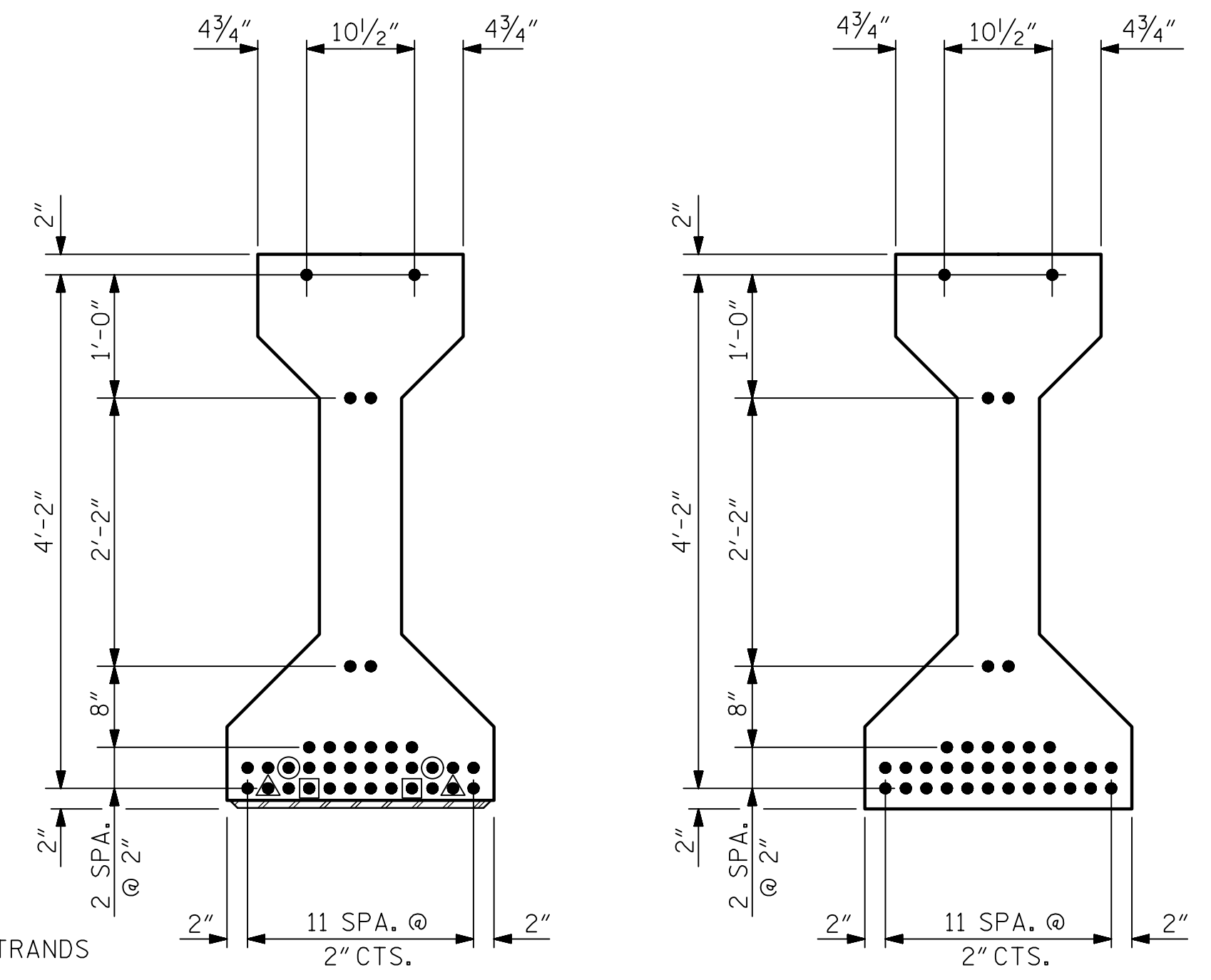
