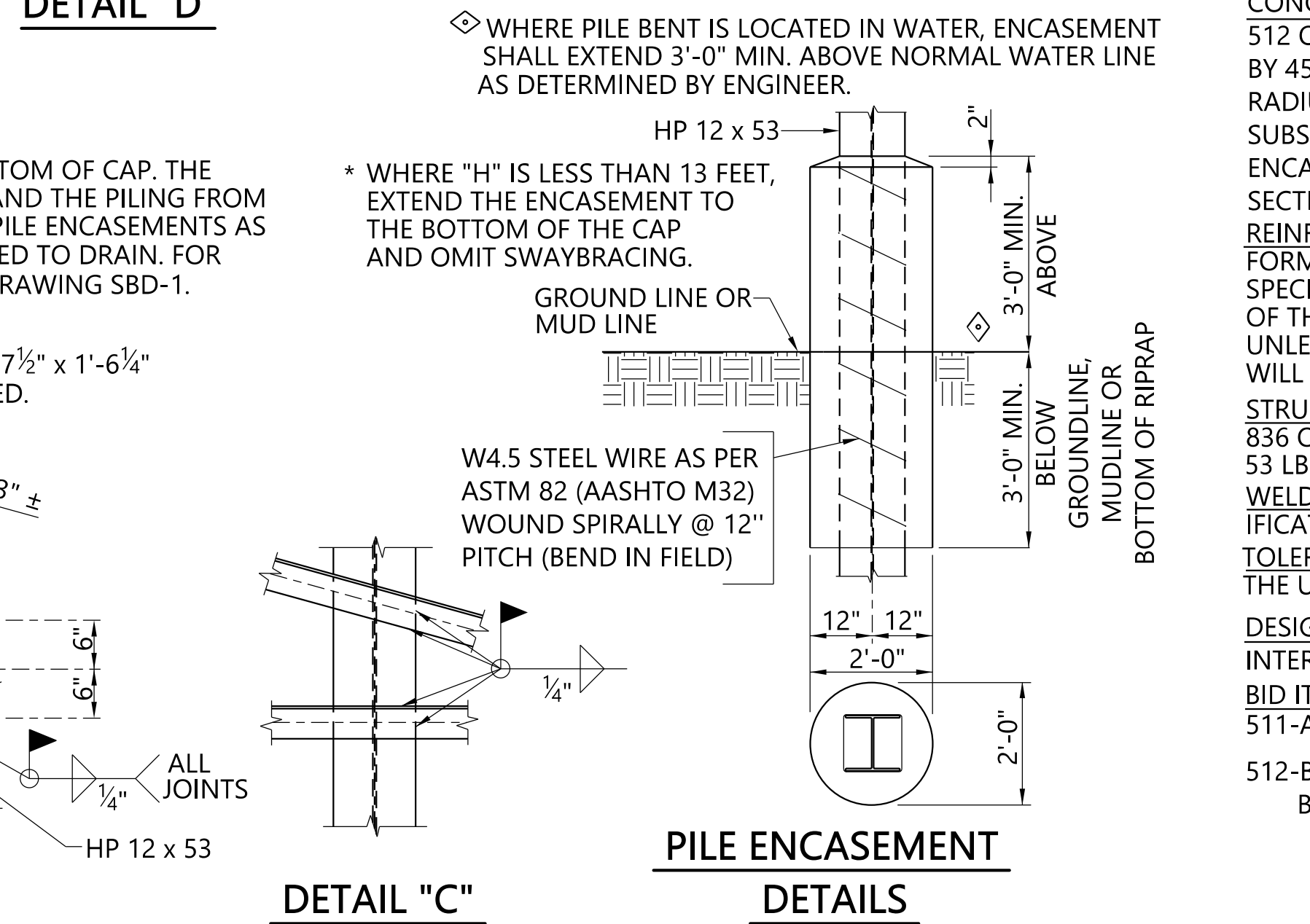
