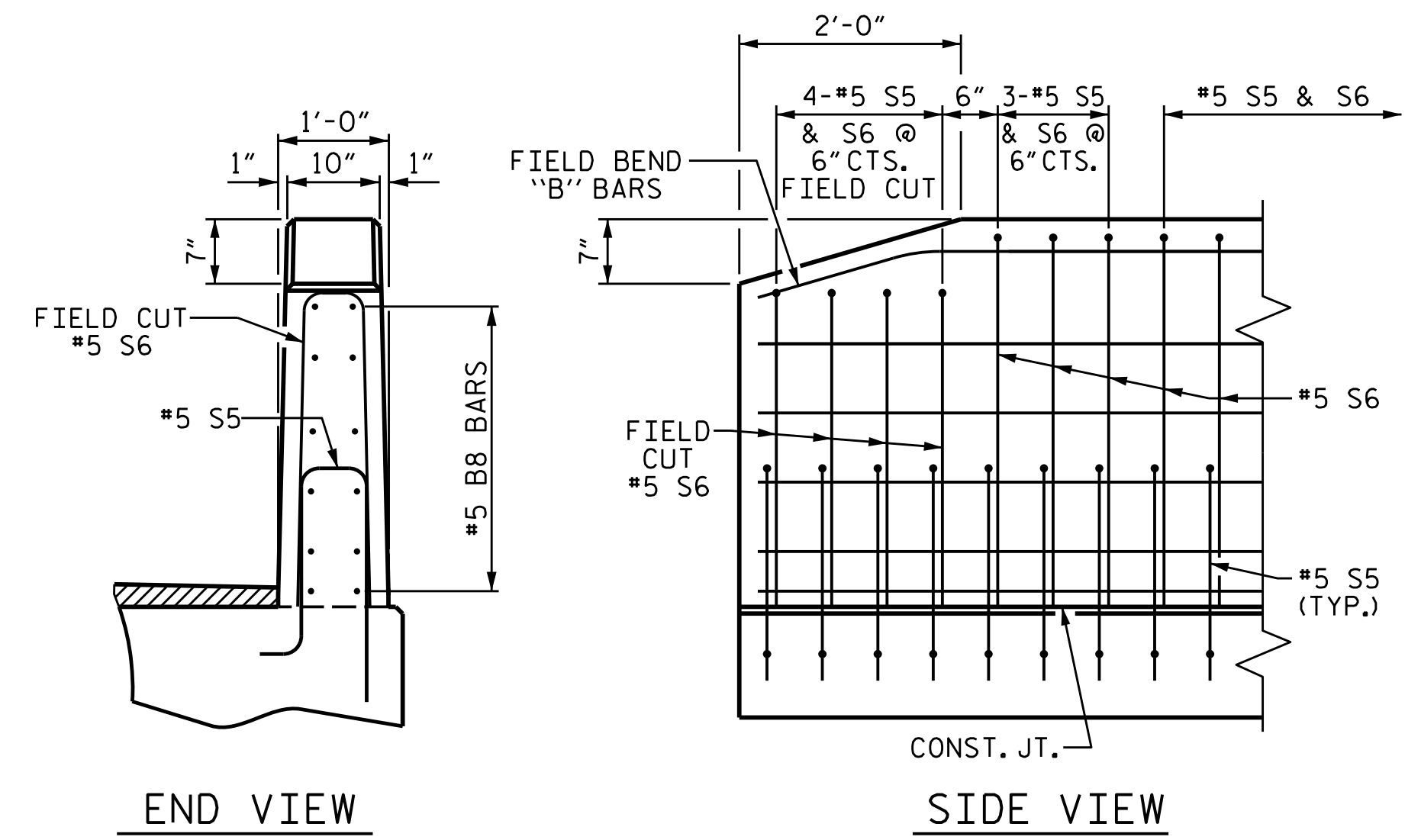
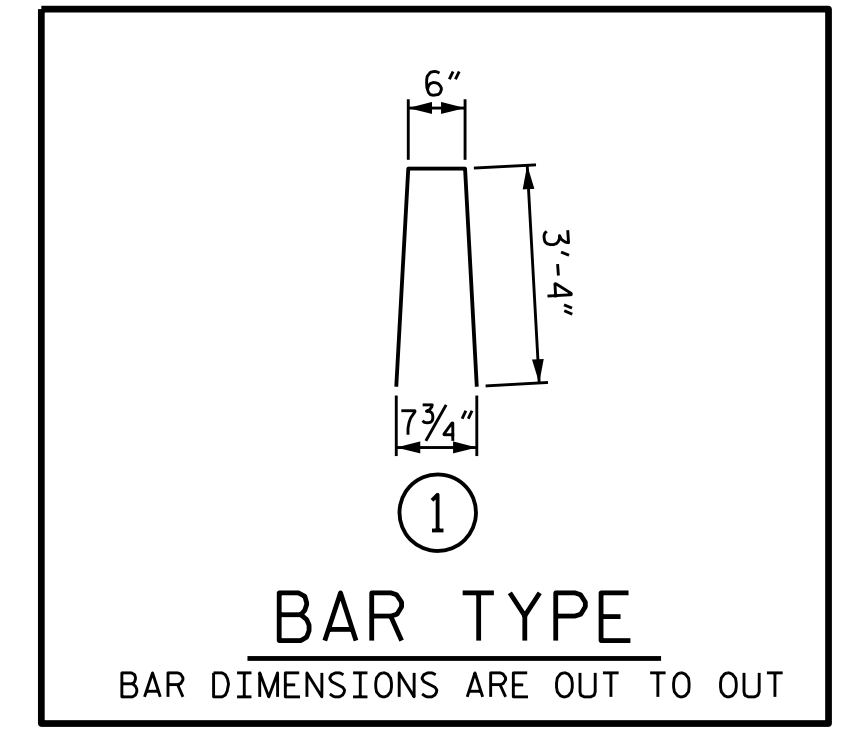


