

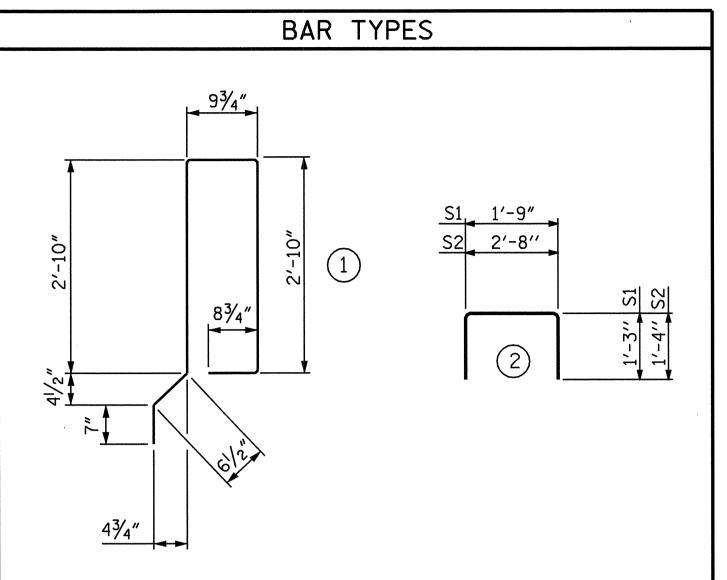
(TYPE I - 48 REQ'D)

ELASTOMERIC BEARING DETAILS

(TYPE II - 48 REQ'D)

GRADE 270 STRANDS					
	1/₂″Ø L.R.				
AREA (SQUARE INCHES)	0.153				
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300				
APPLIED PRESTRESS (LBS. PER STRAND)	30,980				
(LBS. PER STRAND)	30,980				

CORE) S	LABS	REQUIRED		
		NUMBER	LENGTH	TOTAL LENGTH	
EXTERIOR			49'-101/2"	399'-0"	
INTERIOR	C.S.	40	49'-101/2"	1995'-0"	
TOTAL		48	***************************************	2394′-0″	



ALL BAR DIMENSIONS AR	E OUT TO OUT
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BIL	L OF	MATE	RIAL	FOR ONE	CORED	SLAB S	ECTION	
			EXTERIOR UNIT		INTERIOR UNIT			
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B1	4	# 4	STR	26'-0"	69	26'-0"	69	
S1	8	# 4	2	4'-3"	23	4'-3"	23	
S2	98	# 4	2	5′-4″	349	5′-4″	349	
* S3	51	# 5	1	8'-4"	443	Name and the second sec	ni de constitución de constitu	
REINFO	REINFORCING STEEL LBS. 441					4.	41	
* EPOX	* EPOXY COATED REINFORCING STEEL LBS. 443						Supplemental and a supplemental	
5,000 P.S.I. CONCRETE				CU. YDS. 6.8		6.8		
1/2" Ø L	.R. STRA	NDS		ľ	No. 23	2	23	

DEAD LOAD DEFLECTION	N AND CAMBER
	3'-0"× 1'-9"
	½″Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	21/16"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	3⁄8″ ♦
FINAL CAMBER	1"/16"
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** INCLUDES FUTURE WEARING SURFACE

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 LUMP SUM PRICE BID FOR CONSTRUCTION OF SUPERSTRUCTURE.

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 8 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.

FOR ELASTOMERIC BEARINGS. SEE SPECIAL PROVISIONS.

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 IN PARAPET AND END POSTS 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, ½"IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A VERTICAL CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN PARAPET EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

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

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

PROJECT NO. B-3496

NEW HANOVER COUNTY

STATION: 17+67.00 -L-

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DEPARTMENT OF TRANSPORTATION

RALEIGH

BILL OF MATERIAL,

DEAD LOAD

DEFLECTIONS

& BEARING DETAILS

00	OCTOBER 1981						
		REVI	SIONS	5		SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-15	
1			3			TOTAL SHEETS	
2			4			28	