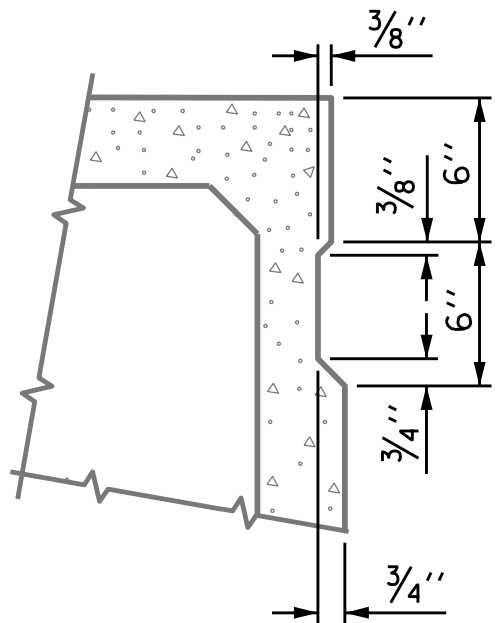
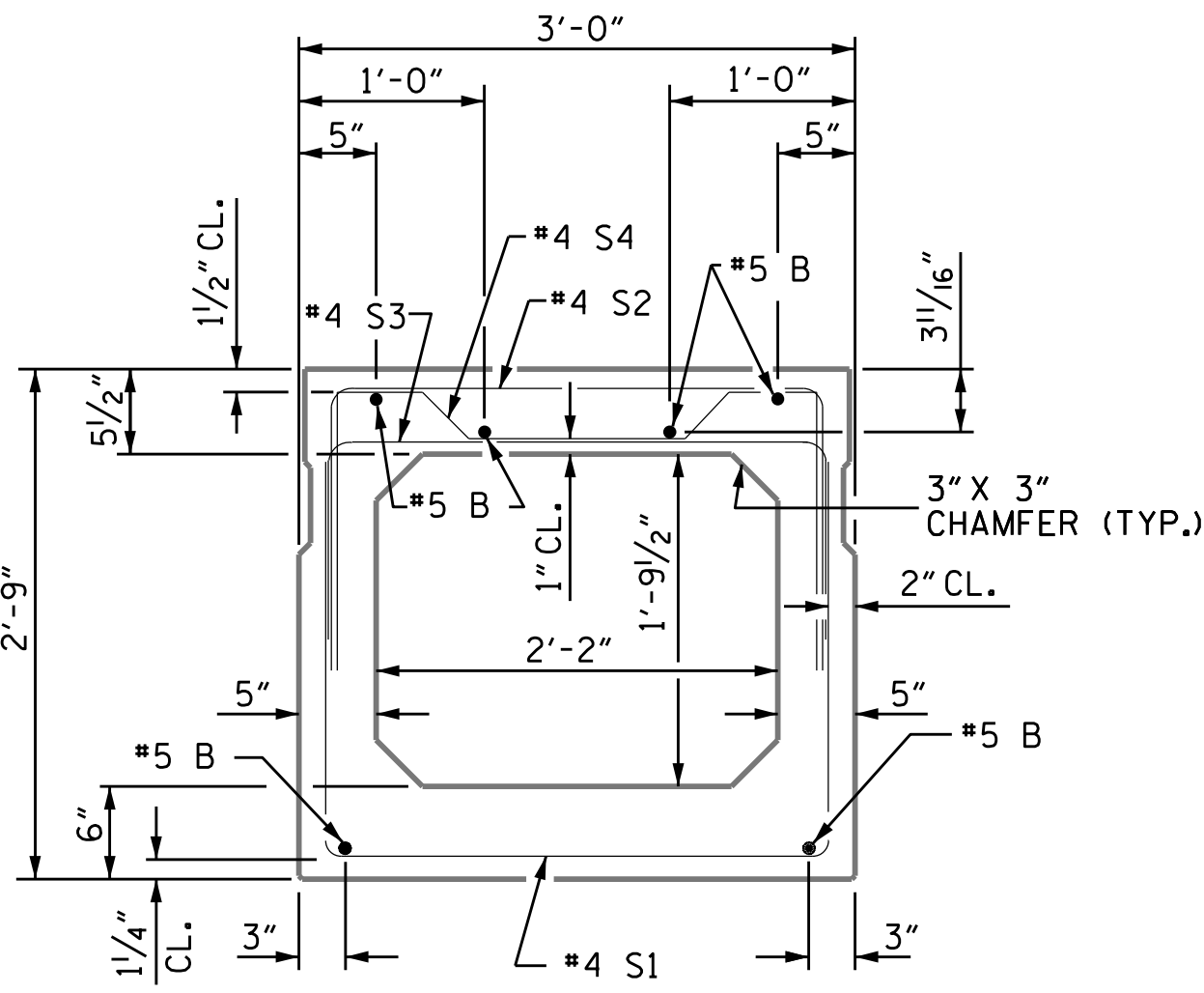


