

I:\Projects\255550\255550_0002_50_Deliverables & Submittals\AR-2554D_Structures\Site 6\Drawings\Finals\Site 6 RL\412_017_R2514D_SMU_CBR01.dgn 4/10/2015 9:20:46 AM

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.

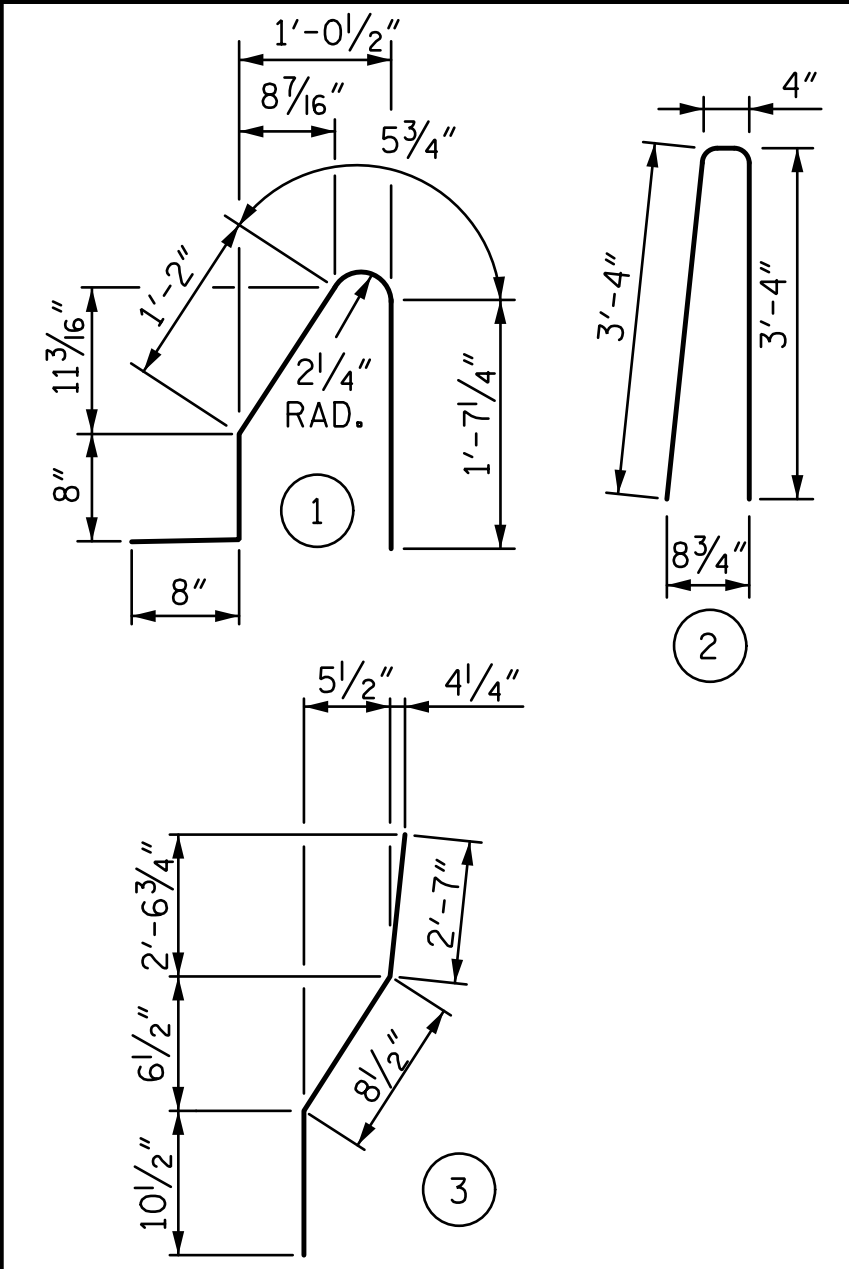
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5S3 AND #5S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM. THE YIELD LOAD FOR THE #5S3 AND #5S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

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.

CONCRETE BARRIER RAIL ON APPROACH SLAB, LENGTH AND QUANTITIES, NOT INCLUDED. SEE "BRIDGE APPROACH SLAB DETAILS" SHEETS.

