

**PLAN**

**NOTES**

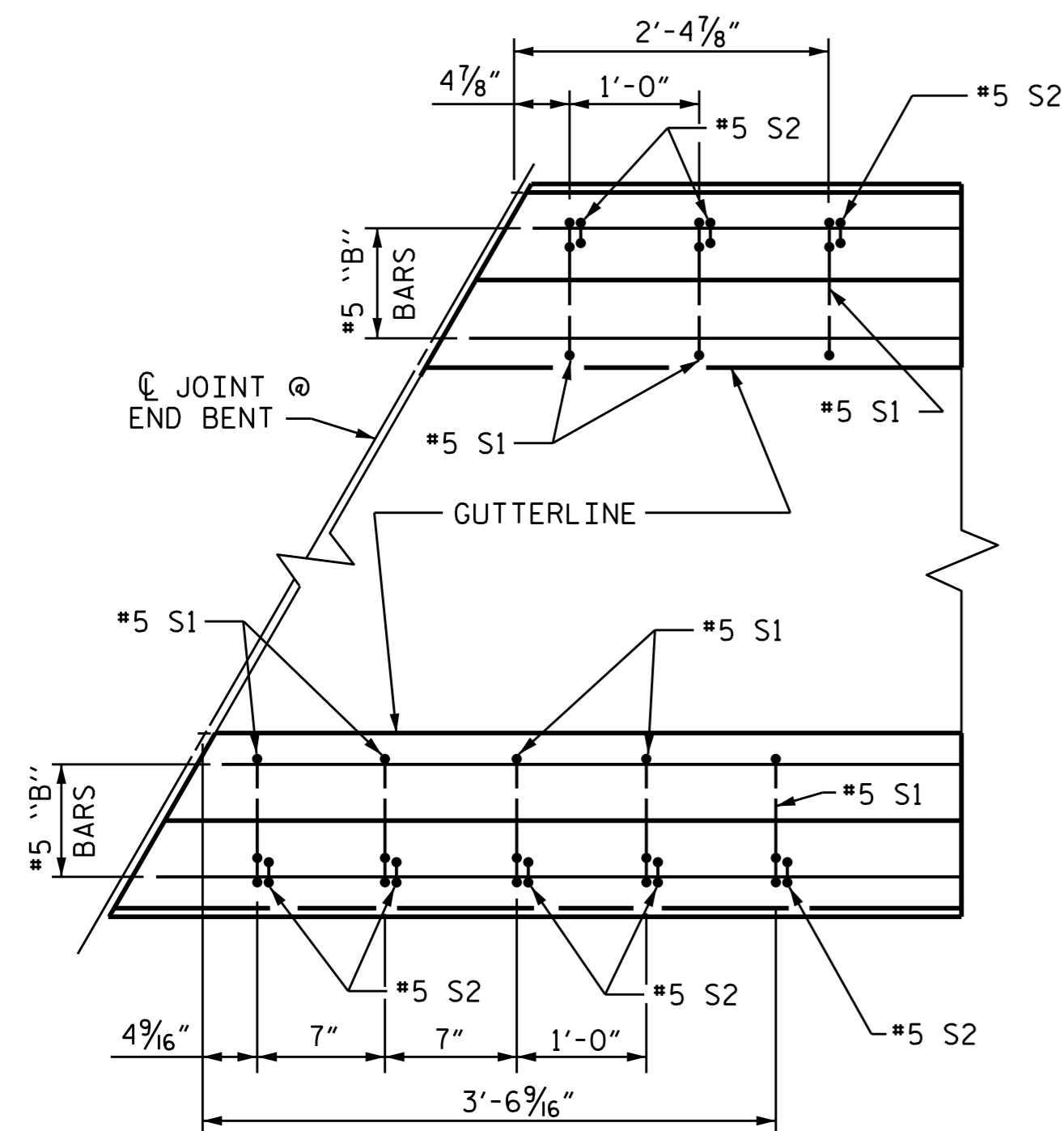
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

