

NOTES

AT ALL FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.

STEEL SOLE PLATES, ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PRIOR TO WELDING, GRIND THE GALVANIZED SURFACE OF THE PORTION OF THE EMBEDDED PLATE AND SOLE PLATE THAT ARE TO BE WELDED. AFTER WELDING, DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

WHEN WELDING THE SOLE PLATE TO THE EMBEDDED PLATE IN THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.

SOLE PLATE "P", BOLTS AND NUTS SHALL BE INCLUDED IN THE PAY ITEM FOR PRESTRESSED CONCRETE GIRDERS.

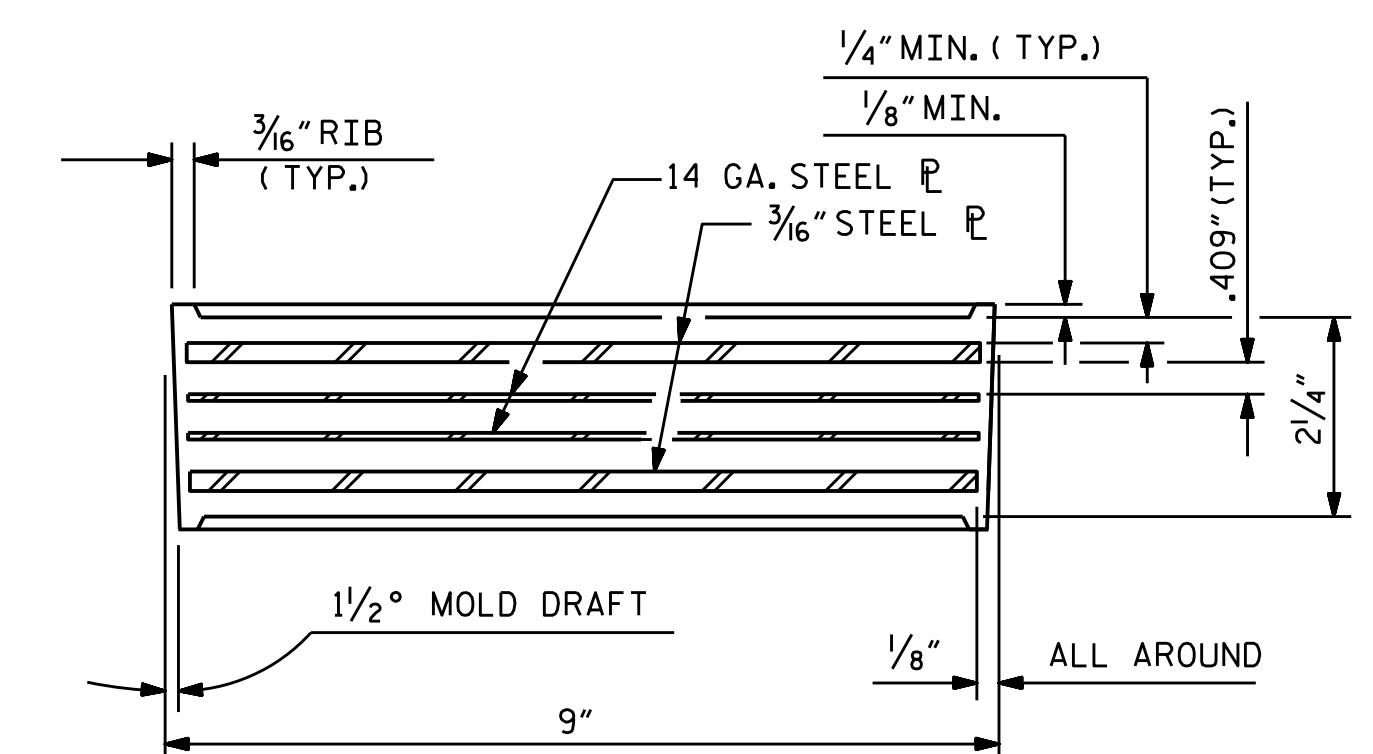
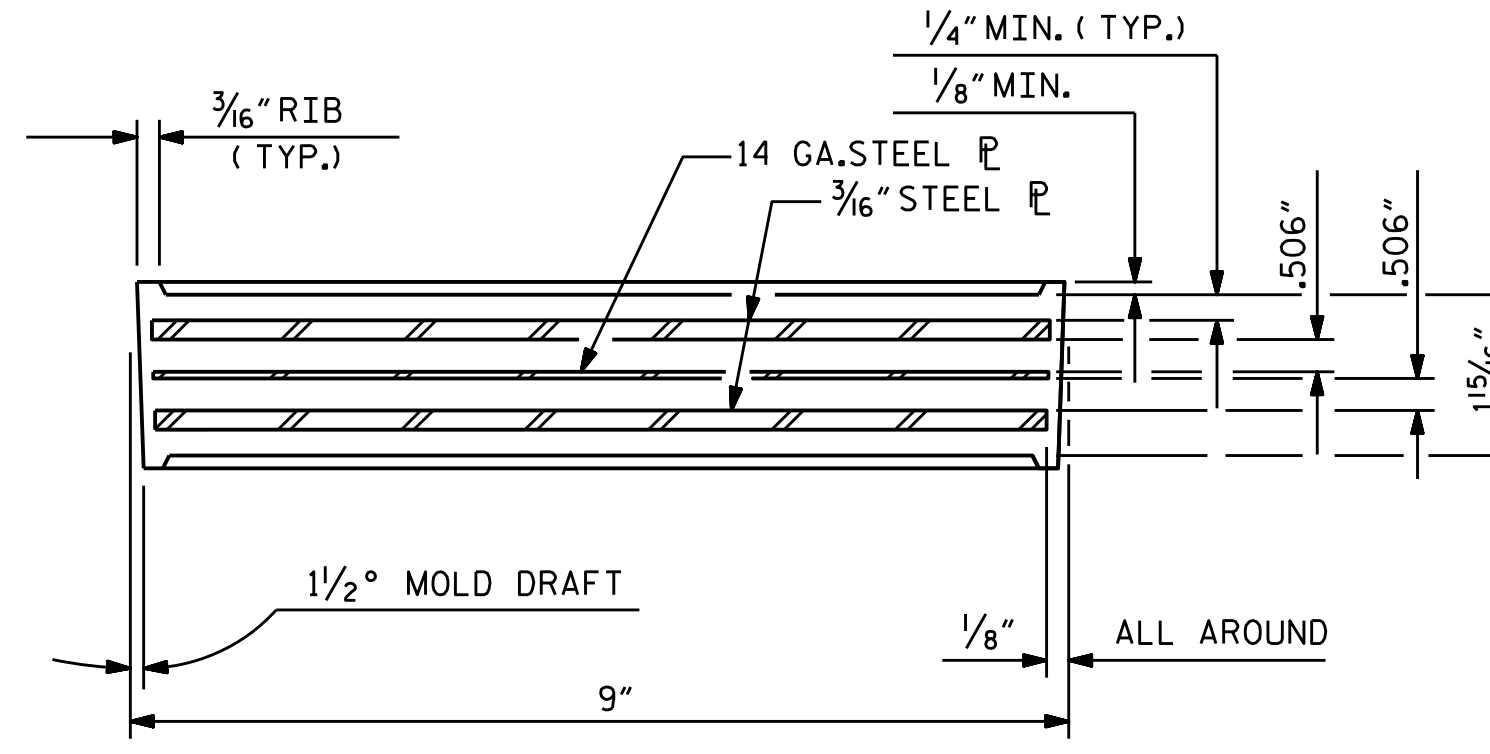
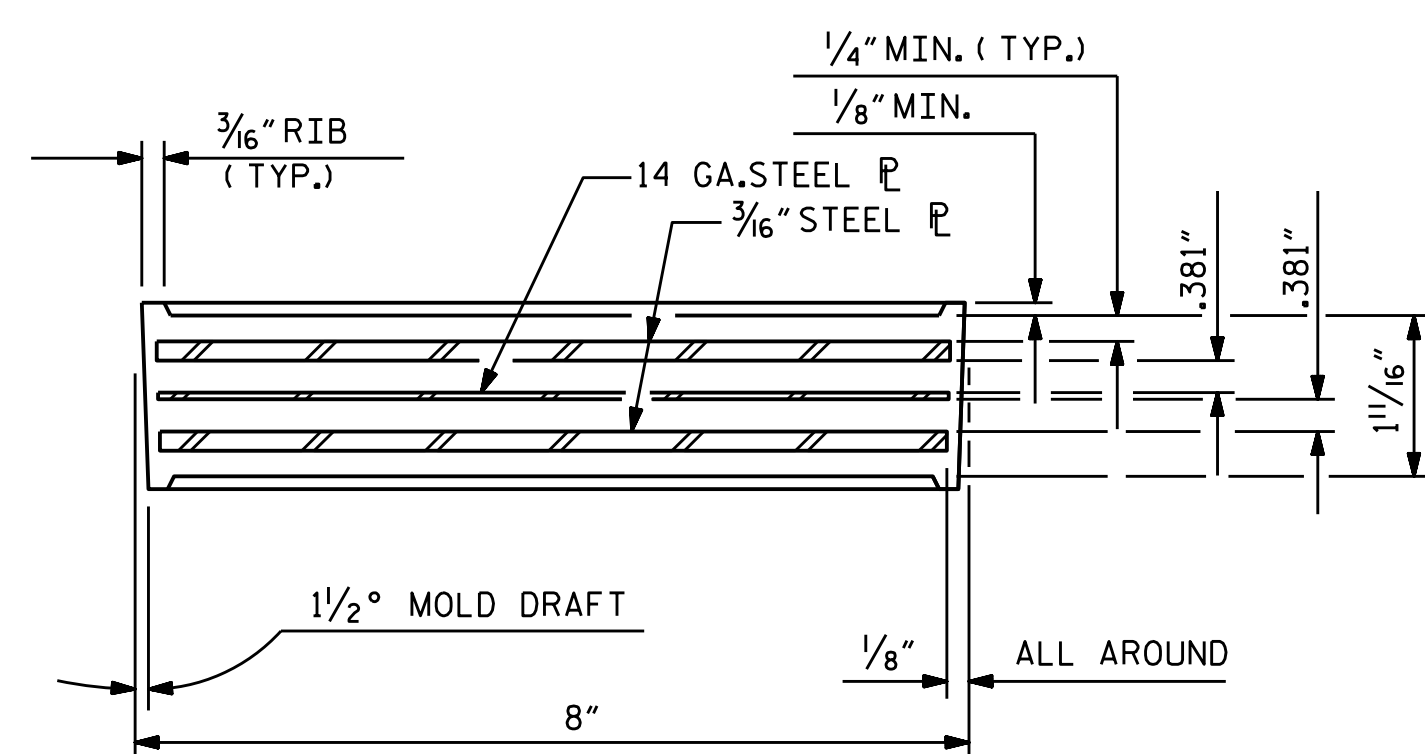
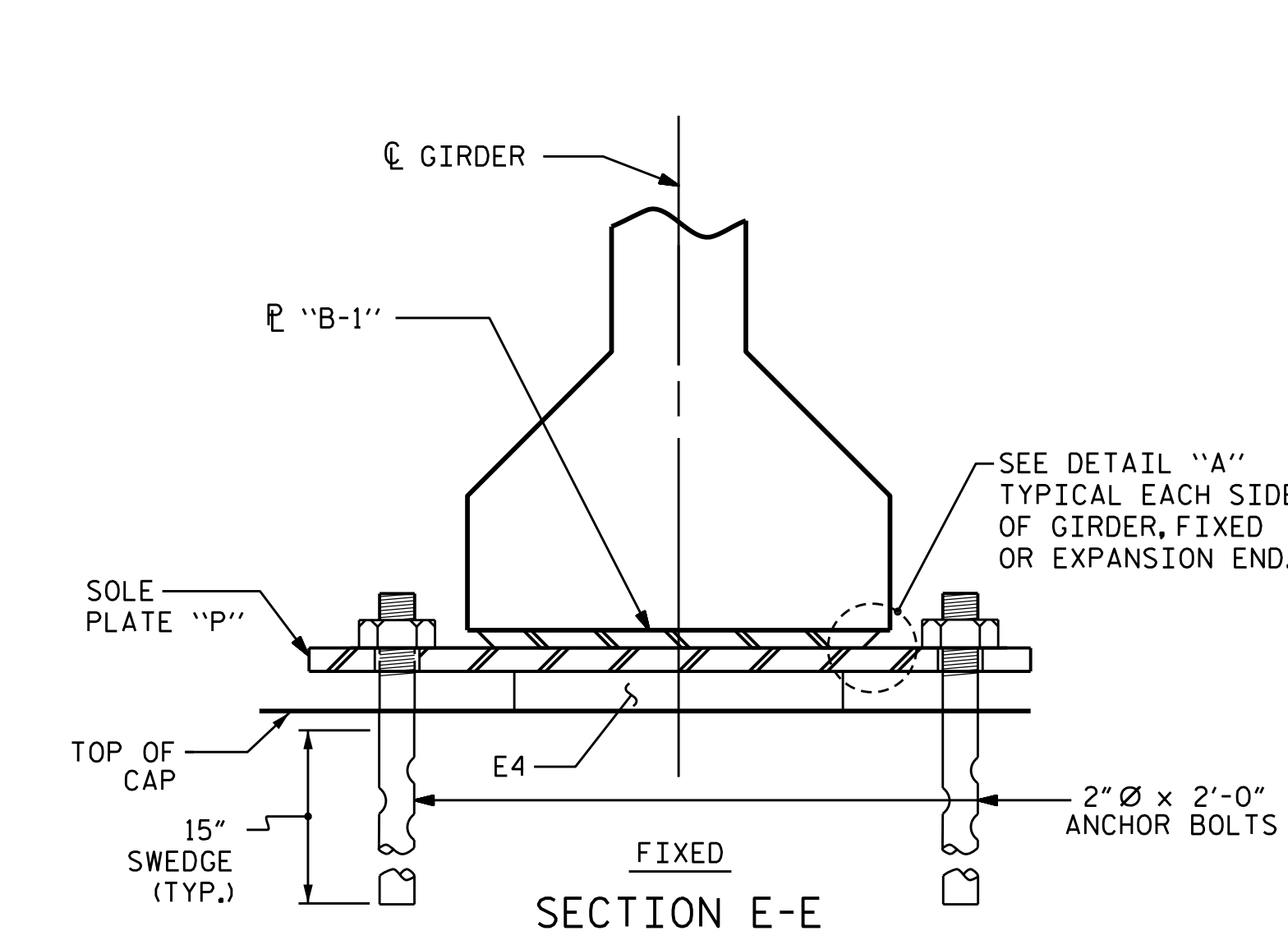
