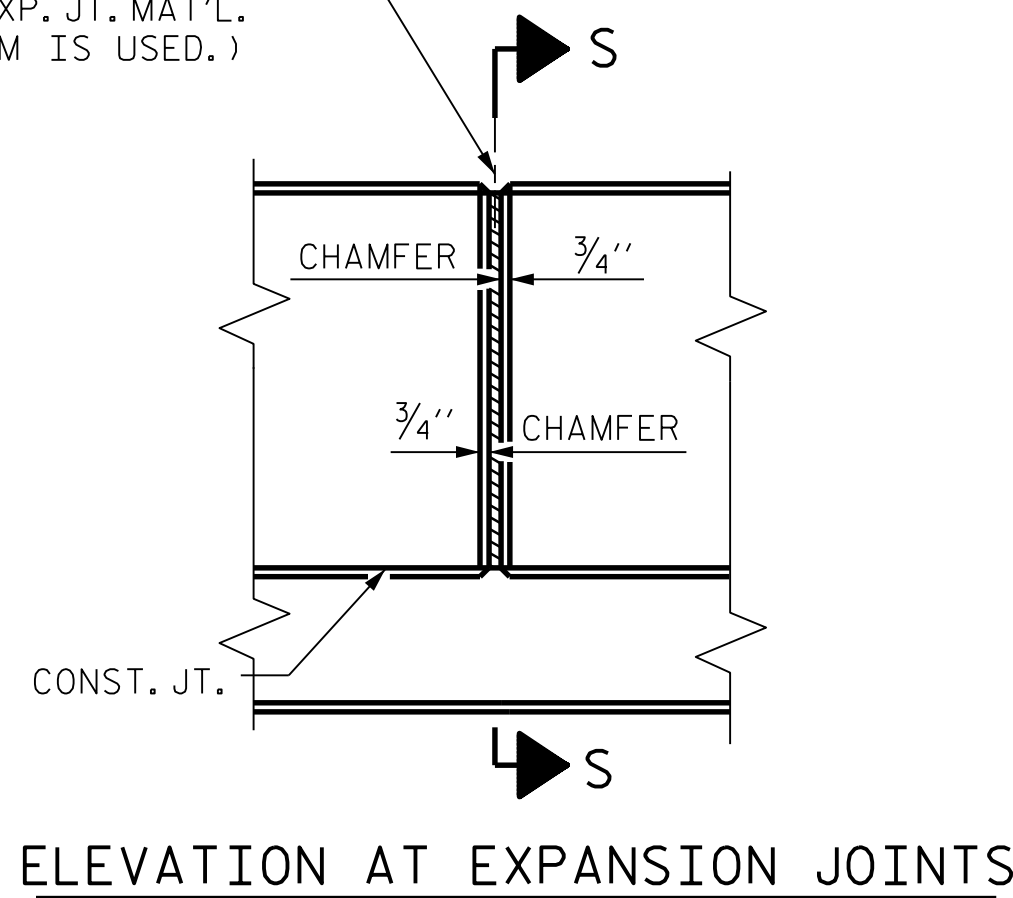
**NOTES**

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.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

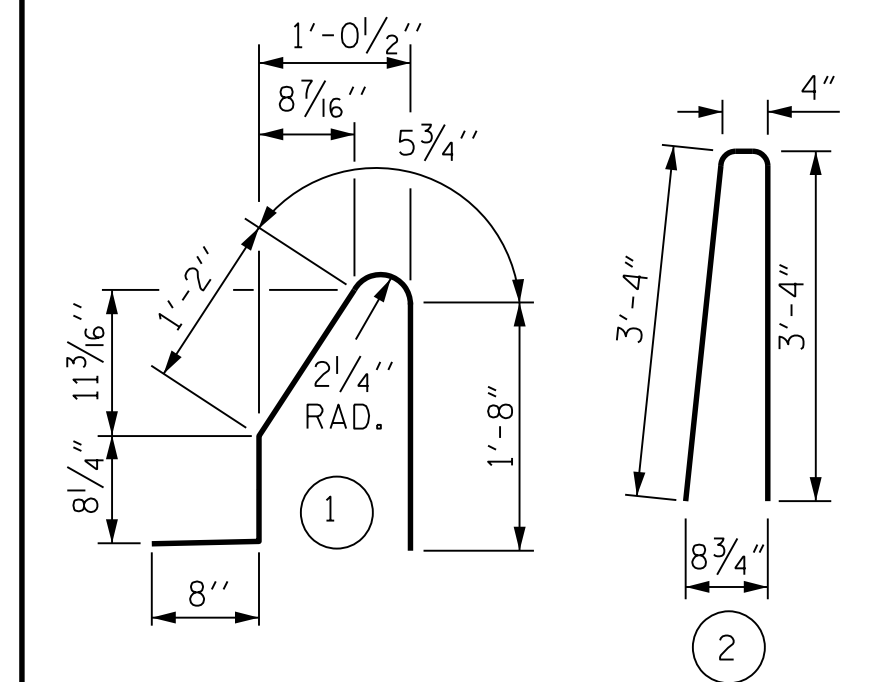
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS, THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS 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.

1/2" EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS.  
(NOTE: OMIT EXP. JT. MAT'L. WHEN SLIP FORM IS USED.)



**BARRIER RAIL DETAILS**

**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT TO OUT

**BILL OF MATERIAL**

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*B1	44	#5	STR	18'-7"	853
*B2	88	#5	STR	22'-1"	2027
*S1	260	#5	1	4'-8"	1266
*S2	260	#5	2	7'-0"	1898

* EPOXY COATED REINFORCING STEEL	6,044 LBS.
CLASS AA CONCRETE	34.9 CU. YD.
CONCRETE BARRIER RAIL	256.6 LIN. FT.

PROJECT NO. R-2915B  
ASHE COUNTY  
STATION: 198+64.50 -L-

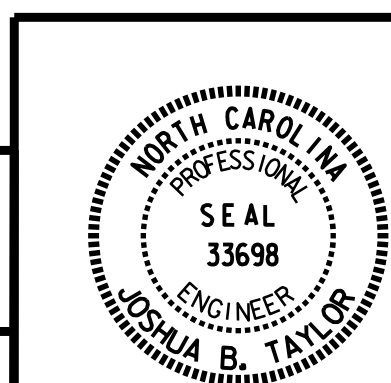
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
CONCRETE  
BARRIER RAIL  
(NBL)

REVISIONS				SHEET No.
No.	BY:	DATE:		
1			3	TOTAL SHEETS 34
2			4	

**CDM Smith**  
CDM SMITH  
5400 Glenwood Avenue, Suite 400  
Raleigh, NC 27612-3228  
NC COA No. F-1255

DESIGN ENGINEER : J. TAYLOR DATE : 06-15

DWG. No.



FILE: R:\med\192915B Structures\PLANS\bridge 2 NBL\192915B\_SD\_BR\_01.dgn  
DATE: 8/10/2015 7:04:08 AM

ASSEMBLED BY : J. SLOAN	DATE : 07-14
CHECKED BY : J. TAYLOR	DATE : 08-14
DRAWN BY : ARB 5/87	REV. 10/1/11 MAA/GM
CHECKED BY : SJD 9/87	REV. 7/12 MAA/GM
	REV. 6/13 MAA/GM

STD. NO. CBR1