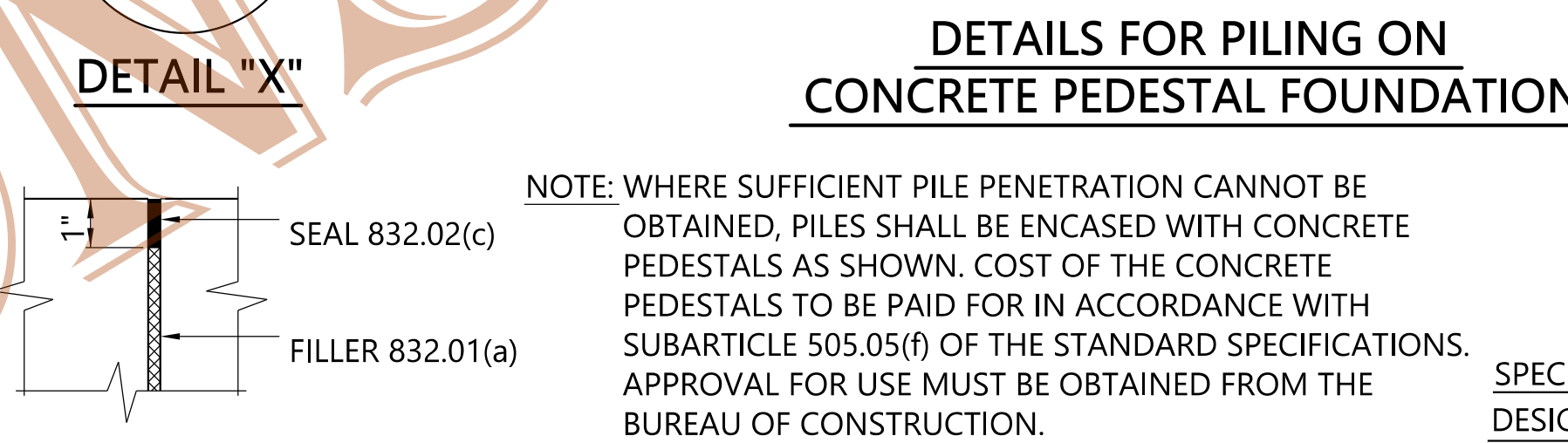
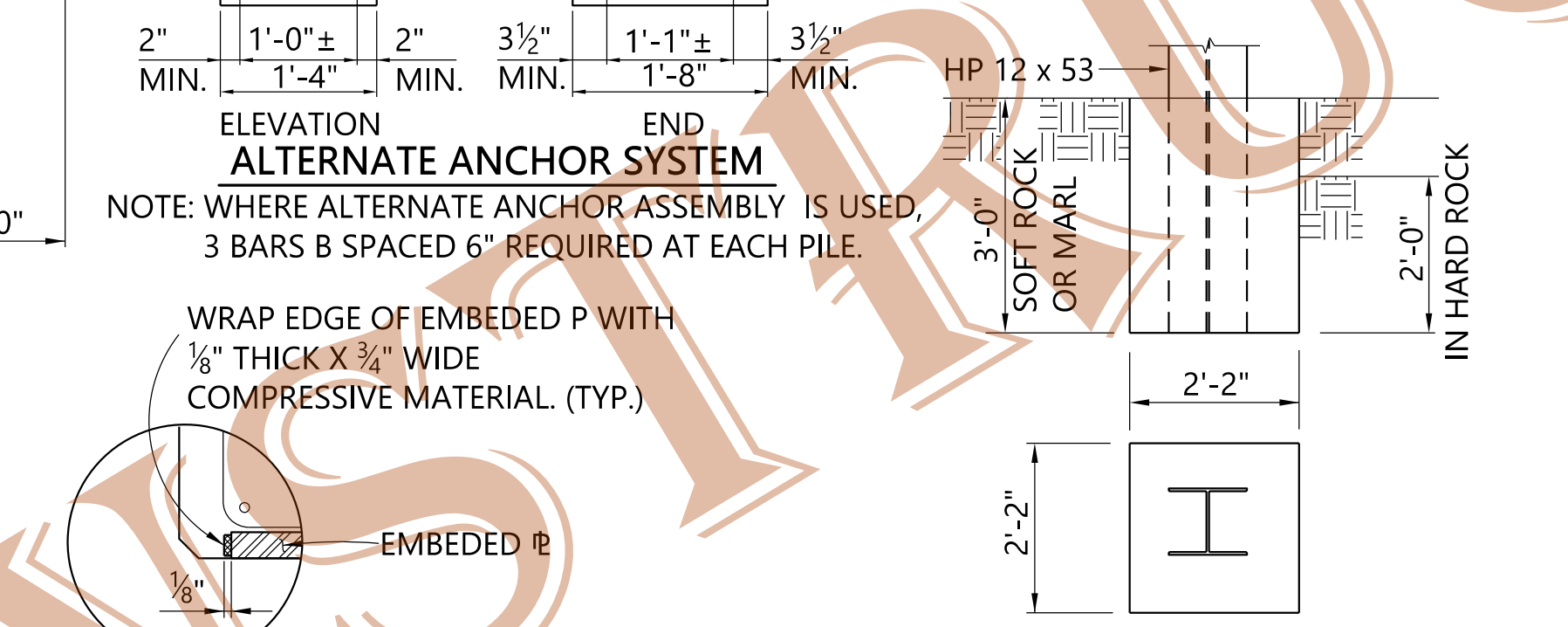
