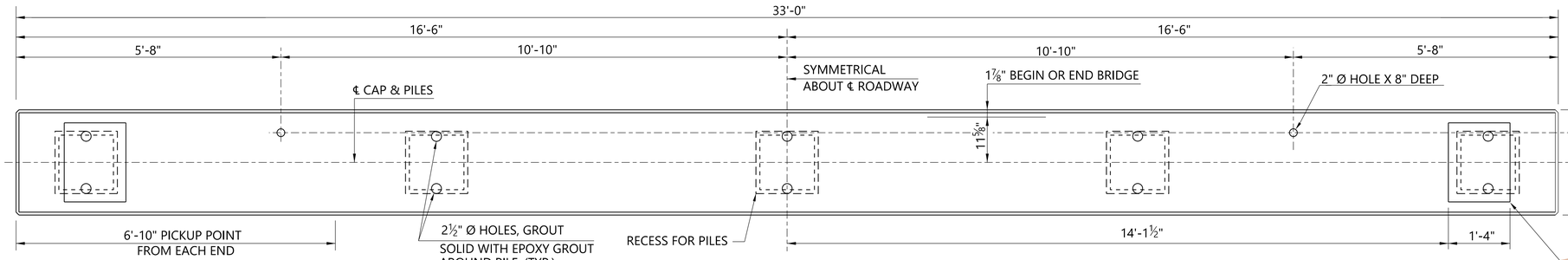
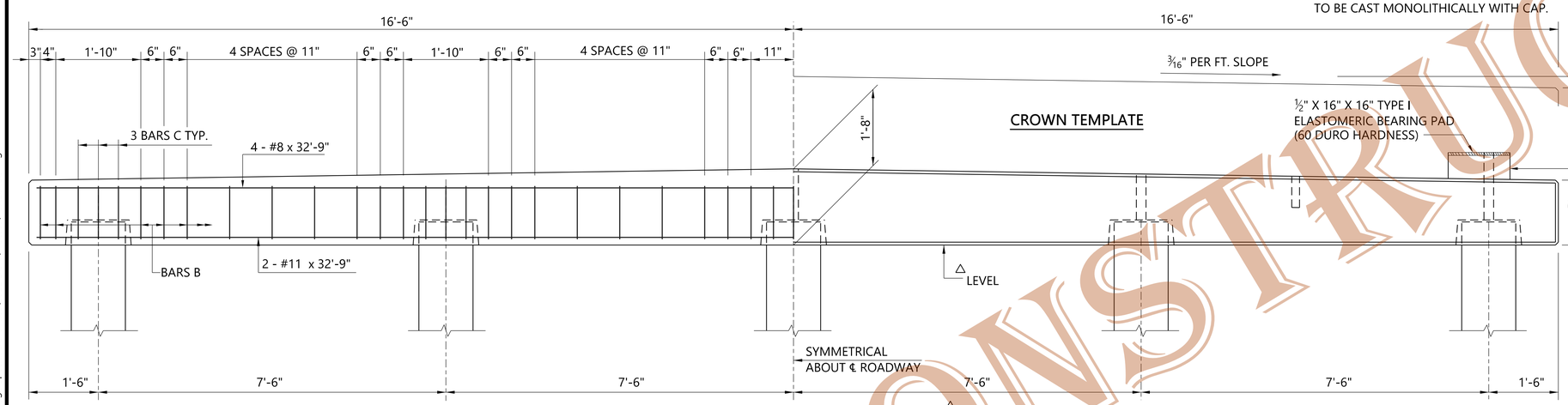
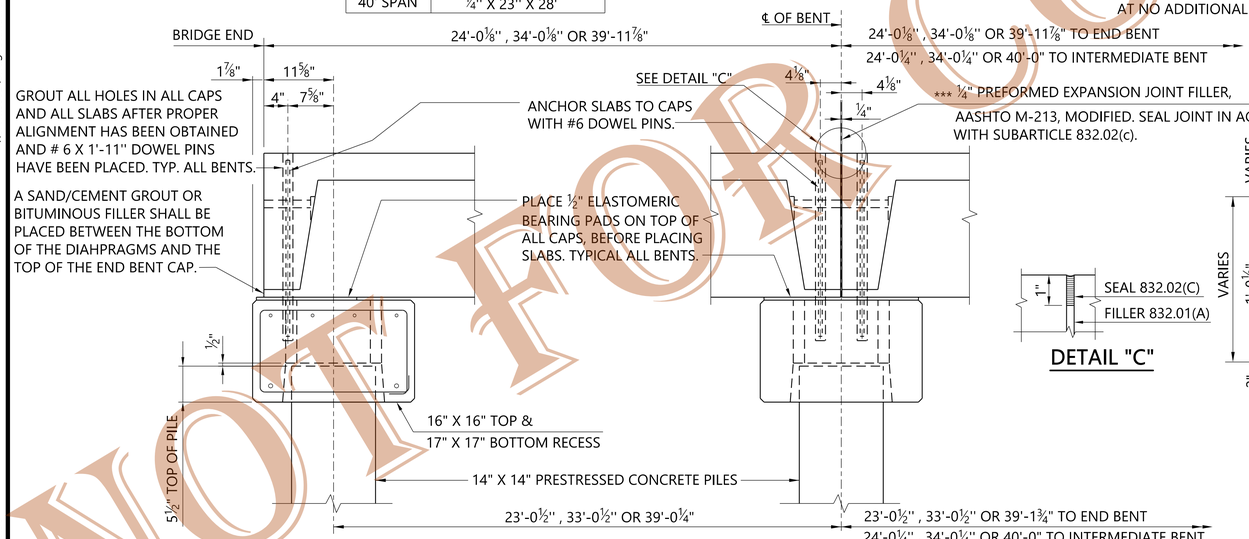
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