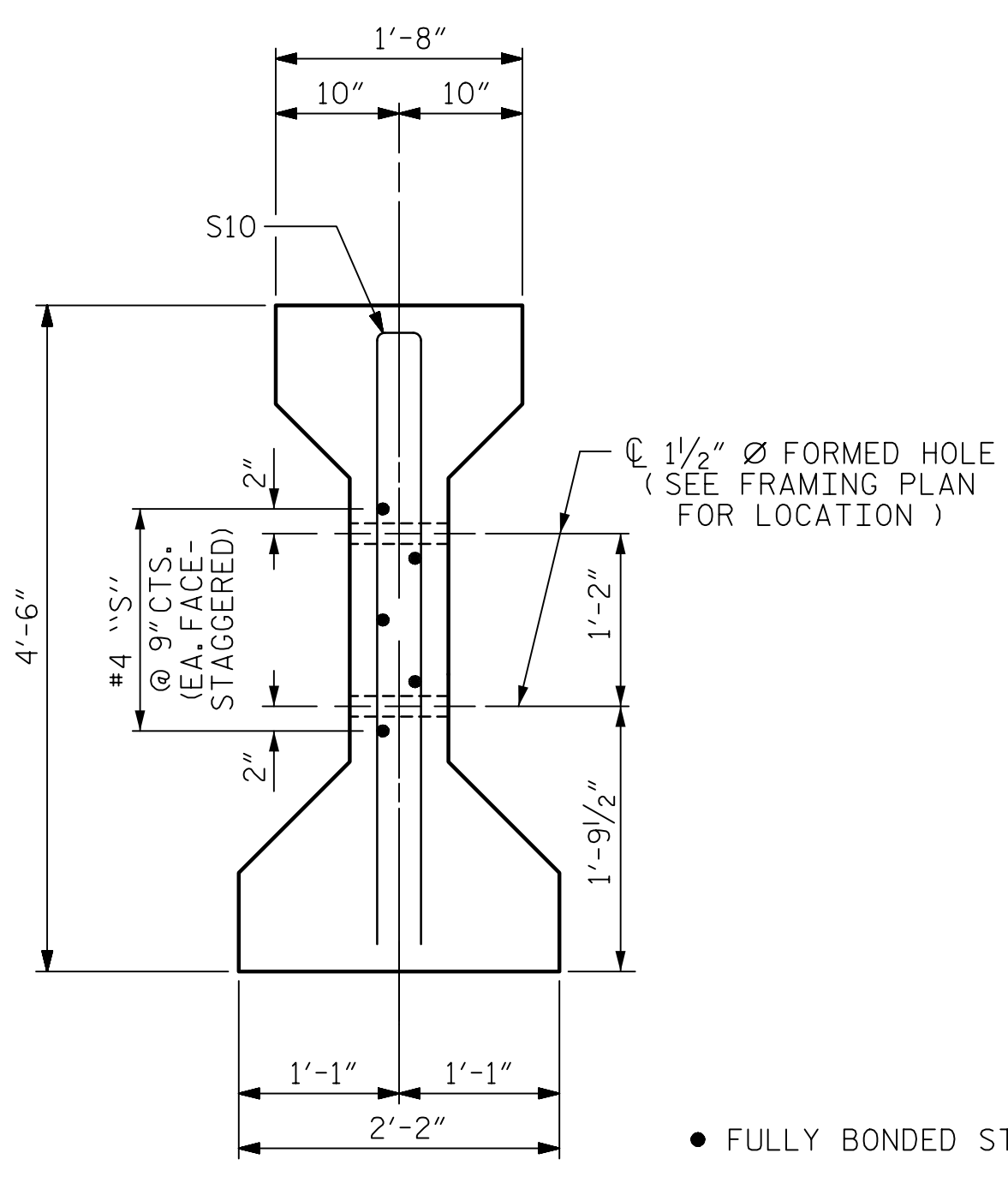
