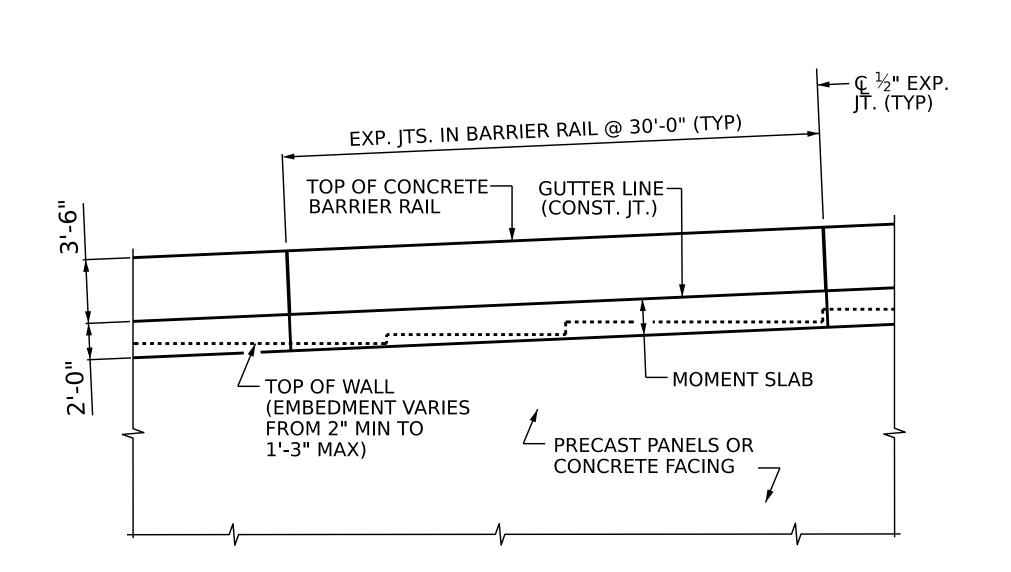


## CONCRETE BARRIER RAIL WITH MOMENT SLAB



CONCRETE BARRIER RAIL WITH MOMENT SLAB - PARTIAL ELEVATION

## NOTES:

FOR CONCRETE BARRIER RAIL WITH MOMENT SLAB, SEE SECTION 460 OF THE STANDARD SPECIFICATIONS.

CONCRETE BARRIER RAIL WITH MOMENT SLAB SHALL BE A MINIMUM OF 15' IN LENGTH.

EXPANSION JOINTS SHALL BE PLACED IN THE BARRIER RAIL AND MOMENT SLAB AT A MAXIMUM SPACING OF 30'.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED SURFACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MID-POINT OF BARRIER RAIL SEGMENTS LESS THAN 20' IN LENGTH.

EXPANSION OR CONTRACTION JOINTS IN THE BARRIER RAIL AND MOMENT SLAB SHALL BE ALIGNED WITH JOINTS IN WALL FACING BELOW.

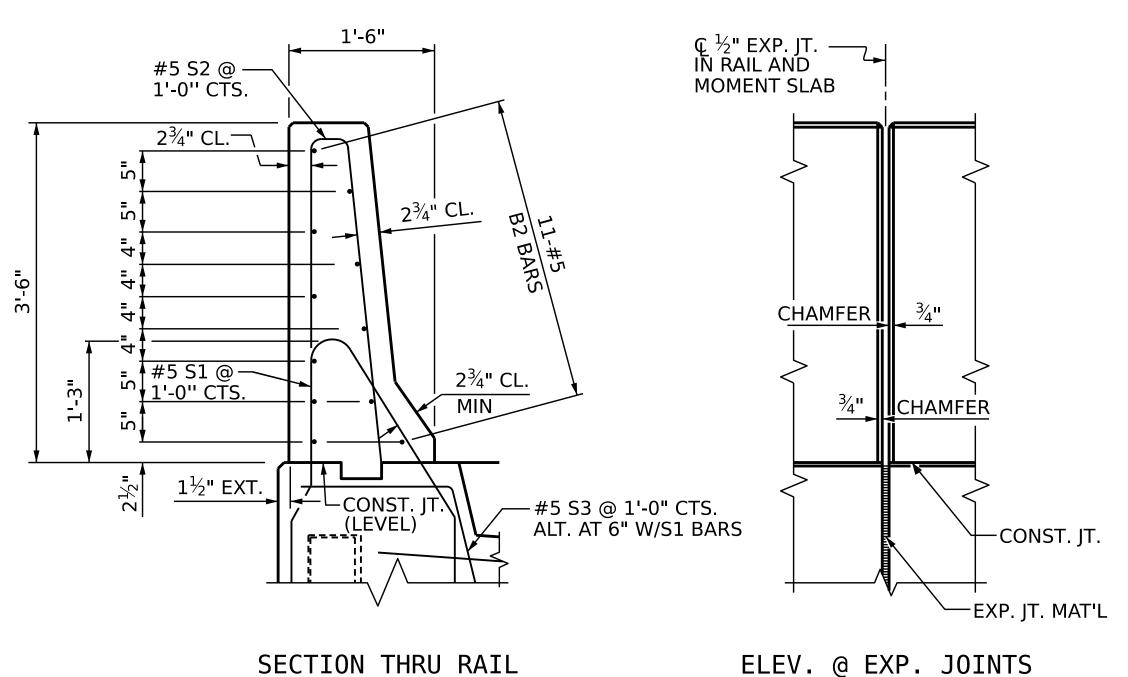
THE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB HAS ATTAINED AN AGE OF THREE CURING DAYS OR A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. IN ADDITION, NO FILL MATERIAL, ASPHALT, OR CONSTRUCTION EQUIPMENT IS ALLOWED ON THE MOMENT SLAB PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH REQUIREMENTS.

