

CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL)

NOTES:

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

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

EXPANSION JOINTS SHALL BE PLACED IN THE BARRIER RAIL AND MOMENT SLAB (SPECIAL) 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.

THE BARRIER RAIL SHALL NOT BE CAST UNTIL THE MOMENT SLAB (SPECIAL) 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 (SPECIAL) PRIOR TO SATISFYING THE MINIMUM CONCRETE CURING AND STRENGTH REQUIREMENTS.

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

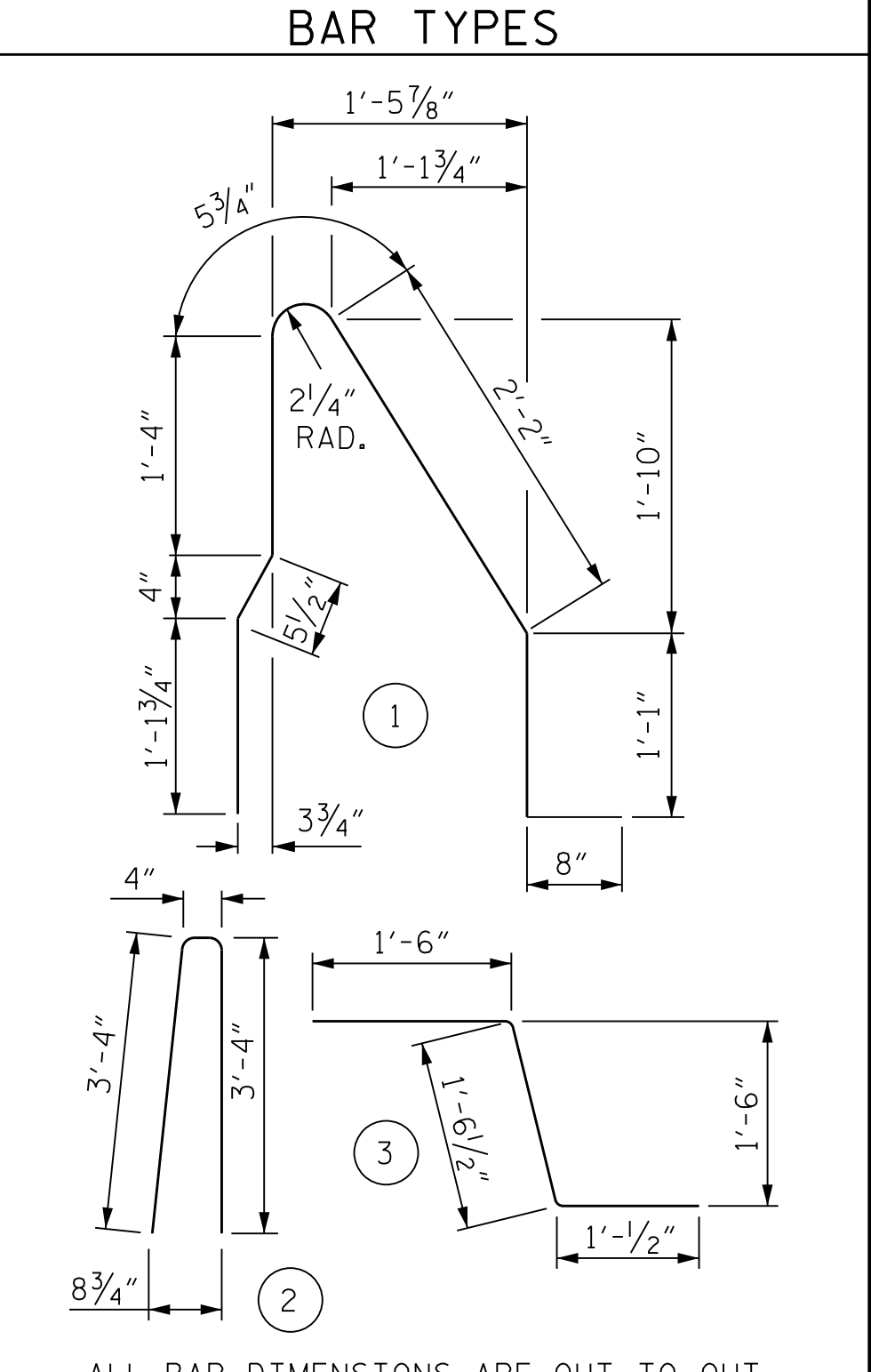
IF EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, BARRIERS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL), CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL) DETAILS SHALL BE REVISED AND SUBMITTED FOR APPROVAL.

