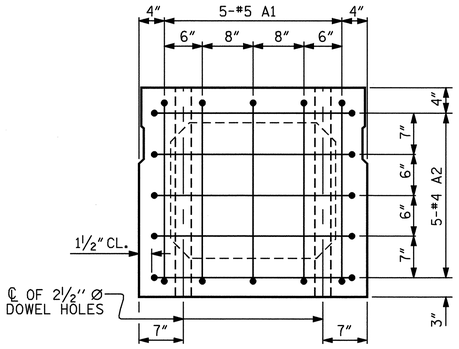
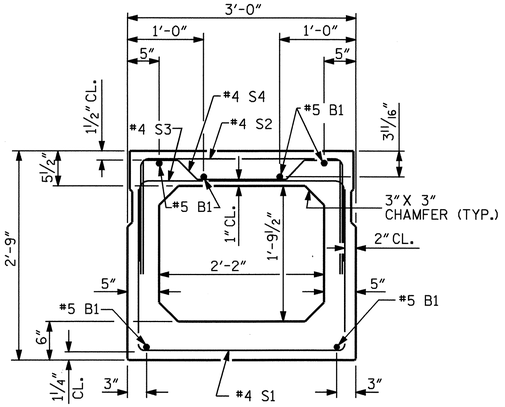


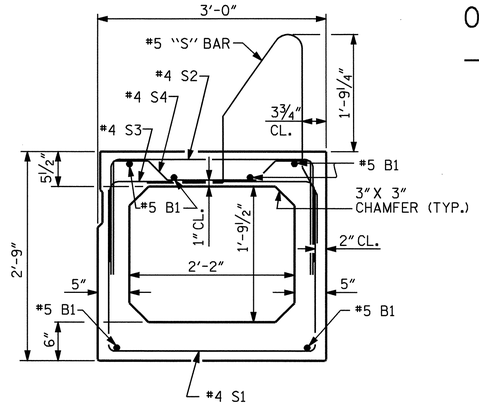
END ELEVATION

SHOWING PLACEMENT OF #5 & #4 "A" BARS AND LOCATION OF DOWEL HOLES.
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR SECTION SIMILAR EXCEPT SHEAR KEY LOCATION. STRAND LAYOUT NOT SHOWN.)



INTERIOR BOX BEAM SECTION

(STRAND LAYOUT NOT SHOWN)



EXTERIOR BOX BEAM SECTION

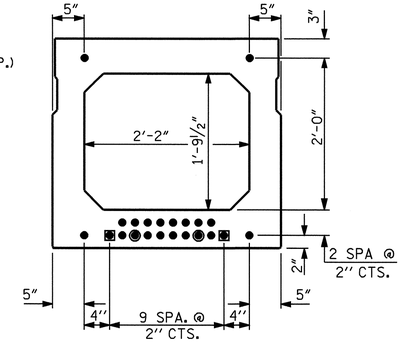
(STRAND LAYOUT NOT SHOWN)

0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND

○ 4' DEBONDED STRANDS

□ 6' DEBONDED STRANDS

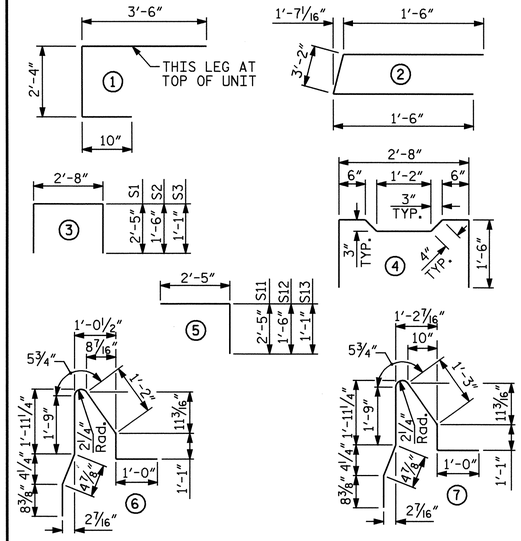


TYPICAL STRAND LOCATION

(22 STRANDS REQUIRED)

(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR SECTION SIMILAR EXCEPT SHEAR KEY LOCATION

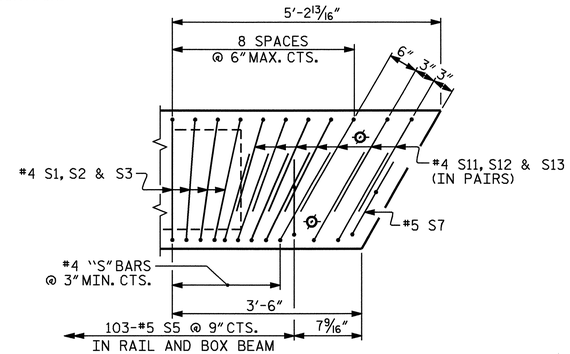
BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

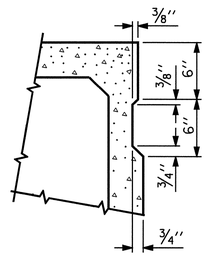
BILL OF MATERIAL FOR ONE BOX BEAM SECTION

