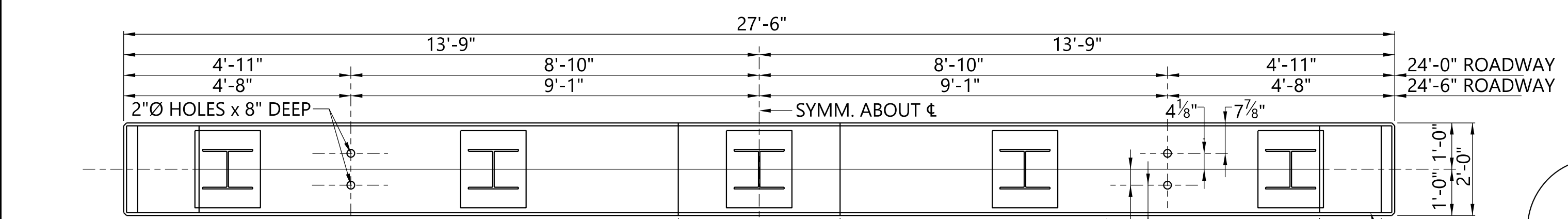


SHEET REFERENCE
 0 1" 2"
 \lbvms02\Bridges\Standards\Special\Bridges\Special DGN Files\2022 DGN\Precast\PCB2440-1.dgn
 PLOTTED: 27-Dec-21 at 10:52

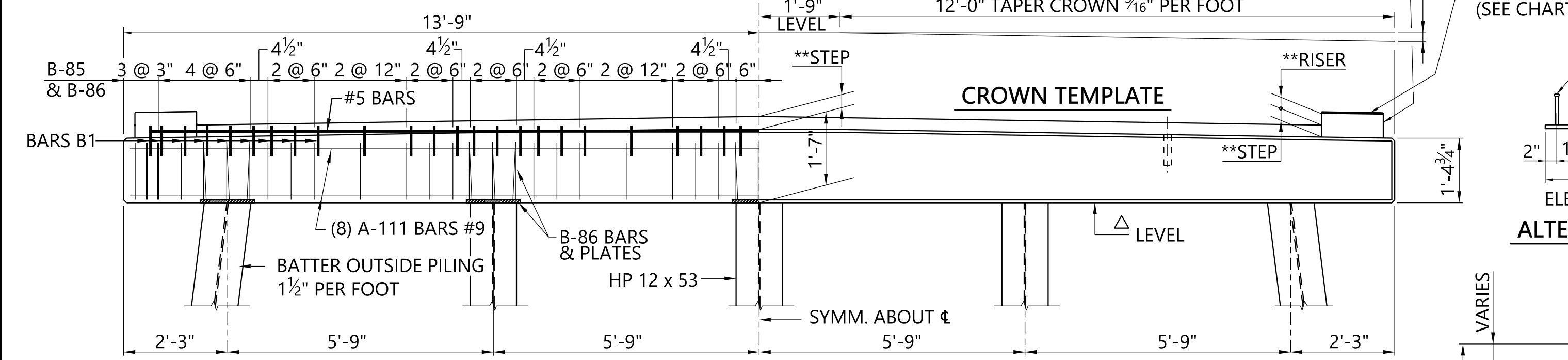
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



