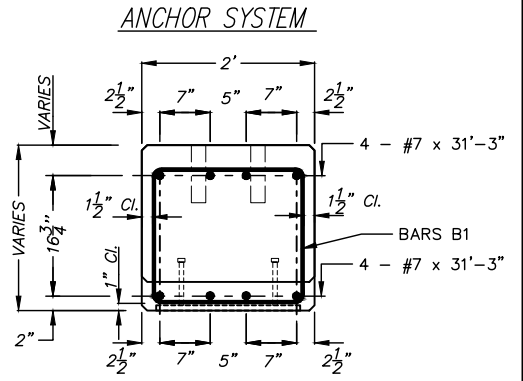
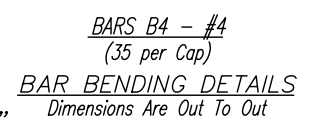
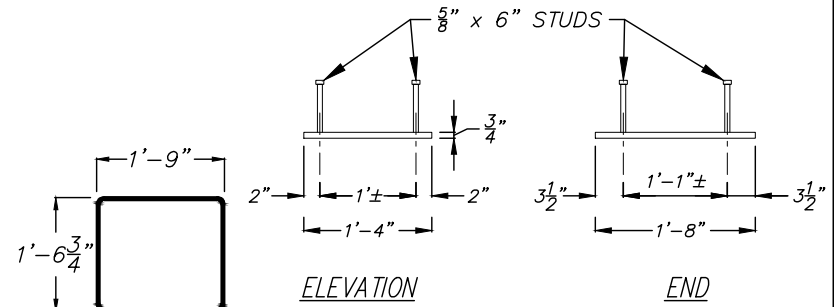


**** DEPTH OF RISER BLOCK**

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

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

24' SPAN	1/4" x 16" x 28'-0"
34' SPAN	1/4" x 20" x 28'-0"
40' SPAN	1/4" x 23" x 28'-0"



BEARING PADS

A 1/2" X 8" X 1'-10 1/2" Elastomeric Bearing, Type 1, Shall Be Used Under The Outside Legs Of The Exterior Channels.

DESIGN PARAMETERS
 THE FOLLOWING DESIGN PARAMETERS WERE USED TO DEVELOP THIS STANDARD DRAWING:
 ALLOWABLE PILE LOAD = 55 TONS/PILE WITH A FACTOR OF SAFETY OF 2.0 (MIN.)
 "K" FOR COMPUTING UNBRACED PILE LENGTH = 1.0
 SCOUR DEPTH = NOT CALCULATED
 DISTANCE FROM GROUND LINE TO PILE FULLY FIXED = 10 FEET
 FACTOR OF SAFETY FOR UNSECURED 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:
 AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS
 AASHTO STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS AND METHODS OF SAMPLING AND TESTING
 AMERICAN SOCIETY FOR TESTING AND MATERIALS
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60 BILLET STEEL MEETING THE REQUIREMENTS OF AASHTO M31. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND PROPER CLEARANCES MAINTAINED WITH STAINLESS STEEL, PLASTIC, OR RUBBER TIPPED CHAIRS. REINFORCING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON PLANS.

CONCRETE: CONCRETE SHALL CONFORM TO AASHTO CLASS A(AE). MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSL. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" X 45" UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL AND PILING: ALL STRUCTURAL STEEL SHALL COMPLY WITH AASHTO M270 GRADE 36. ALL PILING SHALL BE 12" STEEL "H" PILING, 53 LBS PER FOOT. ALLOWABLE PILE LOAD = 55 TONS WITH A FACTOR OF SAFETY OF 2.0 (MIN.) (HL-93).

WELDING: ALL WELDING SHALL CONFORM TO ANSI/AASHTO/ANS D 1.5 "BRIDGE WELDING CODE"