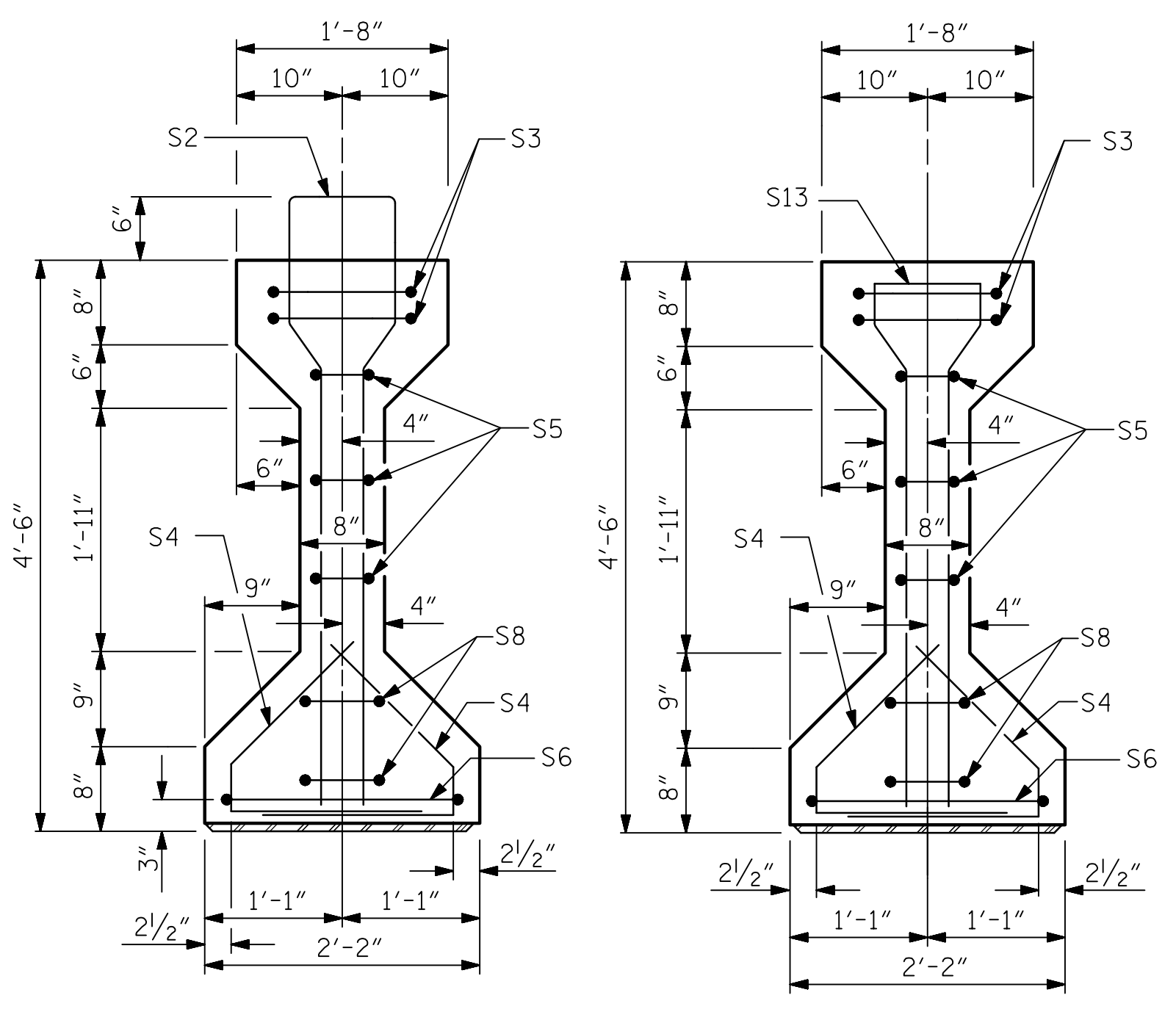