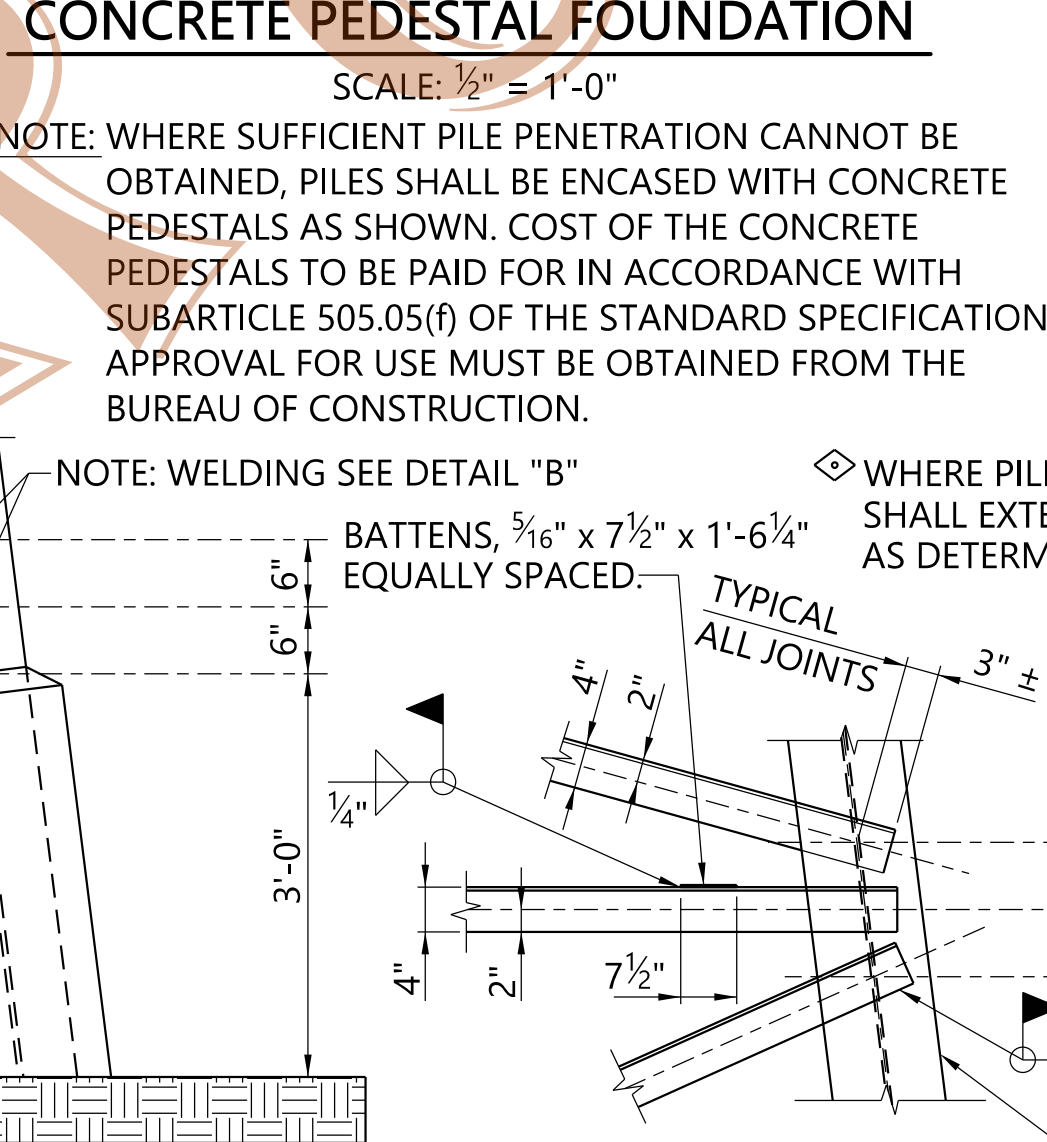
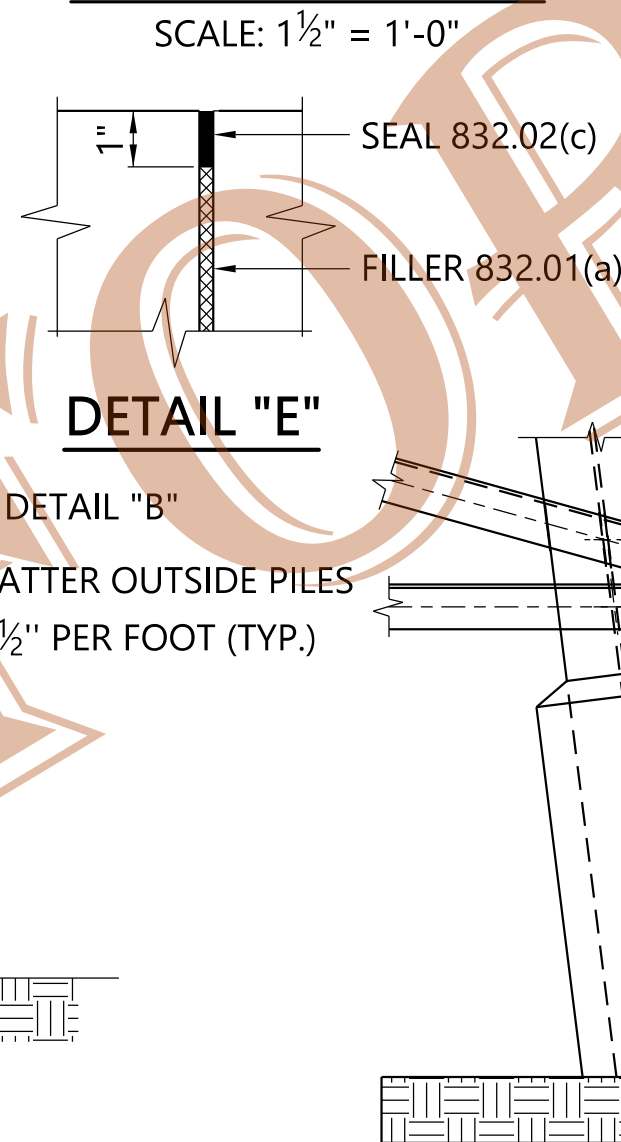
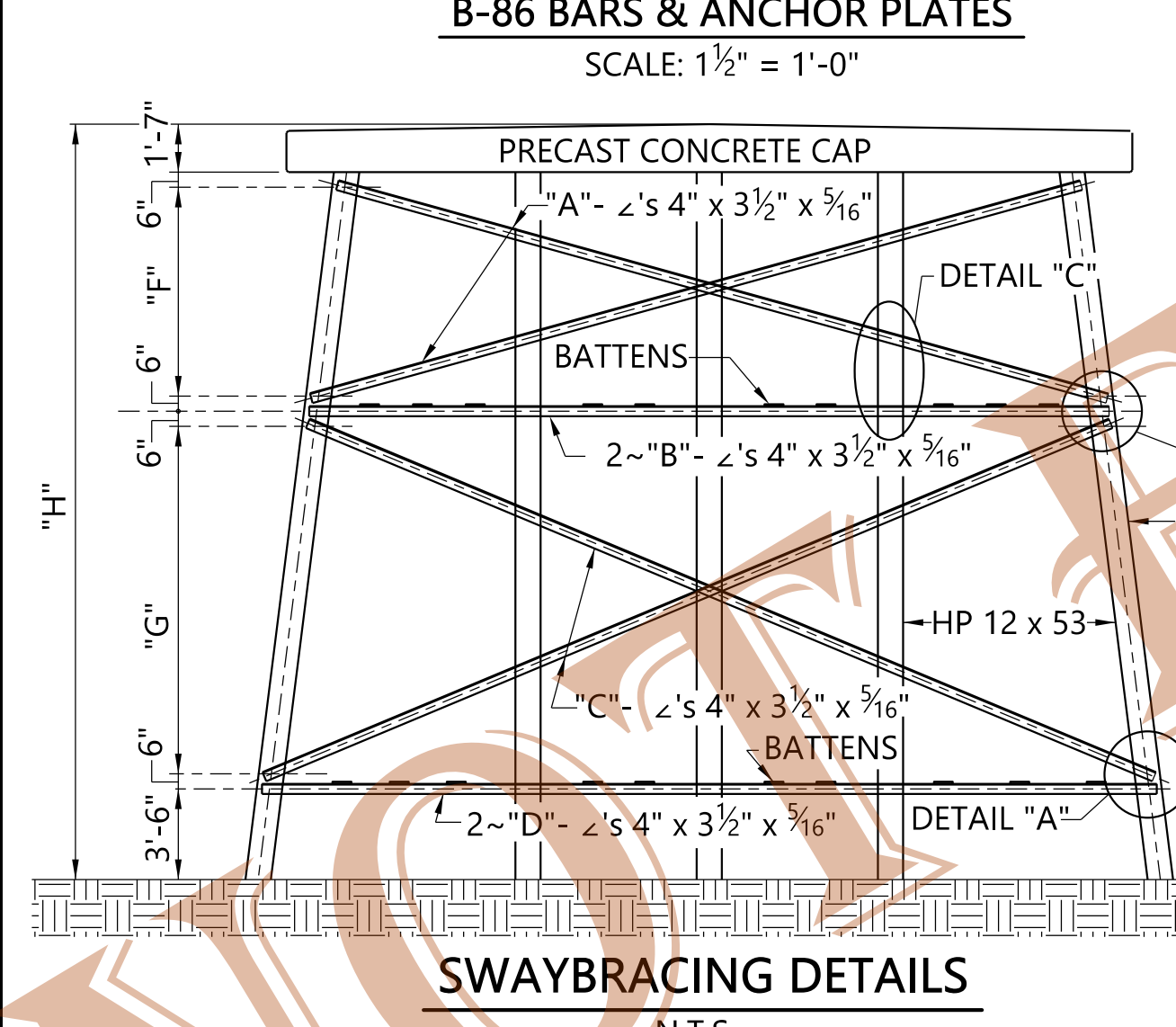
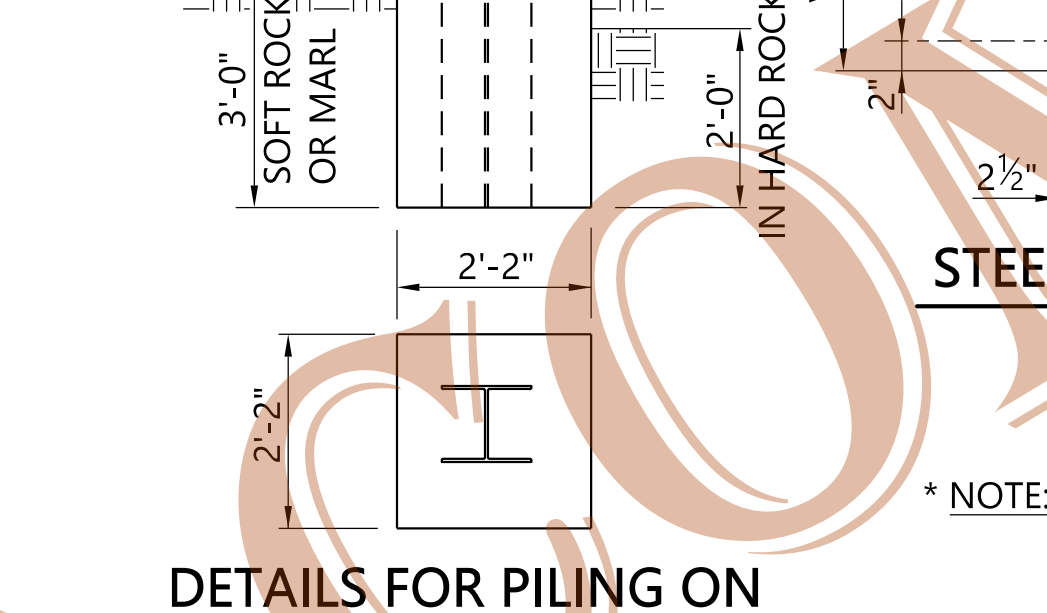