FOR EXPANSION JOINT SEAL, SEE "EXPANSION JOINT SEAL DETAILS" SHEET AND "EXPANSION JOINT SEAL DETAILS FOR BARRIER RAIL" SHEET.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

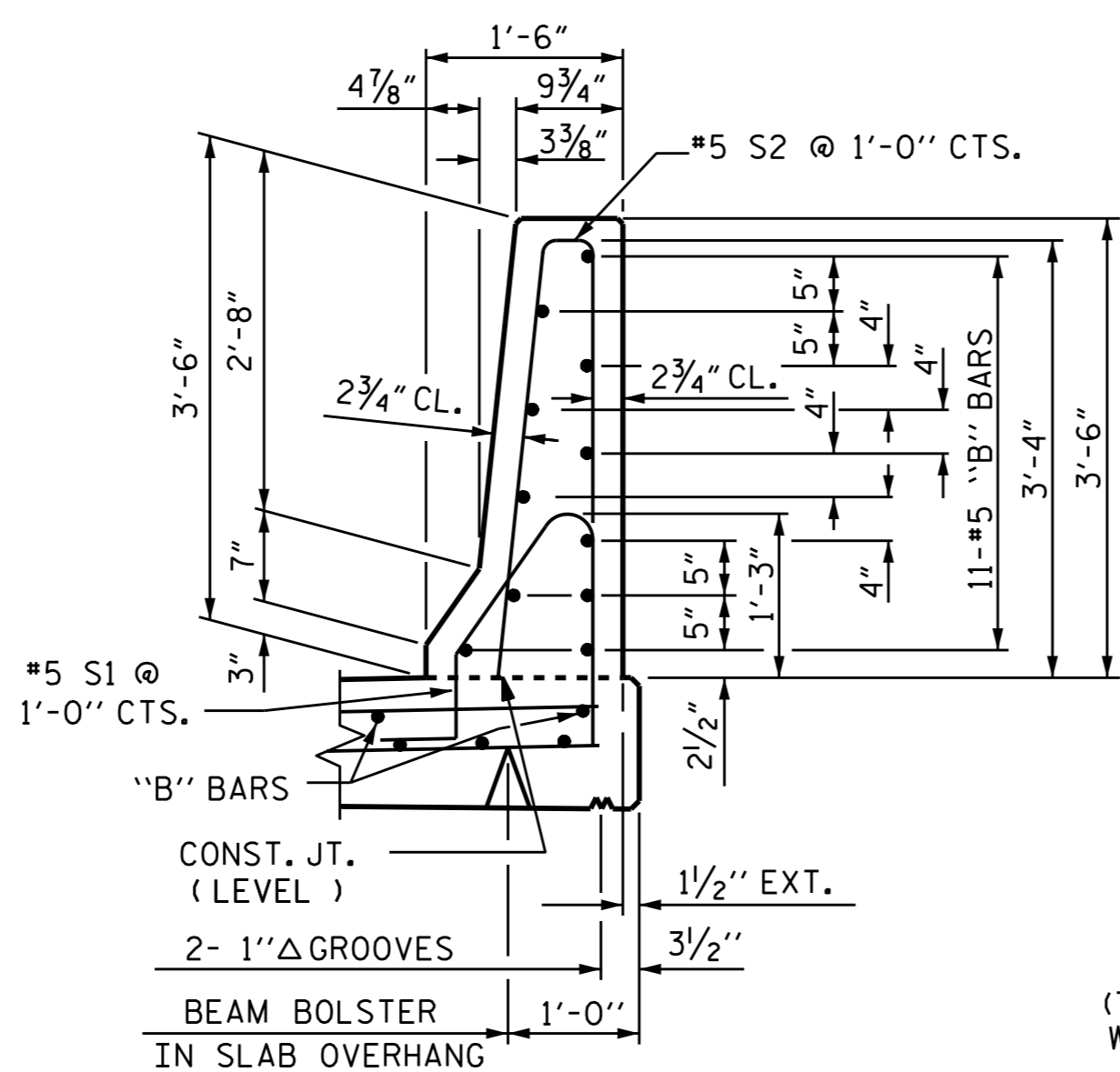
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS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

FOR BARRIER RAIL ON THE APPROACH SLAB, SEE "BRIDGE APPROACH SLAB DETAILS" SHEET.

