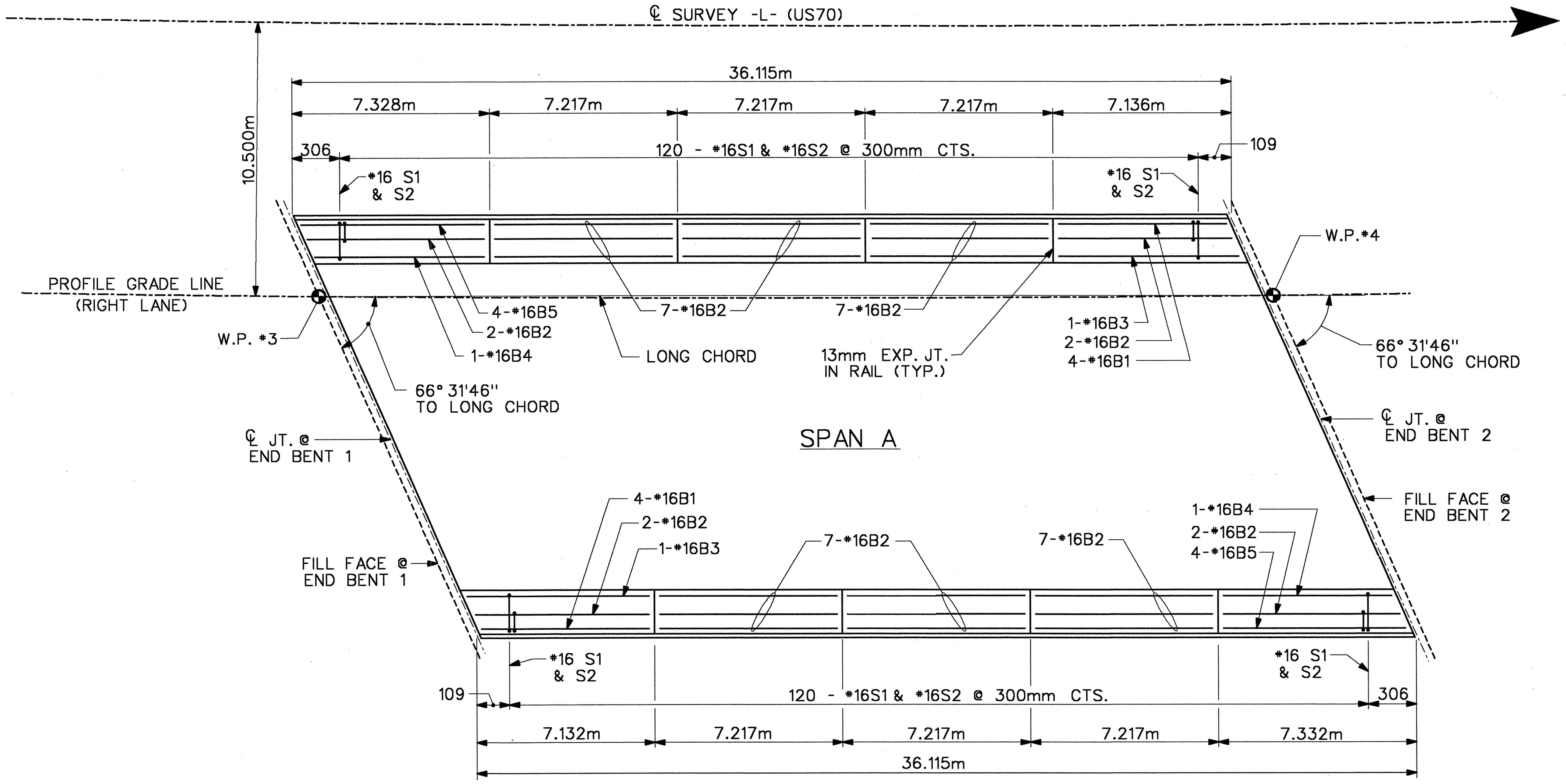
NOTES

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 20.7 MPa.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

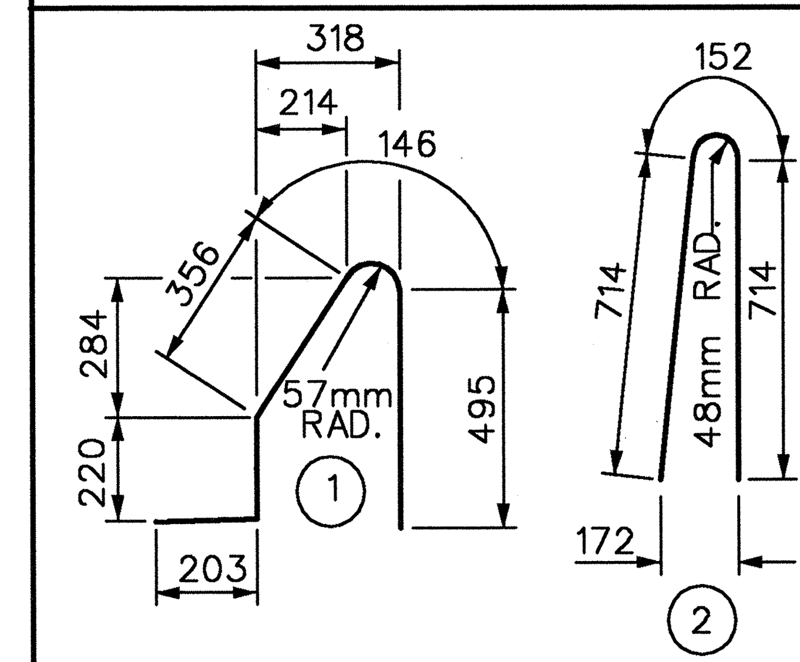
VERTICAL GROOVED CONTRACTION JOINTS, 12mm IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 6.1m IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.