				EXTERIOR UNIT		INTERIOR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
A1	10	#5	1	6'-8"	70	6'-8"	70
A2	10	#4	2	6'-2"	41	6'-2"	41
B1	12	#5	STR	40'-5"	506	40'-5"	506
S1	55	#4	3	7'-6"	276	7'-6"	276
S2	55	#4	3	5'-8"	208	5'-8"	208
S3	101	#4	3	4'-10"	326	4'-10"	326
S4	46	#4	4	5'-10"	179	5'-10"	179
S11	28	#4	5	4'-10"	90	4'-10"	90
S12	28	#4	5	3'-11"	73	3'-11"	73
S13	28	#4	5	3'-6"	65	3'-6"	65
✳ S5	103	#5	6	6'-7"	707	--	--
✳ S7	2	#5	7	6'-8"	14	--	--
REINFORCING STEEL					1834 LBS.		1834 LBS.
✳EPOXY COATED REINF. STEEL					721 LBS.		
6000 P.S.I. CONCRETE					13.0 CU. YDS.		12.8 CU. YDS.
0.6" Ø L.R. STRANDS					No. 22		No. 22



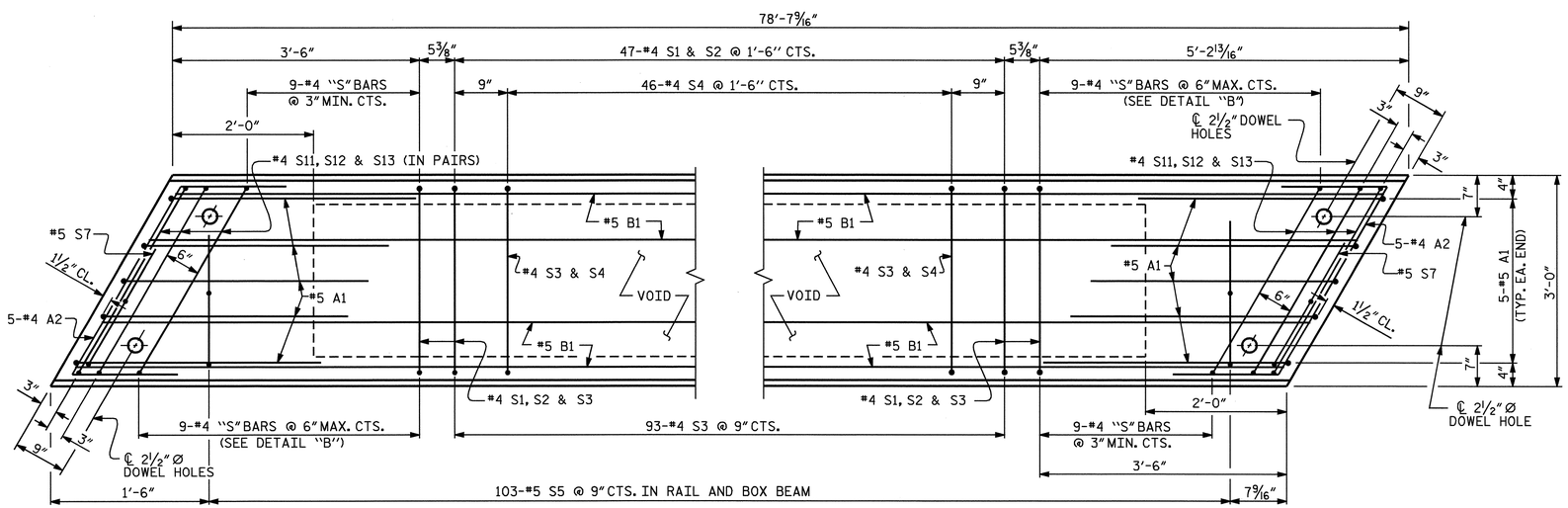
DETAIL "B"

EXTERIOR UNIT SHOWN, INTERIOR UNIT SIMILAR EXCEPT OMIT #5 S5 & S7 BARS.
"B" BARS AND "A" BARS NOT SHOWN.



SHEAR KEY DETAIL

NOTE: OMIT SHEAR KEY ON OUTSIDE FACE OF EXTERIOR BOX BEAMS.



PLAN OF BOX BEAM

EXTERIOR UNIT SHOWN, INTERIOR UNIT SIMILAR EXCEPT OMIT #5 S5 & S7 BARS.
FOR LOCATION OF DIAPHRAGMS, SEE PLAN OF SPANS.
FOR REINFORCING STEEL IN DIAPHRAGMS, SEE DIAPHRAGM DETAILS.

PROJECT NO. B-3664

HENDERSON COUNTY

STATION: 20+95.00-L-

SHEET 6 OF 10

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

3'-0" X 2'-9"
PRESTRESSED CONCRETE
BOX BEAM UNIT FOR SPAN A

120° SKEW

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL G. CHEEK, JR.
6-3-05

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-9
1			3			TOTAL SHEETS
2			4			27

ASSEMBLED BY : V. X. NGUYEN DATE : 3-15-05
CHECKED BY : D. HODGE DATE : 5-05

DRAWN BY : TLA 3/05 ADDED
CHECKED BY :

03-JUN-2005 08:49
R:\STRUCTØ1\b3664\vnguyen\MICROSØ1\B-3664Ø2.DGN
vnguyen

STD. NO. PCBB4