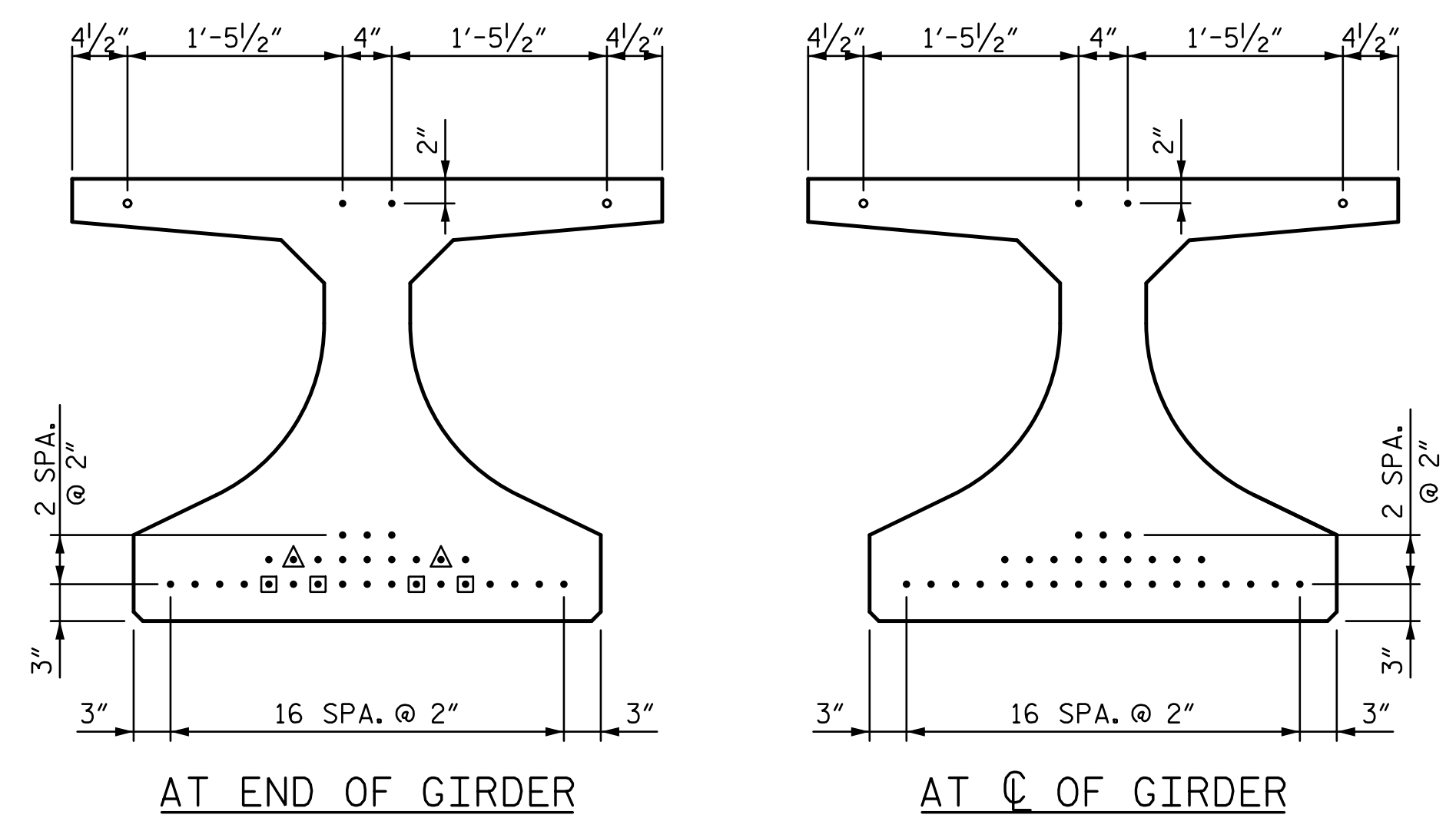
