

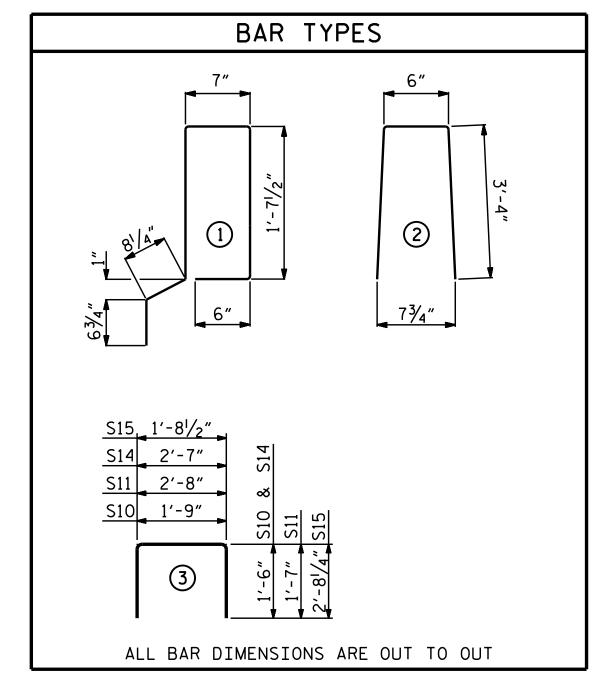
ELASTOMERIC BEARING DETAILS

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

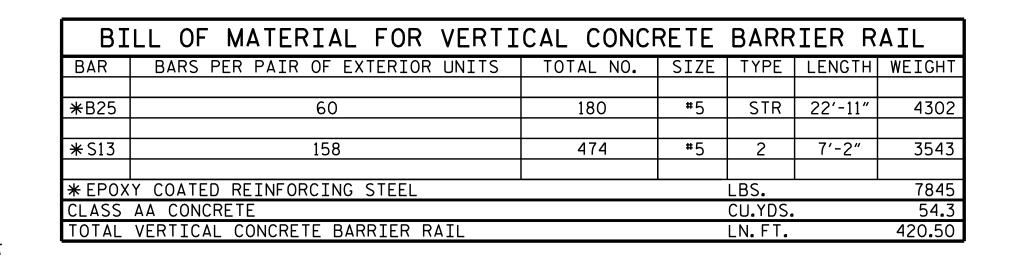
DEAD LOAD DEFLECTION AN	ND CAMBER		
70'CORED SLAB UNIT	0.6″Ø L.R. STRAND		
CAMBER (SLAB ALONE IN PLACE)	2 ¹ / ₄ "		
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD ***	3/4″ ♦		
FINAL CAMBER	11/2"		

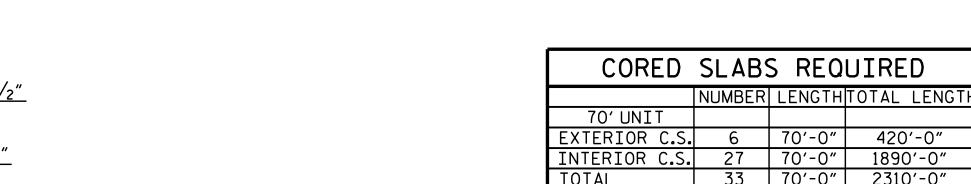
				EXTERI	OR UNIT	INTERIOR UNIT			
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT		
B22	6	#4	STR	24'-6"	98	24'-6"	98		
S10	8	# 5	3	4′-9″	40	4′-9″	40		
S11	144	#4	3	5′-10″	561	5′-10″	561		
* S12	79	#5	1	5′-7″	460				
S14	4	#4	3	5′-7"	15	5′-7"	15		
S15	4	#5	3	7'-1"	30	7'-1"	30		
	ORCING S		LB:	5.	744		744		
	XY COATE NFORCING		LB:	S .	460				
7000	P.S.I. CO	NCRETE	CU. YDS).	11.8		11.8		