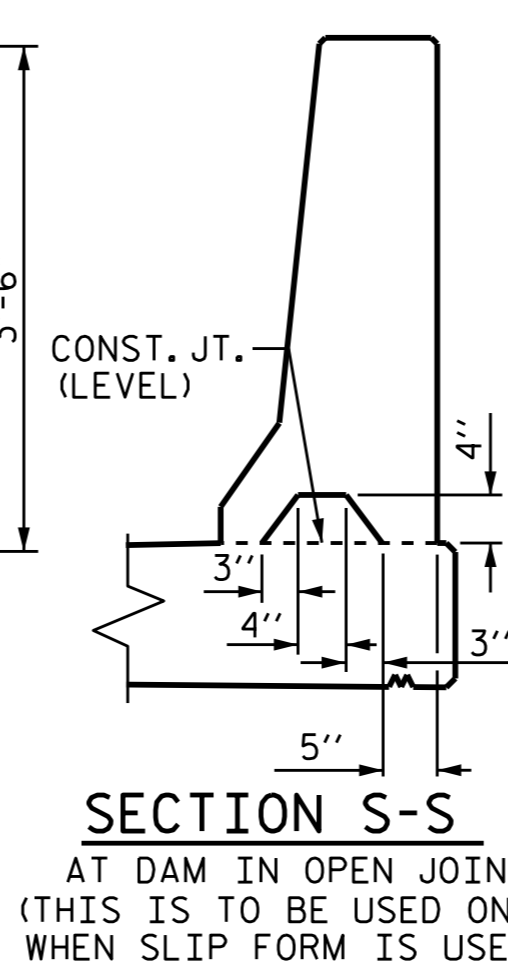


**END OF RAIL DETAILS**

FOR FORMED OPENING AT JOINTS

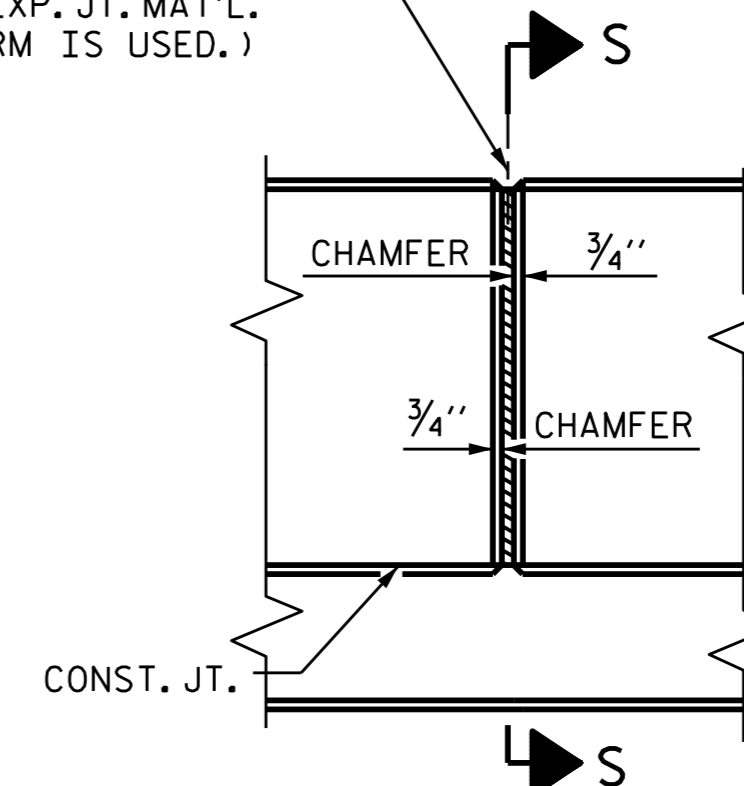


**SECTION THRU RAIL**



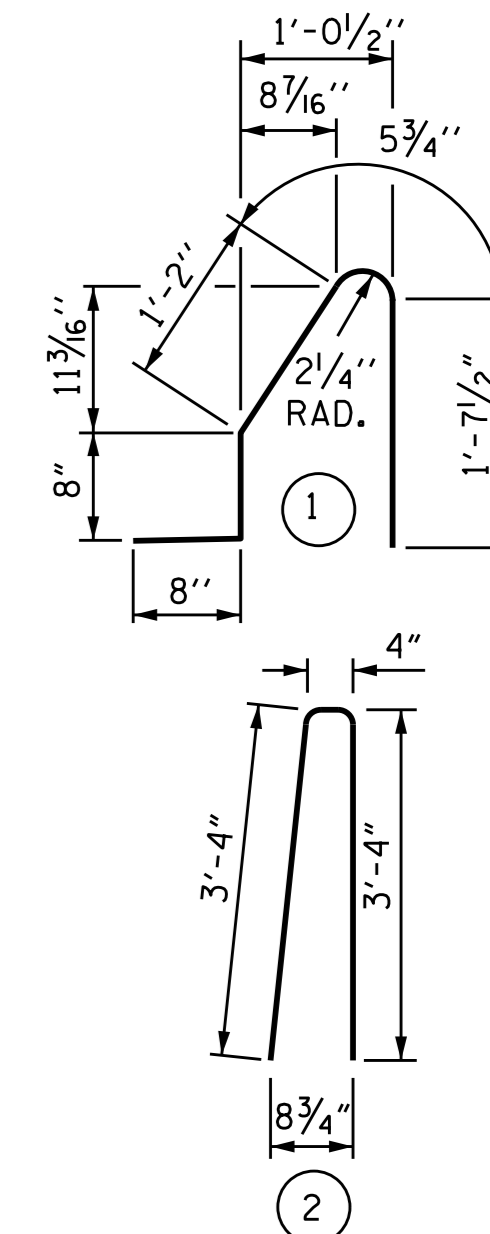
**SECTION S-S**  
AT DAM IN OPEN JOINT  
(THIS IS TO BE USED ONLY  
WHEN SLIP FORM IS USED)

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



**ELEVATION AT EXPANSION JOINTS**  
**BARRIER RAIL DETAILS**

**BAR TYPES**



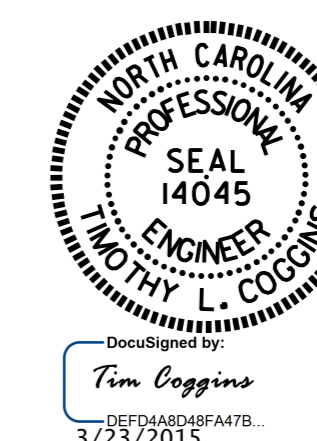
ALL BAR DIMENSIONS ARE OUT TO OUT

**BILL OF MATERIAL**

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	132	#5	STR	24'-7"	3385
* B2	44	#5	STR	13'-8"	627
* B3	44	#5	STR	13'-4"	612
* S1	396	#5	1	4'-7"	1893
* S2	396	#5	2	7'-0"	2891

* EPOXY COATED REINFORCING STEEL	9408
CLASS AA CONCRETE	53.8 C.Y.
CONCRETE BARRIER RAIL	395.30 LIN. FT.
CONCRETE BARRIER RAIL ON APPROACH SLABS	41.40 LIN. FT.
<b>TOTAL</b>	<b>436.70</b>



PROJECT NO. R-2514D  
JONES & CRAVEN COUNTY  
STATION: 19+43.00 - Y10RPA

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

ASSEMBLED BY: <i>N. Ruffin</i>	DATE: 7/19/13
CHECKED BY: M. PISO	DATE: 3/14/14
DRAWN BY: ARB 5/87	REV. 10/1/11
CHECKED BY: SJD 9/87	REV. 7/12
	REV. 6/13
ENGINEER OF RECORD: <u>N. RUFFIN</u>	DATE: <u>1/28/15</u>

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S17-014
1			3			TOTAL SHEETS
2			4			32