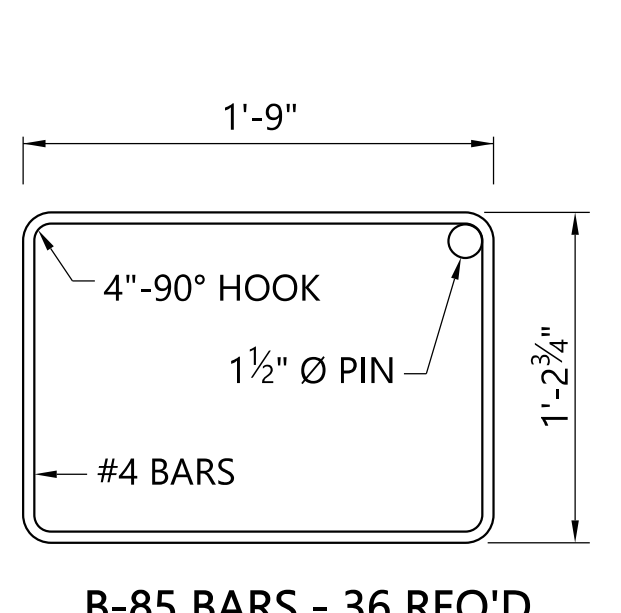
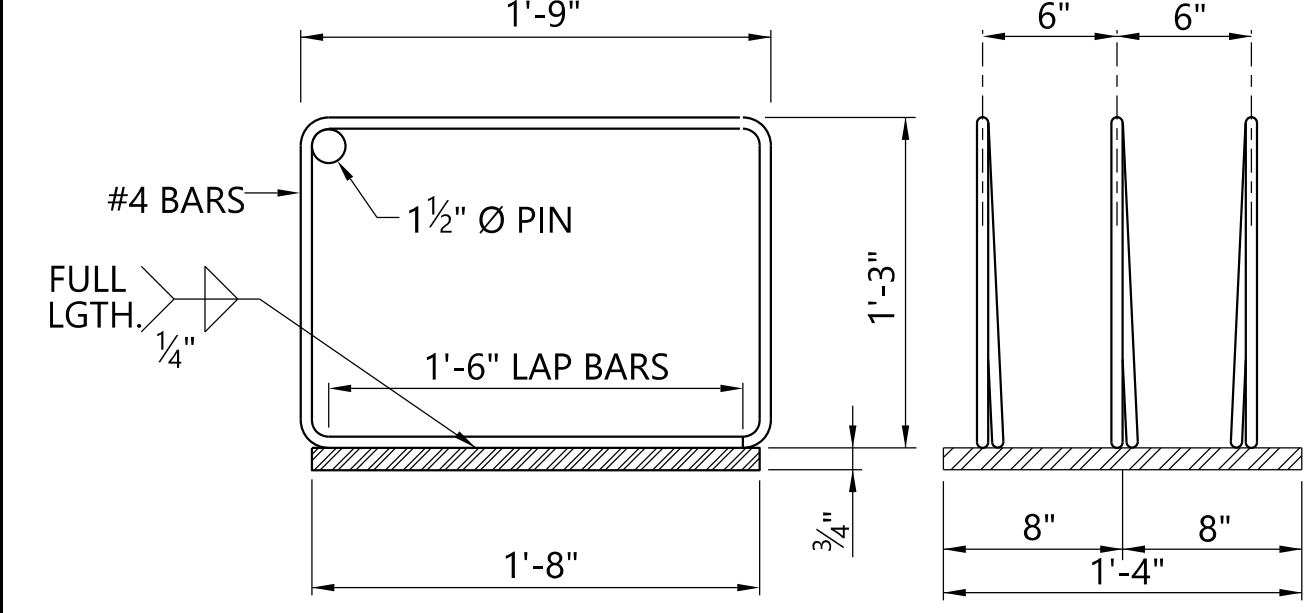
NOTE: ANY GRINDING OR LEVELING ON THE TOP SURFACE OF THE RISER THAT MAY BE REQUIRED TO INSURE PROPER SEATING OF THE BARRIER RAIL AND PRECAST CHANNEL SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

