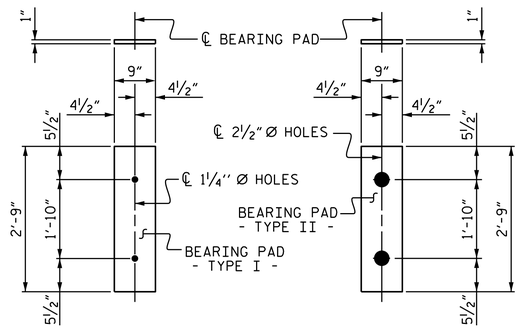


ELASTOMERIC BEARING DETAILS

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

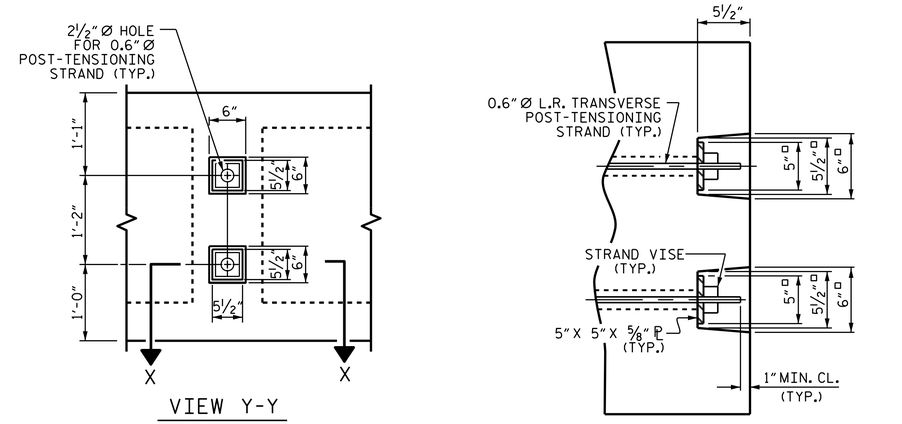
BOX BEAM UNITS REQUIRED			
60' UNITS	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	6	60'-0"	360'-0"
INTERIOR B.B.	27	60'-0"	1620'-0"
TOTAL	33	———	1980'-0"

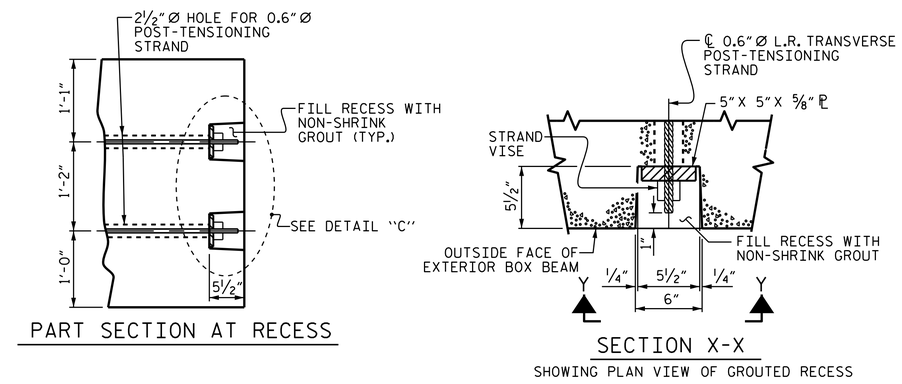
BOX BEAM UNITS REQUIRED			
100' UNITS	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	2	100'-0"	200'-0"
INTERIOR B.B.	9	100'-0"	900'-0"
TOTAL	11	———	1100'-0"

DEAD LOAD DEFLECTION AND CAMBER	
	3'-0" x 3'-3"
60' BOX BEAM UNITS	0.6" Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	1 13/16" ↑
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	3/16" ↓
FINAL CAMBER	1 5/8" ↑

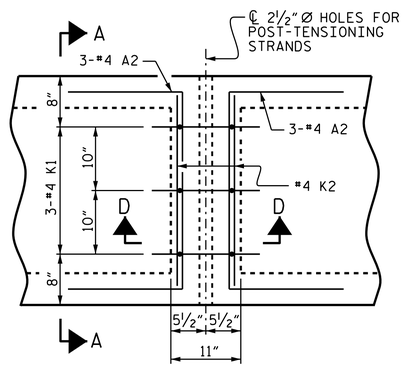
DEAD LOAD DEFLECTION AND CAMBER	
	3'-0" x 3'-3"
100' BOX BEAM UNITS	0.6" Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	3 11/16" ↑
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	1" ↓
FINAL CAMBER	2 11/16" ↑