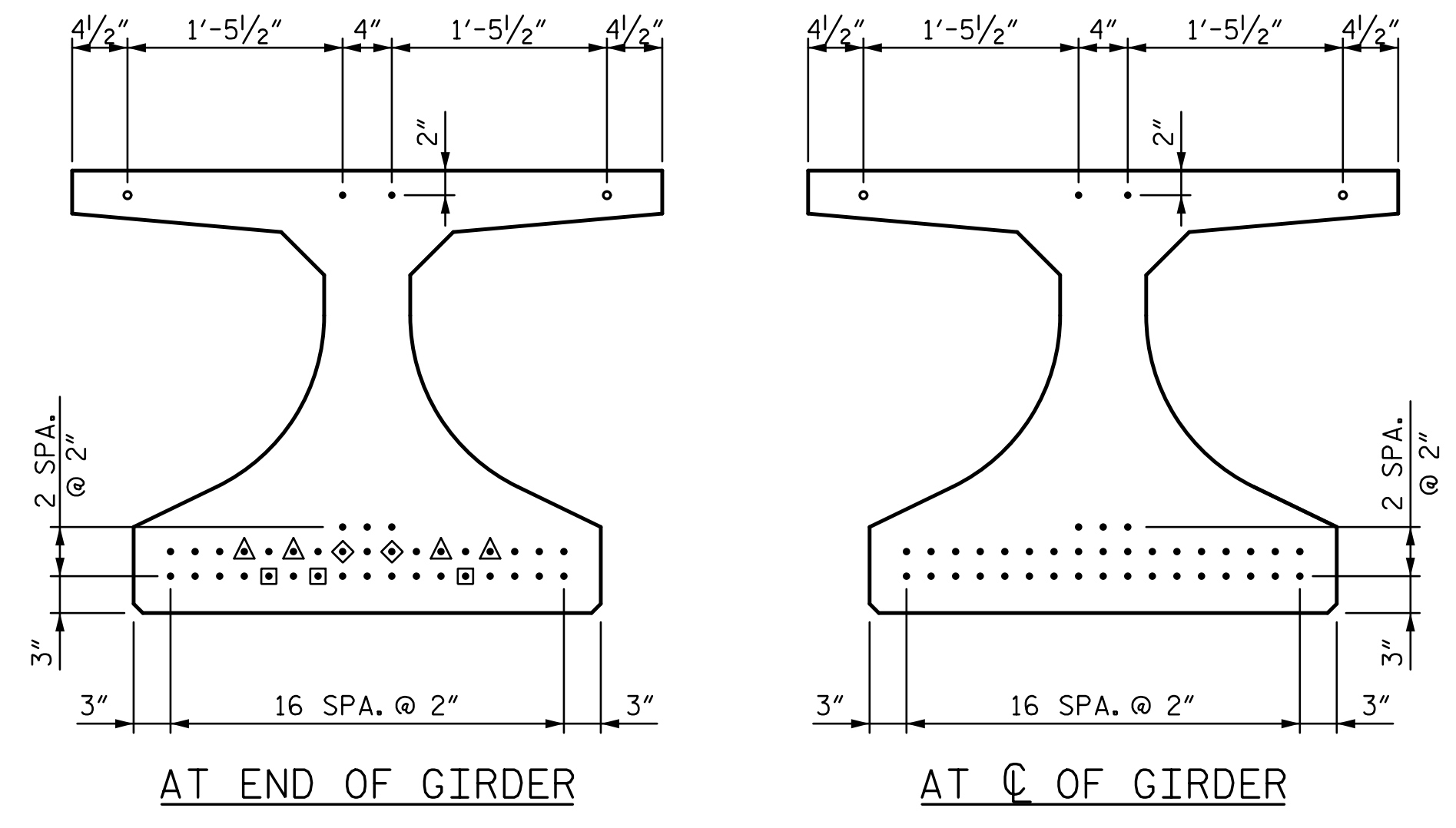