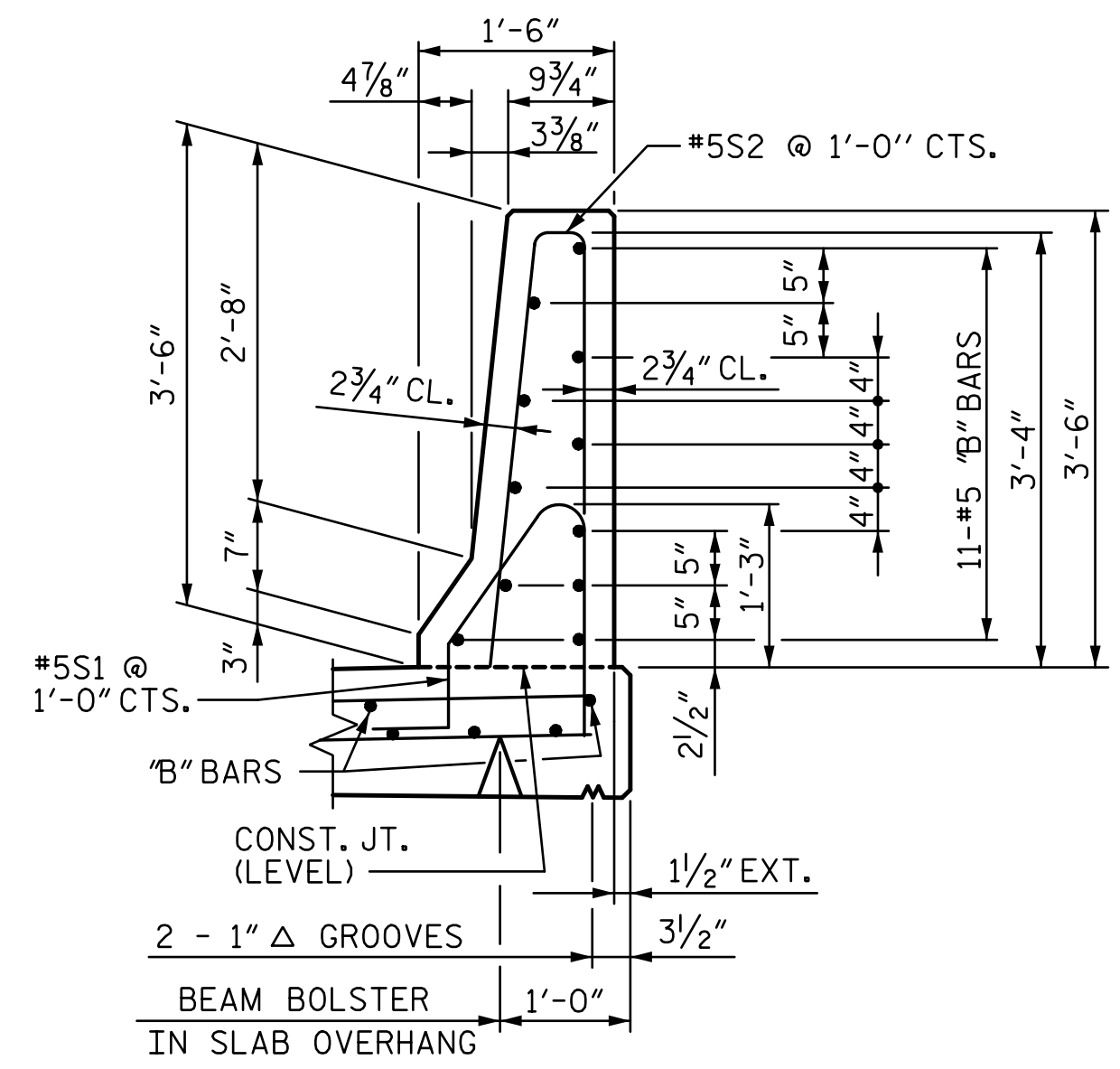
BAR TYPES



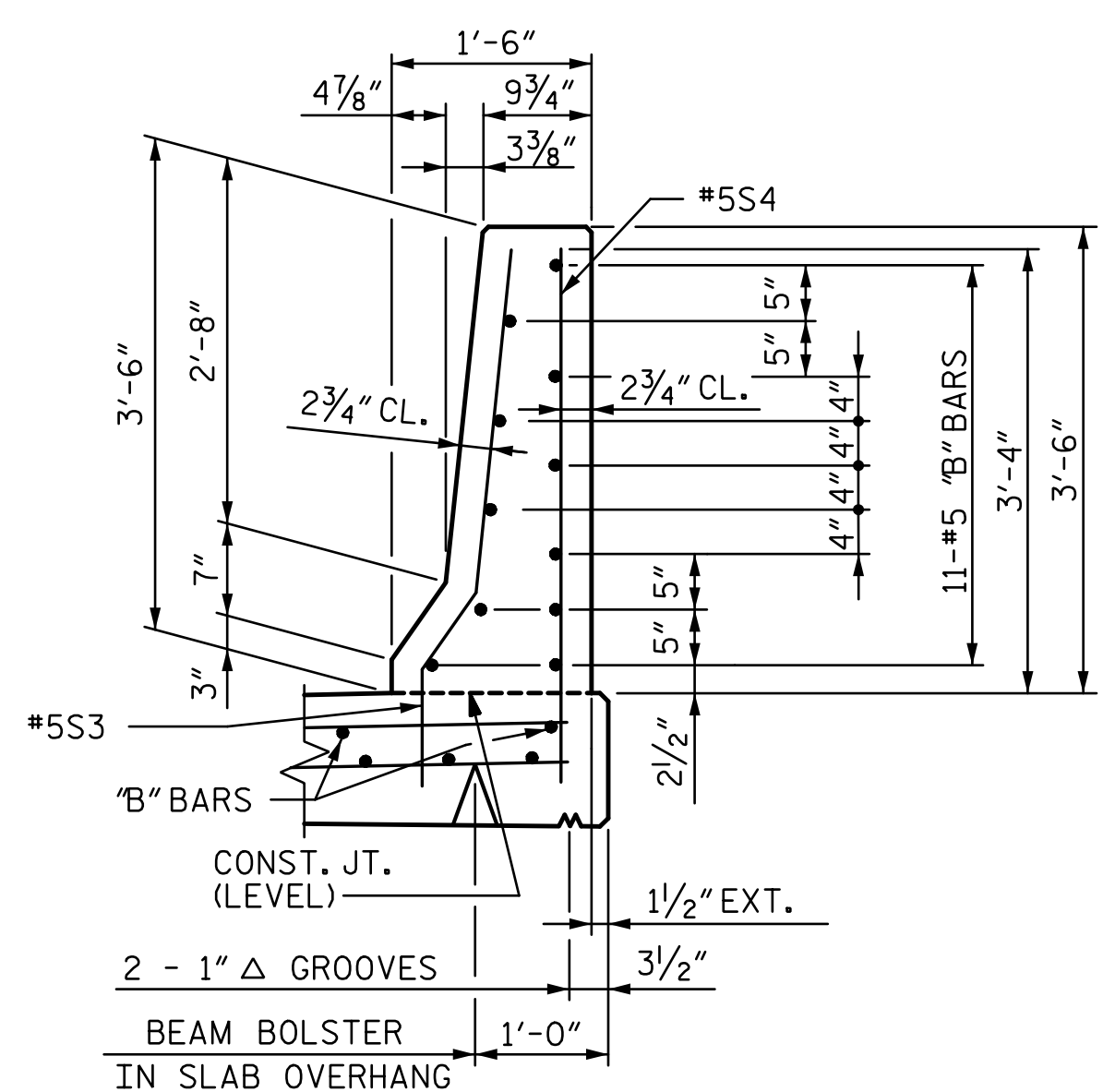
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

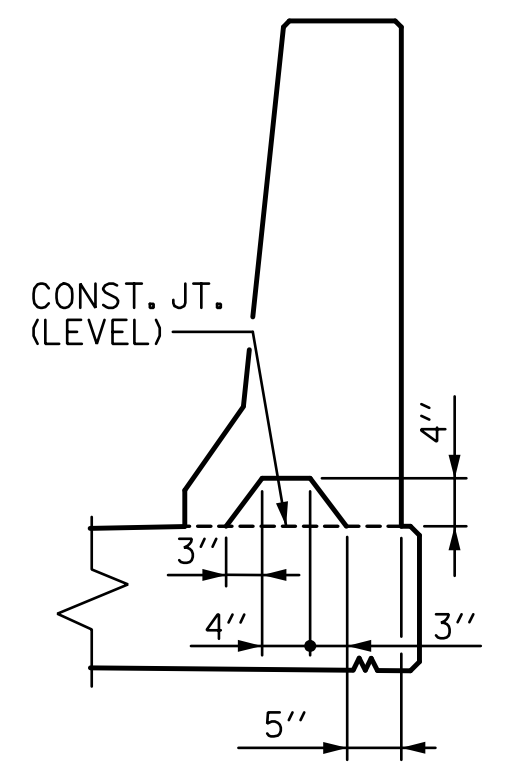
FOR CONCRETE BARRIER RAIL ONLY						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
* B1	44	#5	STR.	12'-10"	589	
* B2	88	#5	STR.	27'-11"	2,562	
* B3	44	#5	STR.	29'-7"	1,358	
* B4	44	#5	STR.	14'-7"	669	
* S1	434	#5	①	4'-7"	2,075	
* S2	434	#5	②	7'-0"	3,169	
* S3	4	#5	③	4'-2"	17	
* S4	8	#5	STR.	4'-0"	33	
* EPOXY COATED REINFORCING STEEL					10,472	LBS.
CLASS AA CONCRETE					60.0	CU. YDS.
CONCRETE BARRIER RAIL					441.2	LIN. FT.