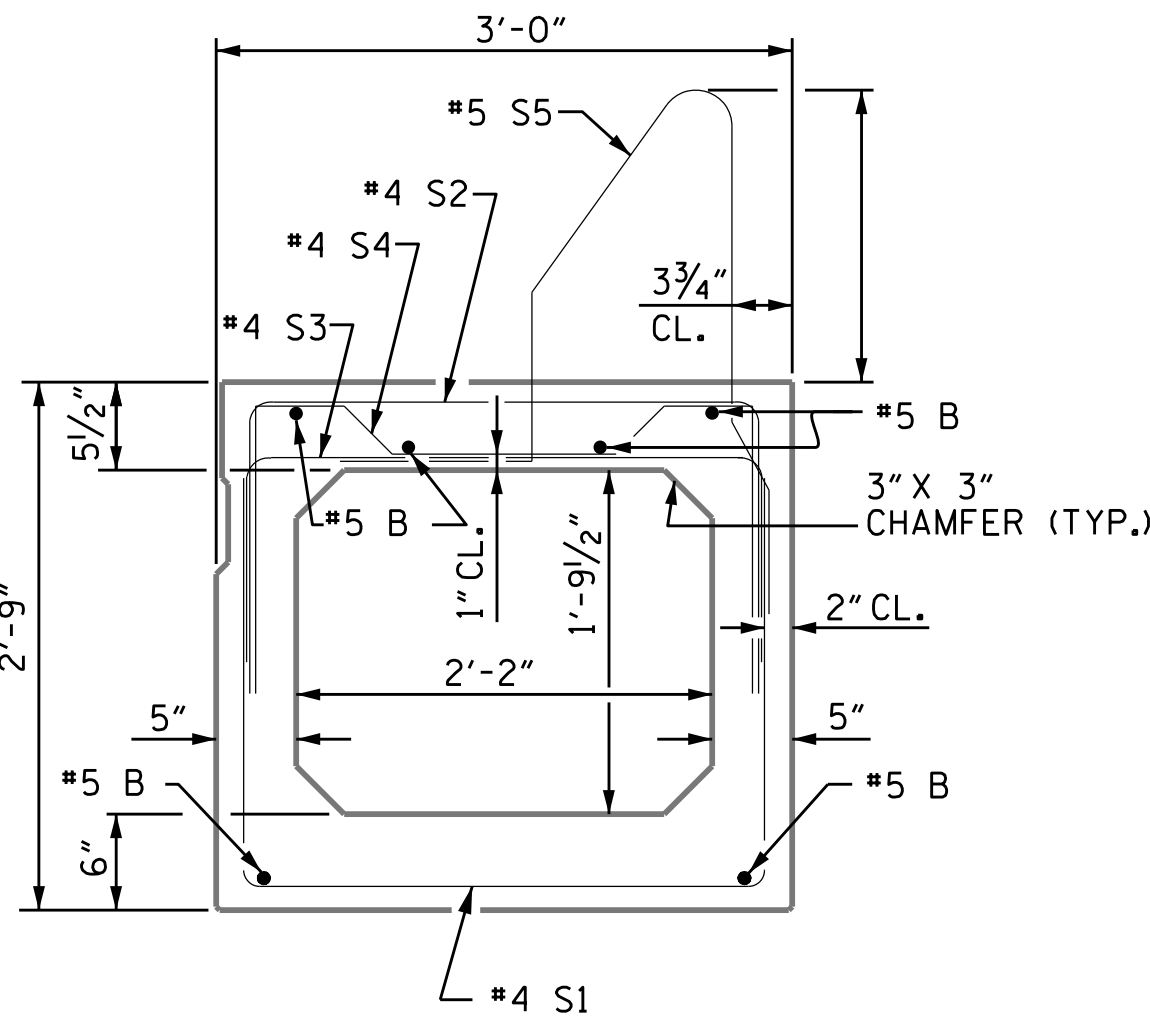
END ELEVATION
SHOWING PLACEMENT OF #5 & #4 "A" BARS
AND LOCATION OF DOWEL HOLES.
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR
SECTION SIMILAR EXCEPT SHEAR KEY LOCATION.
STRAND LAYOUT NOT SHOWN.)



