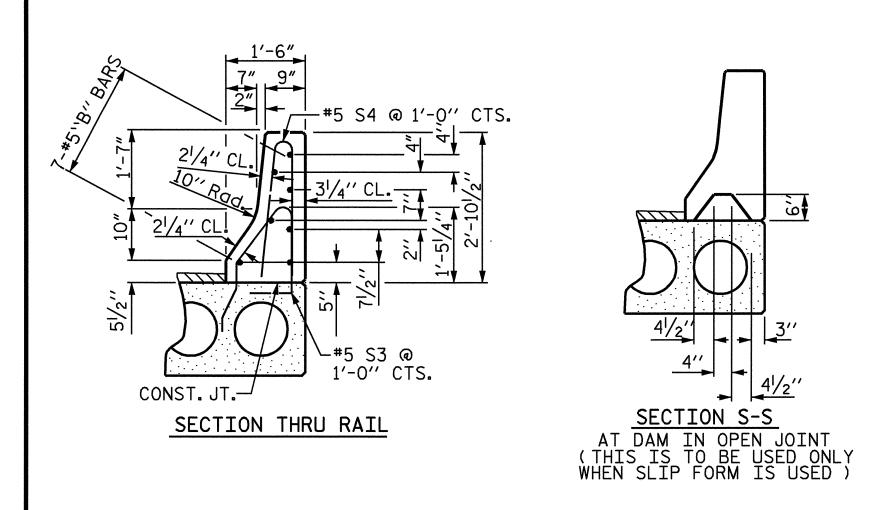
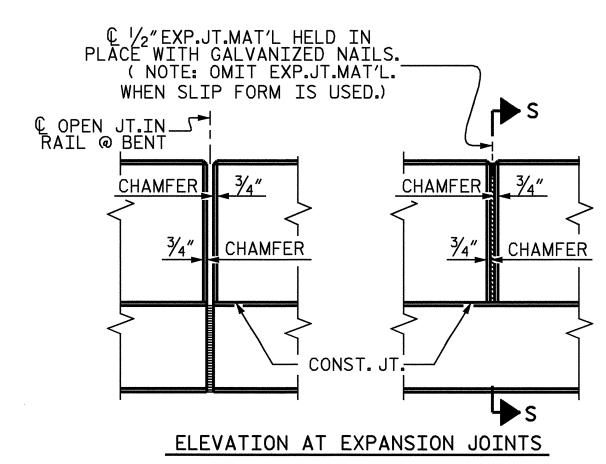


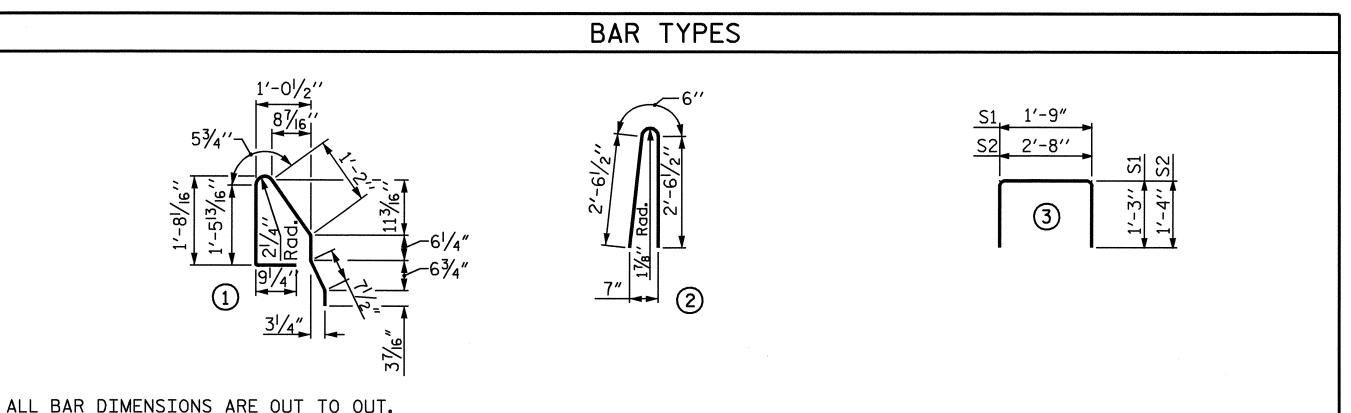
## ELASTOMERIC BEARING DETAILS





BARRIER RAIL DETAILS

ASSEMBLED BY : B.N.BARODAWALA DATE :10-30-02 CHECKED BY : S.H. SOCKWELL DATE : 4-25-03 DRAWN BY : WJH 4/89 REV. 10/17/00 RWW/LES CHECKED BY : FCJ 5/89 REV. 7/10/01 RWW/LES REV. 5/7/03 RWW/JTE