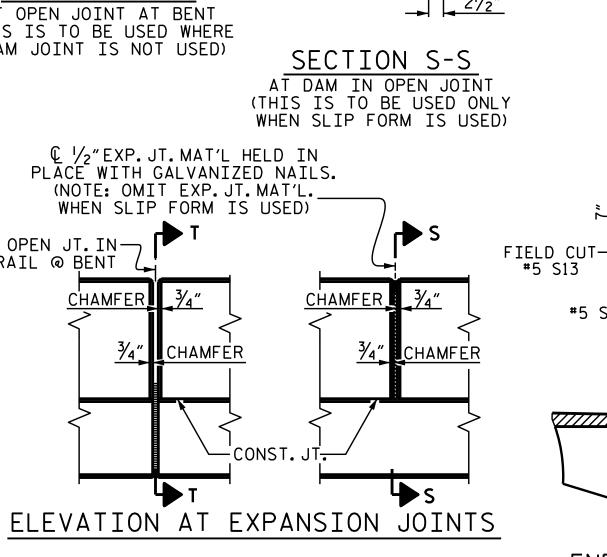
GUTTERLINE ASP	HALT THICKNESS & RAI	L HEIGHT
	ASPHALT OVERLAY THICKNESS @ MID-SPAN	RAIL HEIGHT @ MID-SPAN
70' UNITS	2"	3'-8"

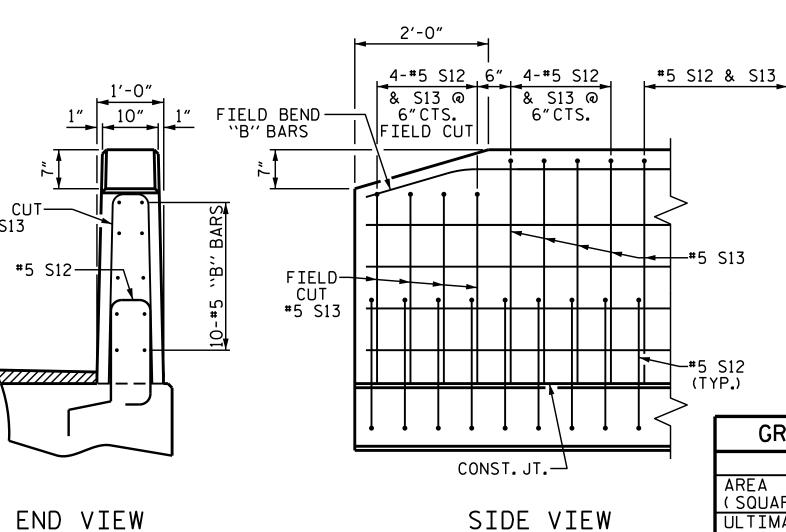












END OF RAIL DETAILS

GRADE 270 STRANDS 0.6" Ø L.R. TO CHOINES OF 0.217 (SQUARE INCHES) ULTIMATE STRENGTH 58,600 (LBS.PER STRAND tut I. W. ayou APPLIED PRESTRESS (LBS.PER STRAND) 43,950

UNIT

70'UNITS

STATION: 13+62.50 -L-PSI 5500 SHEET 3 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NOTES

270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE

THE 21/2" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE

THE BACKER RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

STRENGTH OF NOT LESS THAN THE REQUIRED STRENGTH SHOWN IN THE

ALL REINFORCING STEEL IN VERTICAL CONCRETE BARRIER RAILS SHALL

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

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. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF

SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.

BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO

MAINTAIN A SYMMETRIC TENSION FORCE BETWEEN EACH PAIR OF

TRANSVERSE POST TENSIONING STRANDS IN THE DIAPHRAGM.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.

THE PRICE BID FOR THE PRECAST UNITS.