R:\Structures\04\_Justation\05 RFC Bridge Plans\401\_049\_B5808\_SMU\_G3\_025\_120057.dgn 4/12/2023 3:05:43 PM nosporne



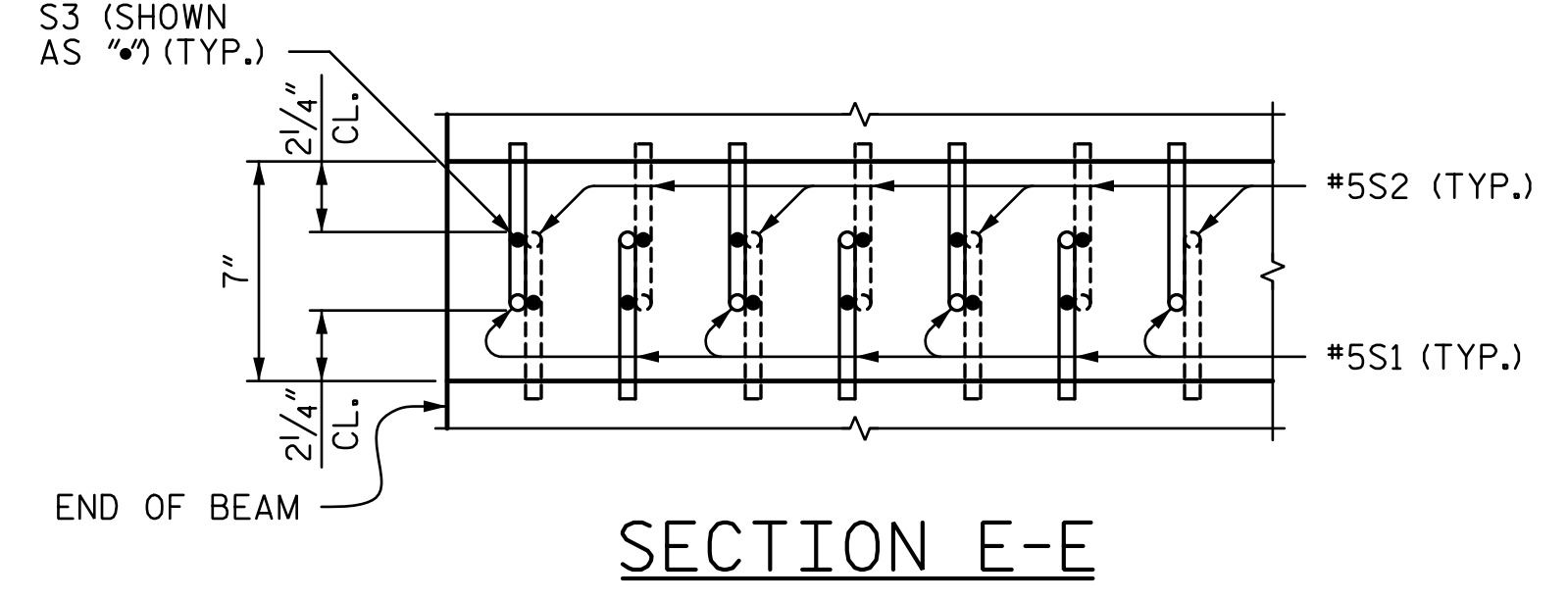
**0.6" Ø LOW RELAXATION STRAND LAYOUT**  
SPANS A & C  
(33 - 0.6" Ø STRANDS REQUIRED)