				STAGE I					STAGE II				
				TYPE :	I UNIT	TYPE I	I UNIT	TYPE I	II UNIT	TYPE I	V UNIT	TYPE \	V UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
<b>★</b> B1	4	#4	STR	23'- 4"	62	23'- 4"	62	23'- 4"	62	23'- 4"	62	23'- 4"	62
* S1	8	#5	3	4'- 3"	35	4'- 3"	35	4'- 3"	35	4'- 3"	35	4'- 3"	35
* S2	88	#4	3	5'- 4"	314	5'- 4"	314	5'- 4"	314	5'- 4"	314	5'- 4"	314
* S3	46	#5	1	5'- 4"	256							5'- 4"	256
	L COATE Y COATE IFORCING		LBS.		L 667		411		411		411		<u> </u> 667
	P.S.I. CC		CU. YDS.		6.4		6.4		6.7		6.4		6.4
1/2"Ø	L.R. STRA	NDS	No.		20		20		20		20		20

BILL OF MATERIAL FOR ONE CORED SLAB SECTION

D LOAD DEF	LECTION AN	ND CAMBER			
STAGE I			STAGE II		
TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V	
½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	½″Ø L.R. STRAND	
1% <sub>6″</sub> ∤	19⁄ <sub>16</sub> ″ ∤	1 <sup>3</sup> ⁄8″ <b>Å</b>	1% <sub>6″</sub> ∤	1 <sup>9</sup> ⁄ <sub>16</sub> ″ <b>∤</b>	
3/16″ ♦	3/16″ ♦	3/16″ ₩	3/16″ ♦	3/16″ ₩	
13⁄8″ ♠	1 <sup>3</sup> ⁄8″ <b>∤</b>	1 <sup>3</sup> ⁄ <sub>16</sub> " <b>♦</b>	1 <sup>3</sup> ⁄8″ <b>Å</b>	13⁄8″ Å	
	TYPE I  1/2"Ø L.R.  STRAND  19/16"   3/16"	TYPE I       TYPE II         ½"Ø L.R.       ½"Ø L.R.         STRAND       STRAND         1%6" ↓       1%6" ↓         ¾6" ↓       ¾6" ↓	TYPE I TYPE II TYPE III $1/2$ "Ø L.R. $1/2$ "Ø L.R. $1/2$ "Ø L.R. STRAND $19/16$ " $19/16$ " $19/16$ " $13/8$ " $13/8$ " $13/8$ " $13/6$ " $13/6$ " $13/6$ " $13/6$ " $13/6$ "	STAGE I         TYPE I       TYPE II       TYPE III       TYPE IV         ½"Ø L.R.       ½"Ø L.R.       ½"Ø L.R.         STRAND       STRAND       STRAND         1%6" ↑       1%6" ↑       1%6" ↑         ¾6" ↑       ¾6" ↑       ¾6" ↑	

			BILL	OF MA	TERIAL I	FOR COI	NCRETE	BARRIE	RAIL		
			BARS PE	ER SPAN		STAGE I			STAGE II		TOTAL
BAR	SIZE	TYPE	SPAN A	SPAN B	TOTAL NO.	LENGTH	WEIGHT	TOTAL NO.	LENGTH	WEIGHT	WEIGHT
<b>★</b> B2	#5	STR	14	14	28	22'-2"	647	28	22'-2"	647	1294
* S4	#5	2	46	46	92	5′-7″	536	92	5′-7″	536	1072
*EPOXY COATED REINFORCING STEEL LBS.				1183			1183		2366		
CLASS AA CONCRETE CU. YDS.				10.1			10.1		20.2		
TOTAL LIN. FT. OF CONCRETE BARRIER RAIL					90.25			90.25		180.50	

	CORED SLABS REQUIRED									
		NUMBER	LENGTH	TOTAL LENGTH						
	TYPE I	2	45′-0″	90′-0″						
	TYPE II	6	45′-0″	270′-0″						
STAGE I	TYPE III	2	45′-0″	90′-0″						
	STAGE I TOTAL	10	45′-0″	450′-0″						
	TYPE IV	16	45′-0″	720′-0″						
STAGE II	TYPE V	2	45′-0″	90′-0″						
STAGE II	STAGE II TOTAL	18	45′-0″	810'-0"						
	TOTAL	28	45′-0″	1260′-0″						

## NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

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

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE  $2^{1}/_{2}$ "Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE  $2^{1}/_{2}$ "Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO  $1^{1}/_{2}$ " ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

VERTICAL GROOVED CONTRACTION JOINTS, 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 VERTICAL 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.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

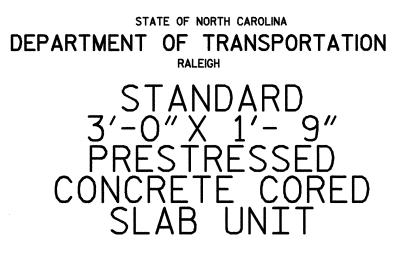
PRESTRESSED CONCRETE CORED SLAB UNITS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR. SEE SPECIAL PROVISIONS FOR CALCIUM NITRITE CORROSION INHIBITOR.

PROJECT NO. B-3626

CARTERET COUNTY

STATION: 20+29.50 -L-





	SHEET NO.				
BY:	DATE:	NO. BY: DATE:			S-11
		3			TOTAL SHEETS
		4			23