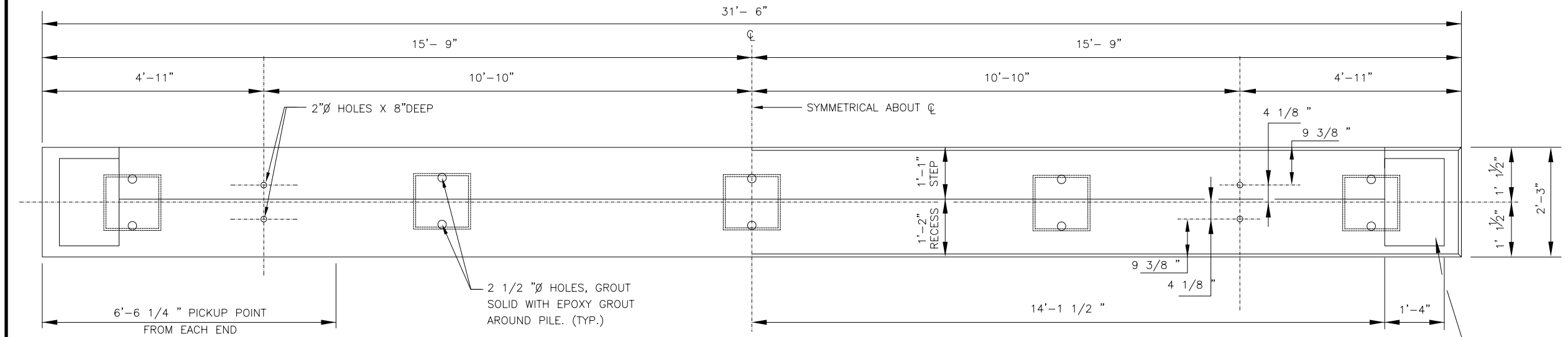
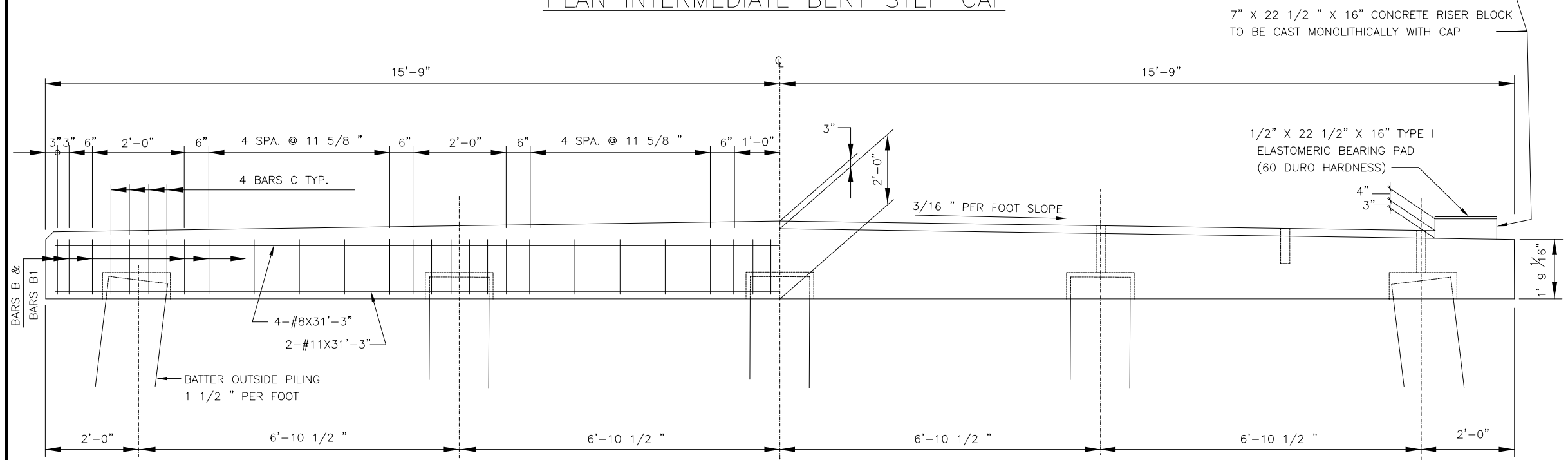
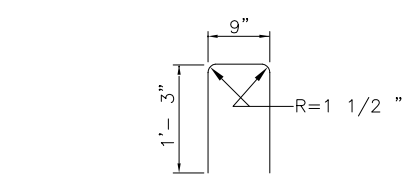


