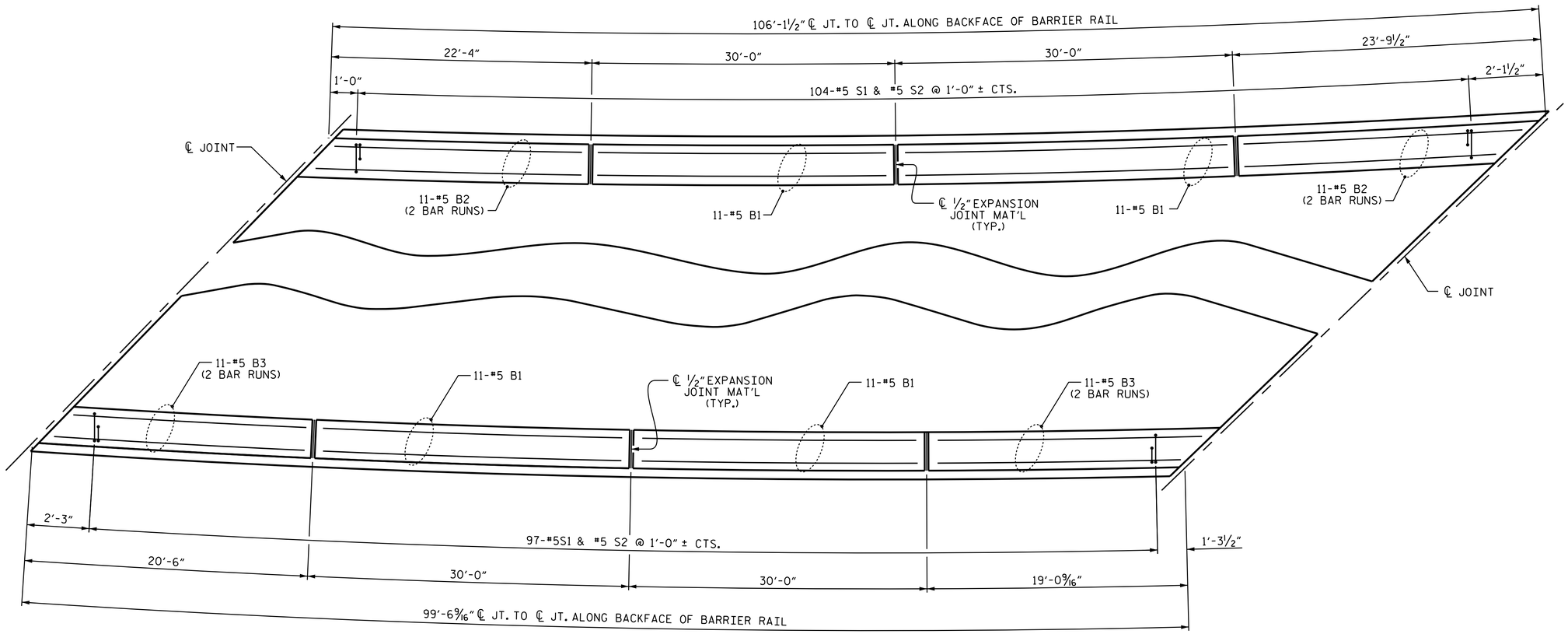
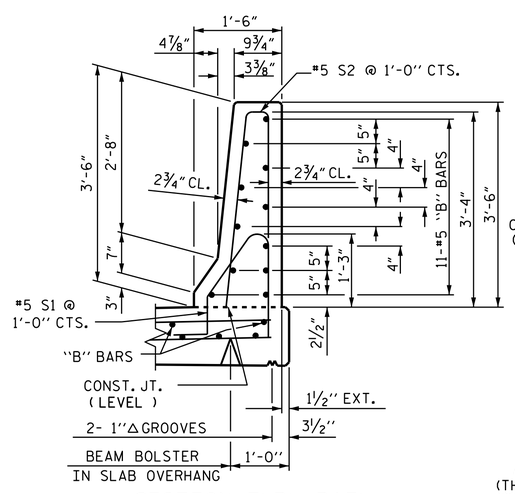
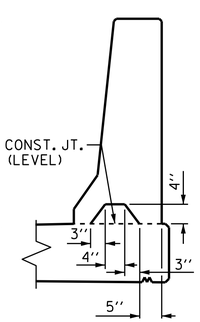


PLAN OF BARRIER RAIL

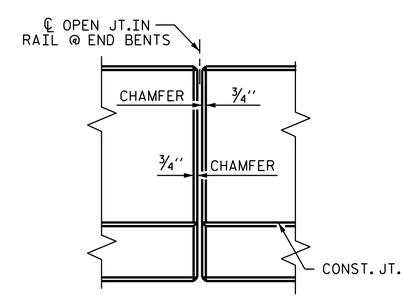


SECTION THRU RAIL



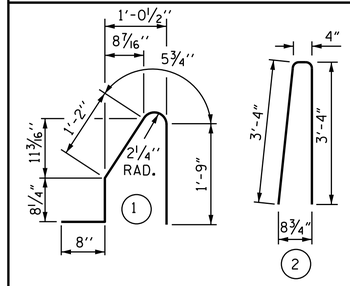
SECTION S-S

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



ELEVATION AT EXPANSION JOINTS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳ B1	44	#5	STR	29'-7"	1358
✳ B2	44	#5	STR	13'-6"	620
✳ B3	44	#5	STR	11'-10"	543
✳ S1	201	#5	1	4'-9"	996
✳ S2	201	#5	2	7'-0"	1468
✳ EPOXY COATED REINFORCING STEEL					4985 LBS.
CLASS AA CONCRETE					27.98 CU. YDS.
★ CONCRETE BARRIER RAIL					205.67 LIN. FT.

★ QUANTITIES FOR BARRIER RAIL ON APPROACH SLABS ARE NOT INCLUDED. FOR BARRIER RAIL ON APPROACH SLAB, SEE "BRIDGE APPROACH SLAB DETAILS" SHEET.

NOTES

THE BARRIER RAIL IN THE SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE 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.

PROJECT NO. B-5119
GUILFORD COUNTY
STATION: 12+32.31 -RP-

NORTH CAROLINA PROFESSIONAL SEAL 29441 ENGINEER KRISTY W. ALFORD

DocuSigned by: F2458389308F40E...
11/25/2014

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
CONCRETE BARRIER RAIL

BARRIER RAIL DETAILS

ASSEMBLED BY : J.P. ADAMS DATE : 10/2014
CHECKED BY : D.R. SHACKELFORD DATE : 10/2014

DRAWN BY : ARB 5/87
CHECKED BY : SJD 9/87

REV. 10/11/11 MAA/GM
REV. 7/12 MAA/GM
REV. 6/13 MAA/GM

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

SHEET NO. S-62
TOTAL SHEETS 77

STD. NO. CBR1 (SHT 2)

25-NOV-2014 10:59
T:\Structures\Plans\New Plans\B-5119_SD_BR.dgn
jpadams