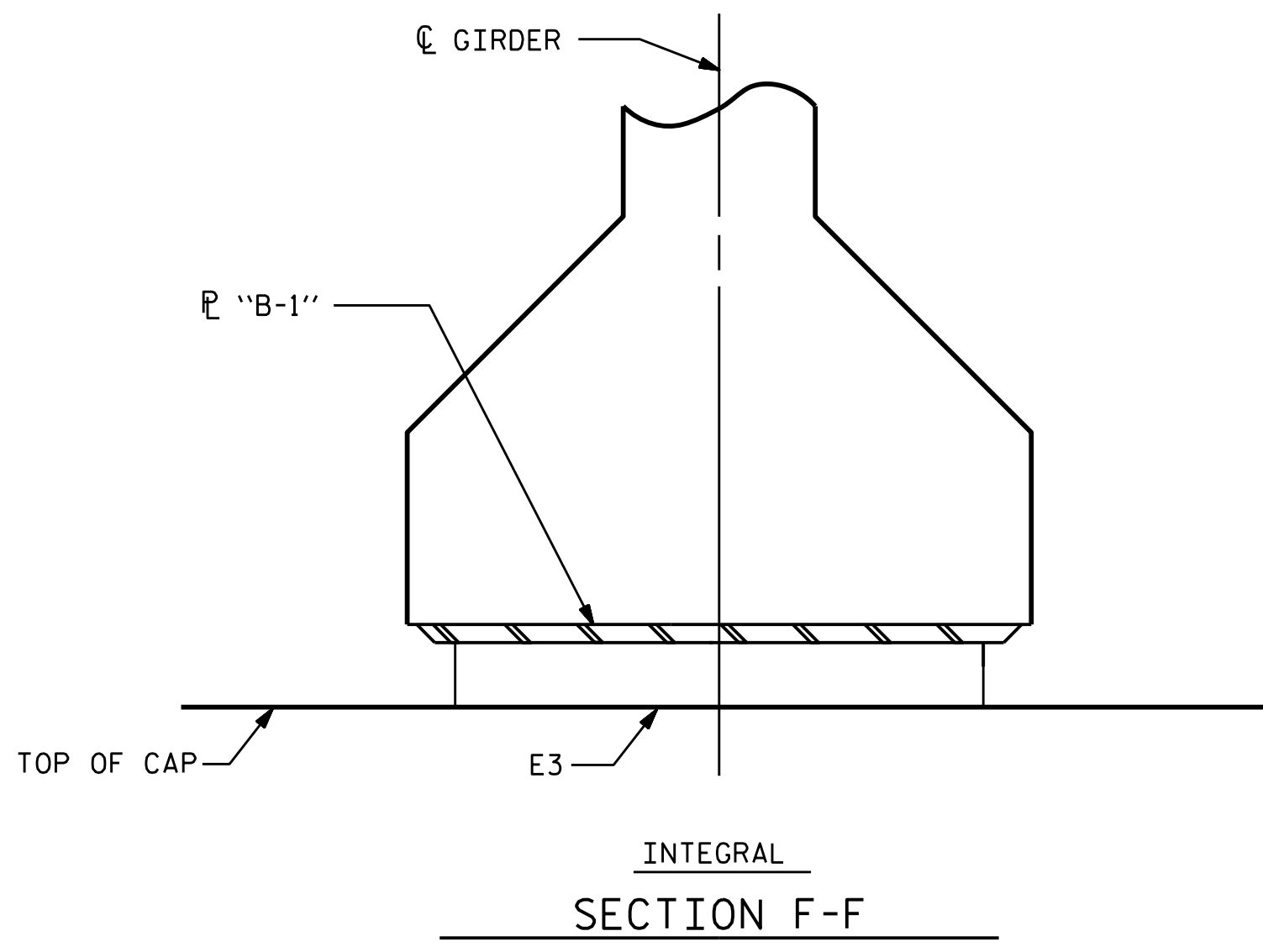
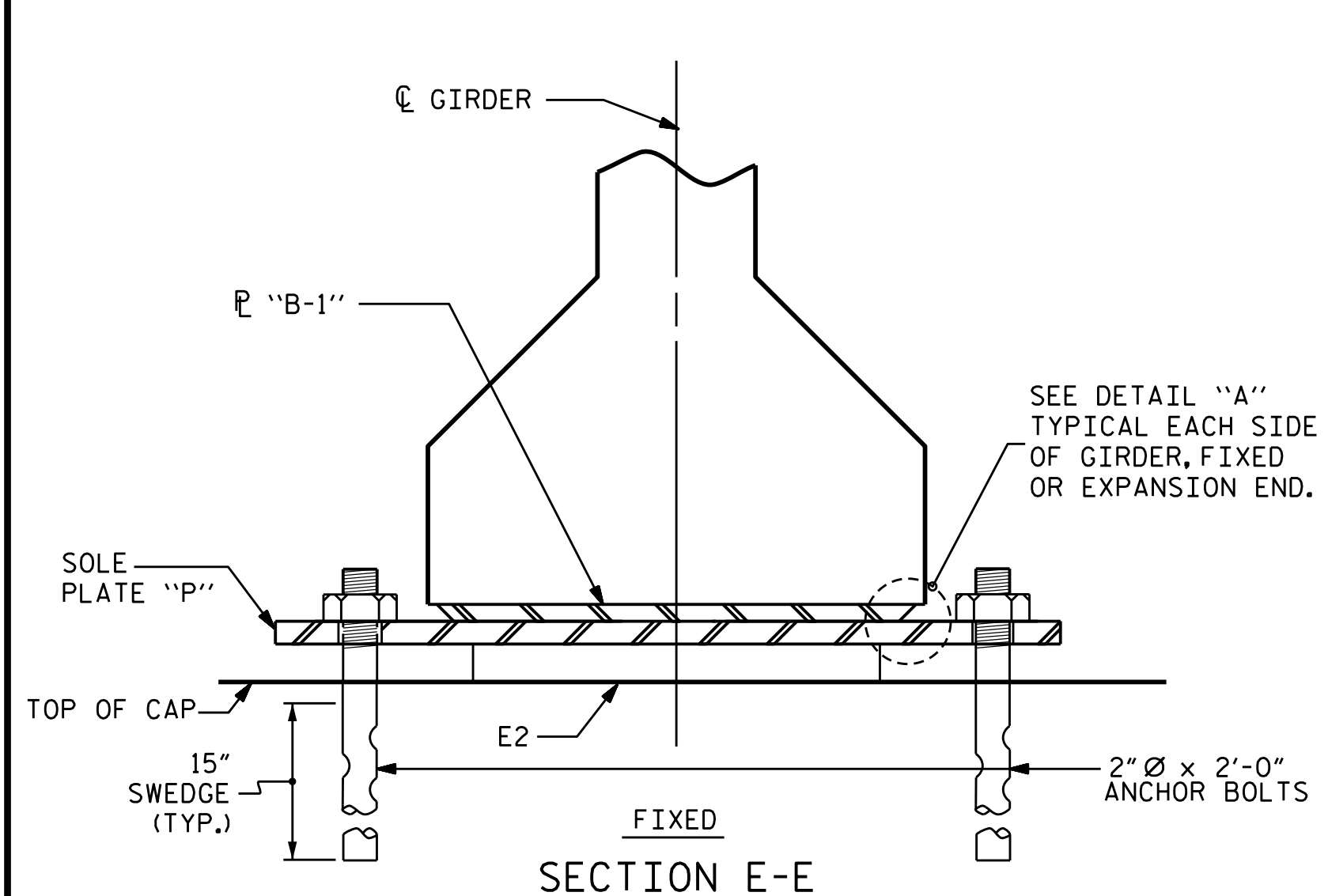
ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291-DH OR AASHTO M292-2H. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLT AND NUTS. SHOP INSPECTION IS REQUIRED.

ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI, IN ACCORDANCE WITH AASHTO M251.

FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

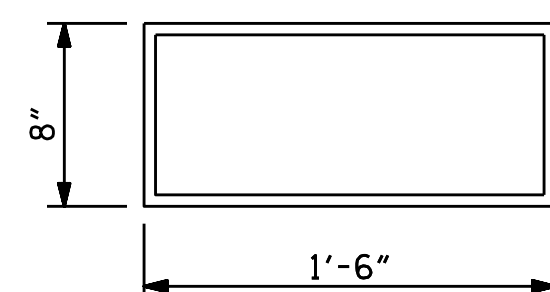
ALL SOLE PLATES SHALL BE AASHTO M270 GRADE 36.



TYPICAL SECTION OF ELASTOMERIC BEARINGS

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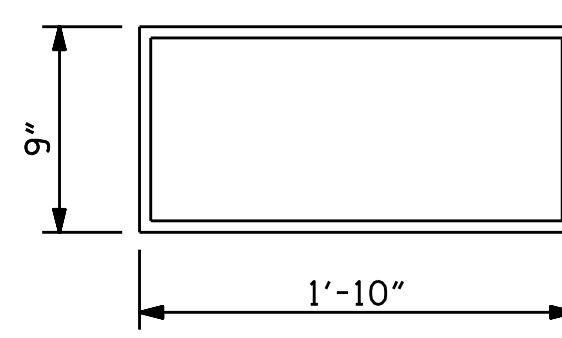
TYPICAL SECTION OF ELASTOMERIC BEARINGS



E2 (8 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

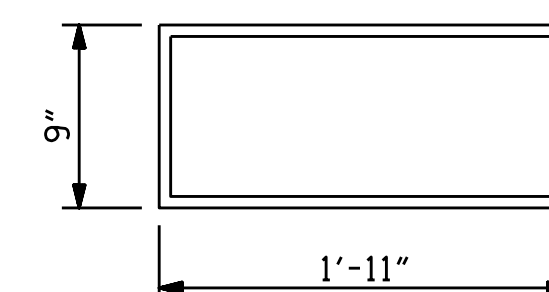
TYPE III



E3 (8 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

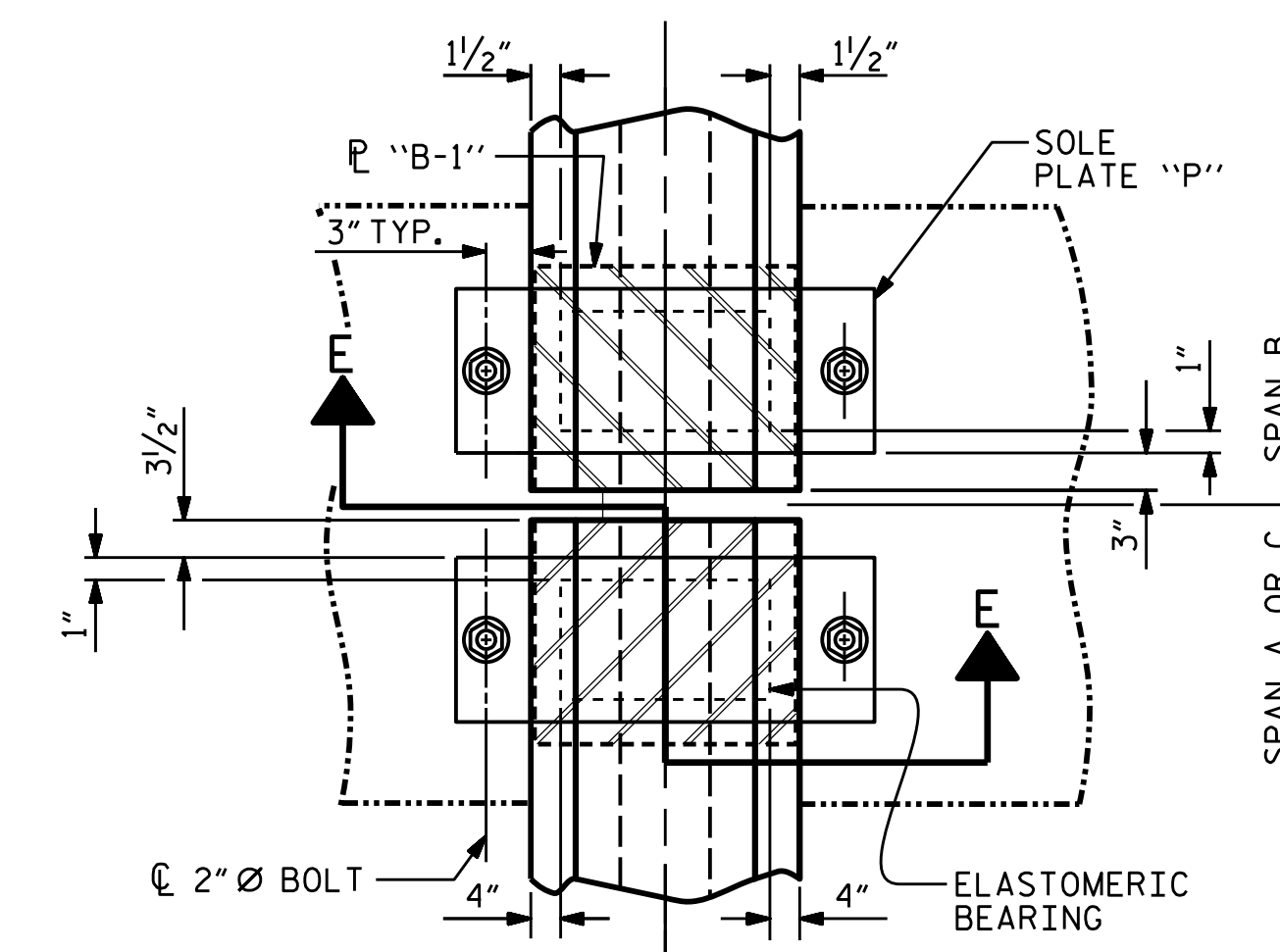
TYPE IV



