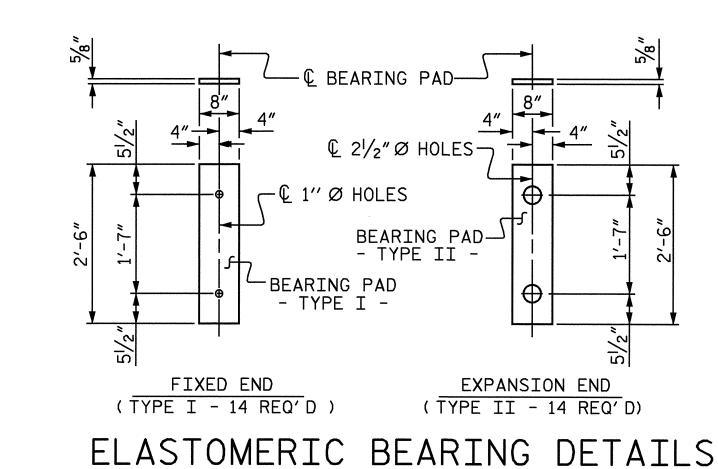


SECTION AT END BENT SHOWING BACKFILL DETAILS

NOTES: THE ROADWAY APPROACHES LEADING UP TO THE CORED SLAB UNITS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

> COMPACTED A.B.C. SHALL BE COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.



ASSEMBLED BY : K. McCAULE CHECKED BY : O. PUIGCERVE	
LUNANN DI * NUN 7/03	REV. 10/17/00 RWW/LES REV. 7/10/01 RWW/LES REV. 5/7/03R RWW/JTE

BAR TYPES 2'-8'' ALL BAR DIMENSIONS ARE OUT TO OUT BILL OF MATERIAL FOR ONE CORED SLAB SECTION INTERIOR UNIT EXTERIOR UNIT BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT LENGTH | WEIGHT 17'- 8" 4 | # 4 | STR | 17'- 8" | 47 47 # 4 4'- 3" 23 # 4 | 66 5'- 4" 235 5'- 4" 235 S2 REINFORCING STEEL 305 LBS. 4.6 CU. YDS. 5,000 P.S.I. CONCRETE $\frac{1}{2}$ " Ø L.R. STRANDS No. 12

DEAD LOAD DEFLECTION A	ND CAMBER
	3'-0"× 1'-9" / ₂ "Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	⁹ / ₁₆ " ★
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	l∕16″ √
FINAL CAMBER	√2″ Å

** INCLUDES FUTURE WEARING SURFACE

	CORED SLABS REQUIRED (FOR 1 RAMP)				
ı			NUMBER	LENGTH	TOTAL LENGTH
ı	EXTERIO	OR C.S.	4	33'-101/2"	135′-6″
ı	INTERIC	R C.S.	10	33'-101/2"	338′-9″
ı	TOTAL		14		474′-3″

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 21/2" 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.

AT THE CONTRACTOR'S OPTION, HOT POURED RUBBER ASPHALT JOINT SEALER MAY BE USED IN LIEU OF SILICONE SEALANT. THE HOT POURED RUBBER ASPHALT MATERIAL SHALL CONFORM TO THE REQUIREMENTS FOR JOINT SEALER, SEE STANDARD SPECIFICATIONS.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE 11/2" THICK EXPANSION JOINT MATERIAL IN THE JOINTS AT EACH END OF THE BRIDGE AND IN THE JOINTS BETWEEN THE ENDS OF THE CORED SLAB SPANS IS 11/2" NOMINAL AND CAN BE EXPECTED TO VARY. THE CONTRACTOR MAY USE MORE THAN ONE LAYER OF EXPANSION JOINT MATERIAL, WITH A MINIMUM LAYER THICKNESS OF 3/8" TO PROVIDE THE THICKNESS REQUIRED.

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.

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.

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

THE COST OF THE $\frac{3}{4}$ " \varnothing ANCHOR BOLTS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR 3'-0"X 1'-9"PRESTRESSED CONCRETE CORED SLAB, AND SHALL BE GALVANIZED.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

PROJECT NO. F-4700 CURRITUCK COUNTY STATION: 10+00.00 -RP1-

SHEET 4 OF 4 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STANDARD 3'-0" X 1'-9" PRESTREŠSÉD CONCRETE CORED SLAB UNIT CURRITUCK FERRY BASIN

OCTOBER

SHEET NO. **REVISIONS** S-8 DATE: DATE: BY: 56