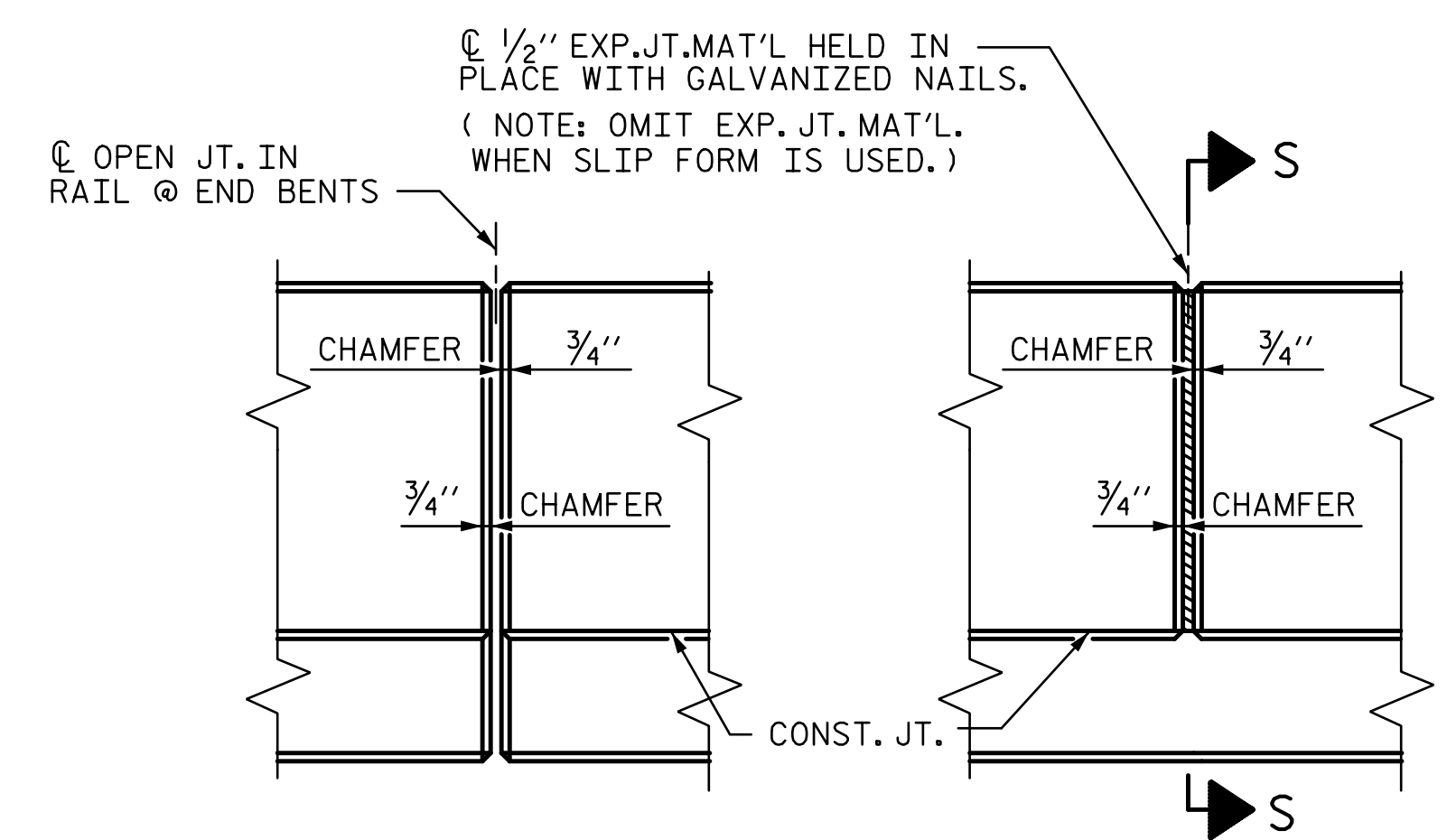
TYPICAL SECTION THRU RAIL



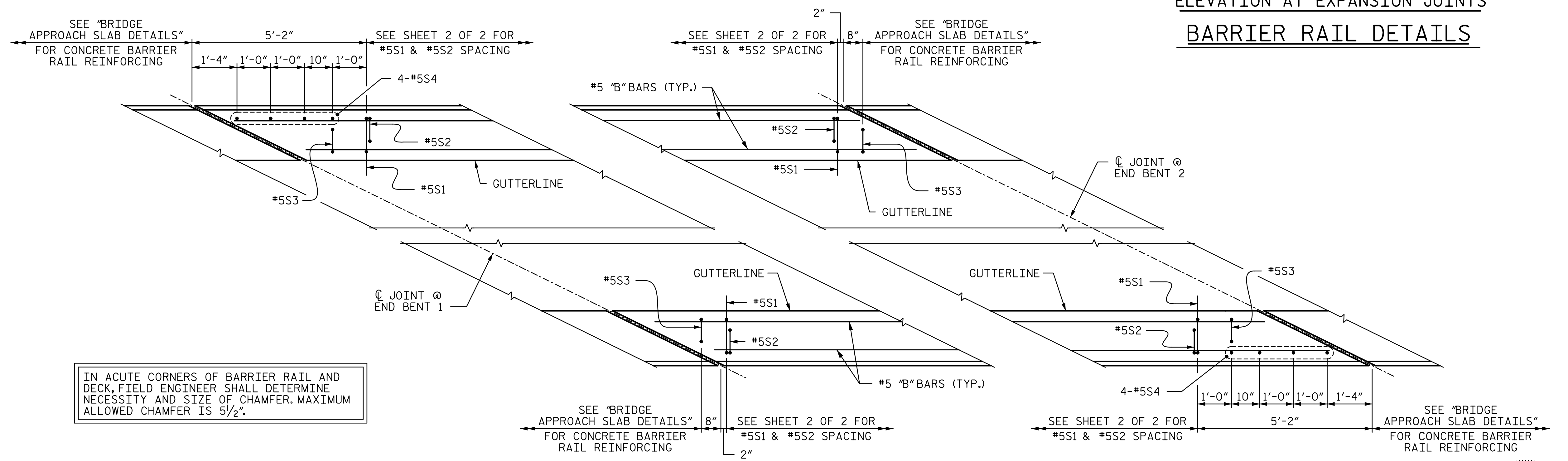
TYPICAL SECTION AT JOINT



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



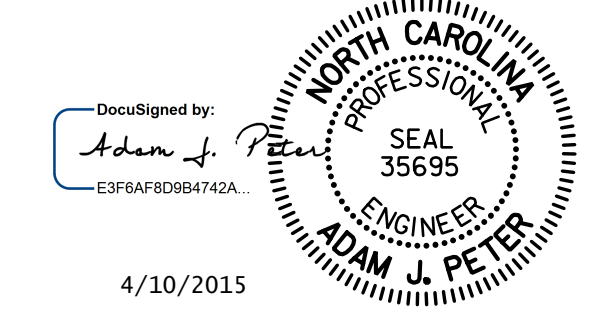
ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS



END BENT 1

END BENT 2

PLAN AT JOINTS



PROJECT NO. **R-2514D**
JONES & CRAVEN COUNTY
 STATION: **526+71.12 -L-**
 = **16+08.07 -Y6-**
 SHEET 1 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
CONCRETE BARRIER RAIL
-RIGHT LANE-

DRAWN BY: CLG DATE: 6-14
 CHECKED BY: TJT DATE: 6-14
 DESIGN ENGINEER OF RECORD: A. PETER DATE: 6-14

STV / Ralph Whitehead Associates, Inc.
 900 West Trade Street, Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

TOTAL SHEETS: 38