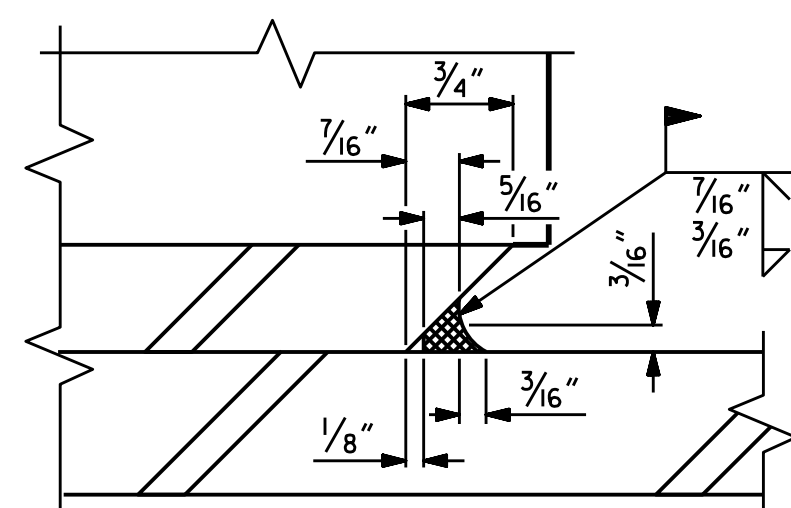
E4 (8 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

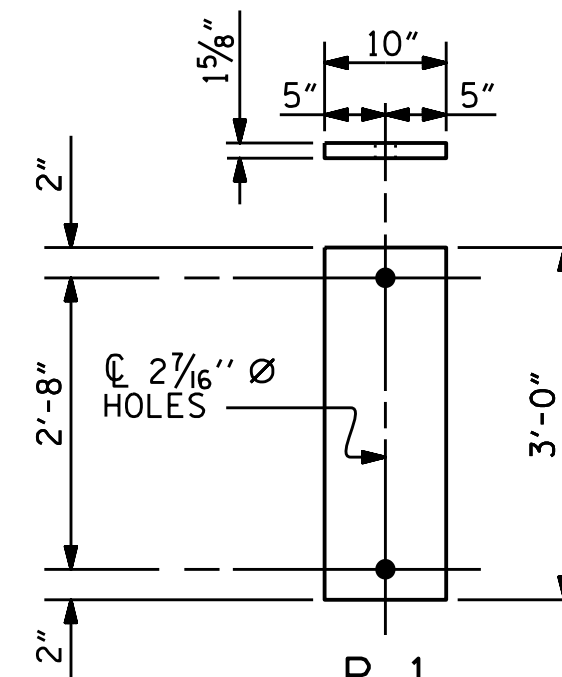
TYPE V



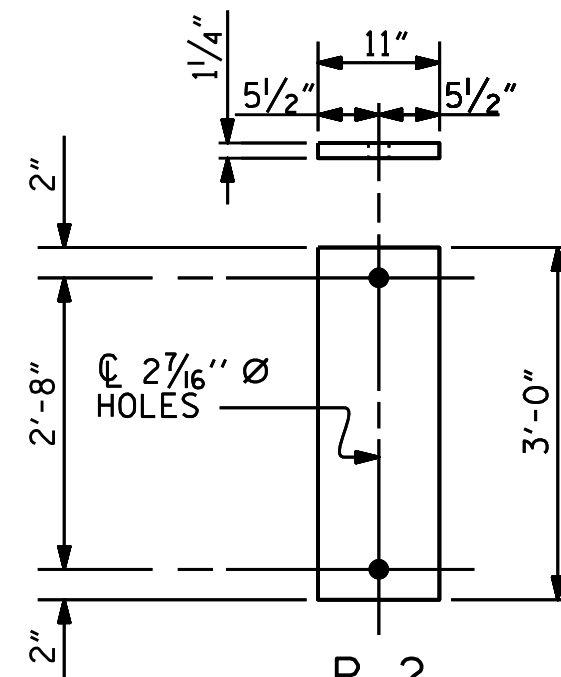
TYPICAL PLAN (SHOWING CONTINUOUS BENT)