DATE: 1/19/2023
TIME: 10:27:35 AM

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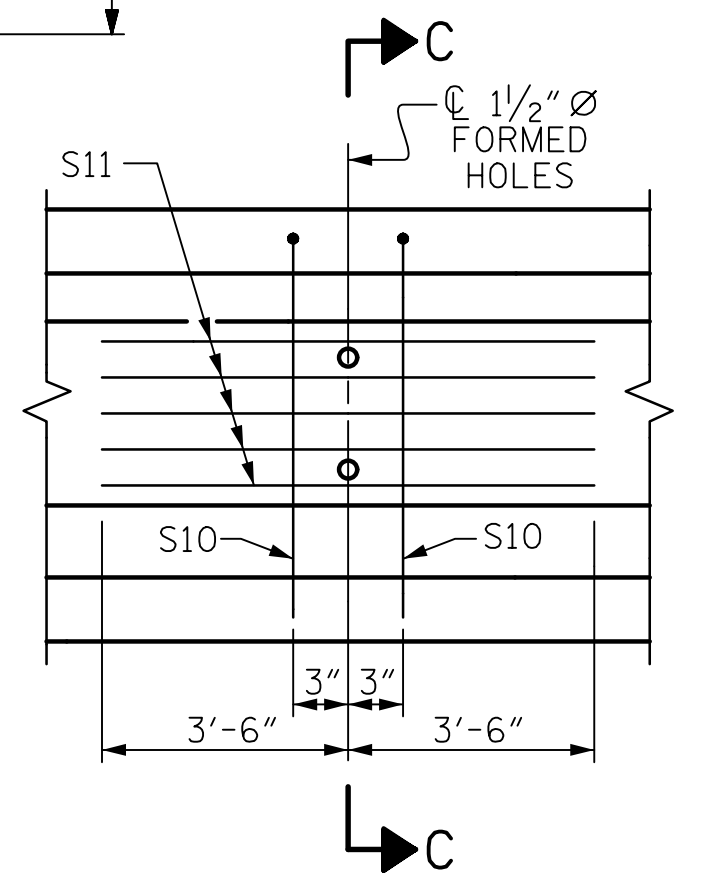
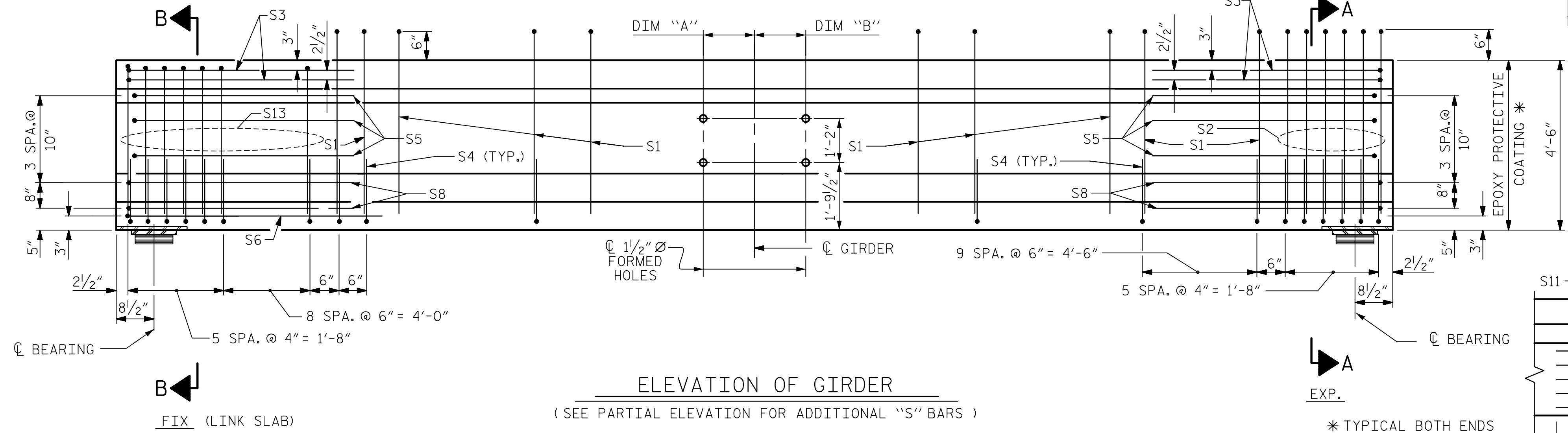
