SPAN A									
BILL	BILL OF MATERIAL FOR ONE CORED SLAB SECTION								
		INTERI	OR UNIT						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT		
B1	2	# 4	STR	28'-2"	38	28'-2"	38		
S1	8	# 4	1	4′-6″	24	4′-6″	24		
S2	50	# 4	1	5′-4″	178	5′-4″	178		
* S3	60	# 5	2	8′-2″	511				
S6	4	# 4	1	5′-9″	15	5′-9″	15		
S7	4	# 4	1	5′-7″	15	5′-7″	15		
S8	4	# 4	1	5′-5 ″	14	5′-5″	14		
REINF(ORCING :	STEEL			284 LBS.		284 LBS.		
* EPO	* EPOXY COATED REINFORCING STEEL 511 LBS.								
5,000	5,000 P.S.I. CONCRETE 4.2 CU. YDS.						4.2 CU.YDS.		
1/2" Ø L	R. STRA	NDS	No.		12		12		

SPAN B								
BILL OF MATERIAL FOR ONE CORED SLAB SECTION								
		INTERI	OR UNIT					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B2	4	# 4	STR	25'-8"	69	25′-8″	69	
S1	8	# 4	1	4′-6″	24	4′-6″	24	
S2	94	# 4	1	5′-4″	335	5′-4″	335	
* S3	102	# 5	2	8'-2"	869			
S6	4	# 4	1	5′-9″	15	5′-9″	15	
S7	4	# 4	1	5′-7″	15	5′-7″	15	
\$8	4	# 4	1	5′-5″	14	5′-5″	14	
REINFO	ORCING	STEEL			472 LBS.		472 LBS.	
₩ EP0>	* EPOXY COATED REINFORCING STEEL 869 LBS.							
5,000 P.S.I. CONCRETE 7.0 CU. YDS.							7.0 CU. YDS.	
¹/₂″∅ l	R. STRA	NDS	No.		24		24	

	SPAN C							
BILL	BILL OF MATERIAL FOR ONE CORED SLAB SECTION							
		INTERI	OR UNIT					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B1	2	# 4	STR	28'-2"	38	28'-2"	38	
S1	8	# 4	1	4′-6″	24	4′-6″	24	
S2	50	# 4	1	5′-4″	178	5′-4″	178	
* S3	60	# 5	2	8'-2"	511			
S6	4	# 4	1	5′-9″	15	5′-9″	15	
S7	4	# 4	1	5′-7″	15	5′-7″	15	
S8	4	# 4	1	5′-5″	14	5′-5″	14	
	ORCING S				284 LBS.		284 LBS.	
* EPOX	Y COATE	<u>ED REIN</u>	FORCING PARTIES		511 LBS.			
5,000	5,000 P.S.I. CONCRETE 4.2 CU. YDS.						4.2 CU.YDS.	
1/2"ØL	.R. STRA	NDS	No.		12		12	

S8 2'-9" S7 2'-11" S6 3'-1"	BAR TYPES
1, -3,, S1 1, -4,, S2, S6,	2,-10," 2,-10,"
ALL BAR DIMENSIONS ARE OU	43/4"

CORED SLABS REQUIRED							
	TOTAL LENGTH						
	PER SPAN	SPAN A	SPAN B	SPAN C			
EXTERIOR C.S.	2	28′-7 ⁹ / ₁₆ ″	49'-101/4"	28'-7 ⁹ / ₁₆ "	214'-23/4"		
INTERIOR C.S.	13	28′-7% ₆ ″	49'-101/4"	28′-7 ⁹ / ₁₆ "	1392′-5⅓″		
TOTAL	1606′-8 ⁵ ⁄ ₈ ″						

DEAD LOAD DEFLECTION AND CAMBER							
3'-0"× 1'-9"							
	SPAN A SPAN B SPAN C						
CAMBER (SLAB ALONE IN PLACE)	7/16″ ♦	2 ⁵ / ₁₆ "	7/16″ ♦				
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	1/16″ ₩	3⁄8″ ₩	V16″ ↓				
FINAL CAMBER	3⁄8″ ∤	1 ¹⁵ ⁄ ₁₆ ″ ∤	3/8″ ∤				

** INCLUDES FUTURE WEARING SURFACE

GRADE 270 STRANDS						
	½″∅ L.R.					
AREA (SQUARE INCHES)	0.153					
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300					
APPLIED PRESTRESS (LBS.PER STRAND)	30,980					

SPLICE	CHAR
B2	1'-9"

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 $2\frac{1}{2}$ 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 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 IN CONCRETE PARAPET 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.

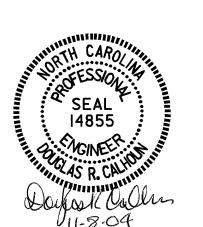
FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

PROJECT NO. B-3451

DURHAM COUNTY

STATION: 14+99.30 -L-



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
STANDARD
3'-0" X 1'-9"
PRESTRESSED
CONCRETE CORED
SLAB UNIT

00	TOBER	1981				
		RE\	/ISIONS	1		SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-14
1			3			TOTAL SHEETS
ച			4			71 27

STD NO PCS3

ASSEMBLED BY: A.L.MEADOWS DATE: 11/18/CHECKED BY: T.A.HARRIS DATE: 5/1/DRAWN BY: WJH 4/89 REV. 10/17/00 RWW/ICHECKED BY: FCJ 5/89 REV. 7/10/01 RWW/ICHECKED BY: FCJ 5/89 REV. 5/7/03RR RWW/