SCALE: 1/2" = 1'-0"

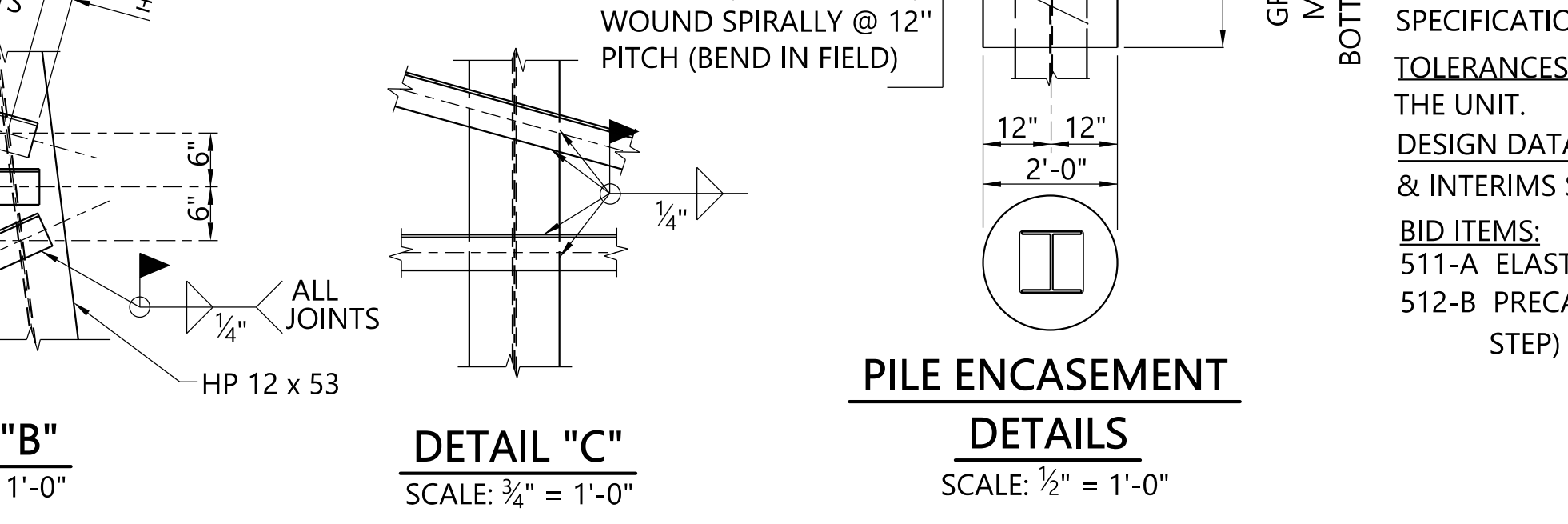
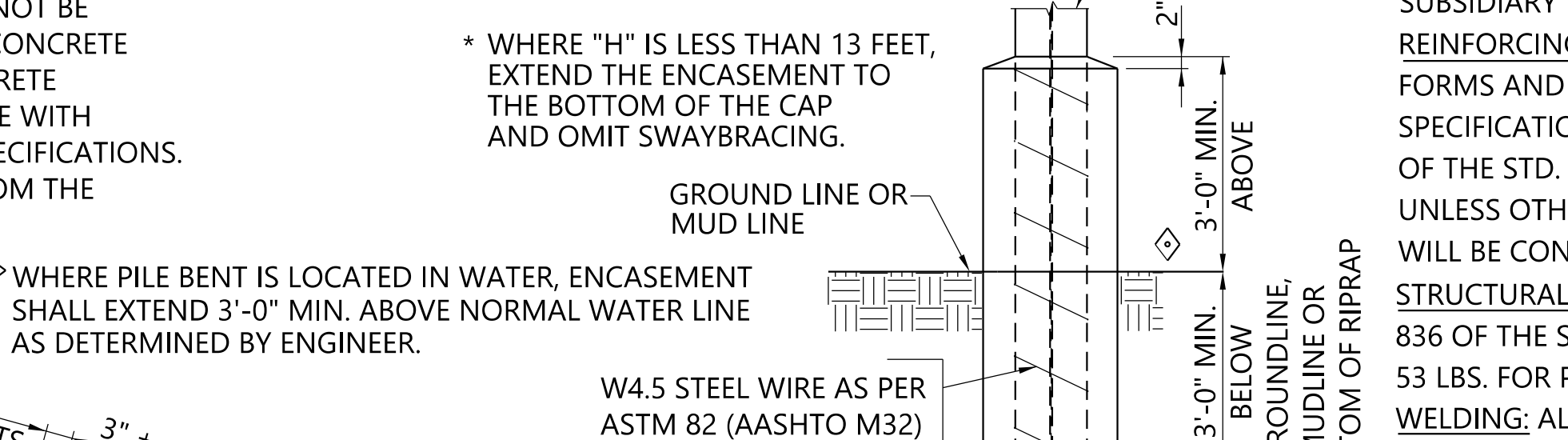
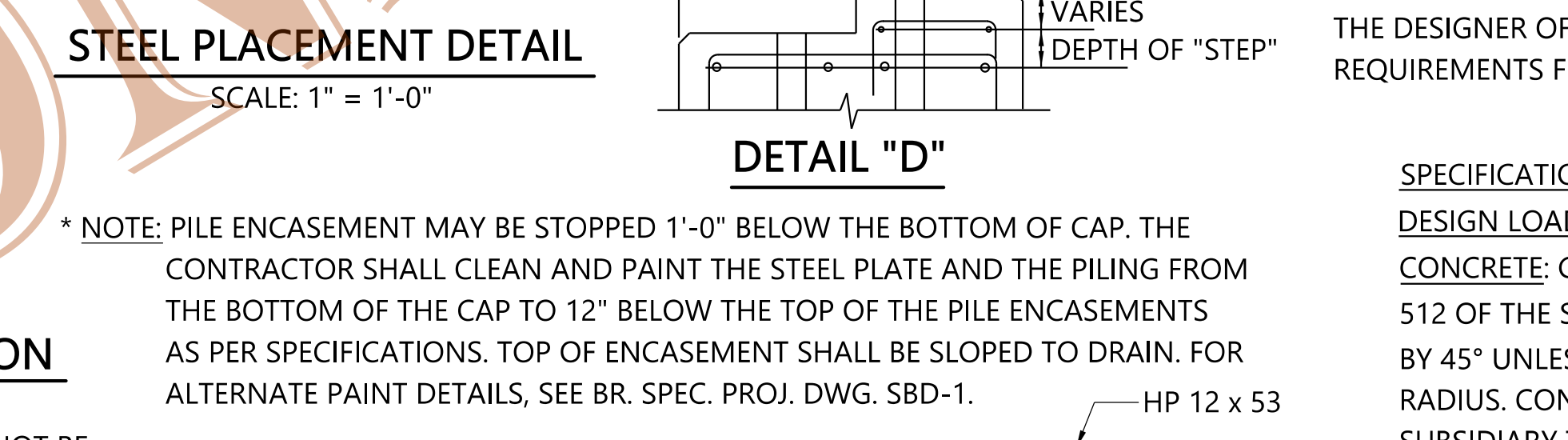
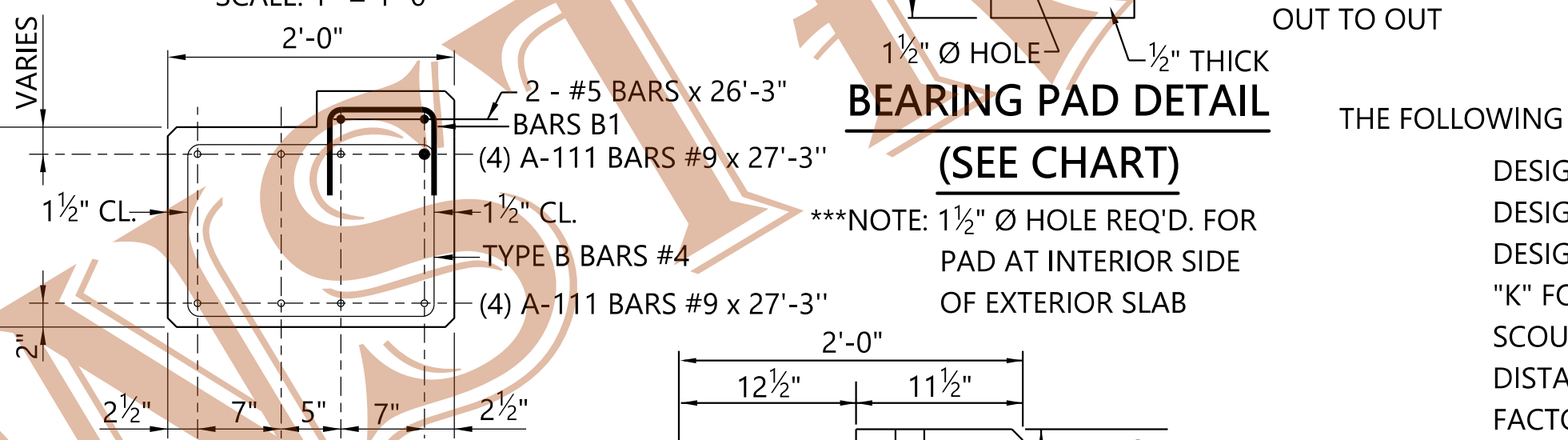
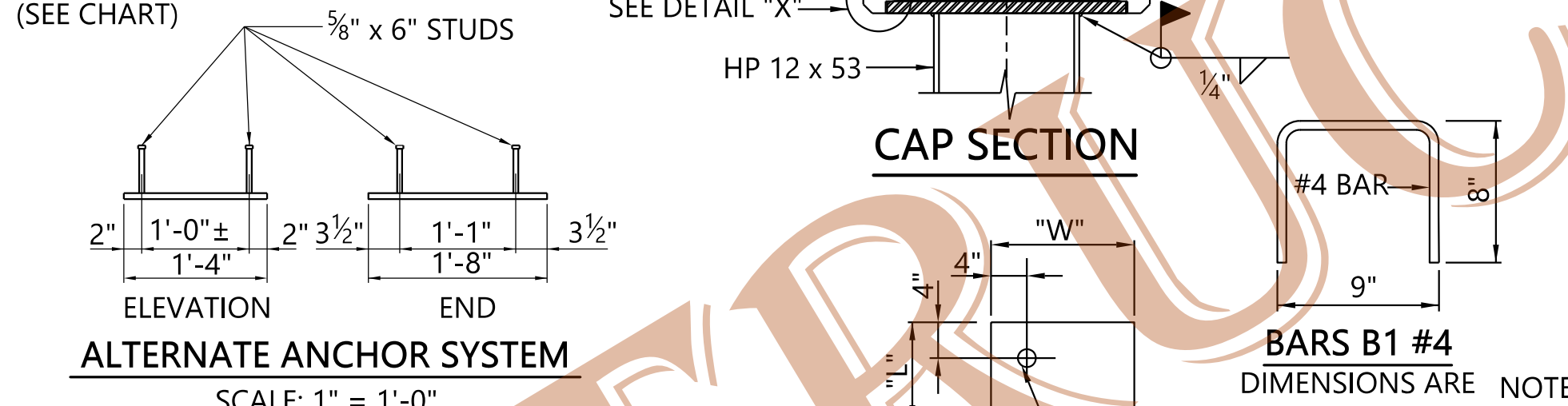