**FIXED END**  
(TYPE II - 20 REQ'D)



**END VIEW**      **SIDE VIEW**



**BAR TYPE**  
BAR DIMENSIONS ARE OUT TO OUT

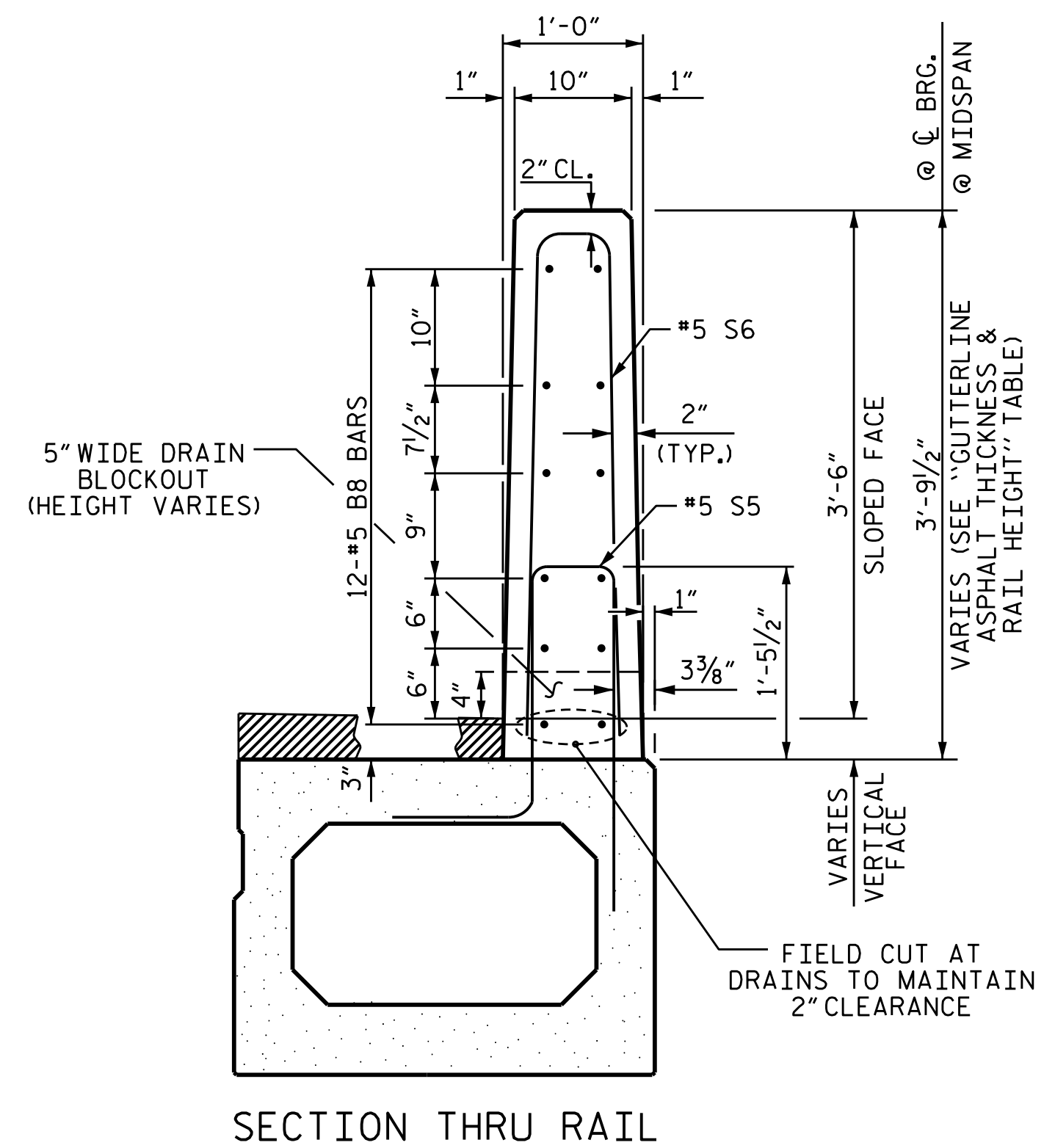
**ELASTOMERIC BEARING DETAILS**  
ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

**END OF RAIL DETAILS**

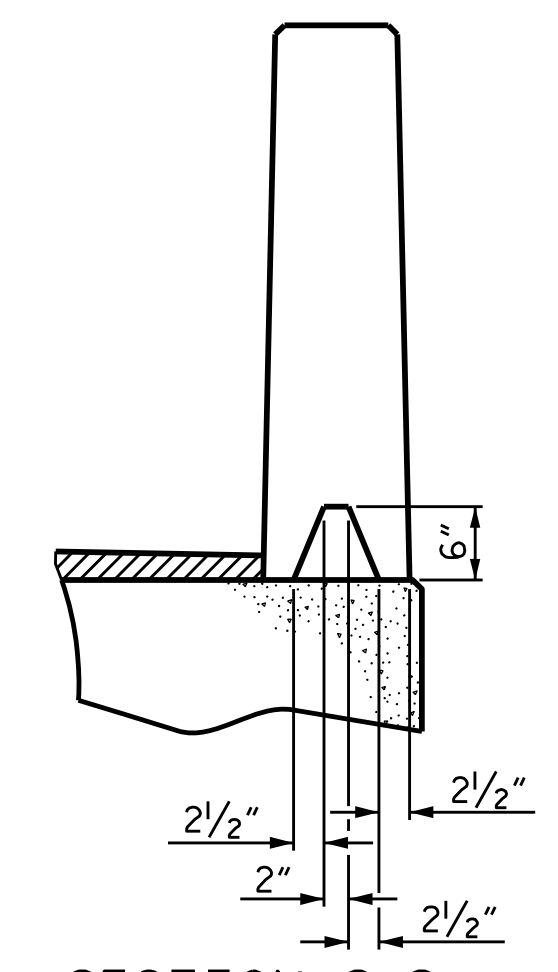
BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAIL					
BAR	BARS PER PAIR OF EXTERIOR UNITS	SIZE	TYPE	LENGTH	WEIGHT
80' UNIT					
* B8	144	#5	STR	14'-11"	2240
* S6	216	#5	1	7'-2"	1615
* EPOXY COATED REINFORCING STEEL			LBS.		3855
CLASS AA CONCRETE			CU.YDS.		20.7
TOTAL VERTICAL CONCRETE BARRIER RAIL			LN. FT.		160.00