PLAN

NOTE: DISTANCES ARE MEASURED ALONG OUTSIDE FACE OF BARRIER RAIL.

BAR TYPES



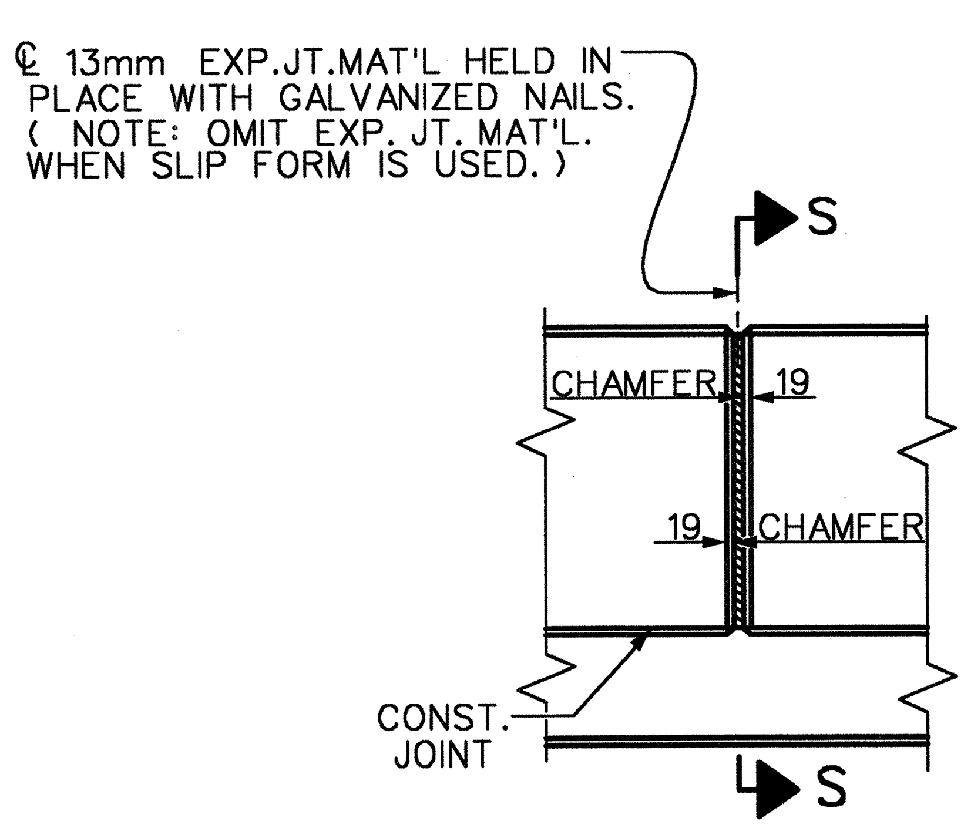
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