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

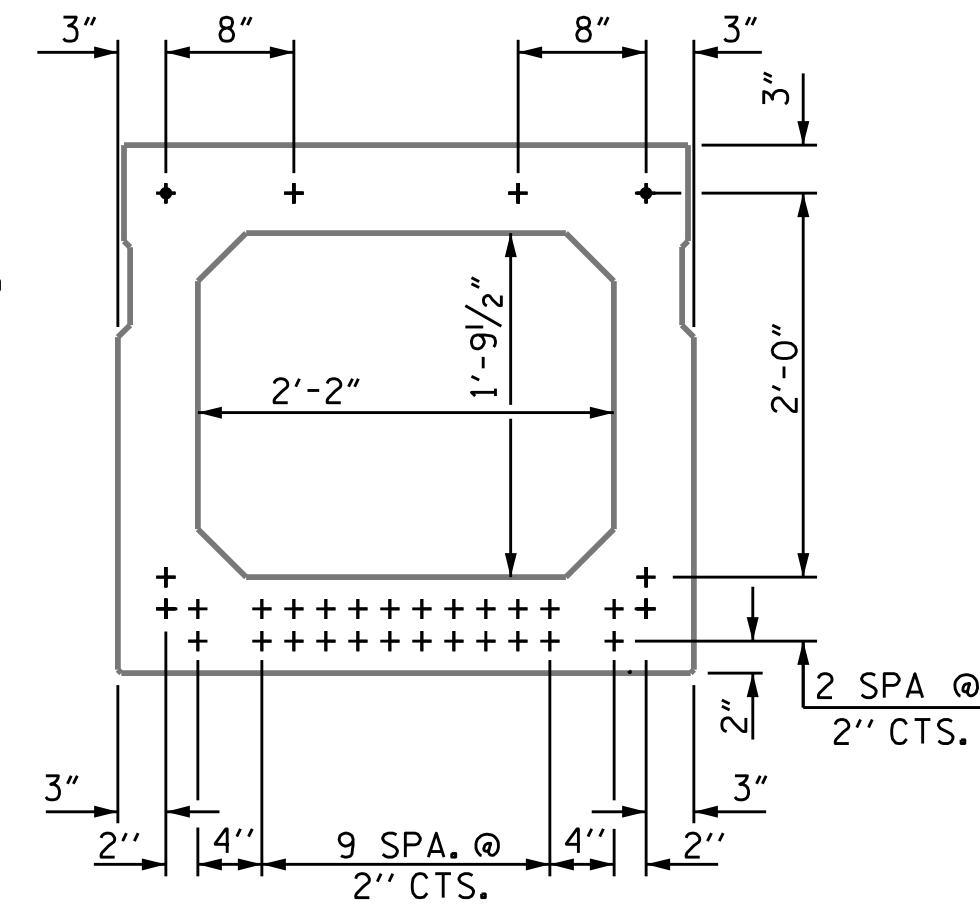


INTERIOR BOX BEAM SECTION
(STRAND LAYOUT NOT SHOWN)



EXTERIOR BOX BEAM SECTION
(STRAND LAYOUT NOT SHOWN)