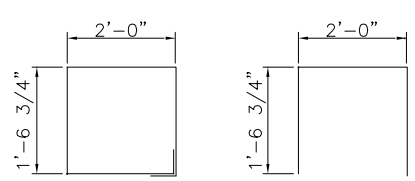
PLAN INTERMEDIATE BENT STEP CAP



ELEVATION INTERMEDIATE BENT STEP CAP



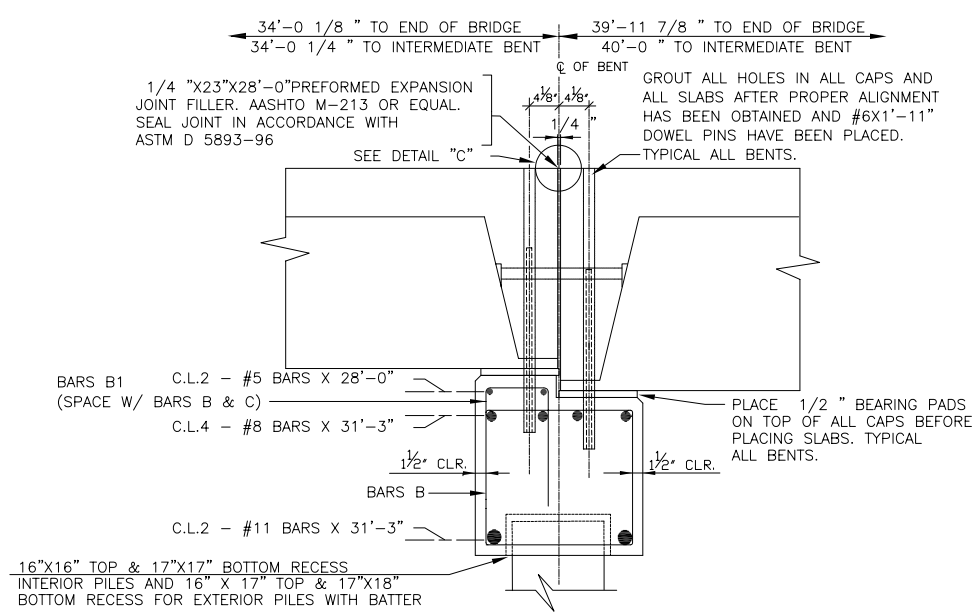
BARS B1–#4



BARS B–#4 BARS C–#4

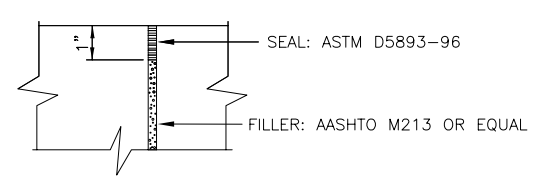
BAR BENDING DETAILS

DIMENSIONS ARE OUT TO OUT



INTERMEDIATE CAP SECTION

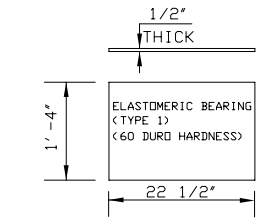
N.T.S.



DETAIL "C"

N.T.S.

NOTE: Elastomeric Bearing Pad Size As Shown Will Be Used Under Barrier Rails. Pads Placed Under Deck Units Must Be Cut In Half



INTERMEDIATE BEARING PADS

N.T.S.

* A 1/2" X 8" X 1'–11 1/4" Elastomeric Bearing, Type1 Shall Be Used Under The Outside Legs Of The Exterior Channels.

GENERAL NOTES:

SPECIFICATIONS:
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
AASHTO STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS
AMERICAN SOCIETY FOR TESTING AND MATERIALS
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

DESIGN LOADING: A.A.S.H.T.O. HS 20–44

CONCRETE: CONCRETE FOR SUBSTRUCTURE UNITS SHALL CONFORM TO AASHTO CLASS A. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSI. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" BY 45° UNLESS OTHERWISE NOTED. ALL OTHER CORNERS ARE TO BE ROUNDED TO A 1/4 " RADIUS. CONCRETE WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM PRECAST CAP UNIT.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60 BILLET STEEL MEETING THE REQUIREMENTS OF AASHTO M31 OR ASTM A615. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND PROPER CLEARANCES MAINTAINED WITH STAINLESS STEEL OR RUBBER TIPPED CHAIRS. REINFORCING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON PLANS. THE ABOVE STEEL WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM PRECAST CONCRETE CAP UNIT.

PILING: ALL PILING SHALL BE 14" x 14" PRESTRESSED CONCRETE AS PER SECTION 4.5.20 OF THE CURRENT EDITION OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION 1. PILE DESIGN LOADING 40 TONS (HS20–44).

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. IT SHALL DEVELOP A MINUMUM COMPRESSIVE STRENGTH OF 5,000 p.s.i. IN TWELVE (12) HOURS. CONTRACTOR SHALL SUBMIT METHOD OF SAMPLING AND TESTING TO VERIFY STRENGTH REQUIREMENT AS REQUIRED BY THE ENGINEER OF RECORD PRIOR TO GROUTING CAPS.

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

DESIGN DATA: A.A.S.H.T.O. 1992 & INTERIM fs = 24,000 p.s.i.; fc = 1,200 p.s.i.; n=10

BID ITEM:

_____ ELASTOMERIC BEARINGS TYPE I – Per Each

_____ PRECAST CONCRETE INTERMEDIATE CAP, 2'–3" WIDE BY 2'–0" DEEP BY 31'–6" LONG – Per Each.

NOTE: FOR REINFORCING DETAIL AND ATTACHMENT TO STEEL PILING SEE DRAWING PCB–2840

CONECUH BRIDGE & ENGINEERING, LLC
P. O. Box 129 Troy, Alabama 36081
249 County Rd. 2227 Troy, Alabama 36079
334-566-7422

PRECAST CONCRETE BENT STEP CAP
FOR USE WITH 14" X 14" CONCRETE PILING AND PRECAST CONCRETE BRIDGE SLABS CONNECTING 34' AND 40' SPANS – 28 FT. CLEAR ROADWAY

DATE: 8/26/03

STANDARD DWG. NO. PCB–2840–CP–3440STEP