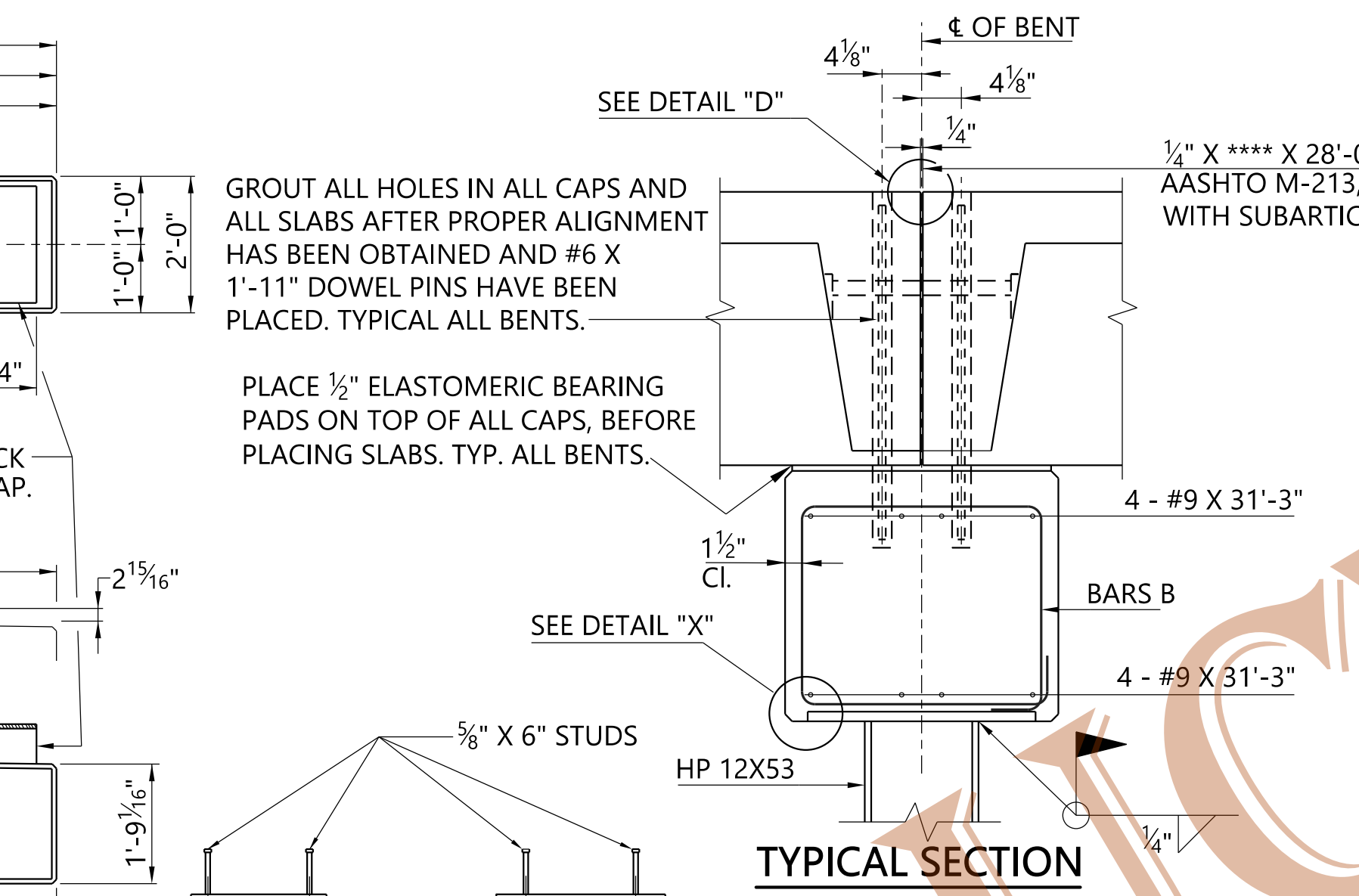
