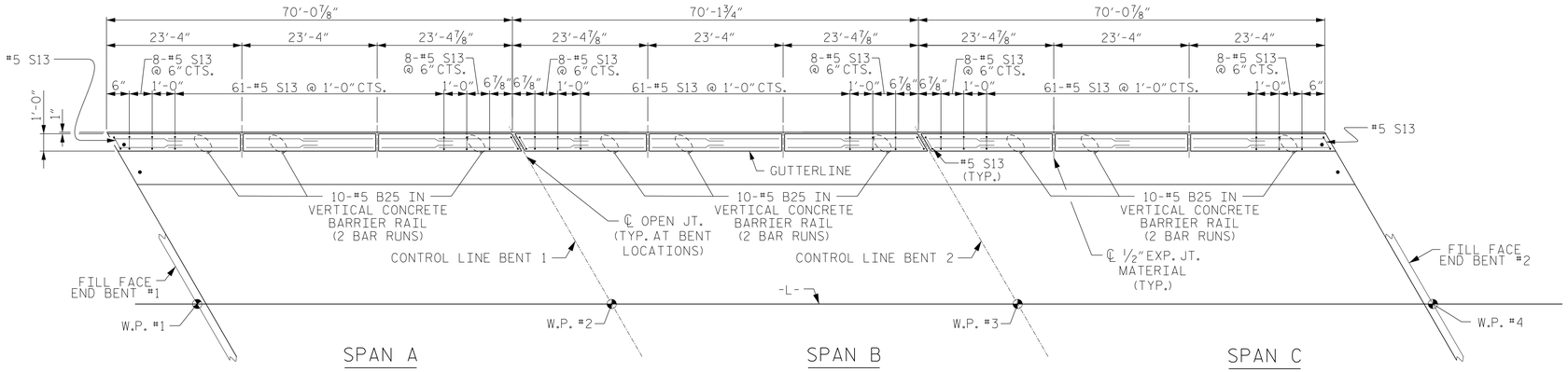


PLAN OF PARAPET

LEFT PARAPET SHOWN, RIGHT PARAPET SIMILAR
S13 BARS SHOULD BE SPACED TO MATCH S12 BARS IN EXTERIOR CORED SLAB UNITS

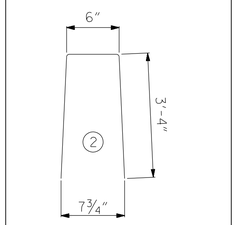
CONTROL LINE BENT 2

NOTES

ALL REINFORCING STEEL IN VERTICAL CONCRETE 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. A 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.

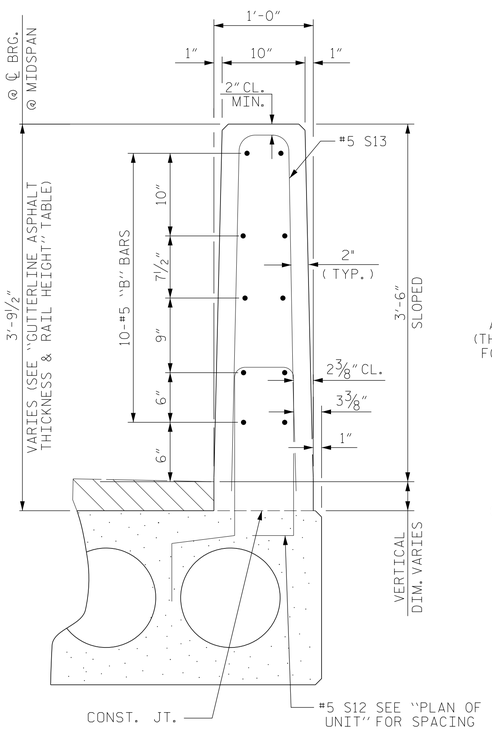
BAR TYPES



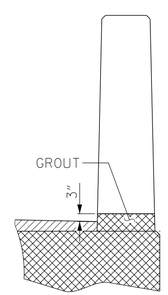
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR VERTICAL CONCRETE BARRIER RAIL

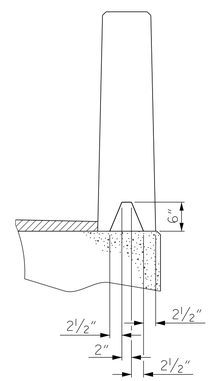
BAR	BARS PER PAIR OF EXTERIOR UNITS	TOTAL NO.	SIZE	TYPE	LENGTH	WEIGHT
	70' UNIT					
*B25	120	360	#5	STR	13'-8"	5132
*S13	158	474	#5	2	7'-2"	3543
* EPOXY COATED REINFORCING STEEL				LBS.		8675
CLASS AA CONCRETE				CU.YDS.		54.3
TOTAL VERTICAL CONCRETE BARRIER RAIL				LN. FT.		420.87



SECTION THRU RAIL



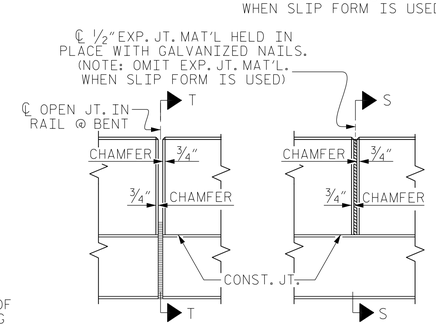
SECTION T-T
AT OPEN JOINT AT BENT
(THIS IS TO BE USED WHERE FOAM JOINT IS NOT USED)



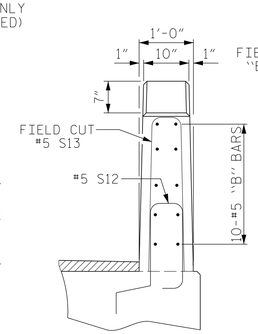
SECTION S-S
AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

GUTTERLINE ASPHALT THICKNESS & RAIL HEIGHT

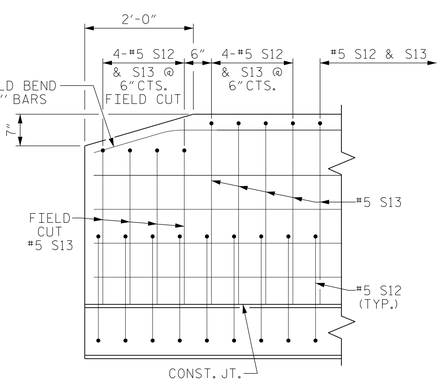
	ASPHALT OVERLAY THICKNESS @ MID-SPAN	RAIL HEIGHT @ MID-SPAN
70' UNITS	2"	3'-8"



ELEVATION AT EXPANSION JOINTS



END VIEW



SIDE VIEW

VERTICAL CONCRETE BARRIER RAIL DETAILS

END OF RAIL DETAILS

PROJECT NO. B-5145
PERSON COUNTY
STATION: 14+50.00 -L-

SHEET 6 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

VERTICAL CONCRETE BARRIER RAIL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 041425 ENGINEER JEFFREY M. LOFTUS

DocuSigned by: Jeff Loftus 5/9/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STEWART
Firm License No. C-1051
421 Fayetteville St, Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-10
1			3					TOTAL SHEETS
2			4					22

DRAWN BY:	J. LOFTUS	DATE :	6/17
CHECKED BY:	E. PHELPS	DATE :	9/17
DESIGN ENGINEER OF RECORD:	J. LOFTUS	DATE :	10/17

R 2707C_SITE 3

4/17/2018
...\400_010_B5145_SMU_SUP06.dgn
USER:jloftus

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