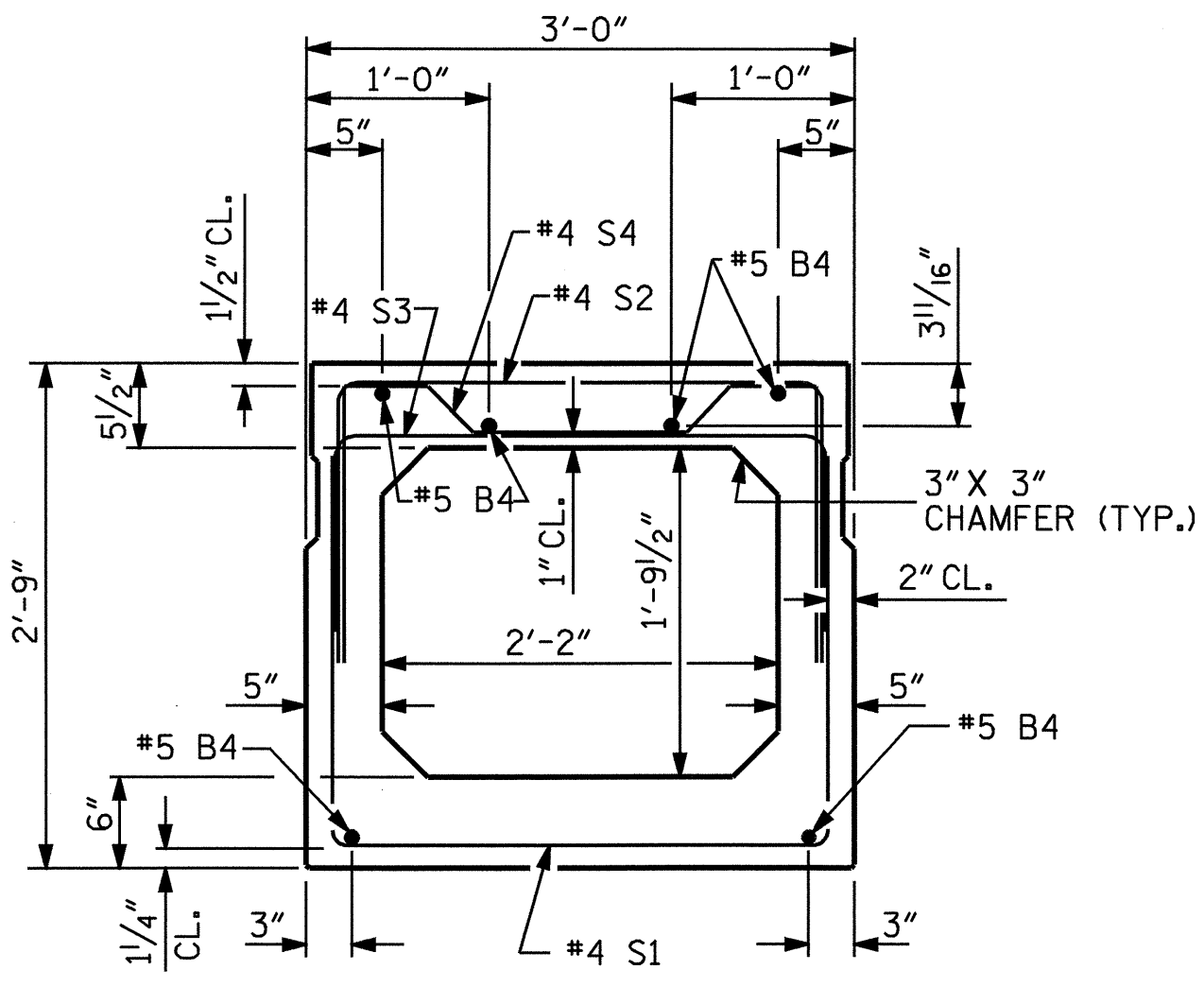


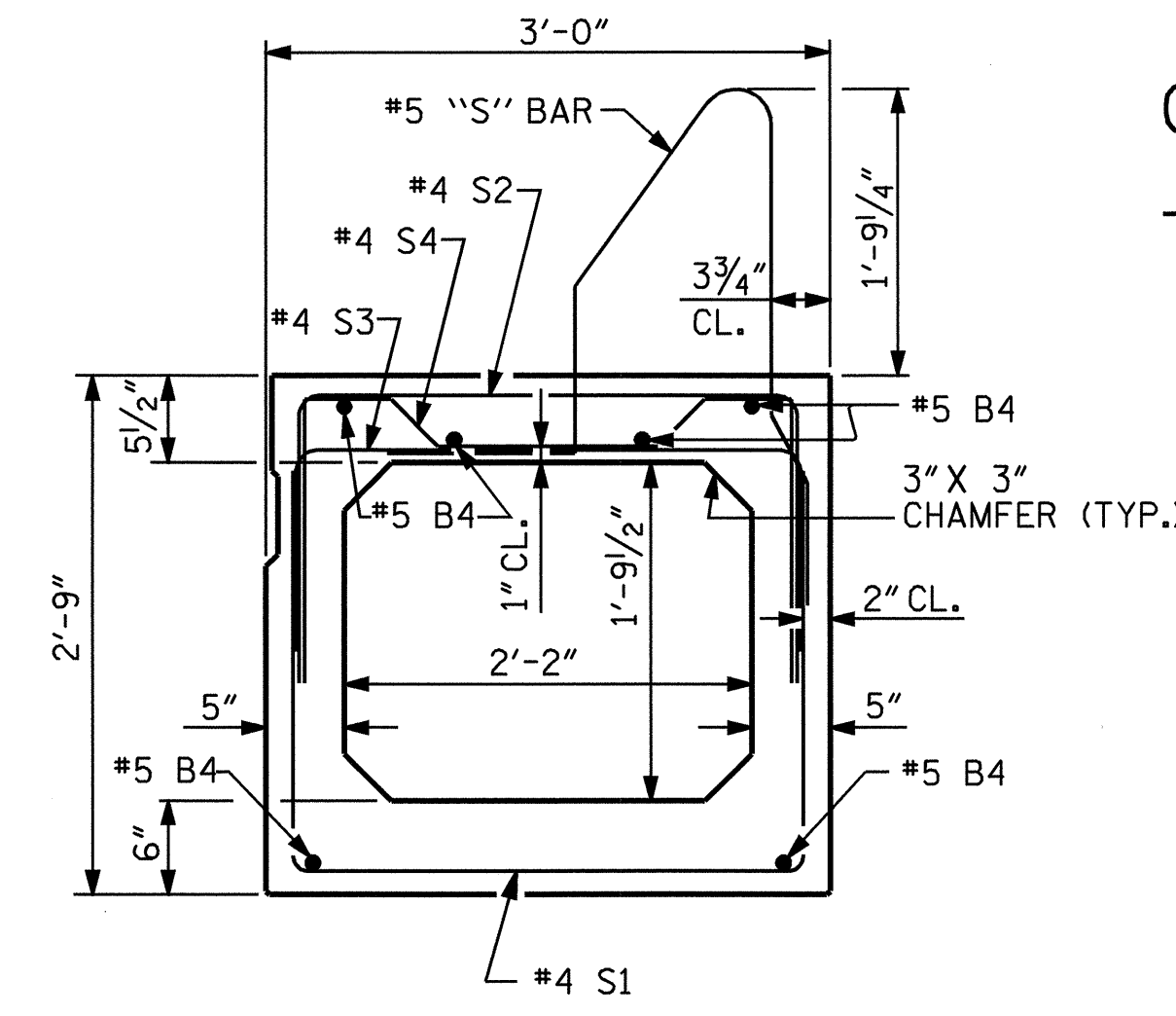
END ELEVATION

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.)