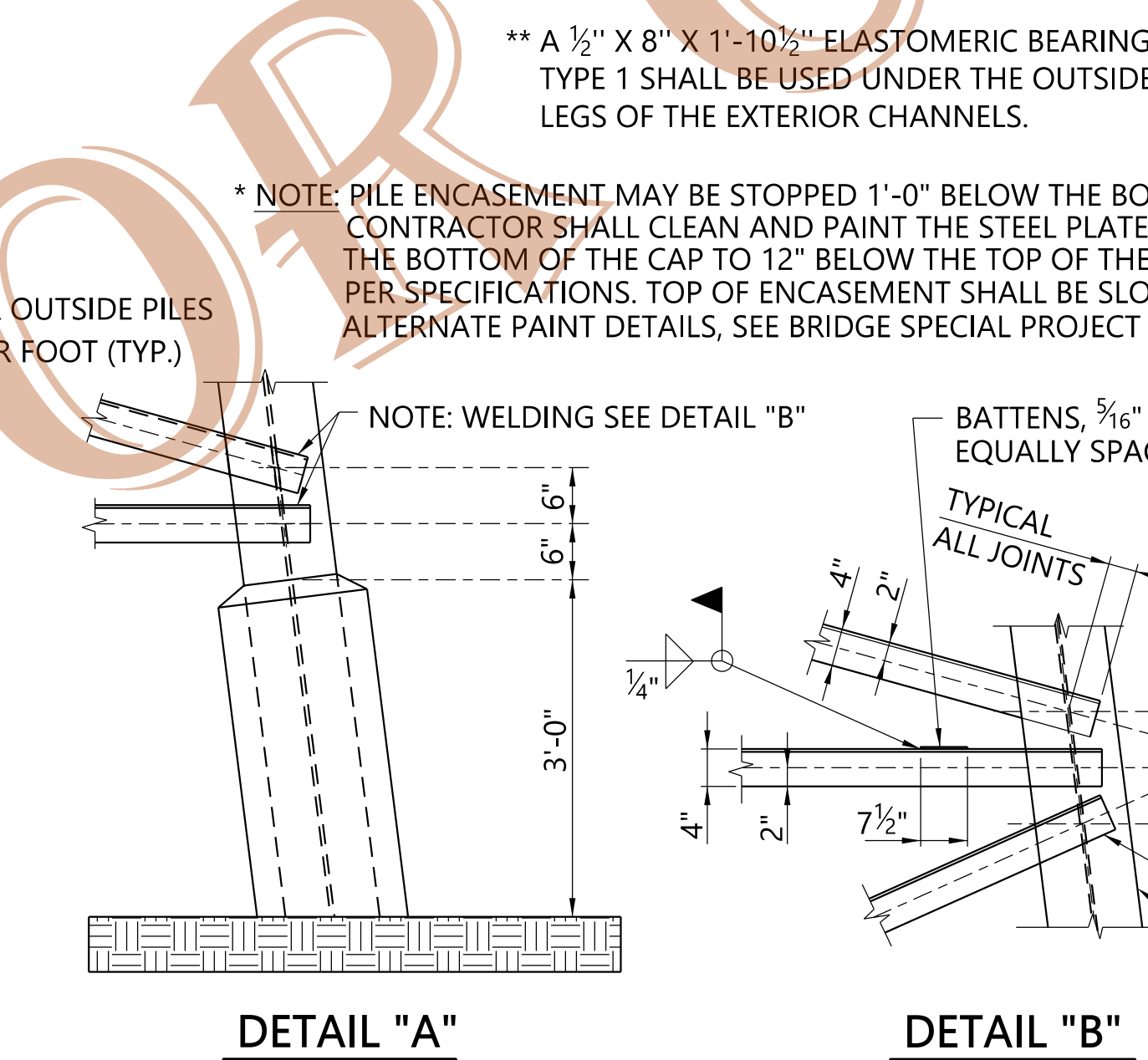
