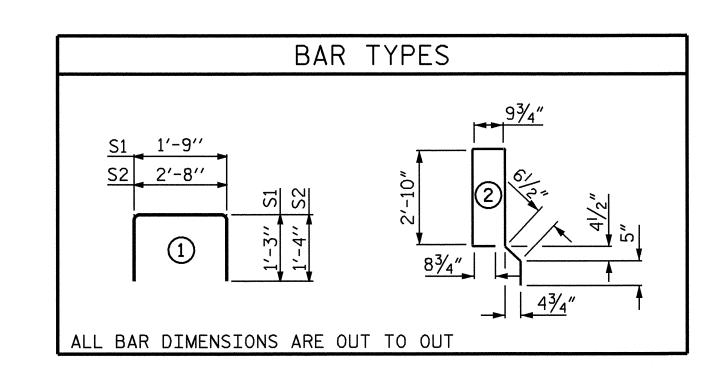
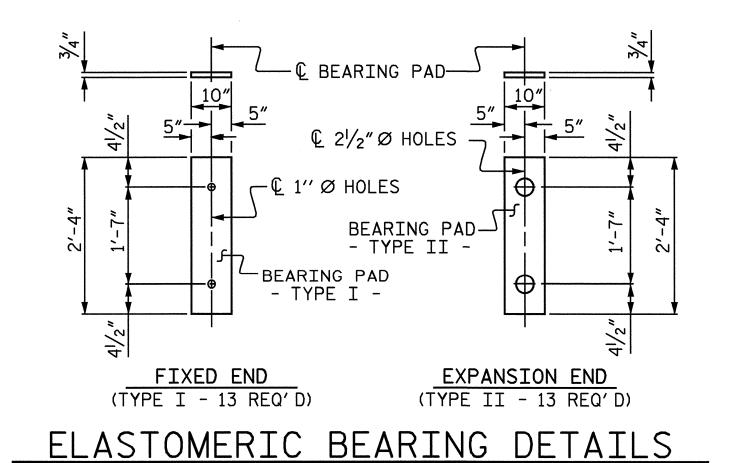
				ВЭ	ILL OF	MATER	IAL FOR	R ONE	CORED :	SLAB S	ECTION				
				STAGE 1								STAGE 2			
			TYPE I UNIT TYPE II UNIT		TYPE III UNIT		TYPE IV UNIT		TYPE V UNIT		TYPE VI UNIT				
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	4	#4	STR	24'-11"	67	24'-11"	67	24'-11"	67	24'-11"	67	24'-11"	67	24'-11"	67
S1	8	#5	1	4'-3"	35	4'-3"	35	4'-3"	35	4'-3"	35	4'-3"	35	4'-3"	35
S2	94	#4	1	5′-4″	335									5′-4″	335
S2	76	#4	1			5′-4″	271	5′-4″	271	5′-4″	271	5′-4″	271		
* S3	49	#5	2	8'-2"	417					-	***************************************			8'-2"	417
REINF	ORCING S	TEEL	LBS.		<u> </u> 437		<u> </u> 373		<u> </u> 373		373		373		<u> </u> 437
*EPOXY COATED REINFORCING STEEL		LBS.		417						· 				417	
5,000	P.S.I. CO	NCRETE	CU. YDS.		6.8		6.7		8.1		6.7		6.6		6.7
1/2" Ø L.R. STRANDS		NDS	No.		23		23		23		23		23		23



DEAD LOAD DEFLECTION AND CAMBER								
		STA	STAGE 2					
	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V	TYPE VI		
	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	½″Ø L.R. STRAND		
CAMBER (SLAB ALONE IN PLACE)	2 ¹ / ₁₆ " ∤	21/16″ ┡	1 ¹ 1∕16″ ♦	2½ ₆ ″ 🛉	2 / ₁₆ " ∤	21/16"		
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD **	1/4″ ♦	1/4″ ♦	1/4″ ♦	1/4″ ♦	1/4″ ♦	1/4″ ♦		
FINAL CAMBER	1 ¹³ ⁄ ₁₆ " ∤	1 ³ / ₆ " ∤	1 7 /6″ ♦	1 ¹³ / ₁₆ " ∤	1 ¹³ /₁6″ ♦	1 ¹³ / ₁₆ " ♦		

** INCLUDES FUTURE WEARING SURFACE



CORED SLABS REQUIRED								
S	SPAN "A"	NUMBER	LENGTH	TOTAL LENGTH				
STAGE 1	STAGE 1 TYPE I		47′-9″	47′-9″				
	TYPE II	5	47′-9″	238′-9″				
	TYPE III	1	47′-9″	47′-9″				
	TYPE IV		47′-9″	47′-9″				
	STAGE 1 TOTAL			382′-0″				
.,,								
STAGE 2	TYPE V	4	47′-9″	191′-0″				
	TYPE VI	1	47′-9″	47′-9″				
	STAGE 2 TOTAL	5		238′-9″				
	TOTAL	13		620.75 L.F.				

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

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE B LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. THE 12"WIDE BOND BREAKING TAPE SHALL BE CENTERED OVER THE JOINT AND CONFORM TO THE REQUIREMENTS OF TYPE N 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 IN PARAPETS 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.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

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

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

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					

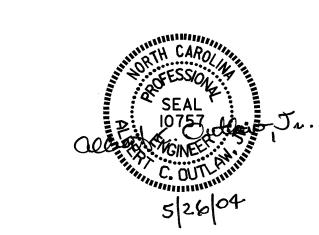
PROJECT NO. B-3348

HYDE county

STATION: 18+34.00 -L-

DEPARTMENT OF TRANSPORTATION
RALEIGH

3'-0" X 1'-9"
PRESTRESSED
CONCRETE CORED
SLAB UNIT



	SHEET NO.				
BY:	DATE: NO. BY: DATE:				S-16
		3			TOTAL SHEETS
		4		·	76

ASSEMBLED BY: P.C. BREWER DATE: 1/14/04 CHECKED BY: A.C. OUTLAW DATE: 1/27/04