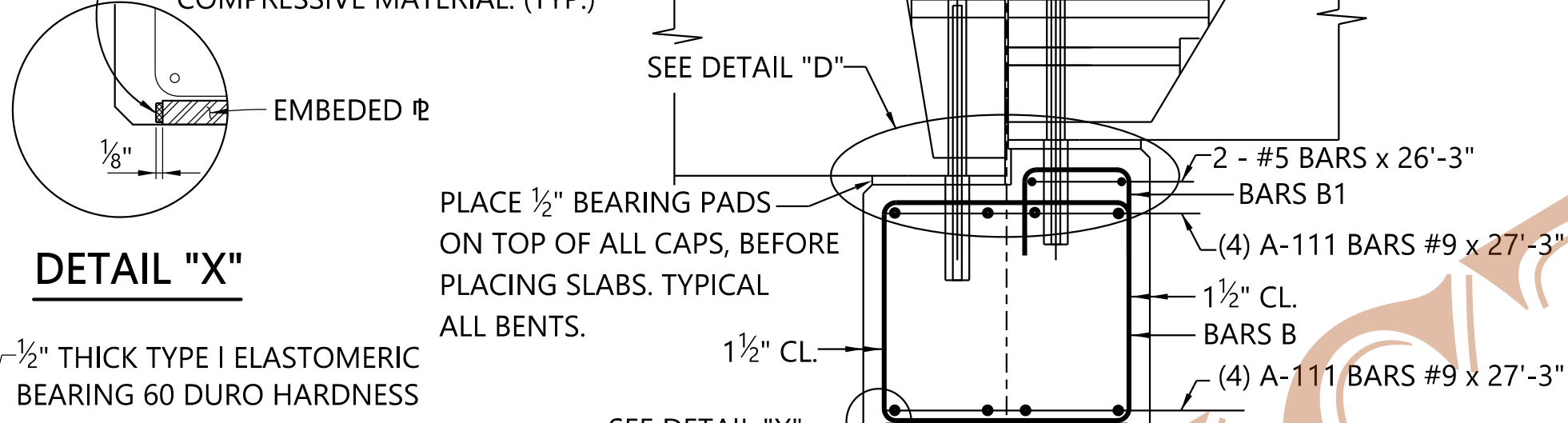
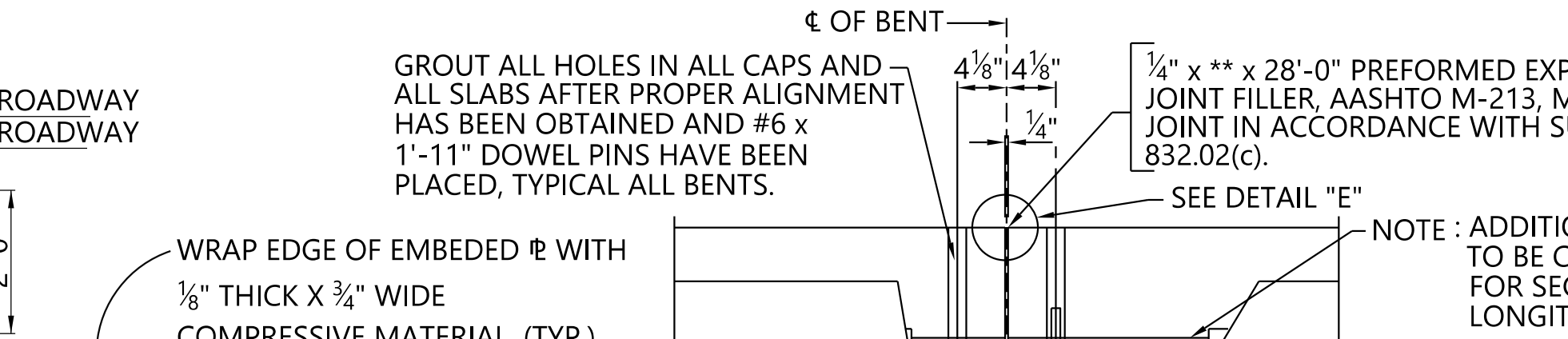
△ CAPS SHALL BE ERECTED SO THAT THE BOTTOM OF THE CAP IS LEVEL ALONG THE ROADWAY AND PERPENDICULAR TO THE ROADWAY. THE ACCEPTABLE ERECTION TOLERANCE (SLOPE ON BOTTOM OF CAP) SHALL BE 1/16" PER FOOT ALONG THE ROADWAY AND 1/16" PER FOOT PERPENDICULAR TO THE ROADWAY. CAPS ERECTED OUTSIDE THIS TOLERANCE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