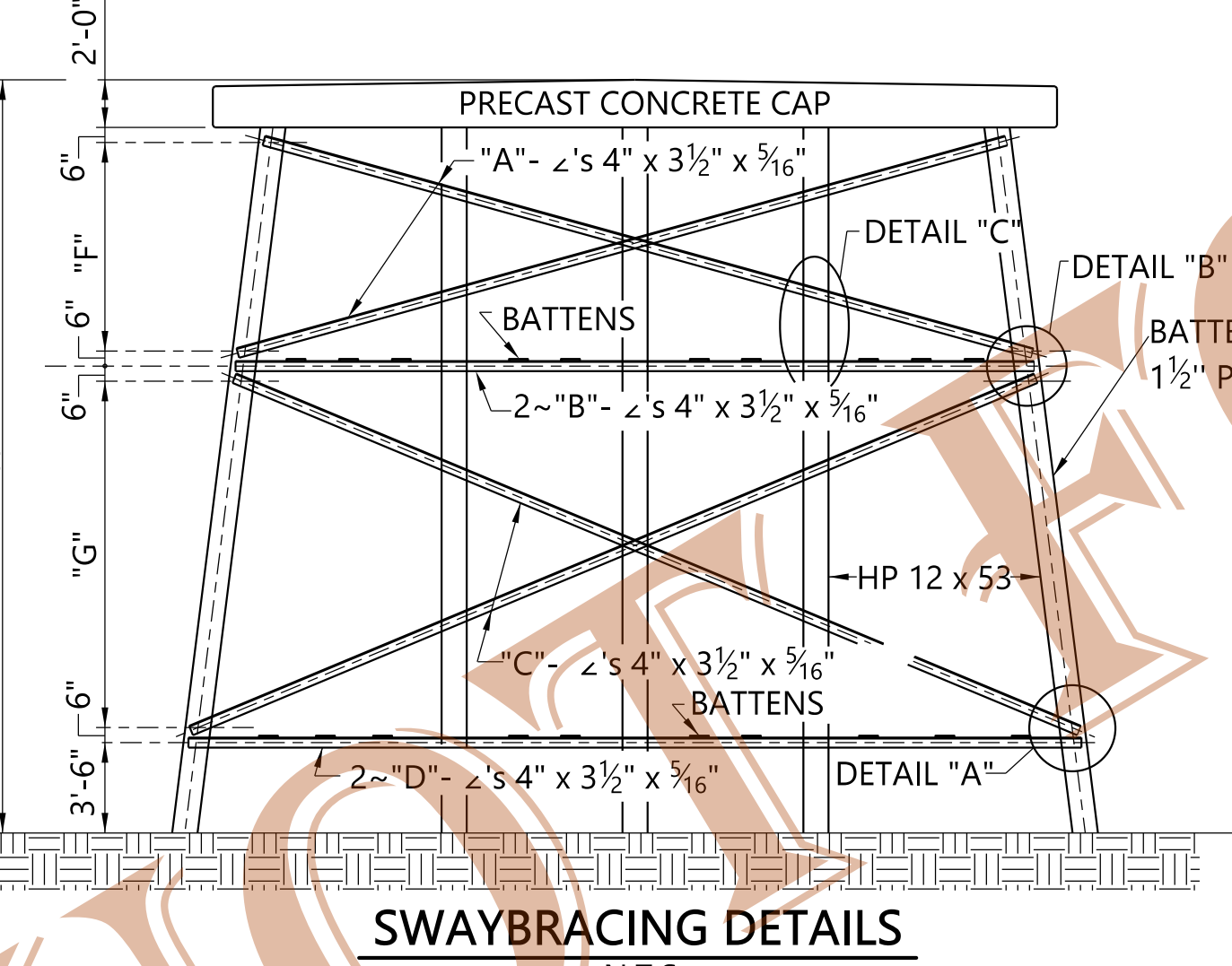
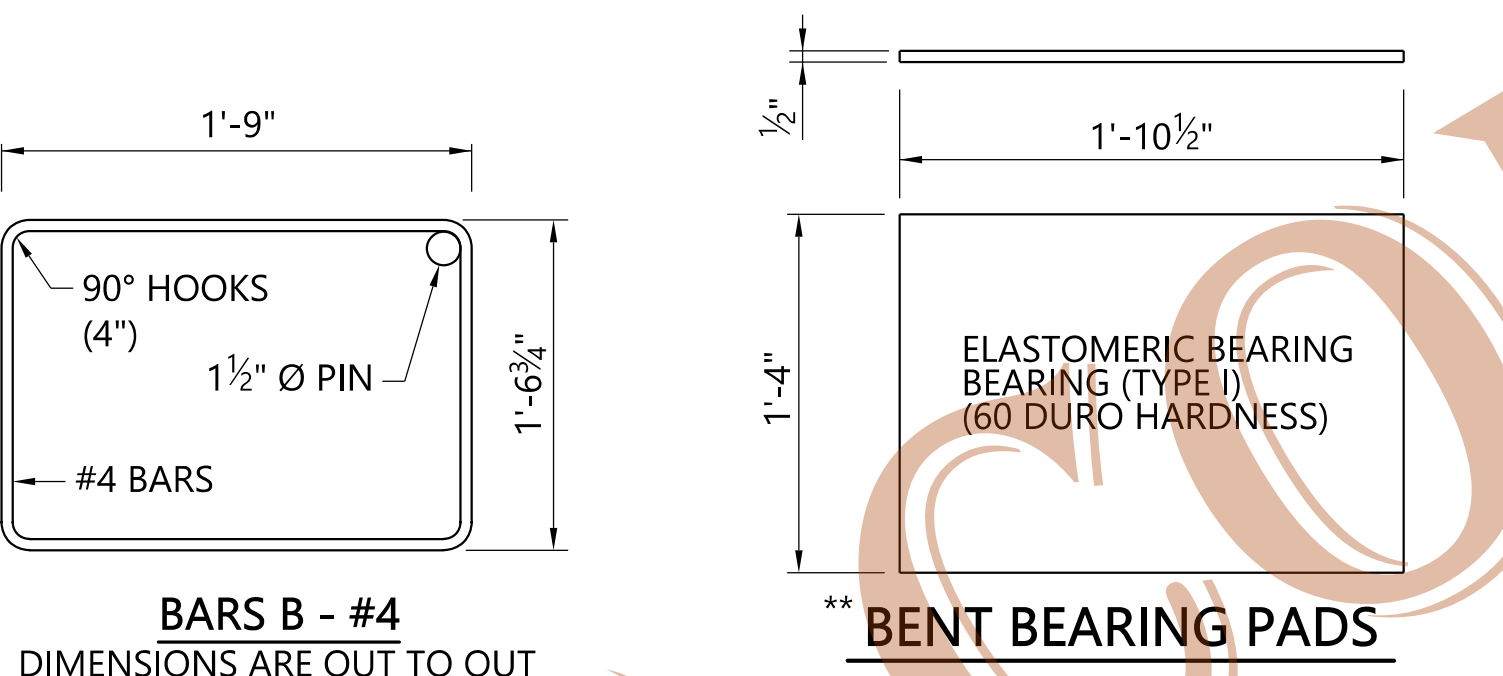