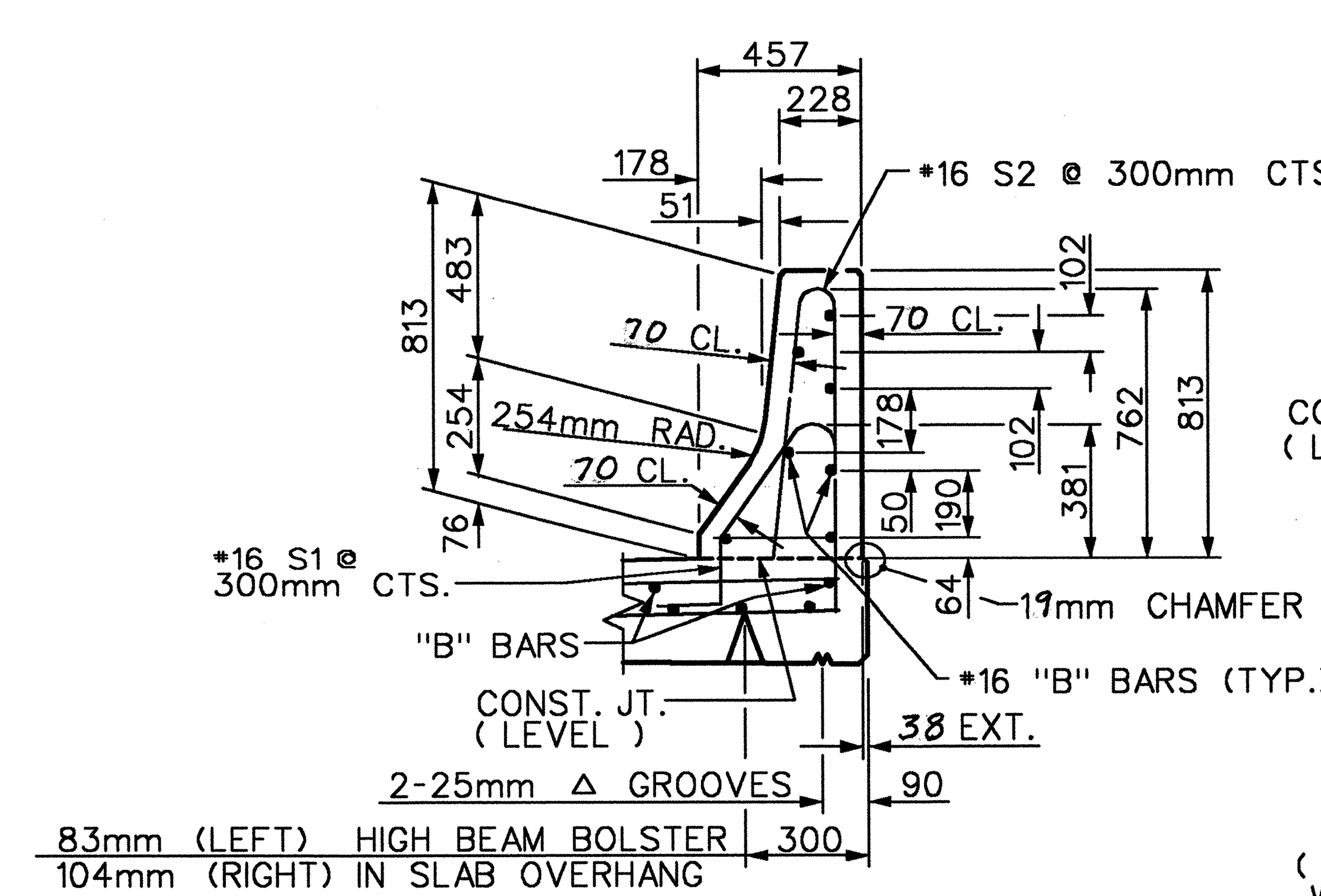
FOR CONCRETE BARRIER RAIL ONLY

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
∗ S1	240	•16	1	1420	529
∗ S2	240	•16	2	1580	589
∗ B1	8	•16	STR	7040	87
∗ B2	50	•16	STR	7100	551
∗ B3	2	•16	STR	7180	22
∗ B4	2	•16	STR	7020	22
∗ B5	8	•16	STR	7160	89

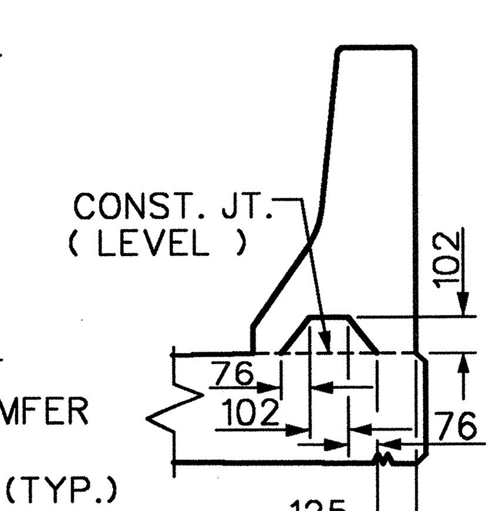
∗EPOXY COATED REINFORCING STEEL	1889 kg
CLASS AA CONCRETE	18.13 CU. METER
CONCRETE BARRIER RAIL	72.230 METERS



ELEVATION AT EXPANSION JOINTS



SECTION THRU RAIL



SECTION S-S

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

BARRIER RAIL DETAILS

PROJECT NO. R-2552B

JOHNSTON COUNTY

STATION: 78+35.547 -L-
12+97.374 -Y10-

THIS STANDARD DRAWING REVIEWED AND ADAPTED FOR USE AT THE REFERENCED LOCATION BY THE UNDERSIGNED.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025[illegible] ADAM J. REEDER

2-13-04

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

CONCRETE BARRIER RAIL

(RIGHT LANE)

REVISIONS								SHEET NO. S-65
NO.	BY:	DATE:		NO.	BY:	DATE:		TOTAL SHEETS 431
1				3				
2				4				

ASSEMBLED BY : AR	DATE : 10/03
CHECKED BY : JL	DATE : 10/03

DRAWN BY : ARB 5/87	REV. 8/16/99	RWW/LES
CHECKED BY : SJD 9/87	REV. 10/17/00	RWW/LES
	REV. 5/7/03	RWW/JTE

STD. NO. CBR1