0.6" Ø LOW RELAXATION STRAND LAYOUT



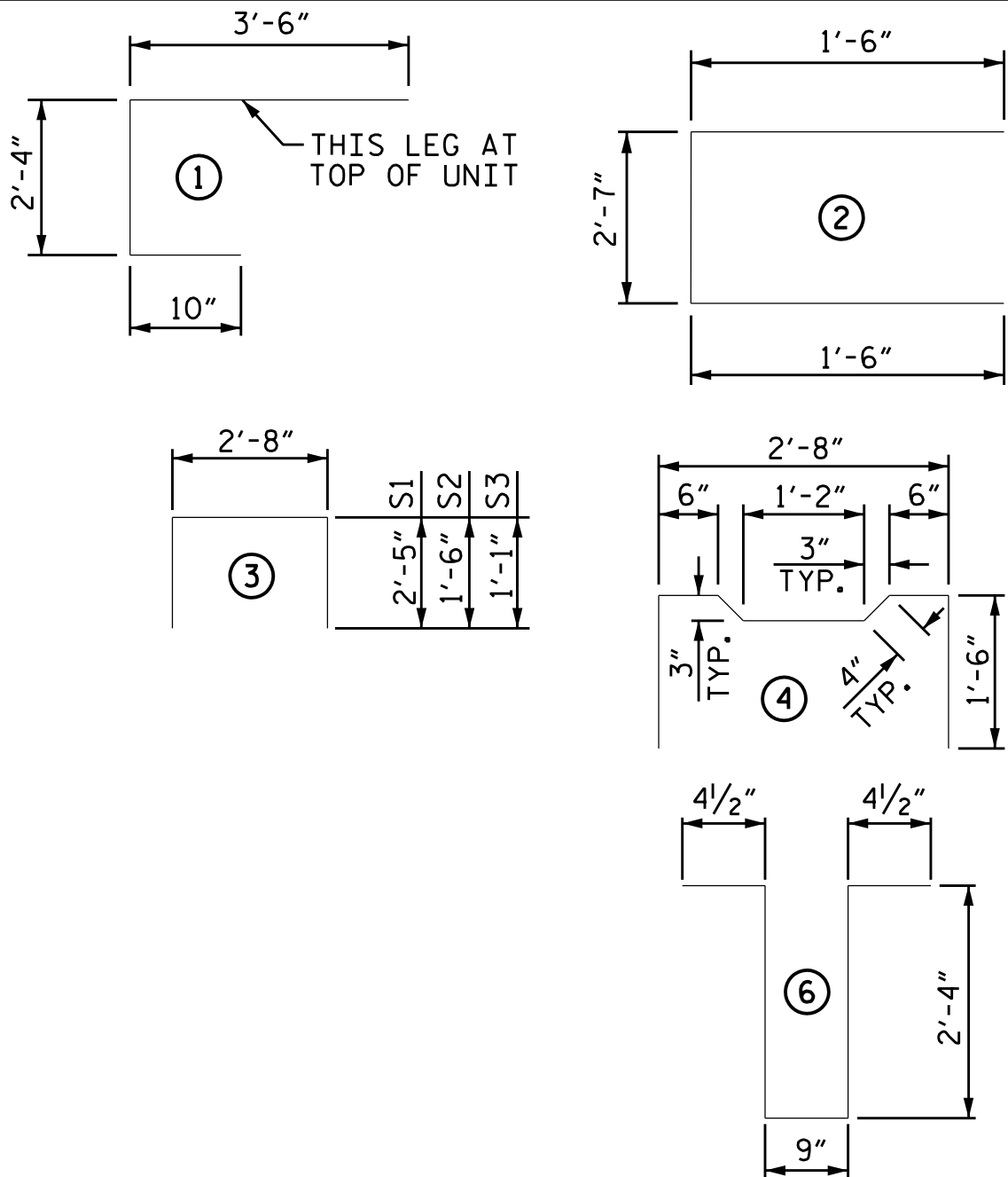
TYPICAL STRAND LOCATION
(... STRANDS REQUIRED)
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR
SECTION SIMILAR EXCEPT SHEAR KEY LOCATION)

DEBONDING LEGEND

- FULLY BONDED STRANDS

GRADE 270 STRANDS	
	0.6" Ø L.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

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		#4	2	5'-7"		5'-7"	
B		#5	STR				
K1		#4	6	6'-2"		6'-2"	
K2		#4	STR	2'-7"		2'-7"	
S1		#4	3	7'-6"		7'-6"	
S2		#4	3	5'-8"		5'-8"	
S3		#4	3	4'-10"		4'-10"	
S4		#4	4	5'-10"		5'-10"	
* S5		#5	5			--	--
REINFORCING STEEL				LBS.		LBS.	
* EPOXY COATED REINF. STEEL				LBS.		LBS.	
--- P.S.I. CONCRETE				CU. YDS.		CU. YDS.	
0.6" Ø L.R. STRANDS				No.		No.	

PROJECT NO. _____

COUNTY _____

STATION: _____

SHEET _ OF _

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
3'-0" X 2'-9"
PRESTRESSED CONCRETE
BOX BEAM UNIT
SPAN " _ "

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

ASSEMBLED BY :	DATE :	MAA/GM
CHECKED BY :	DATE :	RWW/TMG
DRAWN BY : TLA 5/05	REV. 10/1/11	MAA/THC
CHECKED BY : GM 6/05	REV. 1/15	
	REV. 12/17	