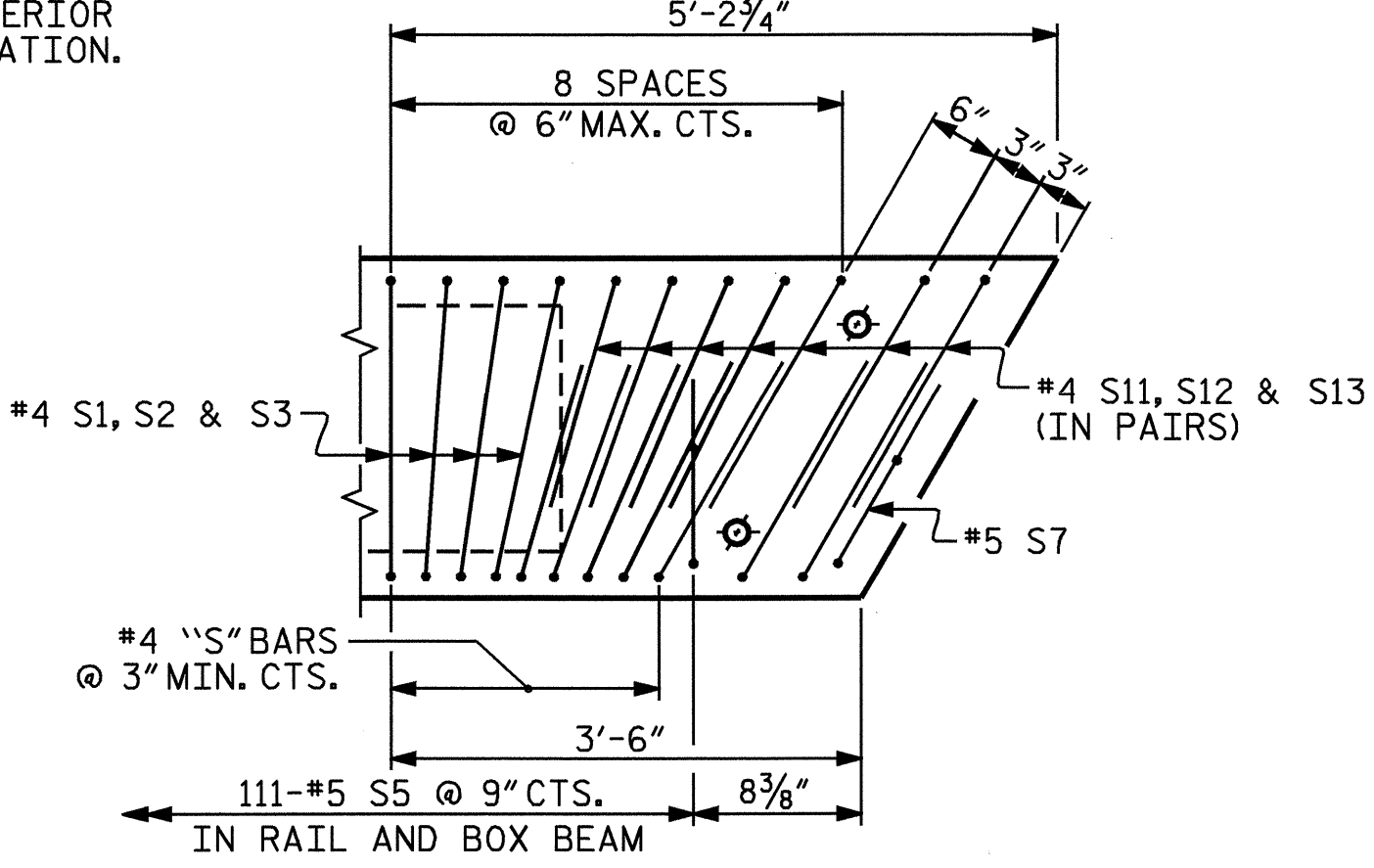
INTERIOR BOX BEAM SECTION

(STRAND LAYOUT NOT SHOWN)