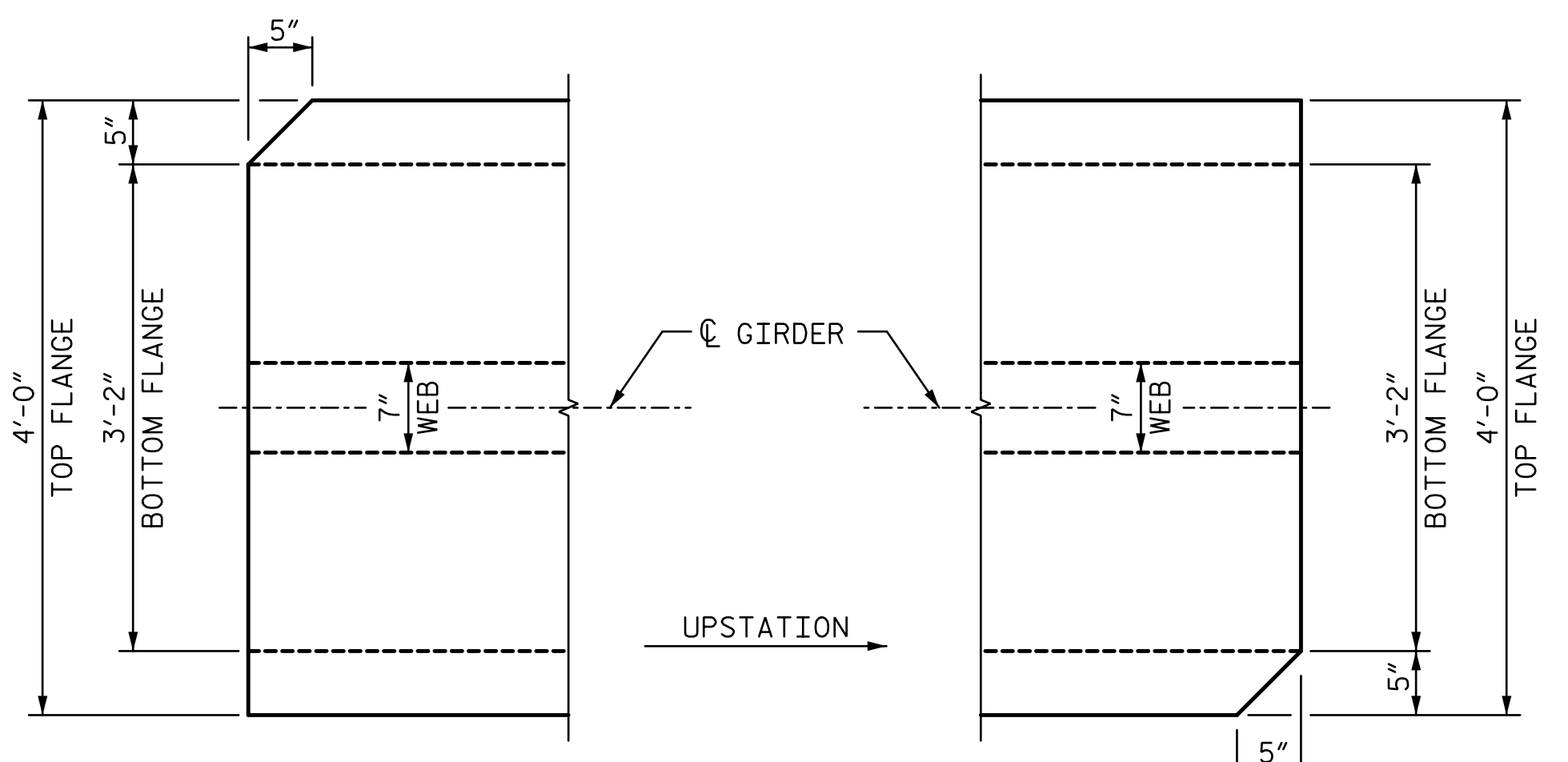
**0.6" Ø LOW RELAXATION STRAND LAYOUT**  
SPAN B  
(41 - 0.6" Ø STRANDS REQUIRED)

**DEBONDING LEGEND**

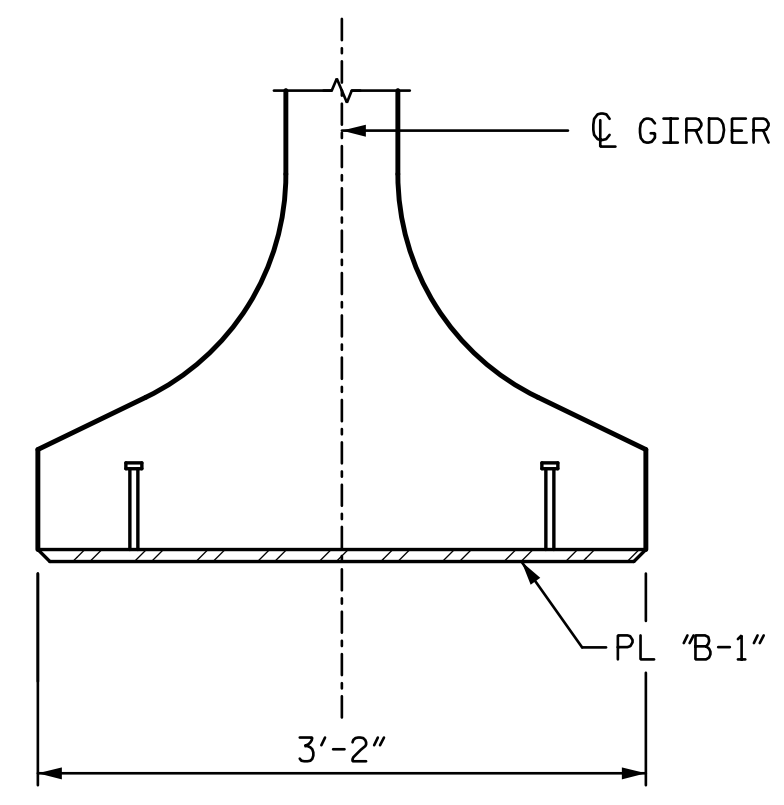
- FULLY BONDED STRANDS
- STRANDS PULLED TO 10,000 LBS.
- ◇ - DEBONDED FOR 4'-0" FROM END OF GIRDER
- △ - DEBONDED FOR 6'-0" FROM END OF GIRDER
- - DEBONDED FOR 8'-0" FROM END OF GIRDER