PLAN - END BENT



ELEVATION - END BENT



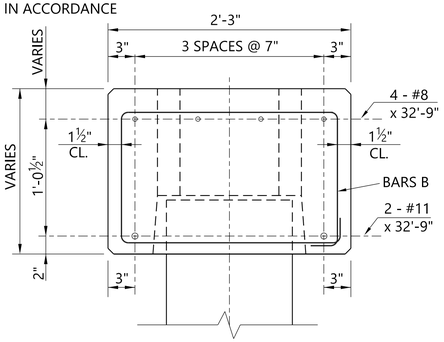
TYPICAL END SECTION

TYPICAL INTERMEDIATE SECTION

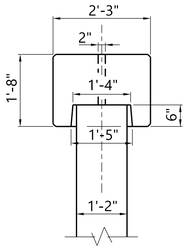
*** ¼" PREFORMED EXPANSION JOINT FILLER, AASHTO M-213, MODIFIED. SEAL JOINT IN ACCORDANCE WITH SUBARTICLE 832.02(c).

DETAIL "C"

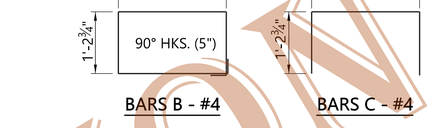
*** PREFORMED EXP. JT. FILLER	
24' SPAN	¼" X 16" X 28'
34' SPAN	¼" X 20" X 28'
40' SPAN	¼" X 23" X 28'



STEEL PLACEMENT DETAIL



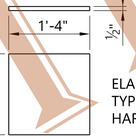
SOCKET DETAIL



BARS B - #4 BARS C - #4

BAR BENDING DETAILS

DIMENSIONS ARE OUT TO OUT



BEARING PADS

ELASTOMERIC BEARING TYPE I (60 DURO HARDNESS)

* A ½" X 8" X 1'-4" ELASTOMERIC BEARING, TYPE 1 SHALL BE USED UNDER THE OUTSIDE LEGS OF THE EXTERIOR CHANNELS.

** X 20½" X 16" CONCRETE RISER BLOCK TO BE CAST MONOLITHICALLY WITH CAP.

** DEPTH OF RISER BLOCK	
24' SPAN	NA
34' SPAN	4"
40' SPAN	7"

¾16" PER FT. SLOPE

½" X 16" X 16" TYPE I ELASTOMERIC BEARING PAD (60 DURO HARDNESS)

1'-4⅞"

△ CAPS SHALL BE ERECTED SO THAT THE BOTTOM OF THE CAP IS LEVEL ALONG THE ROADWAY AND PERPENDICULAR TO THE ROADWAY. THE ACCEPTABLE 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 SATISFICATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.

GENERAL NOTES

SPECIFICATIONS: ALABAMA DEPARTMENT OF TRANSPORTATION, CURRENT

DESIGN LOADING: A.A.S.H.T.O. HS 20-44

CONCRETE: CONTRETE 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 TO BE ROUNDED TO 1/4" RADIUS. CONCRETE WILL NOT BE PAID 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 STANDARD SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE GRADE 60. REINFORCING DIMENSIONS ARE TO THE CENTERLINE 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.

PILING: ALL PILING SHALL BE 14" X 14" PRESTRESSED CONCRETE PER BR. SPEC PROJ. DWG. PSPC-1 AND CONFORM TO SECTION 505 OF THE STANDARD SPECIFICATIONS.

EPOXY GROUT: EPOXY GROUT FOR CAPS TO PILING CONNECTION SHALL BE COMPOSED OF ONE (1) PART EPOXY (BINDER) AND THREE (3) PARTS DRY SILICA SAND, (BAGGED 1 CU. FT. PER BAG) MEASURED BY VOLUME. EPOXY GROUT SHALL DEVELOPE A MIN. COMPRESSIVE STRENGTH OF 5,000 P.S.I. IN TWELVE (12) HOURS. CONTRACTOR SHALL SUBMIT METHOD OF SAMPLING AND TESTING TO VERIFY STRENGTH REQUIREMENT TO THE BRIDGE ENGINEER FOR APPROVAL PRIOR TO GROUTING CAPS.

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

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

BID ITEM:

511-A ELASTOMERIC BEARINGS TYPE 1 - PER EACH.

512-A PRECAST CONCRETE ABUTMENT CAPS, 2'-0" WIDE BY 1'-8" DEEP BY 33'-0" LONG PER EACH

PILE AXIAL COMPRESSION LOADS - MIN.	
24'-0" SPAN	28 TONS PER PILE
34'-0" SPAN	36 TONS PER PILE
40'-0" SPAN	42 TONS PER PILE

NOTE: LOADS ARE FOR 0% GRADE BRIDGES.

ASSISTANT BRIDGE ENGINEER	BRIDGE ENGINEER
11/6/22 DATE	11/7/2022 DATE

ALABAMA DEPARTMENT OF TRANSPORTATION	REVISIONS	THIS BRIDGE SPECIAL PROJECT DRAWING FOR USE ONLY ON: PROJECT NO. _____ COUNTY(S) _____

PRECAST CONCRETE END BENT CAP FOR USE WITH 14"x14" CONCRETE PILING AND PRECAST CONCRETE BRIDGE SLABS 24'-0", 34'-0" OR 40'-0" SPANS 28'-0" CLEAR ROADWAY	BRIDGE SPECIAL PROJECT DRAWING	SHEET 1 OF 1
	PCA-2840-CP	