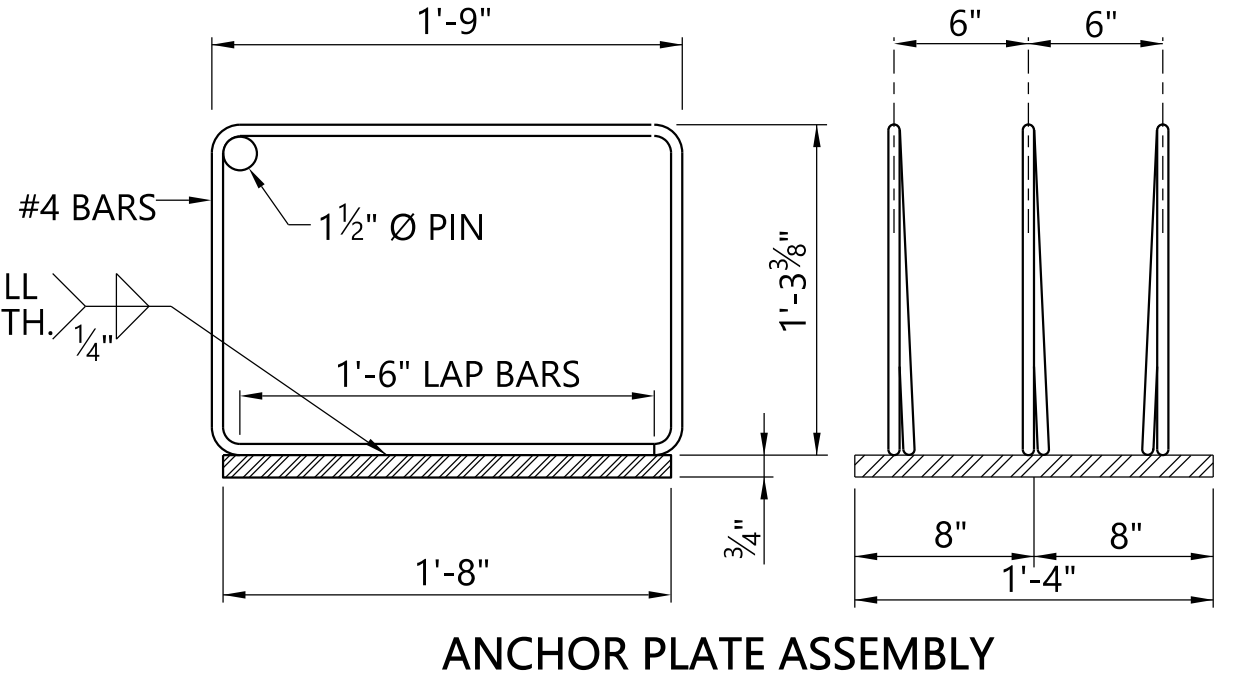