SCALE: 1/2" = 1'-0"



TWO STORY BENT SHOWN, SINGLE STORY BENTS SIMILAR. SWAYBRACING FOR SINGLE STORY BENTS SHALL BE 4" x 3 1/2" x 5/16" ANGLES & DESIGNATED BY THE LETTER "A" AND "B". ALL PILING AT GROUND AND OR WATER LINE SHALL BE ENCASED IN CONCRETE. NOTE ENCASEMENT DETAILS.



**** DEPTH OF STEP, RISER BLOCK & JOINT FILLER**

	STEP	RISER	JT. FILLER
24' SPAN TO 34' SPAN	4"	NA	20"
24' SPAN TO 40' SPAN	7"	NA	23"
34' SPAN TO 40' SPAN	3"	4"	23"

TYPE I ELASTOMERIC BEARING PAD DIMENSIONS

LOCATION	"L"	"W"
BARRIER RAIL	1'-10 1/2"	1'-4"
INTERIOR SLABS	11 1/4"	1'-4"
EXTERIOR SIDE OF EXTERIOR SLAB	11 1/4"	8"

SWAYBRACING TABLE

	"H"	"F"	"G"	"A"	"B"	"C"	"D"	WT. LBS.
SINGLE STORY SWAYBRACING	13'-0"	6'-11"	---	25'-6"	25'-6"	---	---	906
	14'-0"	7'-11"	---	25'-11"	25'-9"	---	---	916
	15'-0"	8'-11"	---	26'-4"	26'-0"	---	---	927
	16'-0"	9'-11"	---	26'-10"	26'-3"	---	---	938
	17'-0"	10'-11"	---	27'-4"	26'-6"	---	---	949
DOUBLE STORY SWAYBRACING	18'-0"	11'-11"	---	27'-10"	26'-9"	---	---	961
	19'-0"	12'-11"	---	28'-5"	27'-0"	---	---	974
	20'-0"	6'-11"	6'-0"	25'-6"	25'-6"	27'-0"	27'-3"	1862
	21'-0"	6'-11"	7'-0"	25'-6"	25'-6"	27'-5"	27'-6"	1872
	22'-0"	6'-11"	8'-0"	25'-6"	25'-6"	27'-10"	27'-9"	1882
23'-0"	6'-11"	9'-0"	25'-6"	25'-6"	28'-3"	28'-0"	1892	
24'-0"	6'-11"	10'-0"	25'-6"	25'-6"	28'-9"	28'-3"	1903	
25'-0"	6'-11"	11'-0"	25'-6"	25'-6"	29'-2"	28'-6"	1914	

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

DESIGN PARAMETERS

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

DESIGN AXIAL LOAD = 37 TONS / PILE FOR 24'-0" SPAN
 DESIGN AXIAL LOAD = 44 TONS / PILE FOR 34'-0" SPAN
 DESIGN AXIAL LOAD = 54 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.

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.
 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 1'-7" DEEP (PLUS STEP) BY 27'-6" LONG - PER EACH.