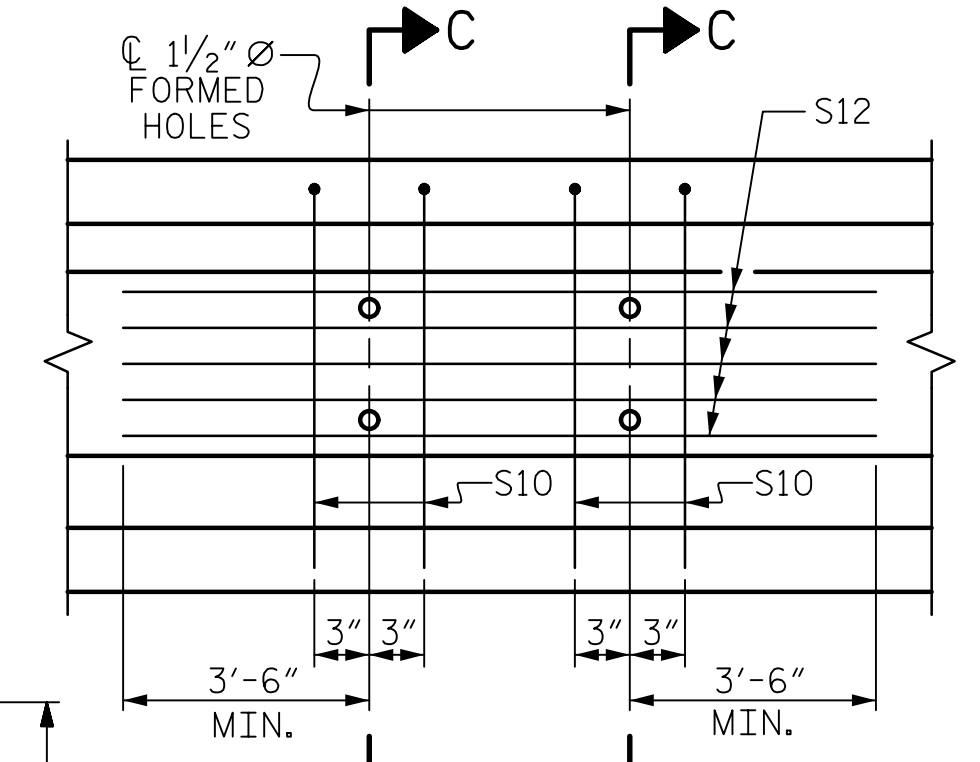
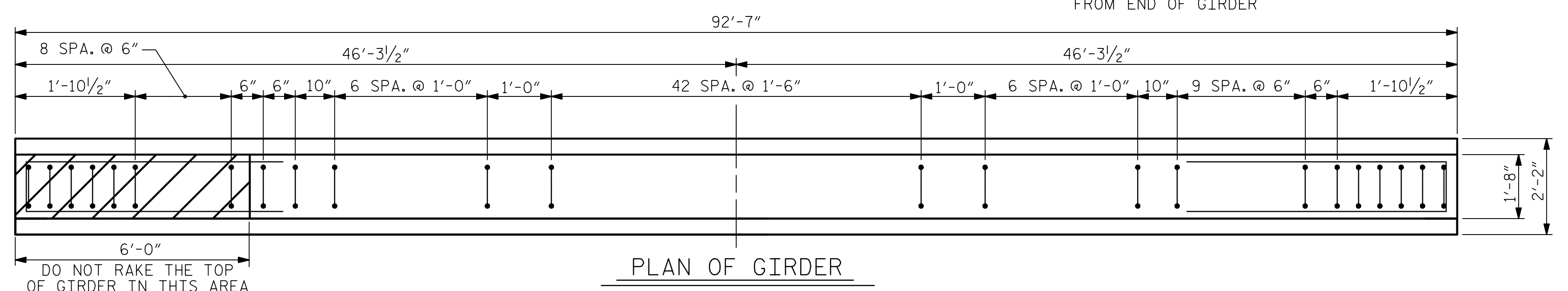
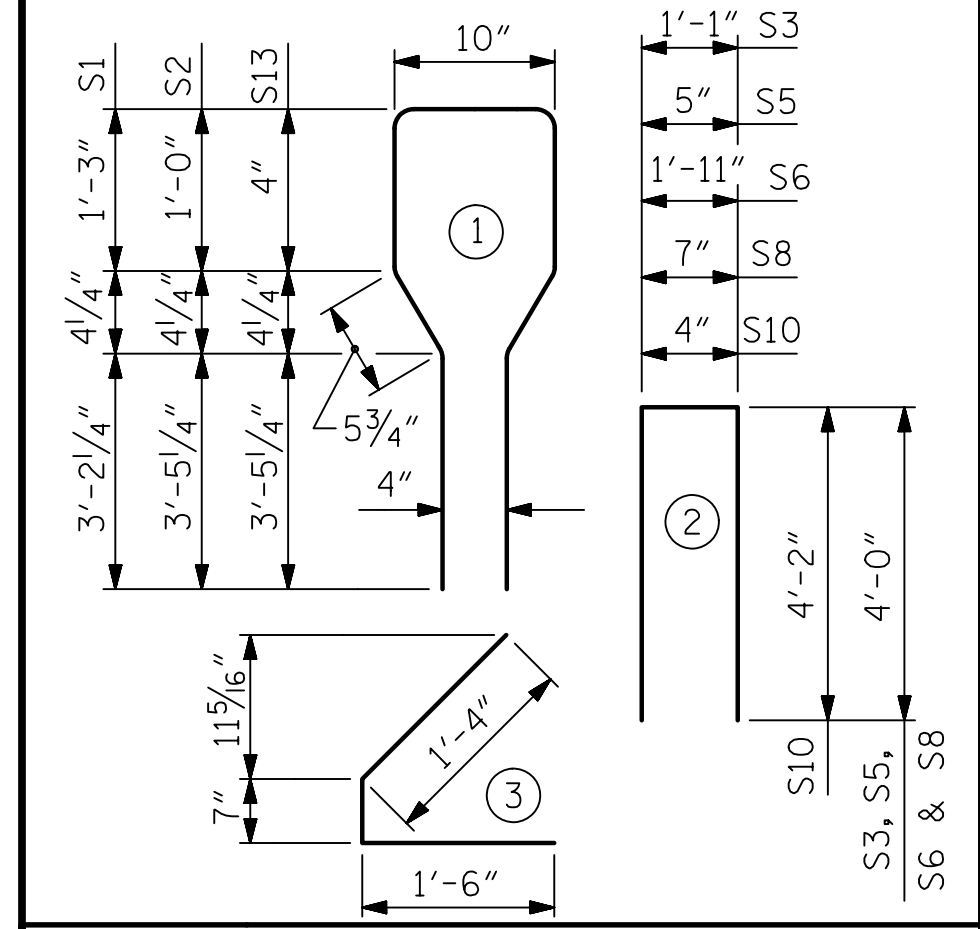
- FULLY BONDED STRANDS
- STRANDS DEBONDED FOR 8'-0" FROM END OF GIRDER
- ▲ STRANDS DEBONDED FOR 4'-0" FROM END OF GIRDER
- STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