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

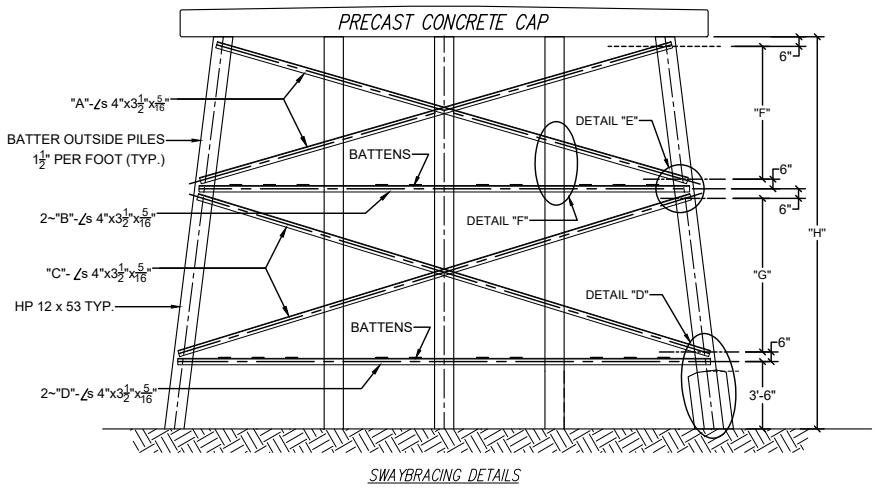
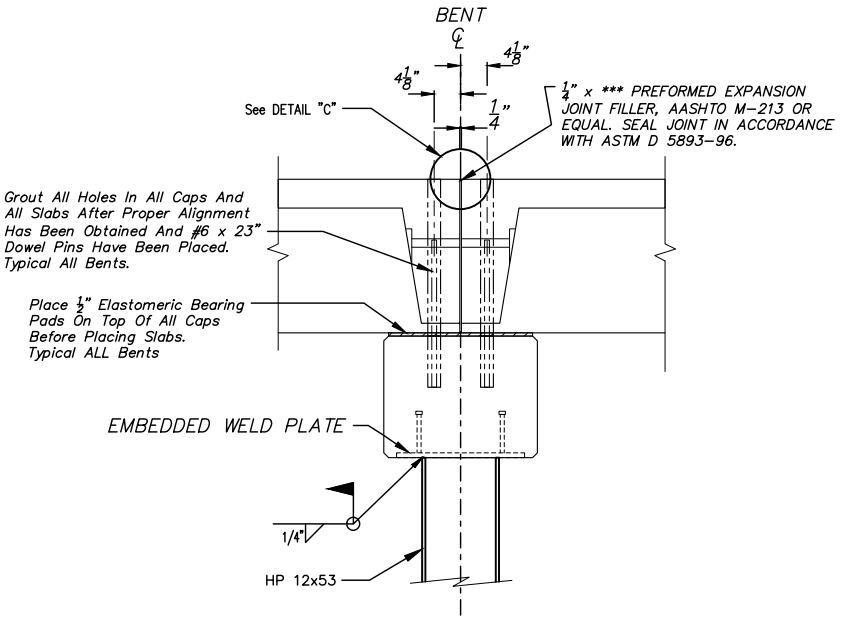
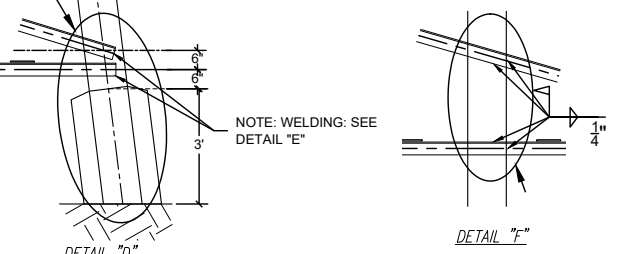
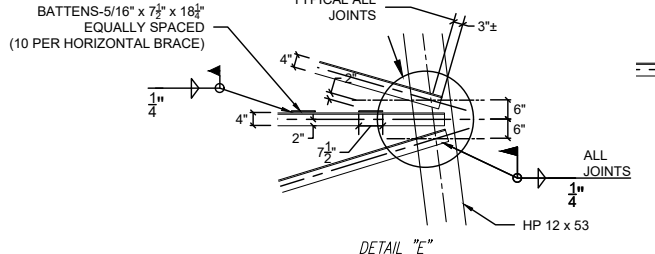
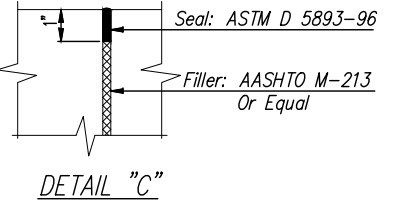
HARDWARE: ALL BOLTS SHALL CONFORM TO ASTM A-307 AND BE GALVANIZED IN ACCORDANCE WITH ASTM-A153

DESIGN DATA:
 SPECIFICATIONS:.....AASHTO 2017, 8TH EDITION AND ALL INTERIMS
 DESIGN LOADING:.....HL-93

Δ CAPS SHALL BE ERECTED SO THAT THE BOTTOM OF THE CAP IS LEVEL. CAPS ERECTED WITH A SLOPE ON THE BOTTOM OF THE CAP GREATER THAN 3/16" PER FOOT SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE PROJECT.

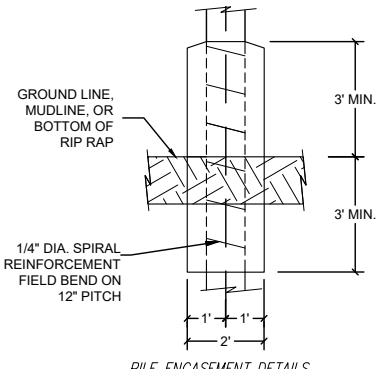
NOTE: WEIGHT GIVEN IS TOTAL FOR TWO PIECES OF EACH LENGTH OF SWAYBRACING IN TABLE PLUS 10 BATTENS PER STORY OF SWAYBRACING.

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



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 Letters "A" & "B". All Piling @ Ground And or Water Line Shall Be Encased In Concrete. Note Encasement Details.

NOTE: WHERE "H" IS LESS THAN 11', OMIT SWAYBRACING AND EXTEND THE ENCASEMENT TO THE BOTTOM OF THE CAP OR TO WITHIN 1' OF THE BOTTOM OF THE CAP. IF ENCASEMENT IS STOPPED SHORT OF THE BOTTOM OF THE CAP, THE STEEL PLATE AND STEEL PILE SHALL BE CLEANED AND PAINTED TO 12" BELOW THE TOP OF THE PILE ENCASEMENT.



NOTE: A PRE-FABRICATED H-PILE SPLICER, SUCH AS APF HP-30000 CHAMPION SPLICER OR EQUAL, SHALL BE USED FOR SPLICING PILES.



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 PERFORMANCE RELIABILITY EXPERIENCE

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 P. O. Box 129
 Troy, Alabama 36081
 334-566-7422

249 Pike County Lake Rd.
 Troy, Alabama 36079

PRECAST CONCRETE BENT CAP
 FOR USE WITH STEEL PILING & 24', 34', OR 40'
 PRECAST BRIDGE SLABS 28'-0" CLEAR ROADWAY

DATE: 12/05/2022
 STANDARD DWG. NO. PCB-2840 LRFD
 SHEET NO. 17 OF 27