Δ CAPS SHALL BE ERECTED SO THAT THE BOTTOM OF THE CAP IS LEVEL ALONG THE ROADWAY AND PERPENDICULAR TO THE ROADWAY. THE ACCEPTABLE ERECTION TOLERANCE (SLOPE ON BOTTOM OF CAP) SHALL BE 1/16" PER FOOT ALONG THE ROADWAY AND 1/16" PER FOOT PERPENDICULAR TO THE ROADWAY. CAPS ERECTED OUTSIDE THIS TOLERANCE SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.



**\*\* DEPTH OF RISER BLOCK**

24' SPAN	NA
34' SPAN	4"
40' SPAN	7"

**\*\*\* PREFORMED EXP. JT. FILLER**

24' SPAN	1/4" x 16" x 28'
34' SPAN	1/4" x 20" x 28'
40' SPAN	1/4" x 23" x 28'

**DESIGN PARAMETERS**

THE FOLLOWING DESIGN PARAMETERS WERE USED TO DEVELOP THIS STANDARD DRAWING:

DESIGN AXIAL LOAD = 40 TONS / PILE FOR 24'-0" SPAN  
 DESIGN AXIAL LOAD = 49 TONS / PILE FOR 34'-0" SPAN  
 DESIGN AXIAL LOAD = 59 TONS / PILE FOR 40'-0" SPAN  
 "K" FOR COMPUTING UNBRACED PILE LENGTH = 2.0  
 SCOUR DEPTH = 0 FEET  
 DISTANCE FROM GROUNDLINE TO PILE FULLY FIXED = 15 FEET  
 FACTOR OF SAFETY FOR UNSCOURED CONDITION = 2.0

THE DESIGNER OF RECORD IS RESPONSIBLE FOR DETERMINING ACTUAL PILE SIZE AND BRACING REQUIREMENTS FOR CONDITIONS NOT SATISFIED BY THE ABOVE NOTED DESIGN PARAMETERS.

