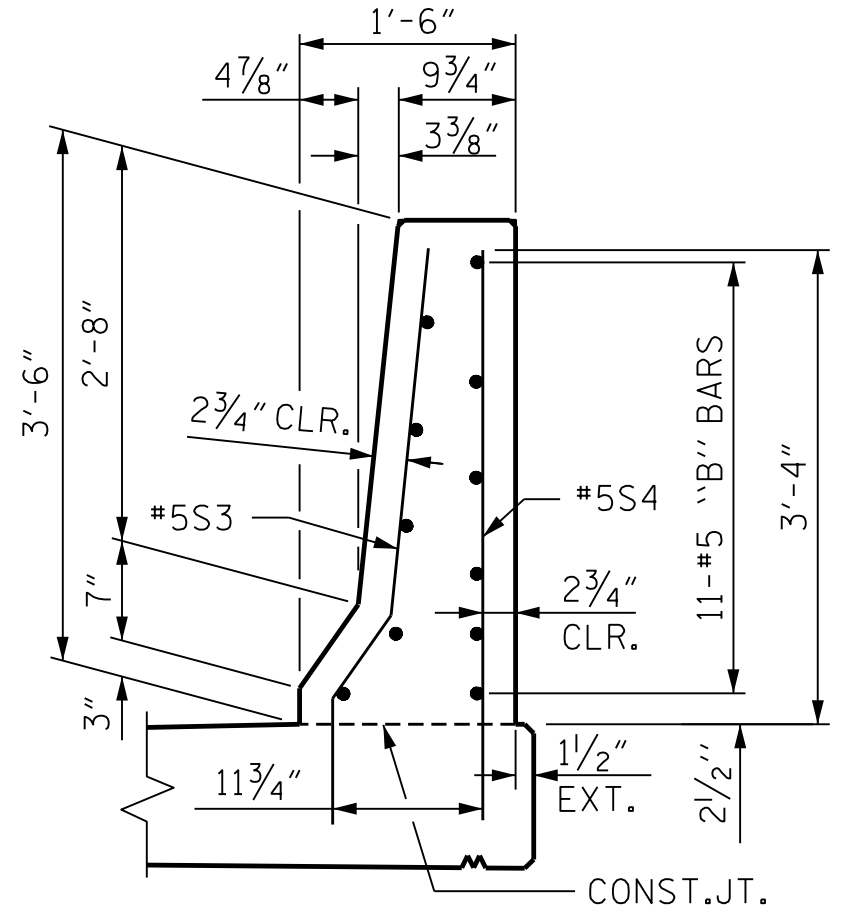