CEESSION

SEAL 29441

CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN

FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT

THE #4 S11 STIRRUPS MAY BE SHIFTED AS NECESSARY TO MAINTAIN 1"

THE PERMITTED THREADED INSERTS ARE DETAILED AS AN OPTION FOR THE CONTRACTOR TO ATTACH FALSEWORK AND FORMWORK DURING CONSTRUCTION.

THE PERMITTED THREADED INSERTS IN THE EXTERIOR UNITS SHALL BE

SIZED BY THE CONTRACTOR, SPACED AT 4'-0" CENTERS AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS.

STAINLESS STEEL THREADED INSERTS MAY BE USED AS AN ALTERNATE.

THE PERMITTED THREADED INSERTS SHALL BE GROUTED BY THE CONTRACTOR

THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN

WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. AT LEAST

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT

SIX WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE

REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD

SPECIFICATIONS.

BE EPOXY COATED.

10 FEET IN LENGTH.

CLEAR TO THE GROUTED RECESS.

ALLOWED.

CONCRETE RELEASE STRENGTH

PRESTRESSED CONCRETE CORED SLABS.

TENSIONING OF THE STRANDS.

FILLED WITH NON-SHRINK GROUT.

"CONCRETE RELEASE STRENGTH" TABLE.

STANDARD

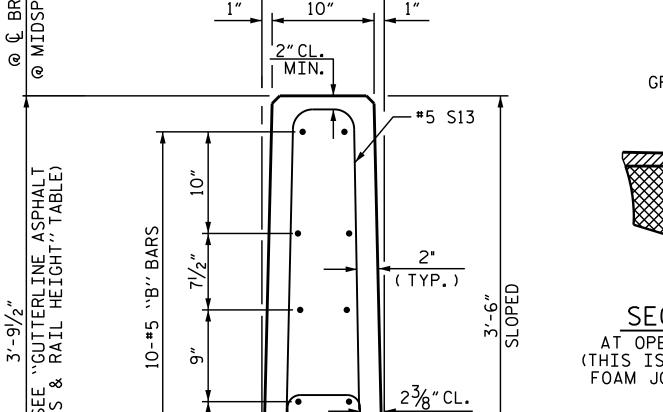
PROJECT NO. <u>B-5327</u>

COUNTY

PERSON

2'-0" PRESTRESSED CONCRETE CORED SLAB UNIT

5/23/2017	REVISIONS				SHEET NO.		
CUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-7
FINAL UNLESS ALL	1			3			TOTAL SHEETS
IGNATURES COMPLETED	2			4			18



VARIES THICKNE

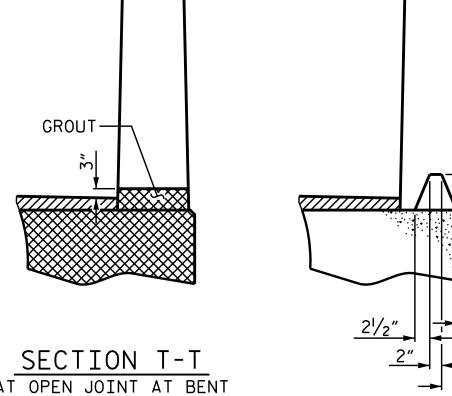
CONST. JT. —

ASSEMBLED BY: William F. Parker DATE: 08/2016CHECKED BY: A. SORSENGINH DATE: 10/2016

DRAWN BY: MAA 6/10 REV. 11/14 MAA/TMG

SECTION THRU RAIL

** INCLUDES FUTURE WEARING SURFACE



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

© 1/2"EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS. (NOTE: OMIT EXP.JT.MAT'L. WHEN SLIP FORM IS USED) © OPEN JT.IN— RAIL @ BENT CHAMFER CHAMFER CHAMFER ONST.J1

VERTICAL CONCRETE BARRIER RAIL DETAILS

-#5 S12 SEE "PLAN OF UNIT" FOR SPACING

23-MAY-2017 09:48 R:\Structures\Plans\B5327_SMU_01_CS.dgn

STD. NO. 24PCS3_33_90S