COORDINATE WITH ROADWAY PLANS FOR TRANSITION TO CONCRETE MOMENT SLAB AT STA. 53+20.91 -RW2- OFF. -1.292

CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL)
PAY LENGTH = 120.00 LIN FT

GEOTECHNICAL ENGINEER SIGNATURE: <i>Kenneth R. Bussey</i> DATE: 3/31/2022	PROJECT REFERENCE NO.	SHEET NO.
	B-3186 / B-5898	W-02F

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



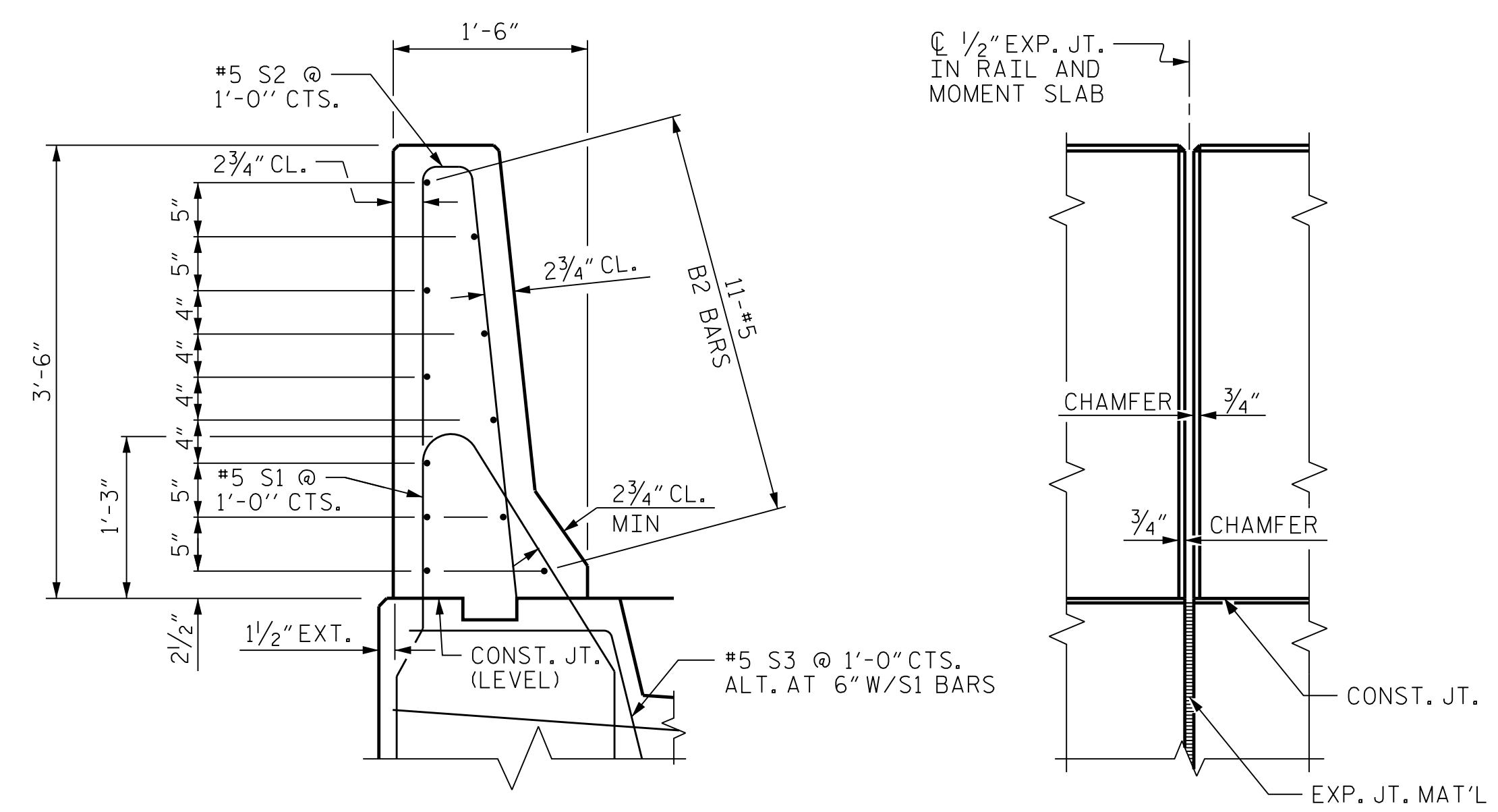
BILL OF MATERIAL

FOR ONE 30'-0" SECTION OF CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	15	#4	STR	29'-7"	297
* B2	11	#5	STR	29'-7"	339
G1	31	#5	STR	5'-6"	178
G2	31	#4	STR	5'-6"	114
* S1	31	#5	1	7'-4"	237
* S2	31	#5	2	7'-0"	226
S3	30	#5	3	4'-1"	128
REINFORCING STEEL					717 LB
* EPOXY COATED REINFORCING STEEL					802 LB
CLASS AA CONCRETE BARRIER RAIL					4.1 CY
CLASS A CONCRETE MOMENT SLAB (SPECIAL)					9.3 CY
CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL)					30 LIN FT

PROJECT NO.: B-3186/B-5898
HAYWOOD COUNTY
STATION: 27+54.43 - Y1RT-
SHEET 1 OF 1

CONCRETE BARRIER RAIL WITH MOMENT SLAB (SPECIAL)



SECTION THRU RAIL ELEV. @ EXP. JOINTS

BARRIER RAIL DETAILS

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HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PLOT DRIVER: NCDOT_color_eng_50.plt
USER: PPETERSON
DATE: 3/31/2022
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REVISIONS