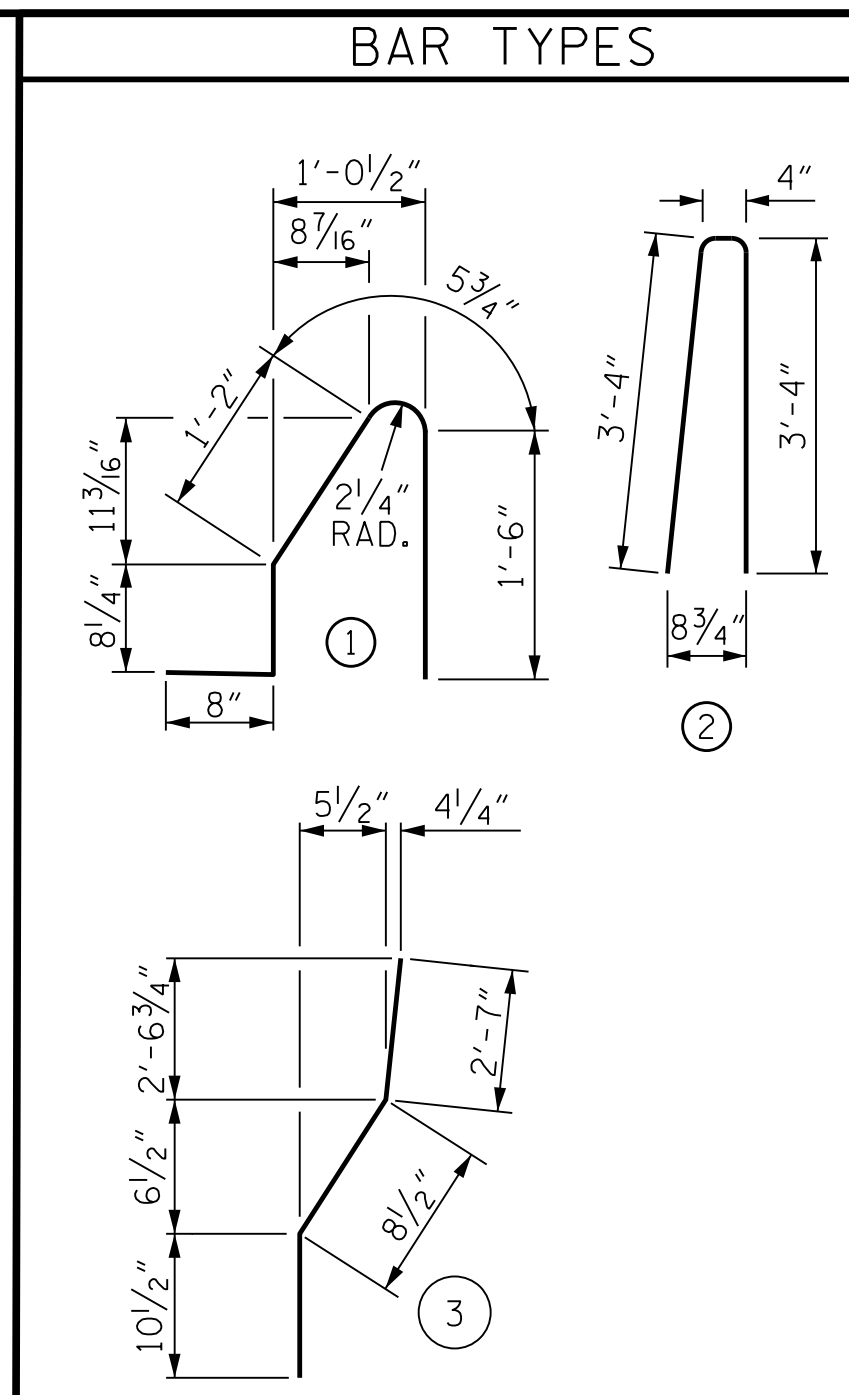


PLAN AT END BENT 1
PLAN AT END BENT 2
END OF RAIL DETAILS

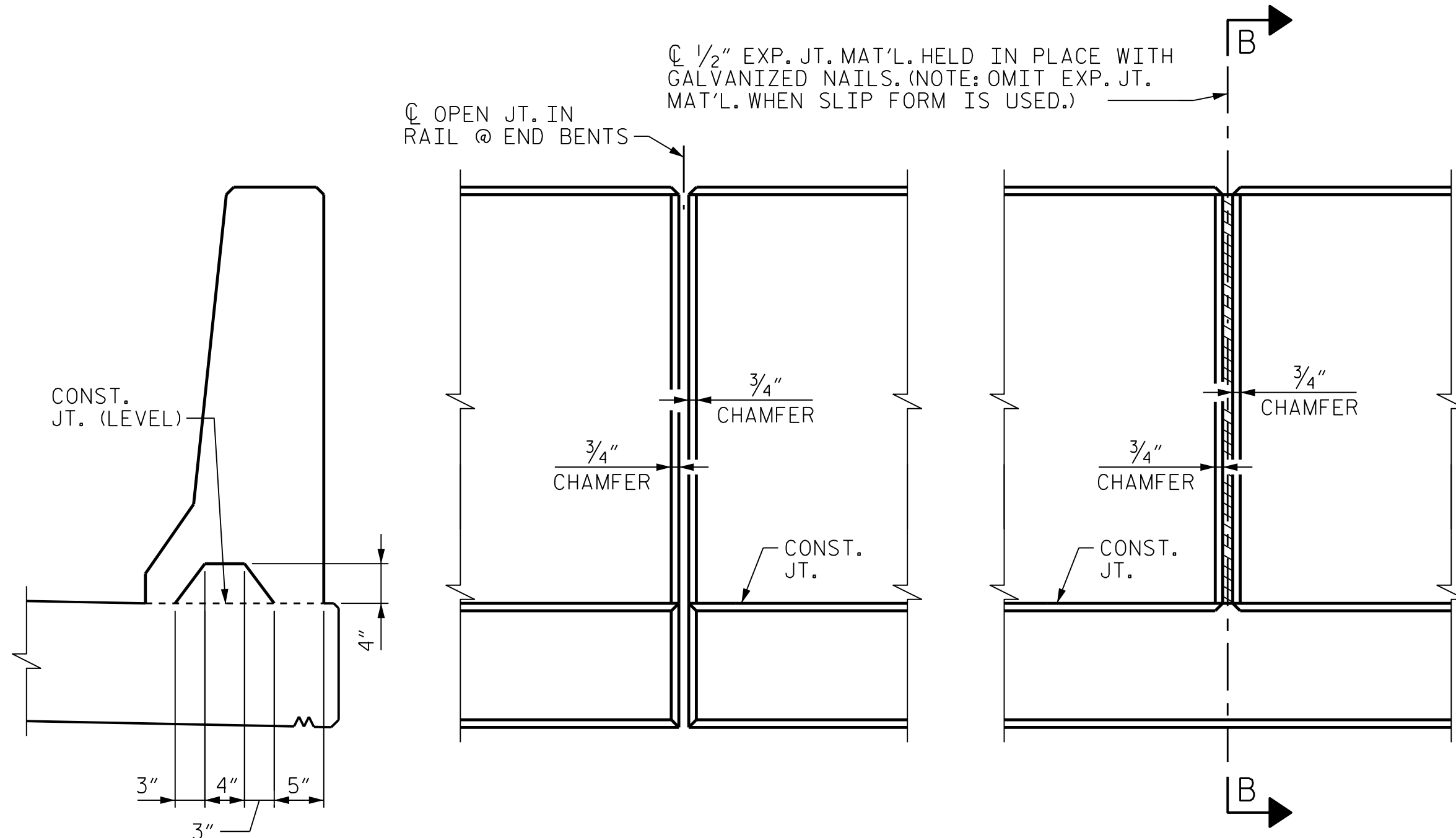


SECTION A-A



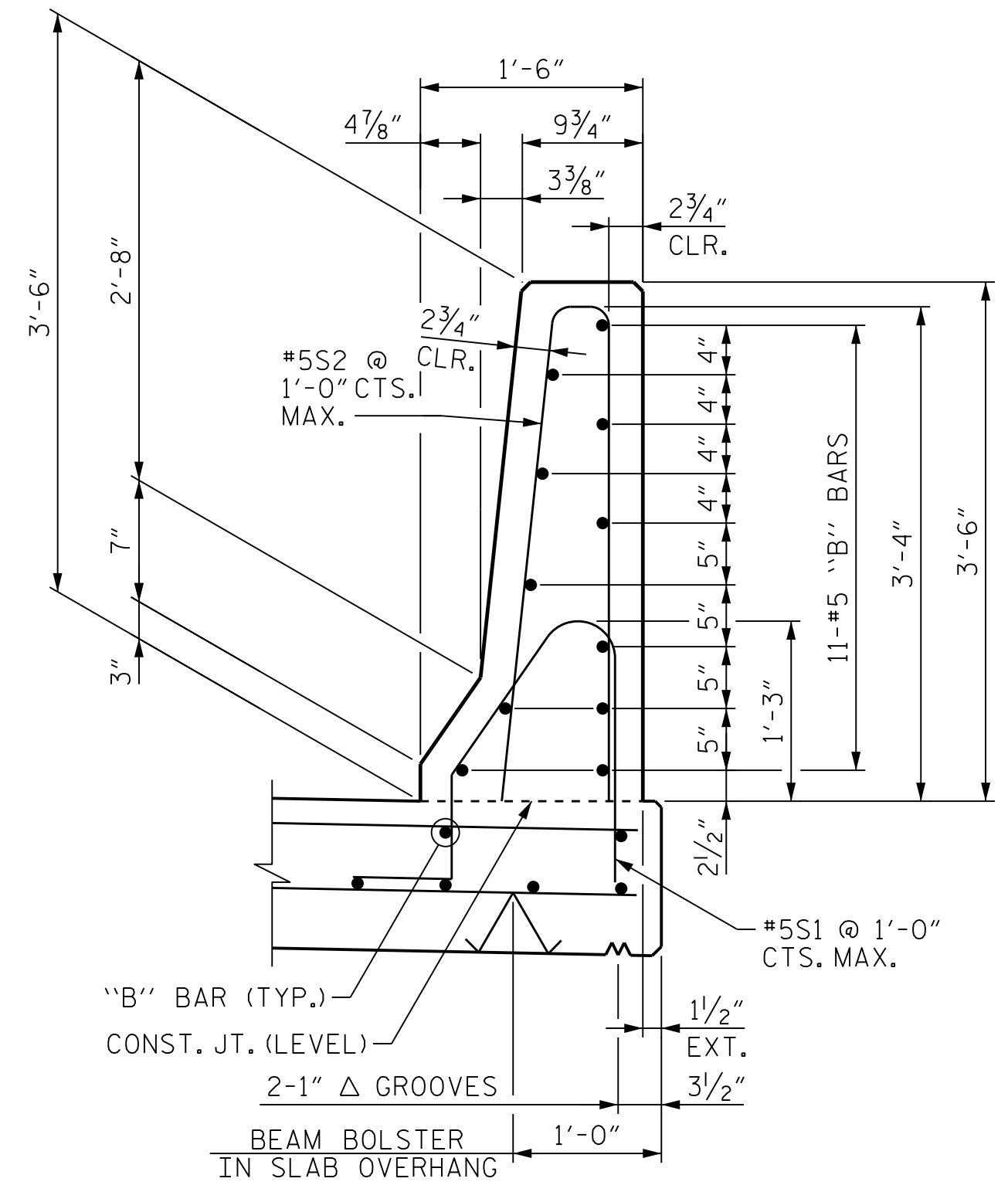
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	44	#5	STR	21'-7"	991
* B2	11	#5	STR	21'-11"	252
* B3	22	#5	STR	12'-11"	297
* B4	22	#5	STR	13'-6"	310
* S1	152	#5	1	4'-6"	714
* S2	152	#5	2	7'-0"	1110
* S3	6	#5	3	4'-2"	27
* S4	6	#5	STR	4'-0"	26
* EPOXY COATED REINFORCING STEEL					3,727 LBS.
CLASS AA CONCRETE					21.3 CU. YDS.
CONCRETE BARRIER RAIL					156.5 LIN. FT.



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

ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS



SECTION THRU RAIL

NOTES

THE BARRIER RAIL IN A 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.

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.

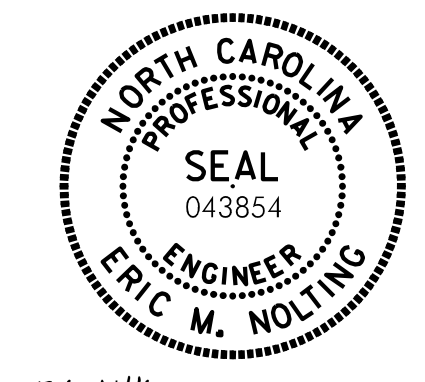
GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS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

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

THE #5 'S' BARS MAY BE SHIFTED SLIGHTLY AS NECESSARY IN ORDER TO MAINTAIN A 2" MINIMUM CLEARANCE TO THE 1/2" EXPANSION JOINT MATERIAL IN THE BARRIER RAIL.

PROJECT NO. B-3186/B-5898
HAYWOOD COUNTY
STATION: 68+82.30 ± -L-LT-

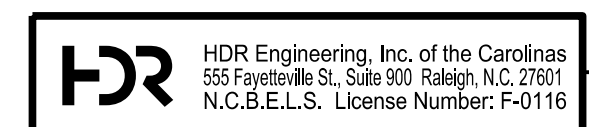
SHEET 2 OF 2



Eric Nolting 1/24/2022

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

SHEET NO. 303L-24	
TOTAL SHEETS	44



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.plt
 PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl
 USER: PPETERSO DATE: 1/24/2022 TIME: 1:47:44 PM
 FILE: ... \403.115.B5898B3186.SMU.BR.024.430110.dgn

DES BY: S. RAVINDRAN	DATE: 06/21	DWG BY: M. SELLS	DATE: 06/21
DES CHK: G. MYERS	DATE: 06/21	CHK BY: G. MYERS	DATE: 07/21