| REINFORCING STEEL FOR ONE GIRDER | | | | | |
|----------------------------------|--------|------|------|--------|--------|
| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
| S1 | 69 | #4 | 1 | 10'-8" | 492 |
| S2 | 6 | #6 | 1 | 10'-8" | 96 |
| S3 | 4 | #4 | 2 | 9'-1" | 24 |
| S4 | 64 | #4 | 3 | 3'-5" | 146 |
| S5 | 6 | #4 | 2 | 8'-5" | 34 |
| S6 | 2 | #4 | 2 | 9'-11" | 13 |
| S8 | 4 | #4 | 2 | 8'-7" | 23 |
| S10 | 2 | #5 | 2 | 8'-8" | 18 |
| S10 | 4 | #5 | 2 | 8'-8" | 36 |
| S11 | 5 | #4 | STR | 7'-0" | 23 |
| S12 | 5 | #4 | STR | 13'-2" | 44 |
| S13 | 14 | #6 | 1 | 9'-4" | 196 |

| | | | | | | |
|-----------|-----|----|----|-------|--------|----|
| GDR. 1, 7 | S10 | 2 | #5 | 2 | 8'-8" | 18 |
| GDR. 2-4 | S10 | 4 | #5 | 2 | 8'-8" | 36 |
| GDR. 1, 7 | S11 | 5 | #4 | STR | 7'-0" | 23 |
| GDR. 2-4 | S12 | 5 | #4 | STR | 13'-2" | 44 |
| S13 | 14 | #6 | 1 | 9'-4" | 196 | |

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



| 1 1/2" FORMED HOLE LOCATIONS | | |
|------------------------------|------------|------------|
| | DIM "A" | DIM "B" |
| GDR. 1 | 3'-0 7/16" | - |
| GDR. 2, 3 & 4 | 3'-0 7/16" | 3'-0 7/16" |
| GDR. 7 | - | 3'-0 7/16" |

| 0.6" Ø L. R. GRADE 270 STRANDS | | |
|--------------------------------|-------------------------------------|-------------------------------------|
| AREA (SQUARE INCHES) | ULTIMATE STRENGTH (LBS. PER STRAND) | APPLIED PRESTRESS (LBS. PER STRAND) |
| 0.217 | 58,600 | 43,950 |

| QUANTITIES FOR ONE GIRDER | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| | REINFORCING STEEL (LB.) | 7000 PSI CONCRETE (C.Y.) | 0.6" Ø L. R. STRANDS (No.) |
| GDR. 1 & 7 | 1065 | 18.8 | 36 |
| GDR. 2-4 | 1104 | 18.8 | 36 |

| GIRDERS REQUIRED | | |
|------------------|--------|--------------|
| NUMBER | LENGTH | TOTAL LENGTH |
| STAGE I | 4 | 92'-7" |
| STAGE II | 1 | 92'-7" |
| TOTAL | 5 | 462'-11" |

PROJECT NO. B-4654
WAKE COUNTY
STATION: 22+71.80 -L-

SHEET 3 OF 5



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
AASHTO TYPE IV
PRESTRESSED CONCRETE GIRDER
LINK SLAB
(SPAN B, GIRDERS 1-4 & 7)

| REVISIONS | | | | | | SHEET NO. | |
|-----------|-----|-------|-----|-----|-------|--------------|--|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-15 | |
| 1 | | | 3 | | | TOTAL SHEETS | |
| 2 | | | 4 | | | 49 | |

| | |
|----------------------------|----------------|
| ASSEMBLED BY : K. MUENCH | DATE : 05/2022 |
| CHECKED BY : J.C. MORRISON | DATE : 05/2022 |
| DRAWN BY : BNB 09/21 | REV. --- |
| CHECKED BY : AAI 09/21 | REV. --- |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED