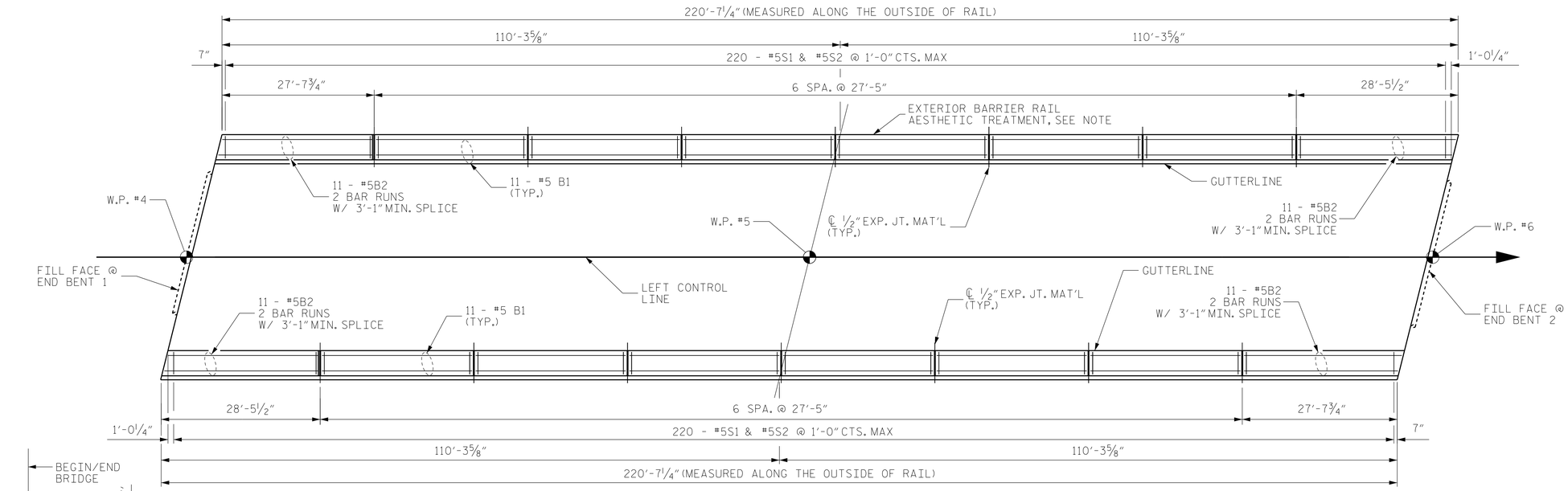
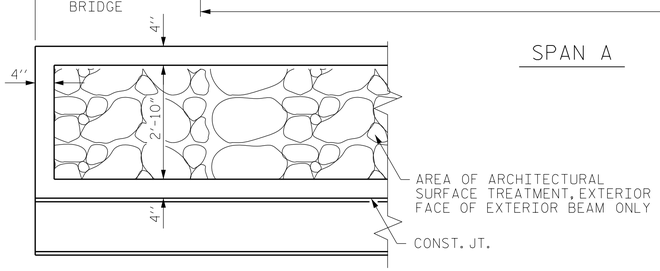


SPAN A

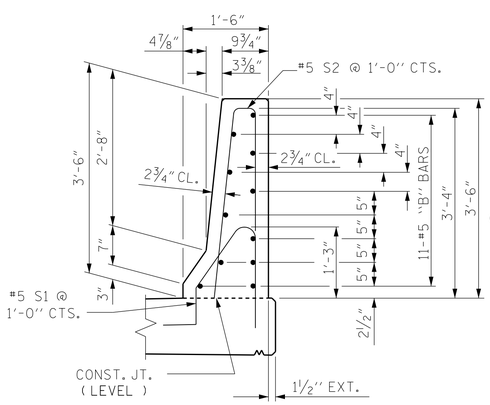
SPAN B

PLAN OF RAIL

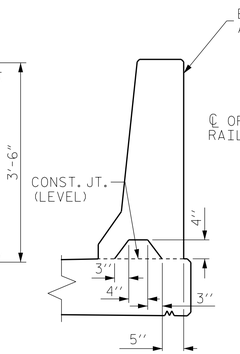
ALL DIMENSIONS ARE MEASURED ALONG OUTSIDE FACE OF RAIL



FORM LINED ARCHITECTURAL TREATMENT

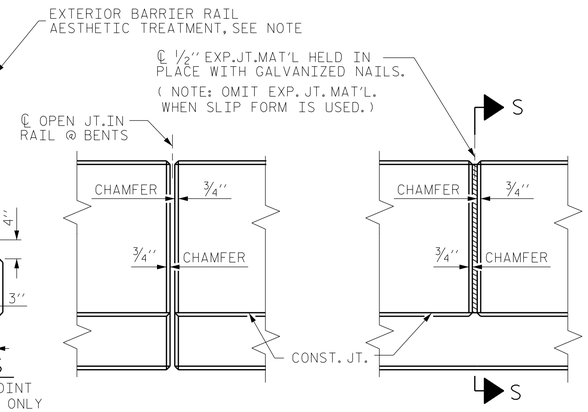


SECTION THRU RAIL



SECTION S-S

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



ELEVATION AT EXPANSION JOINTS

BARRIER RAIL DETAILS

NOTES

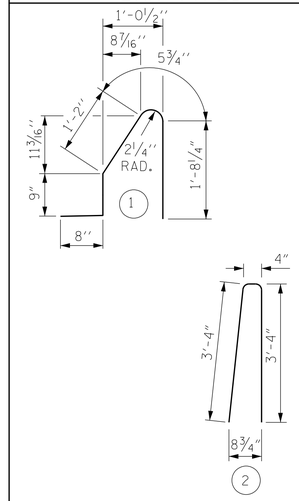
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

GROOVED CONTRACTION JOINTS, ½" 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.

EXTERIOR FACE OF CONCRETE BARRIER RAIL SHALL BE FORMED USING AN AHSLAR STONE PATTERN FORM LINER. CONTRACTOR SHALL PROVIDE SAMPLE OF PROPOSED ASHLAR STONE PATTERN FOR APPROVAL BY THE ENGINEER. PATTERN FORM LINER SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND THE NCDOT AESTHETICS GUIDANCE PATTERN BOOK, SEE SPECIAL PROVISIONS.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	132	#5	STR.	27'-1"	3729
* B2	88	#5	STR.	15'-7"	1430
* S1	440	#5	1	4'-9"	2180
* S2	440	#5	2	7'-7"	3212

* EPOXY COATED REINFORCING STEEL	10551 LBS.
CLASS AA CONCRETE	60 CU. YDS.
CONCRETE BARRIER RAIL	441.2 LIN. FT.
ARCHITECTURAL CONCRETE SURFACE TREATMENT	623.2 SQ. FT.

PROJECT NO. R-5737

DAVIDSON COUNTY

STATION: 61+02.86 -L-

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

NORTH CAROLINA PROFESSIONAL SEAL 030046 ENGINEER MATTHEW PAYNE

DocuSigned by: Matthew Payne 9/14/2021
E7C3056295FF484...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CONCRETE BARRIER RAIL

REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.	
1			3			S1-15	
2			4			TOTAL SHEETS	
						25	

DRAWN BY :	JAE	DATE :	8/21
CHECKED BY :	ZHB	DATE :	8/21
DESIGN ENGINEER OF RECORD:	MTP	DATE :	8/21

$$$$$$$SYSTIME$$$$$ $$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$ $$$$USERNAME$$$$