ALL REINFORCING STEEL IN THE BARRIER RAIL SHALL BE EPOXY COATED.

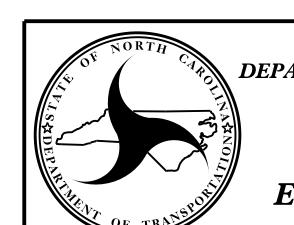
IF EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, BARRIERS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITHCONCRETE BARRIER RAIL WITH MOMENT SLAB OR CONCRETE FACING FOR RETAINING WALL WILL BE THICKER THAN 8", CONCRETE BARRIER RAIL WITH MOMENT SLAB DETAILS SHALL BE REVISED AND SUBMITTED FOR APPROVAL.

WHERE INDICATED IN THE WALL PLANS, MOMENT SLAB AND RAIL SHALL NOT BE CONSTRUCTED UNTIL PHASE IV IN ACCORDANCE WITH THE TMP PLANS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REMOVAL OF TEMPORARY FILL TO THE TOP OF THE MSE FILL. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS TO SHOW THE LOCATIONS OF SEGMENT JOINTS. SEGMENTS SHALL BE LOCATED SUCH THAT THE END OF A COMPLETE SEGMENT IS LOCATED AT THE PHASED CONSTRUCTION LIMIT.

WHERE MSE WALL SHIFTS OUT FROM UNDER MOMENT SLAB, S1 AND B1 BARS MAY BE CUT AS REQUIRED AS DIRECTED BY THE ENGINEER TO TRANSITION TO A WALL COPING.

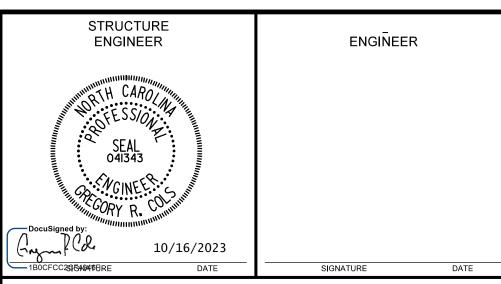


## BARRIER RAIL DETAILS



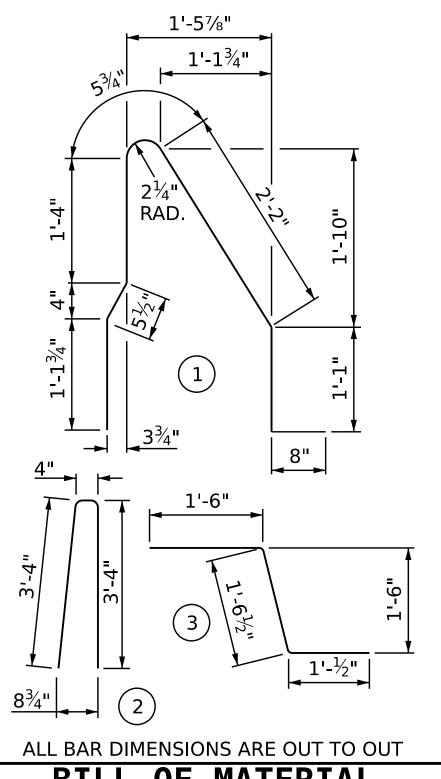
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

## BAR TYPES



	RTF	<u>.L Ob</u>	- MA	<u>I FKTAI</u>	_				
FOR ONE 30'-0" SECTION OF CONCRETE BARRIER RAIL WITH MOMENT SLAB									
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT				
B1	14	#4	STR	29'-7" 277					
*B2	11	#5	STR	29'-7"	339				
G1	31	#5	STR	4'-4"	140				
G2	31	#4	STR	4'-4"	90				
			_						
*S1	31	#5	1	7'-4"	237				
*S2	31	#5	2	7'-0"	226				
S3	30	#5	3	4'-1"	128				
REIN	635 LB								
* EPOX REIN	802 LB								
CLAS BARI	4.1 CY								
CLAS MOM	9.1 CY								

PROJECT NO.: B-3186/B-5898

HAYWOOD COUNTY

30 LIN FT

STATION: 68+82.30 -L\_LT
SHEET 6 OF 6 WALL ID RW-5-

CONCRETE BARRIER RAIL WITH MOMENT SLAB

CONCRETE BARRIER RAIL
WITH MOMENT SLAB

WITH MOMENT SLAB FOR PRECAST PANELS AND CONCRETE FACING

	REVISIONS						
NO.	BY	DATE	NO.	BY	DATE	SHEET NO.	
1	-	_	3	_	_	RW-5E	
2	_	_	4	_	_	_	

PREPARED BY: L. LEE DATE: 07/2023
REVIEWED BY: G. COLS DATE: 07/2023