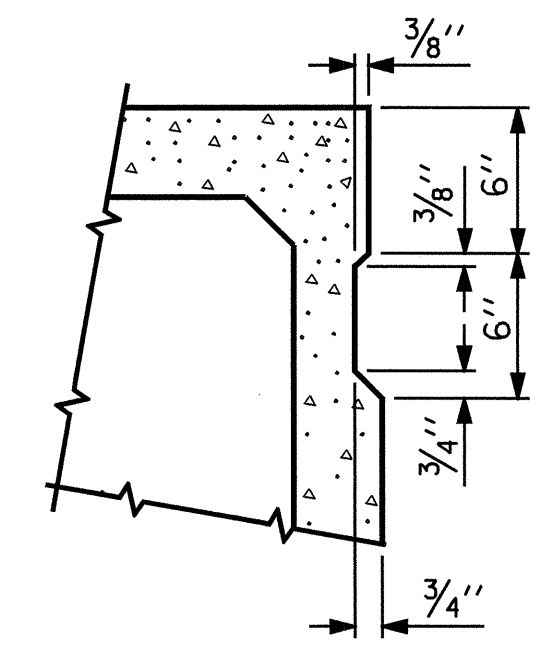
EXTERIOR BOX BEAM SECTION

(STRAND LAYOUT NOT SHOWN)



DETAIL "B"

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



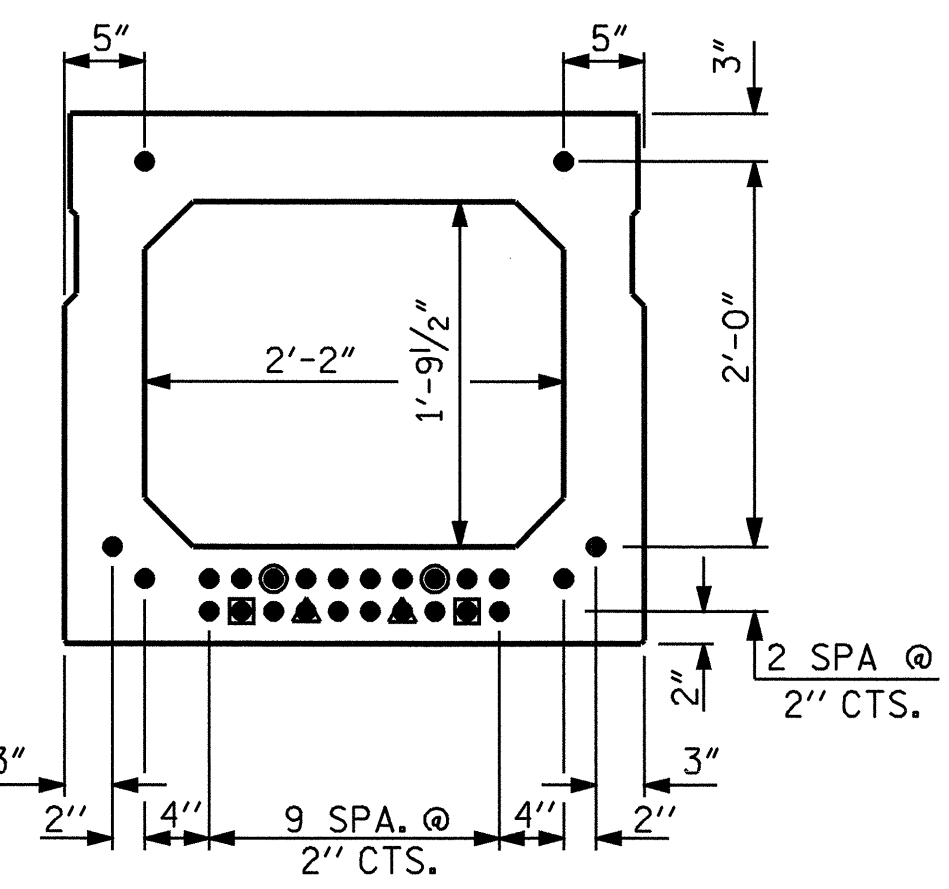
SHEAR KEY DETAIL

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

0.6" Ø LOW RELAXATION STRAND LAYOUT

DEBONDING LEGEND

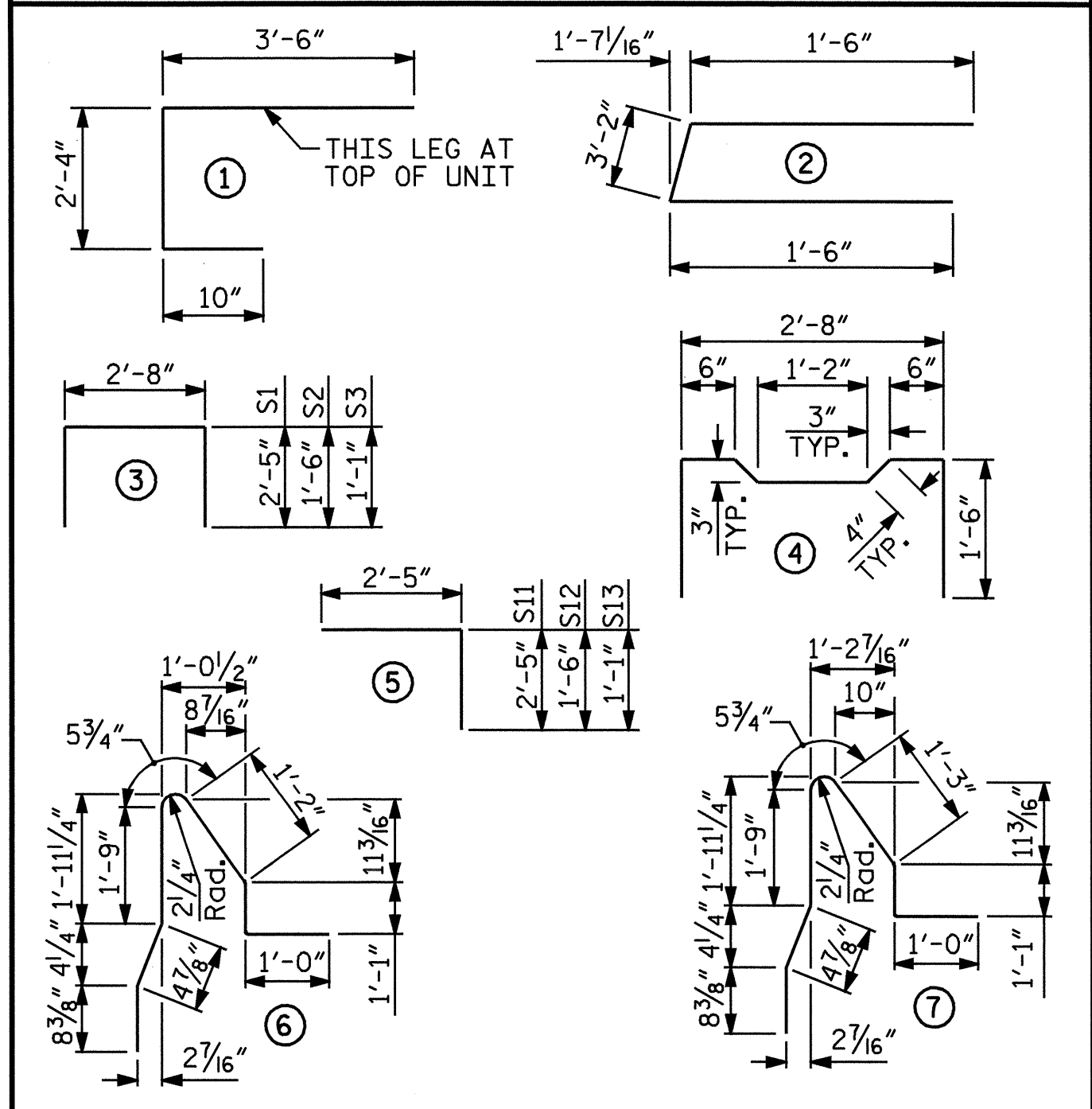
- 4' DEBONDED STRANDS
- 6' DEBONDED STRANDS
- △ 10' DEBONDED STRANDS



TYPICAL STRAND LOCATION

(26 STRANDS REQUIRED)
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR SECTION SIMILAR EXCEPT SHEAR KEY LOCATION)

