

ELEVATION AT EXPANSION JOINTS

DES BY: _L.ZAMPETTI	DATE :07/19	DWG BY: _M. SELLS	DATE: 07/19
DES CHK: J. ROBERTS	DATE :07/19	CHK BY: S.NIFONG	DATE : <u>11/19</u>

PEN ST PENTABLE: NCDOT S TIME: 4:03:38 PM

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DRIVER: NCDOT_pdf_color_eng_50.plt PPETERSO DATE: 10/14/2021 ...\SUPERS ER.

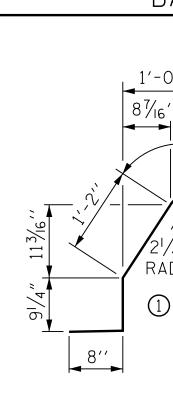
NOTES

THE BARRIER RAIL IN EACH 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.

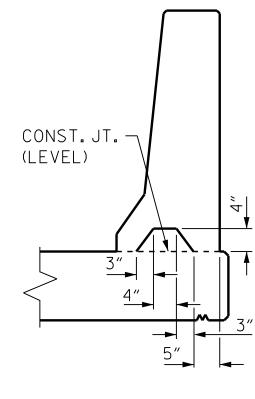
ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " 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.

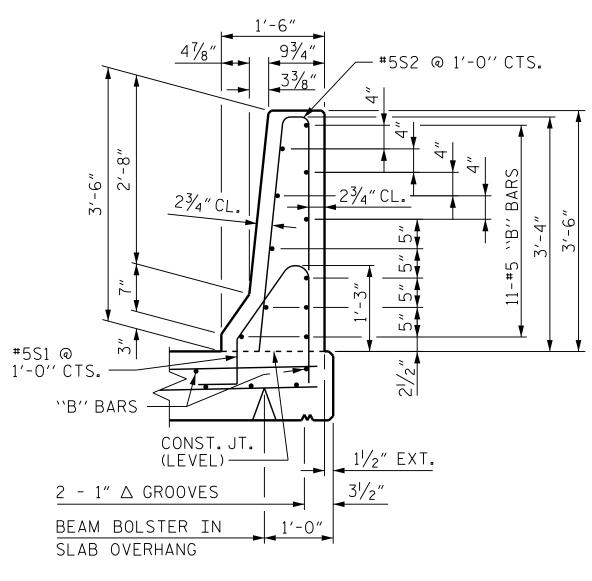
SEE "BRIDGE APPROACH SLAB" SHEETS FOR BARRIER RAIL CONSTRUCTED ON APPROACH SLABS AND END OF RAIL DETAILS.



(ALL BAR DIM



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



SECTION THROUGH RAIL

BARRIER RAIL DETAILS



BAR TYPES		F	3 T I I	OF I	MATERIA	
	FOR CONCRETE BARRIER RAIL ON BRIDGE DECK ONLY					
$-0^{1}/2^{1}$				UNI	Τ 1	
<u> </u>	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
$5^{3}/_{4}$	米 B1	11	# 5	STR	23′-5″	269
	₩ B2	11	# 5	STR	28'-11"	332
	₩ B3	11	# 5	STR	25'-0"	287
	₩ B4	11	# 5	STR	29'-1"	334
	₩ B26	88	# 5	STR	25′-7″	2,349
21/4''	米 B28	110	# 5	STR	27'-7"	3,165
	米 B29	407	# 5	STR	28'-7"	12,134
	₩ B30	55	# 5	STR	29′-7″	1,698
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	* S1	1,821	# 5	1	4'-8"	8,864
	* S2	1,821	# 5	2	7'-0″	13,296
	₩EP0	XY COA	ATED			10 700 1 00
MENSIONS ARE OUT TO OUT)	REI	NFORC	ENG ST	EEL		42,728 LBS.
	CLASS	5 AA C	ONCRE	TE	24	47.3 CU.YDS.
	CONCRETE BARRIER RAIL 1,819.8 LIN.FT.					19.8 LIN.FT.
	UNIT 2					
	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
	₩ B5	11	# 5	STR	29'-2"	335
	米 B6	11	# 5	STR	28'-11"	332
	米 B7	11	# 5	STR	28'-3"	325
	米 ₿8	11	# 5	STR	26'-3"	302
	米 B26	121	# 5	STR	25'-7"	3,229
	米 B27	231	# 5	STR	26'-7"	6,405
	米 B28	209	# 5	STR	27'-7"	6,013
	米 B29	132	# 5	STR	28'-7"	3,936
	米 ВЗО	33	# 5	STR	29'-7"	1,019
	* S1	1,939	# 5	1	4'-8"	9,438
	* S2	1,939	# 5	2	7'-0"	14,157
	* EPOXY COATED45,491 LBSREINFORCING STEEL263.4 CU. YDS				45,491 LBS.	
					63.4 CU.YDS.	
	CONCRETE BARRIER RAIL 1				1,93	37.7 LIN.FT.

PROJECT NO. U-2579AB

FORSYTH _ COUNTY

STATION: 60+66.06 -Y15FLYAC-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SUPERSTRUCTURE CONCRETE BARRIER RAIL DETAILS

	HCARO	****
DOWLY DOWLY	H CARO FESSION SEAL 29589	N.
DONKE	29589	
*******	C A. C	an and the second se

Domeni A. Coletti 10/15/2021

REVISIONS					SHEET NO.	
N0 .	BY:	DATE:	N0.	BY:	DATE:	S04-081
1			3			TOTAL SHEETS
2			4			144 IV

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED