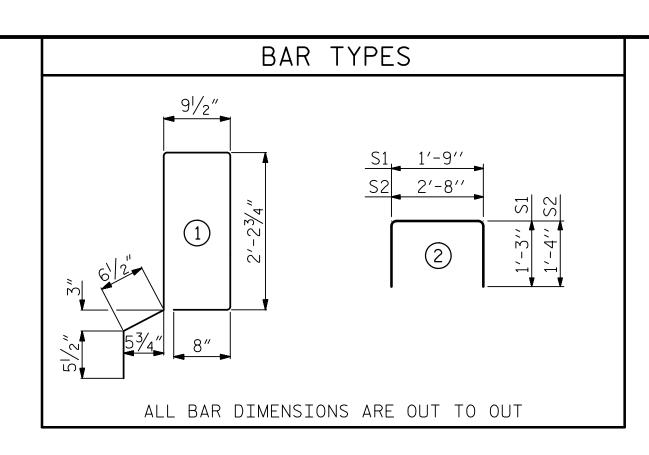
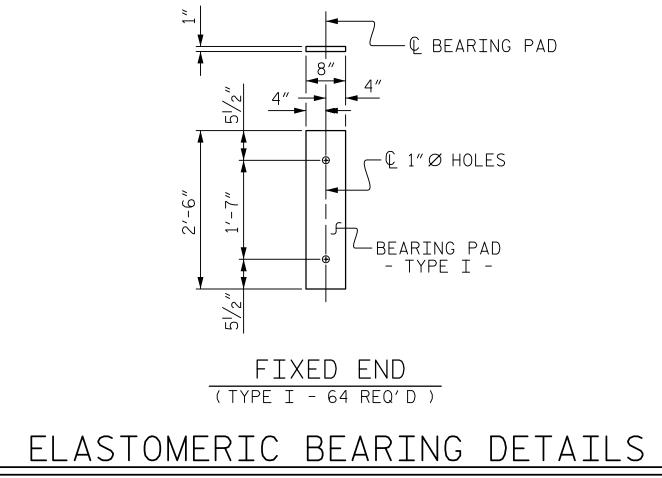
				ATERIA RED SLA	L FOR O 3 UNIT	NE	
	EXTERIOR UNIT INTERIOR UNIT						
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B3	4	#4	STR	20'-9"	55	20'-9"	55
S1	8	#5	2	4'-3"	35	4'-3"	35
S2	84	#4	2	5′-4″	299	5′-4″	299
米 S3	41	#5	1	6'-11"	296		
RETNE	ORCING :	STEEL	LBS		389		389
₩ EPO	XY COATE	ED					
	P.S.I. CO				<u> 296 </u>		5.8
	10111.00						
0.6″Ø	L.R. STR	BILL		IATERIA	¹³ L FOR O	NE	13
0.6″Ø	L.R. STR	BILL	OF N	ATERIA ED SLAE	L FOR O 3 UNIT		
	L.R. STR	BILL 4	OF N 5' COR	ATERIA ED SLAE	L FOR O B UNIT	INTERI	OR UNIT
0.6″Ø BAR B1		BILL 4	OF N	ATERIA ED SLAE	L FOR O 3 UNIT		
BAR	NUMBER	BILL 4	OF N 5' COR	ATERIA ED SLAE EXTERIC LENGTH	L FOR O B UNIT DR UNIT WEIGHT	INTERI(LENGTH	OR UNIT WEIGHT
BAR B1	NUMBER 4	BILL 4 SIZE #4	OF N 5' COR TYPE STR	ATERIA ED SLAE EXTERIO LENGTH 23'-3"	L FOR O B UNIT DR UNIT WEIGHT 62	INTERIO LENGTH 23'-3"	OR UNIT WEIGHT 62
BAR B1 S1	NUMBER 4 8	BILL 4 SIZE #4	OF N 5' COR TYPE STR 2	ATERIA ED SLAE EXTERIC LENGTH 23'-3" 4'-3"	L FOR O B UNIT DR UNIT WEIGHT 62 35	INTERI(LENGTH 23'-3" 4'-3"	OR UNIT WEIGHT 62 35
BAR B1 S1 \$2 * \$3	NUMBER 4 8 94 46	BILL 4 SIZE #4 #5 #4 #5	OF N 5' COR TYPE STR 2 1	ATERIA ED SLAE EXTERIC LENGTH 23'-3" 4'-3" 5'-4" 6'-11"	A FOR O B UNIT WEIGHT 62 35 335 335 332	INTERI(LENGTH 23'-3" 4'-3"	OR UNIT WEIGHT 62 35 335
BAR B1 S1 S2 * S3 REINF * EP0	NUMBER 4 8 94	BILL 4 SIZE #4 #5 #4 #5 STEEL ED	OF N 5' COR TYPE STR 2 2 1 LBS	ATERIA ED SLAE EXTERIO LENGTH 23'-3" 4'-3" 5'-4" 6'-11"	L FOR O B UNIT OR UNIT WEIGHT 62 35 335	INTERI(LENGTH 23'-3" 4'-3"	OR UNIT WEIGHT 62 35
BAR B1 S1 S2 * S3 REINF * EP0 REI	NUMBER 4 94 46 ORCING S XY COATE	BILL 4 SIZE #4 #5 #4 #5 STEEL STEEL	OF N 5' COR TYPE STR 2 2 1 LBS	ATERIA ED SLAE EXTERIO LENGTH 23'-3" 4'-3" 5'-4" 6'-11"	A FOR O B UNIT WEIGHT 62 35 335 335 332 432	INTERI(LENGTH 23'-3" 4'-3"	OR UNIT WEIGHT 62 35 335

(
21" CORED SLABS REQUIRED						
	NUMBER	LENGTH	TOTAL LENGTH			
	SPAN	N A				
EXTERIOR C.S.	2	45'-0"	90'-0″			
INTERIOR C.S.	14	45'-0"	630′-0″			
TOTAL	16		720'-0"			
SPAN B						
EXTERIOR C.S.	2	40'-0"	80'-0"			
INTERIOR C.S.	14	40'-0"	560′-0″			
TOTAL	16		640′-0″			

GRADE 270 STRANDS			
	0.6″ØL.R.		
AREA (SQUARE INCHES)	0.217		
ULTIMATE STRENGTH (LBS.PER STRAND)	58,600		
APPLIED PRESTRESS (LBS.PER STRAND)	43,950		

DRAWN BY :	J.S. HOBSON	DATE: 2/16/15
CHECKED BY :	J.A. LEE	DATE : 2/24/15
DESIGN ENGINE	R OF RECORD :J.A.LEE	_ DATE : <u>2/24/15</u>





ELASTOMER IN ALL BEARINGS SHALL BE 50 DUROMETER HARDNESS.

DEAD LOAD DEFLECTION AND CAMBER					
3'-O"X 1'-9"CORED SLAB UNIT 0.6"ØL.R.STRAND	45'UNIT (SPAN A)	40' UNIT (SPAN B)			
CAMBER (SLAB ALONE IN PLACE)	¹⁵ /16″	³ ∕ 6″ ♦			
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	3∕16″ ↓	∕8″ ↓			
FINAL CAMBER	3∕4″ ♦	∕ı6″ ♦			

** INCLUDES FUTURE WEARING SURFACE AND FUTURE 5'-6"SIDEWALKS.

GUTTERLINE ASPHA	LT THICKNESS & PARA	PET HEIGHT
	ASPHALT OVERLAY THICKNESS	PARAPET HEIGHT
	@ MID-SPAN	@ MID-SPAN
40' AND 45' UNITS	1 ¹ /2″	3′-27⁄8″

CONCRETE RELEA	ASE STRENGTH
UNIT	PSI
40′& 45′UNITS	3500

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 $2^{l}\!/_{2}'' \varnothing$ dowel holes at fixed ends of slab sections shall be filled with non-shrink grout.

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

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

ALL REINFORCING STEEL IN THE CONCRETE 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.

GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPETS 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 SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT ALLOWED.

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 THE REQUIRED STRENGTH SHOWN IN THE "CONCRETE RELEASE STRENGTH" TABLE.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

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'-O"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 IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.

THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST UNITS.

PRESTRESSED CONCRETE CORED SLAB UNITS ARE DESIGNED FOR O PSI TENSION IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS.

PRESTRESSED CONCRETE CORED SLAB UNITS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

127 W. Hargett Street Suite 504	PROJECT NO. <u>B-4440</u> <u>BRUNSWICK</u> COUNTY STATION: <u>18+90.36</u> -L- SHEET 4 OF 4				
Raleigh, NC 27601 919-714-8670 meadhunt.com NC License No. F-1235 H CAROL SEAL 15832 SEAL 15832	PRE	RTMENT 3'-C STRES	^{raleigh})'' X 1 SSED	NSPORTA	RETE
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