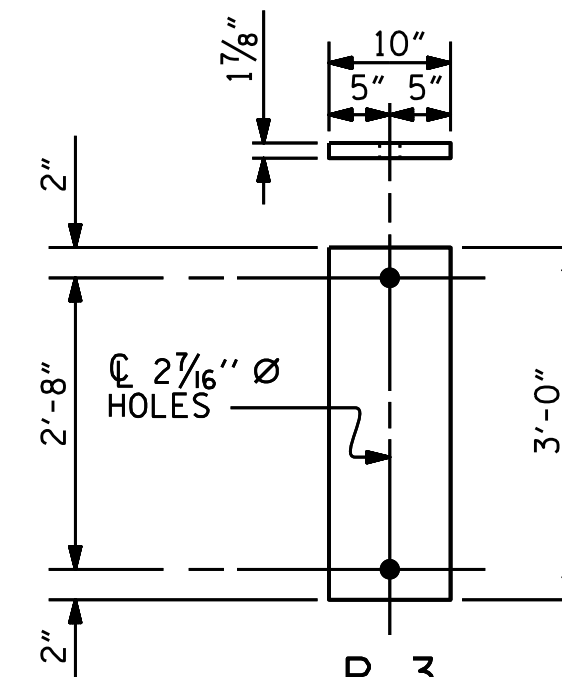
DETAIL "A"



P1 (FIXED)
P1 (4 REQ'D)

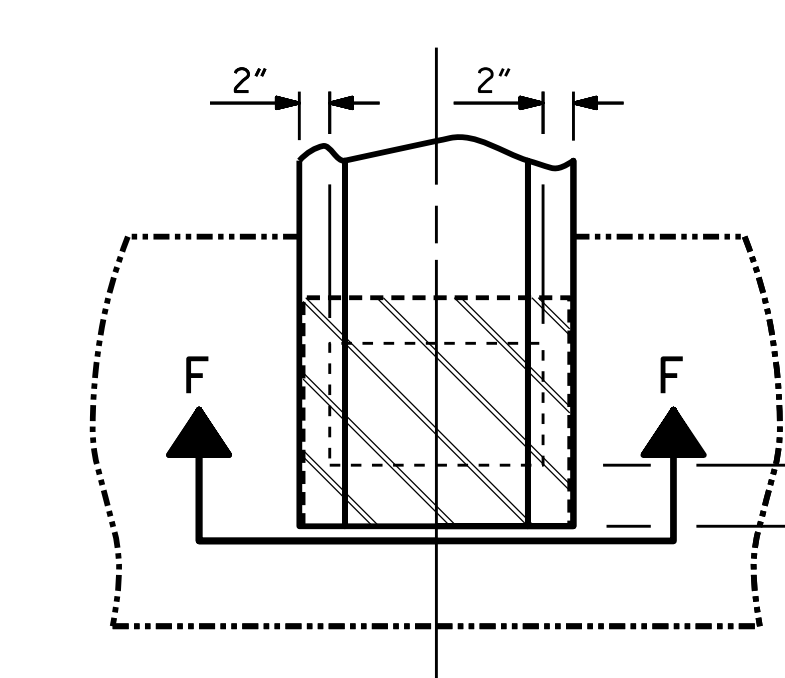


P2 (FIXED)
P2 (8 REQ'D)



P3 (FIXED)
P3 (4 REQ'D)

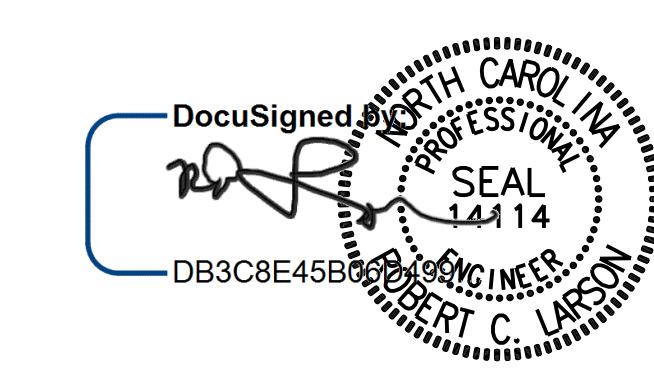
SOLE PLATE DETAILS ("P")



TYPICAL PLAN (SHOWING INTEGRAL END BENT)

MAXIMUM ALLOWABLE SERVICE LOADS	
D.L.+L.L. (NO IMPACT)	
TYPE III	205 k
TYPE IV	225 k
TYPE V	365 k

PROJECT NO. B-5703
CUMBERLAND/HARNETT COUNTY
STATION: 16+92.70 -L-



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
ELASTOMERIC BEARING
DETAILS
PRESTRESSED CONCRETE GIRDER
SUPERSTRUCTURE

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	DATE:	S-14
1			3		TOTAL SHEETS 29
2			4		

KCI JOB NO: 251801945.13

DESIGN ENGINEER OF RECORD: *[Signature]* DATE: 7/1/2021
 ASSEMBLED BY: A. K. ALLANKAR DATE: 09/28/20
 CHECKED BY: R. C. LARSON DATE: 09/30/20
 DRAWN BY: WJH 8/89 REV. 6/13 AAC/MAA
 CHECKED BY: CRK 8/89 REV. 1/15 MAA/TMG
 REV. 12/17 MAA/THC

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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