GUTTERLINE ASPHALT THICKNESS & RAIL HEIGHT		
	ASPHALT OVERLAY THICKNESS @ MID-SPAN	RAIL HEIGHT @ MID-SPAN
80' UNITS	2 1/4"	3'-8 1/4"

BOX BEAM UNITS REQUIRED			
	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	2	80'-0"	160'-0"
INTERIOR B.B.	8	80'-0"	640'-0"
TOTAL	10		800'-0"

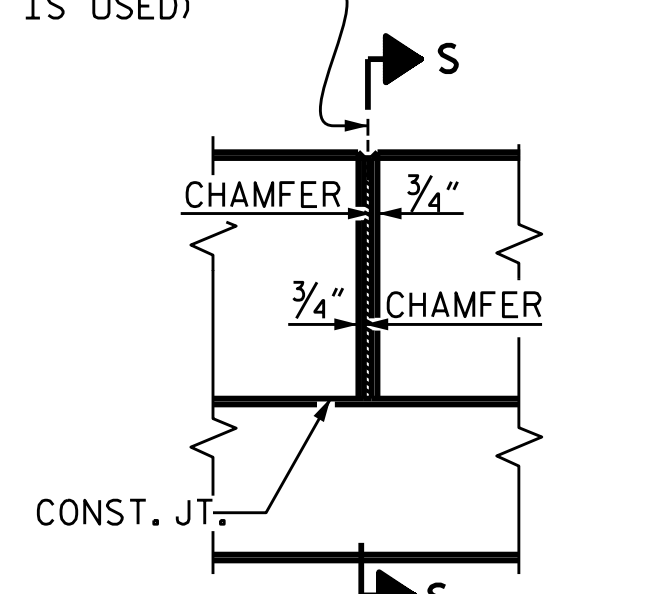


**SECTION THRU RAIL**



**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)

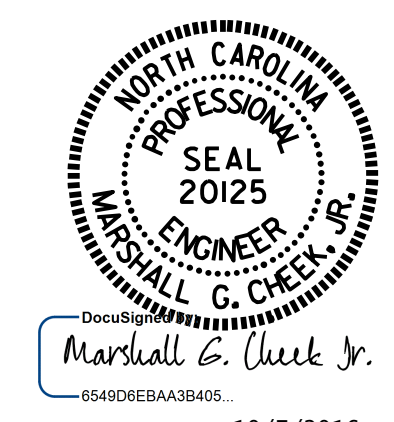


**ELEVATION AT EXPANSION JOINTS**

**VERTICAL CONCRETE BARRIER RAIL DETAILS**

PROJECT NO. B-4814  
SAMPSON COUNTY  
STATION: 21+15.00 -L-

SHEET 5 OF 5



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
**3'-0" X 2'-9"**  
**PRESTRESSED CONCRETE**  
**BOX BEAM UNIT**

ASSEMBLED BY: R. CAREATHERS/MP DATE: 6/3/15  
CHECKED BY: M.D. PISO DATE: 6/25/15  
DRAWN BY: DGE 10/11 REV. 4/15 MAA/TMG  
CHECKED BY: TMG 11/11

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S3-9
1			3			TOTAL SHEETS
2			4			46

STR. #3

STD. NO. 33PCBB8-75&105S