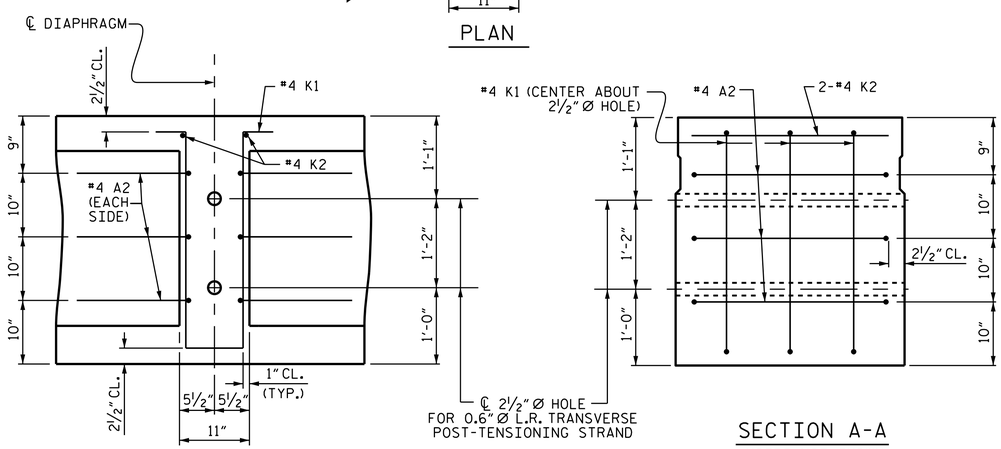
** INCLUDES FUTURE WEARING SURFACE





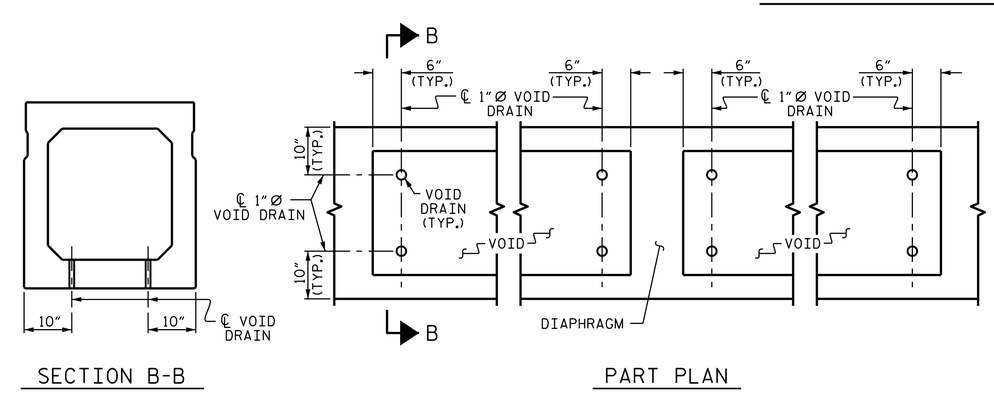
GROUTED RECESS DETAIL AT END OF POST-TENSIONED STRANDS OF EXTERIOR BOX BEAM





DOUBLE DIAPHRAGM DETAILS

#4 "S" BARS NOT SHOWN. #4 "S" BARS MAY BE SHIFTED SLIGHTLY TO CLEAR 2½" Ø HOLE.



VOID DRAIN DETAILS

(DIMENSIONS SHOWN ARE TYPICAL FOR EACH VOID)

PROJECT NO. B-4741
DAVIDSON COUNTY
STATION: 20+92.00 -L-

SHEET 6 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

3'-0" X 3'-3"
PRESTRESSED CONCRETE
BOX BEAM UNIT

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel 1C157DE15D464AA... 9/18/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			27

ASSEMBLED BY : T. H. CARROLL	DATE : 4/2/14
CHECKED BY : M. E. GILES	DATE : 4/28/14
DRAWN BY : TLA 5/05	ADDED 7/11/05
CHECKED BY : GM 6/05	REV. 5/1/06 TLA/GM
	REV. 10/1/11 MAA/GM

17-SEP-2014 13:50
R:\Structures\Plans\B4741_SD_BX_01.dgn
vpatel

STD. NO. PCBB7