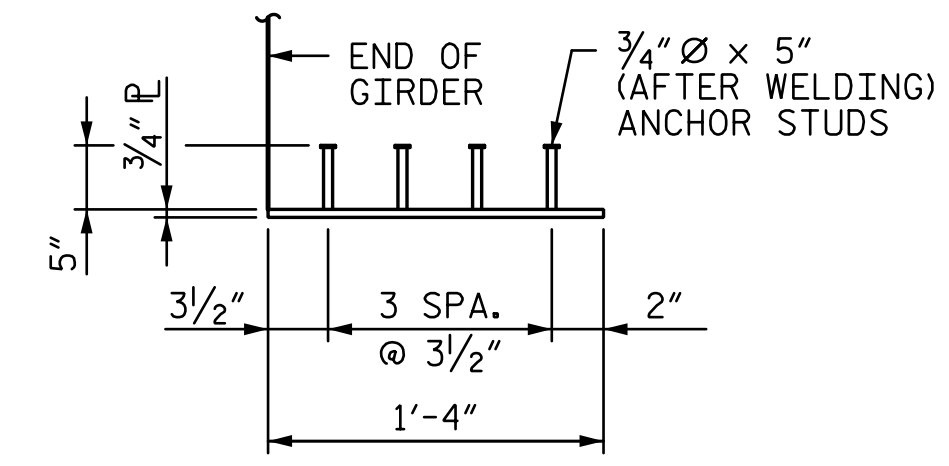
**SECTION E-E**



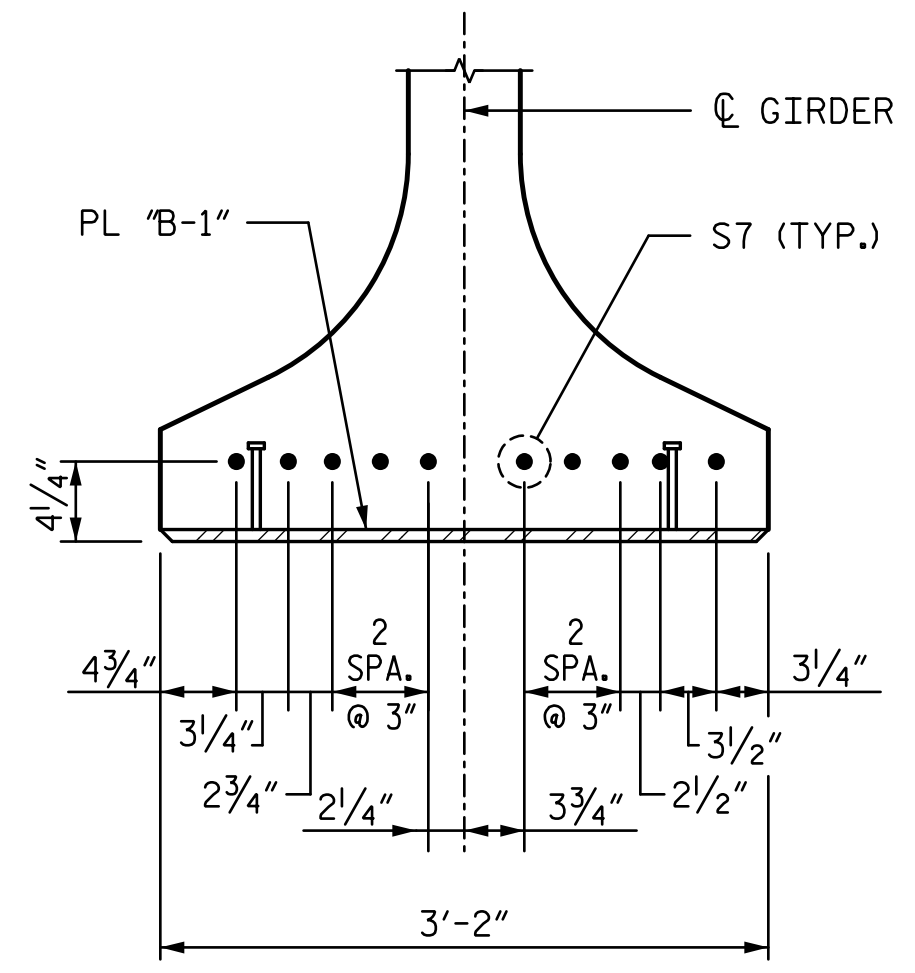
**END BENT 1 SPAN A**      **END BENT 2 SPAN C**  
**TOP FLANGE BLOCKOUT**



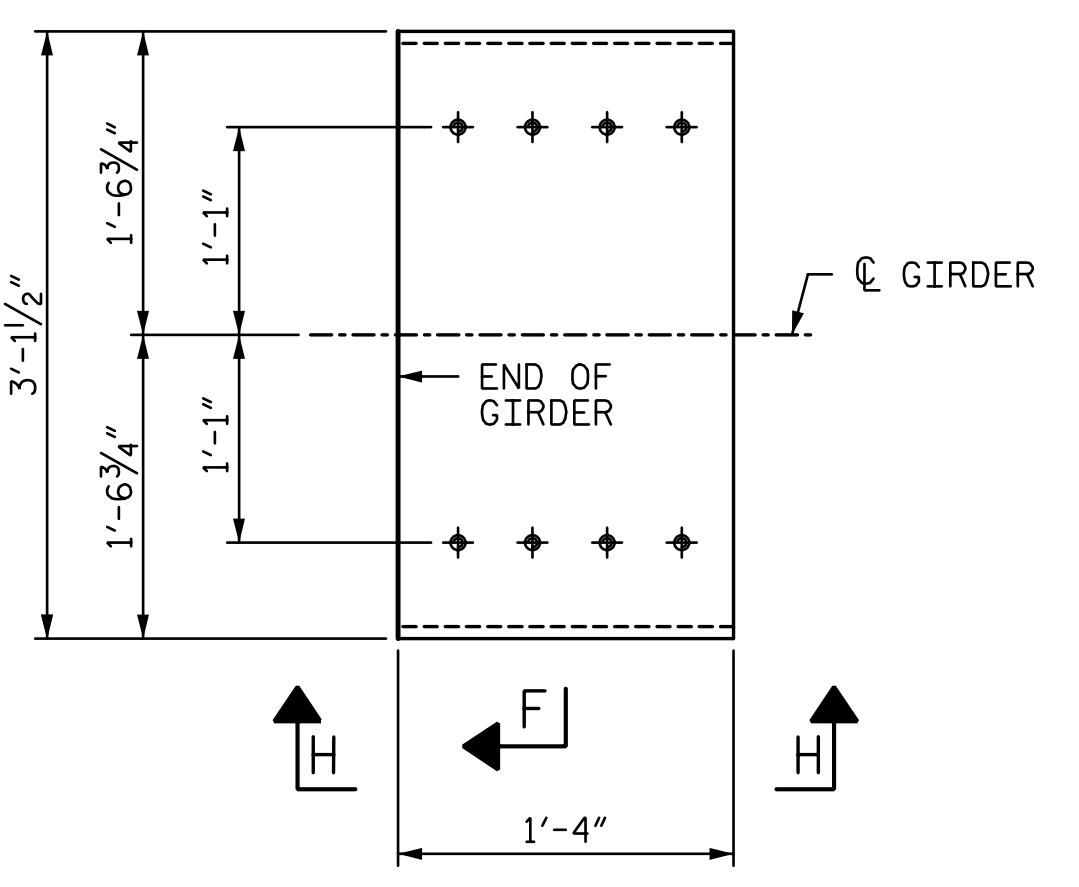
**DETAIL "D"**



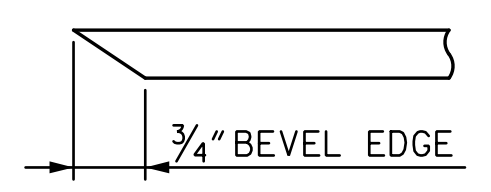
**VIEW H-H**



**VIEW C-C**



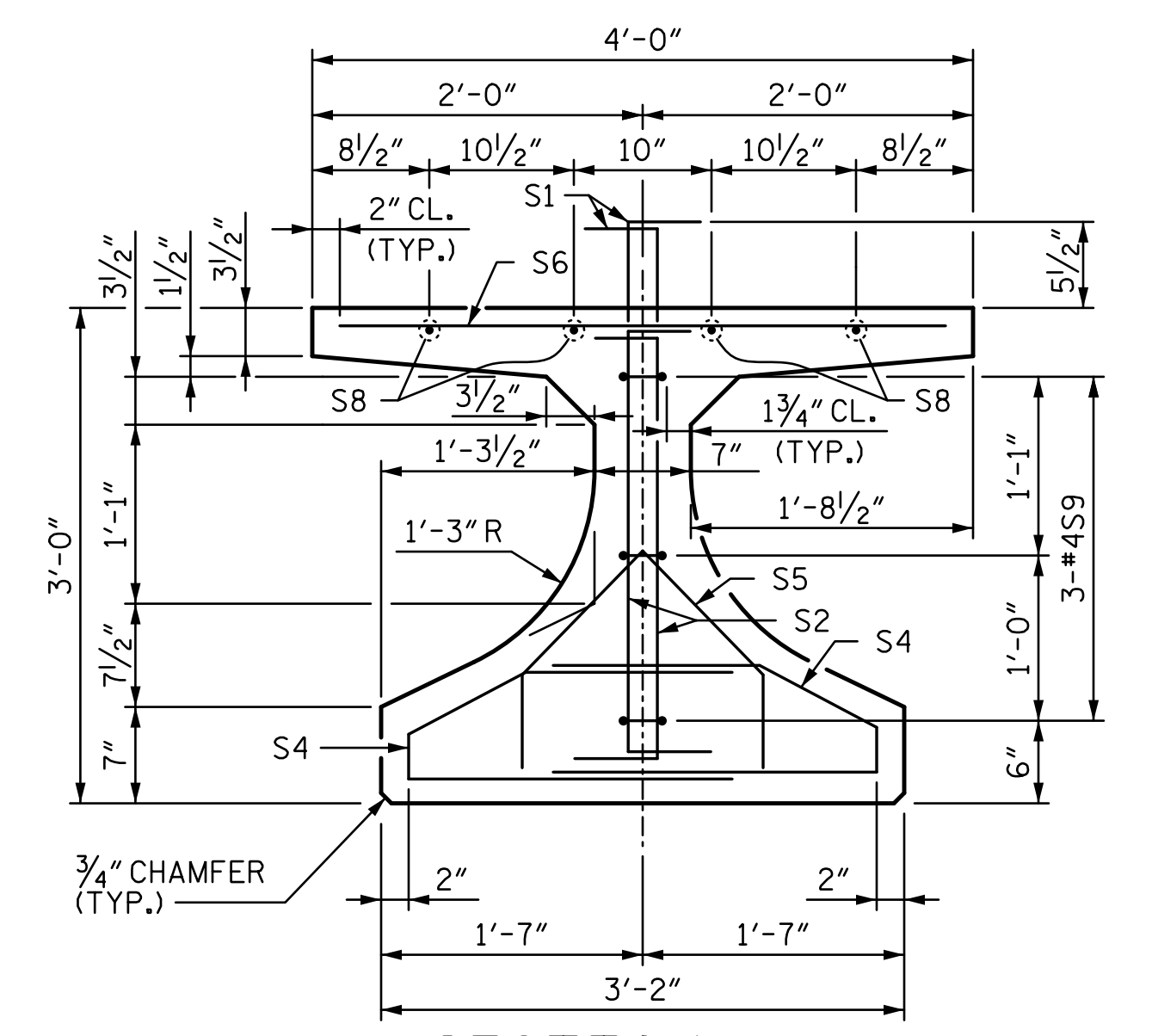
**EMBEDDED PLATE "B-1"**  
**DETAILS**  
(2 REQ'D PER GIRDER)



**SECTION "F"**  
(SEE NOTES)

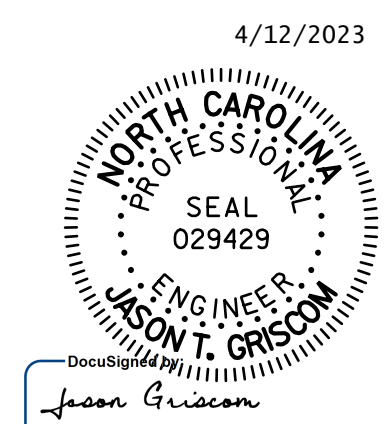
**NOTES**

- ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- TIE BARS S1 AND S2 TO THE FULLY BONDED STRANDS IN THE BOTTOM OR CENTER ROW.
- AT THE CONTRACTOR'S OPTION, THE LENGTH OF THE BOTTOM LEGS OF BARS S1 AND S2 MAY BE EXTENDED TO FACILITATE TYING.
- S4 BARS MAY BE FABRICATED AS A SINGLE BAR WITH A 1'-0" MINIMUM LAP SPLICE OF THE TOP LEGS, OR THE LENGTH OF THE BOTTOM LEGS MAY BE EXTENDED TO FACILITATE TYING TO THE EXTERIOR STRANDS.
- EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,000 PSI.
- DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.
- THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".
- APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN THE ELEVATION VIEW ON SHEET 1 OF 3.
- AT THE ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.



**SECTION A-A**  
(S3 AND S7 BARS NOT SHOWN FOR CLARITY)

PROJECT NO. **B-5808**  
**CABARRUS** COUNTY  
STATION: **20+64.00 -L-**  
SHEET 3 OF 3



**STV** ENGINEERS, INC.  
100 900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
36" F.I.B. PRESTRESSED CONCRETE GIRDER DETAILS					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					S-25
					TOTAL SHEETS 65

ASSEMBLED BY : SGH      DATE : 7-21  
CHECKED BY : MLO      DATE : 5-22  
DESIGN ENGINEER OF RECORD : J. GRISCOM      DATE : 3-23