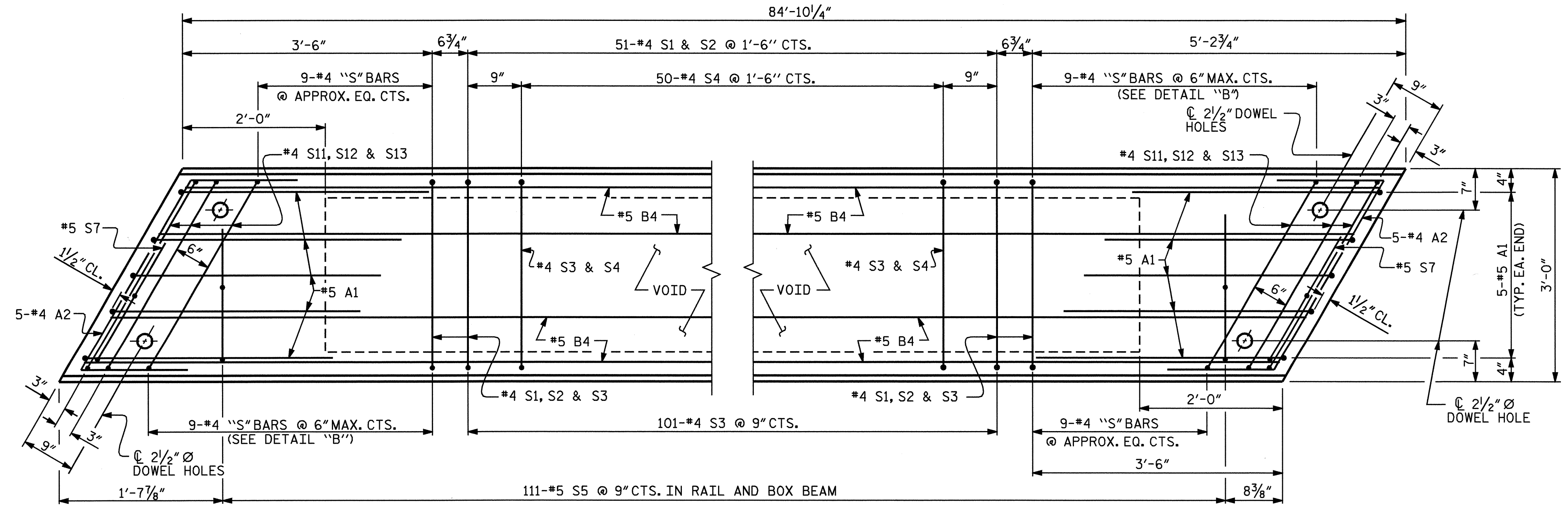
BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE BOX BEAM SECTION

BAR	NUMBER	SIZE	TYPE	EXTERIOR UNIT		INTERIOR UNIT	
				LENGTH	WEIGHT	LENGTH	WEIGHT
A1	10	#5	1	6'-8"	70	6'-8"	70
A2	10	#4	2	6'-2"	41	6'-2"	41
B4	12	#5	STR	43'-6"	544	43'-6"	544
S1	59	#4	3	7'-6"	296	7'-6"	296
S2	59	#4	3	5'-8"	223	5'-8"	223
S3	109	#4	3	4'-10"	352	4'-10"	352
S4	50	#4	4	5'-10"	195	5'-10"	195
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	111	#5	6	6'-7"	762	--	--
* S7	2	#5	7	6'-8"	14	--	--
REINFORCING STEEL				1949 LBS.		1949 LBS.	
* EPOXY COATED REINF. STEEL				776 LBS.			
6500 P.S.I. CONCRETE				14.0 CU. YDS.		13.8 CU. YDS.	
0.6" Ø L.R. STRANDS				No. 26		No. 26	



PLAN OF BOX BEAM

EXTERIOR UNIT SHOWN, INTERIOR UNIT SIMILAR EXCEPT OMIT #4 S5 & S7 BARS. FOR LOCATION OF DIAPHRAGMS, SEE PLAN OF SPANS. FOR REINFORCING STEEL IN DIAPHRAGMS, SEE DIAPHRAGM DETAILS.

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:\STRUCT\B3664\vnnguyen\MICROS\B-3664.dgn



PROJECT NO. B-3664
 HENDERSON COUNTY
 STATION: 20+95.00-L-

SHEET 7 OF 10
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 3'-0" X 2'-9"
 PRESTRESSED CONCRETE
 BOX BEAM UNIT FOR SPAN B
 120° SKEW

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