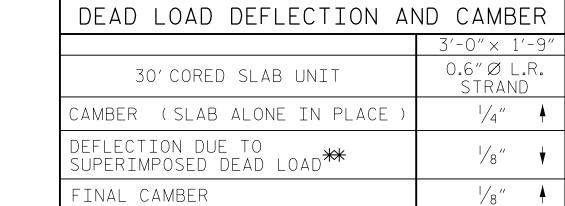
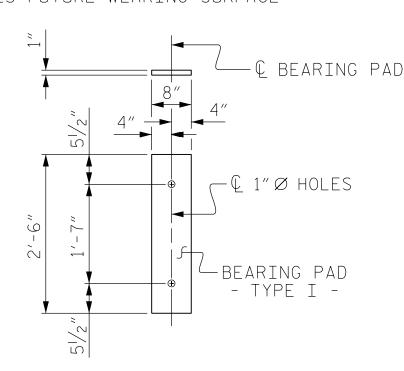


GUTTERLINE ASPHALT THICKNESS & RAIL HEIGHT ASPHALT OVERLAY THICKNESS RAIL HEIGHT @ MID-SPAN @ MID-SPAN 25/8" 3′-85⁄8″ DEAD LOAD DEFLECTION AND CAMBER 3′-0″× 1′-9 0.6" Ø L.R. 30' CORED SLAB UNIT



** INCLUDES FUTURE WEARING SURFACE

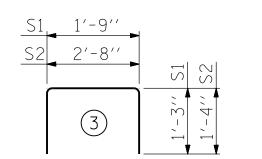


FIXED END (TYPE I - 20 REQ'D)

PRESTRESSED CONCRETE CORED SLABS.

BAR TYPES

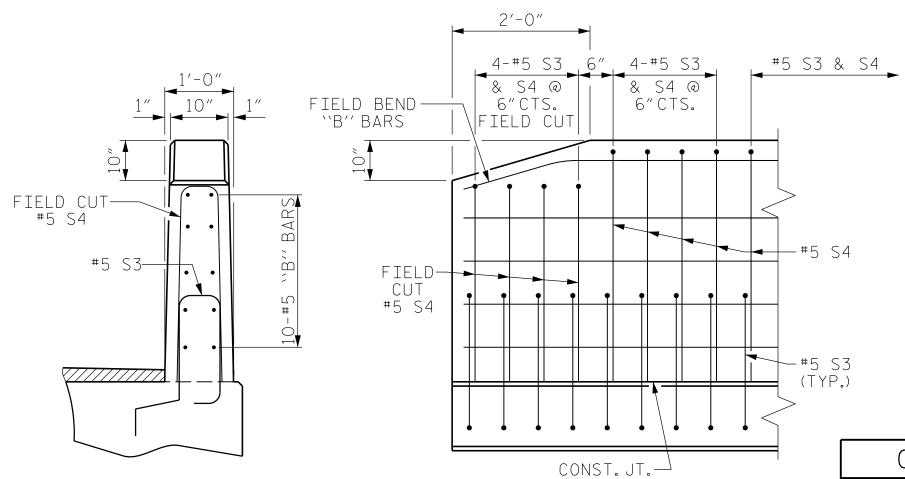
73/4"



ALL BAR DIMENSIONS ARE OUT TO OUT

ELASTOMERIC BEARING DETAILS

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.



END VIEW

SIDE VIEW

END OF RAIL DETAILS

BILL OF MATERIAL FOR ONE 30'CORED SLAB UNIT								
			EXTERIOR UNIT		INTERIOR UNIT			
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
В2	2	# 4	STR	29'-8"	40	29'-8"	40	
S1	8	#5	3	4'-3"	35	4'-3"	35	
S2	64	#4	3	5'-4"	228	5′-4″	228	
* S3	39	#5	1	5′-7″	227			
REINFORCING STEEL LE			LBS	5.	303	303		
* EPOXY COATED REINFORCING STEEL LBS. 227								
5000 P.S.I. CONCRETE CU. YD) .	4.4		4.4	
0.6″Ø L.R. STRANDS			No).	9		9	

CORED SLABS REQUIRED

NUMBER LENGTH TOTAL LENGT 30'UNIT EXTERIOR C.S. 2 | 30'-0" | 60'-0" INTERIOR C.S. 8 30'-0" 240'-0" 300'-0"

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

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE $2^{1}/2^{n} \varnothing$ 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 SUBMI 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 VERTICAL CONCRETE BARRIER RAIL SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

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 BARRIER RAIL 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 BARRIER RAIL 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.

CONCRETE R	LEASE STRENGTH
UNIT	PSI
30'UNITS	4000

BR-0117 PROJECT NO._

NORTHAMPTON COUNTY

STATE OF NORTH CAROLINA

STATION: 14+26.35 -L-

SHEET 5 OF 6

043777

DEPARTMENT OF TRANSPORTATION STANDARD CORED SLAB UNI1 90° SKEW SPAN '\A''

SHEET NO REVISIONS S-9 NO. BY: DATE: DATE: BY: TOTAL SHEETS

FINAL UNLESS ALL

GRADE 270 STRANDS

(SQUARE INCHES)

ULTIMATE STRENGT (LBS.PER STRAND

0.6″Ø L.R

0.217

58,600

43,950

DESIGN ENGINEER OF RECORD:

DRAWN BY: DGE 5/09

<u>JACOB H.DUKE</u> DATE : <u>01/2020</u>

MAA/THC

ASSEMBLED BY: DIEGO A. AGUIRRE DATE: 01/2020

CHECKED BY: FIDEL L.FLORES DATE: 01/2020

CHECKED BY : BCH 6/09 | REV. 5/18

FIBER OPTIC

CONDUIT SYSTEM DETAILS

 $2^{1/2}$ " \varnothing SCHEDULE 80 PVC PIPE ATTACHED TO THE

BACK OF BOTH RAILS FOR FUTURE FIBER OPTIC CABLE.