**SWAYBRACING TABLE**

	"H"	"F"	"G"	"A"	"B"	"C"	"D"	WT. LBS.
SINGLE STORY SWAYBRACING	13'-0"	6'-6"	---	29'-8"	29'-11"	---	---	1038
	14'-0"	7'-6"	---	30'-0"	30'-2"	---	---	1047
	15'-0"	8'-6"	---	30'-5"	30'-5"	---	---	1057
	16'-0"	9'-6"	---	30'-11"	30'-8"	---	---	1068
	17'-0"	10'-6"	---	31'-3"	30'-11"	---	---	1078
	18'-0"	11'-6"	---	31'-9"	31'-2"	---	---	1089
DOUBLE STORY SWAYBRACING	19'-0"	12'-6"	---	32'-3"	31'-5"	---	---	1101
	20'-0"	6'-11"	5'-7"	29'-10"	30'-0"	31'-4"	31'-8"	2132
	21'-0"	6'-11"	6'-7"	29'-10"	30'-0"	31'-8"	31'-11"	2141
	22'-0"	6'-11"	7'-7"	29'-10"	30'-0"	32'-0"	32'-2"	2150
	23'-0"	6'-11"	8'-7"	29'-10"	30'-0"	32'-4"	32'-5"	2160
	24'-0"	6'-11"	9'-7"	29'-10"	30'-0"	32'-9"	32'-8"	2170
	25'-0"	6'-11"	10'-7"	29'-10"	30'-0"	33'-2"	32'-11"	2180

NOTE: WEIGHT GIVEN IS TOTAL FOR TWO PIECES OF EACH LENGTH OF SWAYBRACING SHOWN IN TABLE. BATTEN WEIGHT INCLUDED IN ABOVE TABLE.

**GENERAL NOTES**

SPECIFICATIONS: ALABAMA DEPARTMENT OF TRANSPORTATION, CURRENT

DESIGN LOADING: A.A.S.H.T.O. HS20-44

CONCRETE: CONCRETE FOR PRECAST BENT CAP SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATIONS. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" BY 45° UNLESS OTHERWISE NOTED. ALL OTHER CORNERS ARE TO BE ROUNDED TO 1/4" RADIUS. CONCRETE WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM PRECAST CONCRETE CAP UNIT. CONCRETE FOR PILE ENCASEMENTS SHALL BE BRIDGE SUBSTRUCTURE CONCRETE IN ACCORDANCE WITH SECTION 501 OF THE STANDARD SPECIFICATIONS.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE AS REQUIRED BY ITEM 502.03(c)(4) OF THE STANDARD SPECIFICATIONS. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 835 OF THE STD. SPEC. REINFORCING DIMENSIONS ARE TO THE CENTER LINE OF THE BARS UNLESS OTHERWISE NOTED. THE ABOVE STEEL WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM OF PRECAST CONCRETE CAP UNIT.

STRUCTURAL STEEL AND PILING: ALL STRUCTURAL STEEL SHALL CONFORM TO SECTION 836 OF THE STANDARD SPECIFICATIONS. ALL PILING SHALL BE 12" STEEL "H" PILING, 53 LBS. FOR PILE SPICE DETAILS SEE BRIDGE SPECIAL PROJECT DRAWING SBD-1.

WELDING: ALL WELDING SHALL CONFORM TO ARTICLE 836.46 OF THE STANDARD SPECIFICATIONS.

TOLERANCES: A DEVIATION OF MORE THAN 1/8" MAY BE CAUSE FOR THE REJECTION OF THE UNIT.

DESIGN DATA: A.A.S.H.T.O. 2002 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES & INTERIMS SERVICE LOAD DESIGN

BID ITEMS:

511-A ELASTOMERIC BEARINGS, TYPE 1 - PER EACH.

512-B PRECAST CONCRETE INTERMEDIATE BENT CAPS, 2'-0" WIDE BY 2'-0" DEEP BY 31'-6" LONG - PER EACH.

ASSISTANT BRIDGE ENGINEER <i>[Signature]</i> DATE: 11/6/22	BRIDGE ENGINEER <i>[Signature]</i> DATE: 11/2/2022
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PLOTTED: 27-Dec-21 at 10:53

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