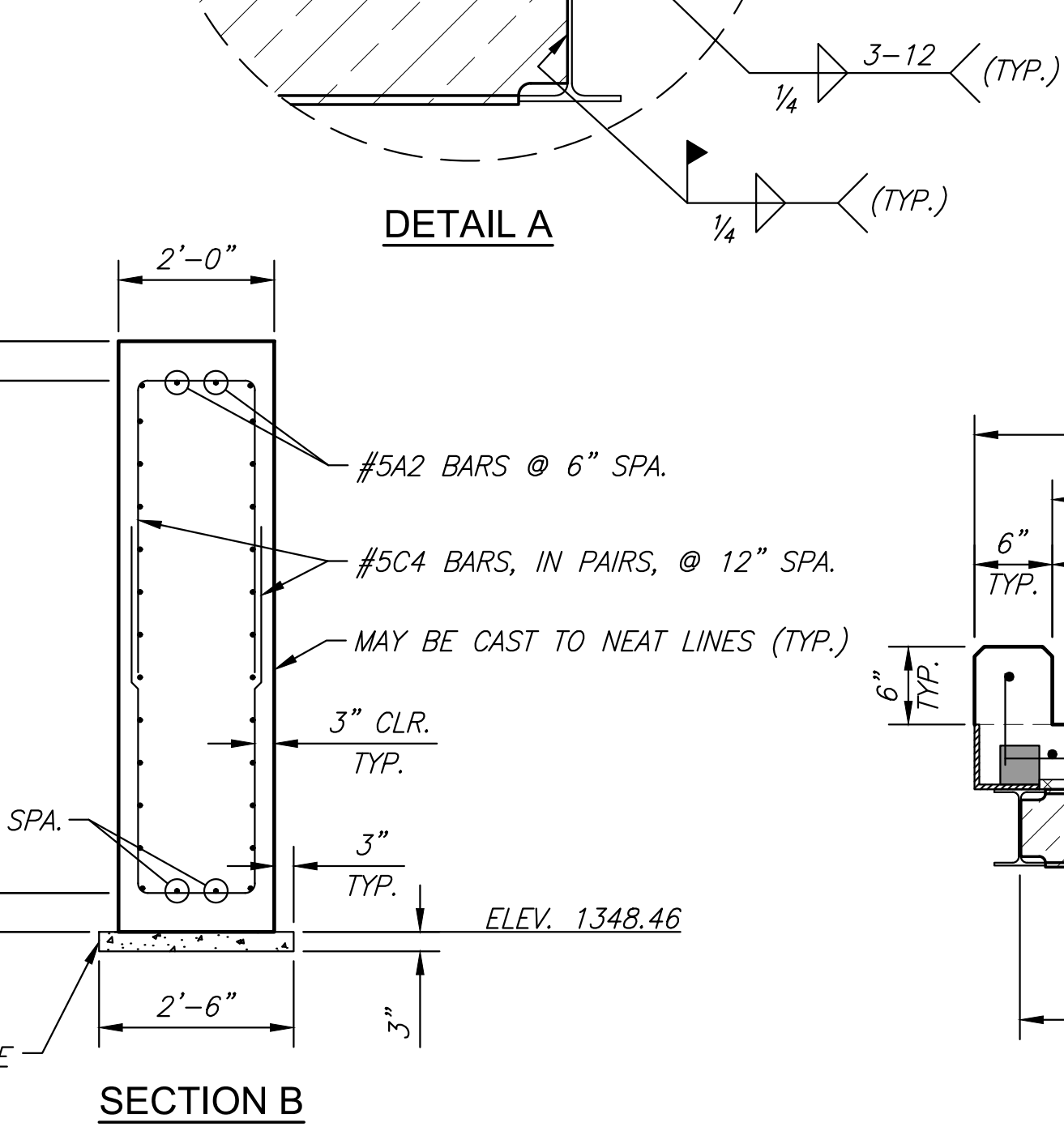
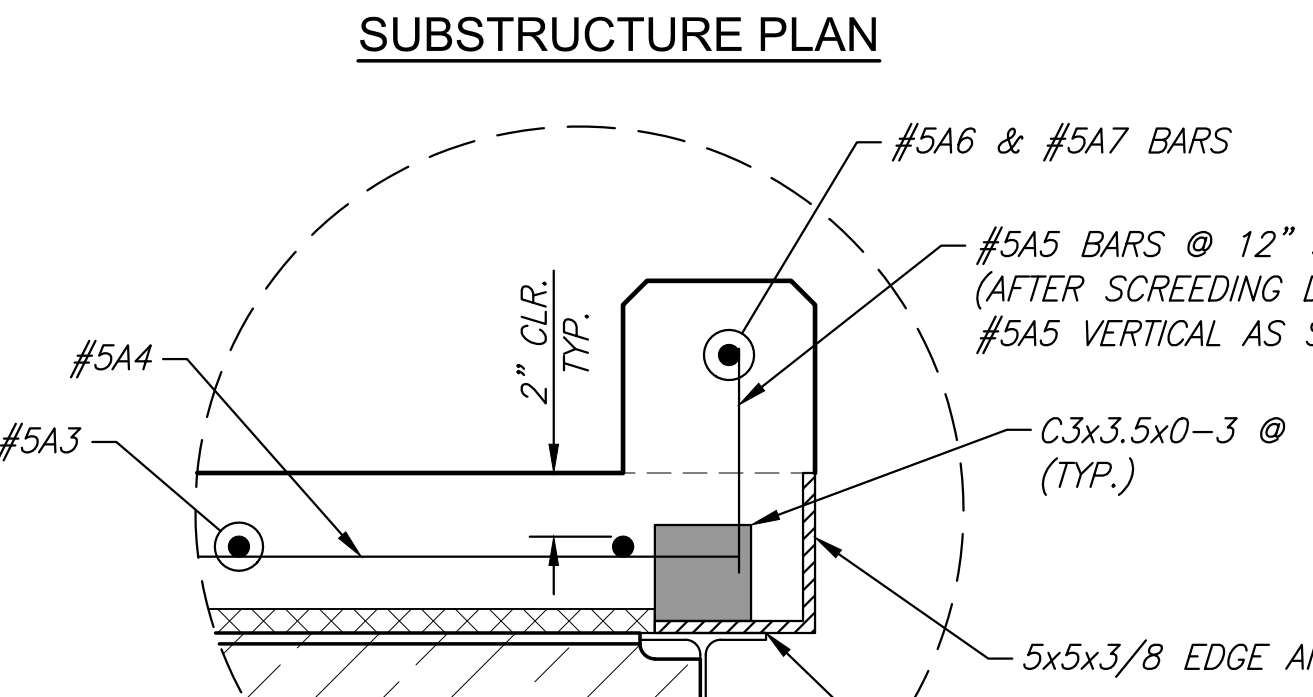
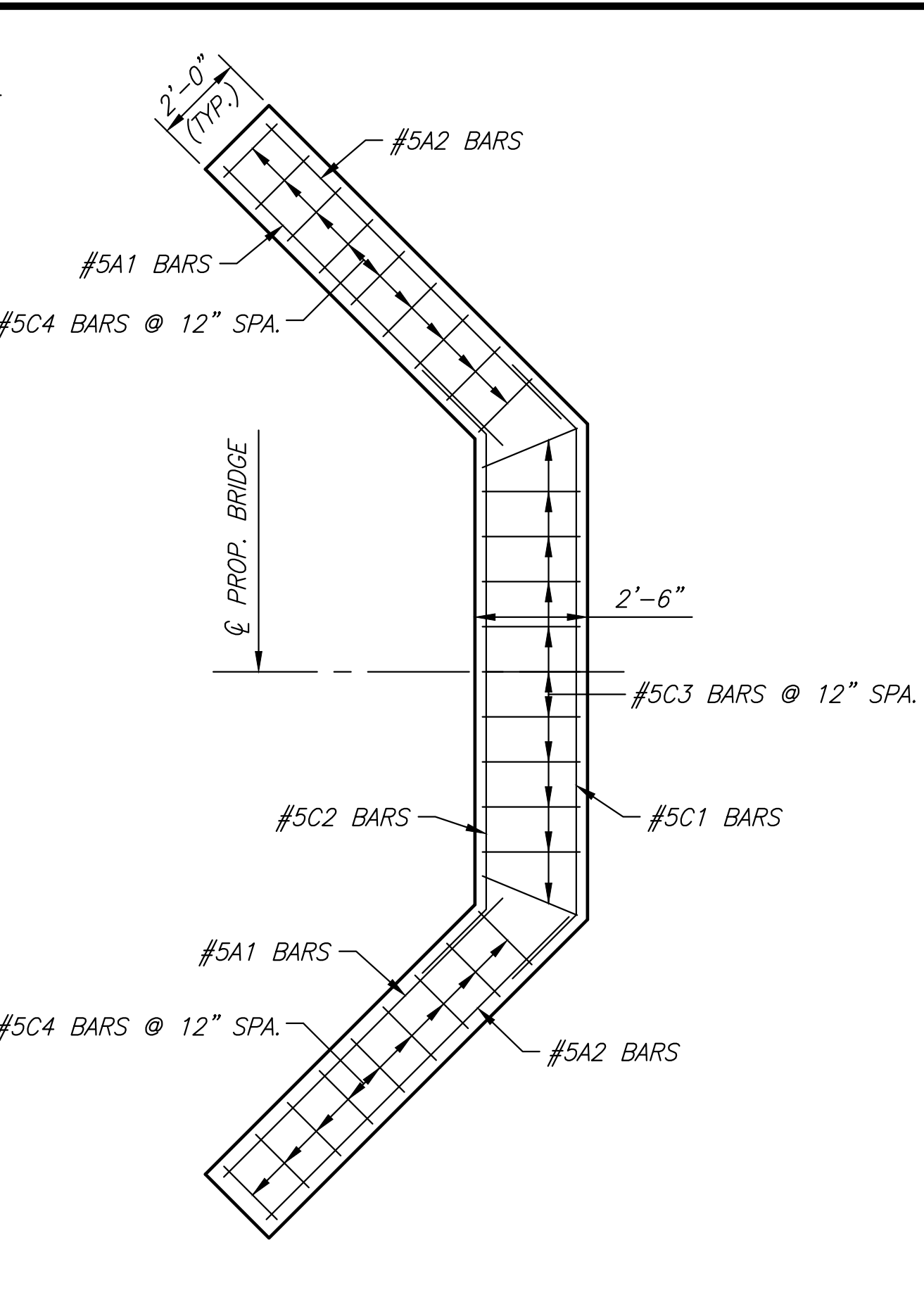
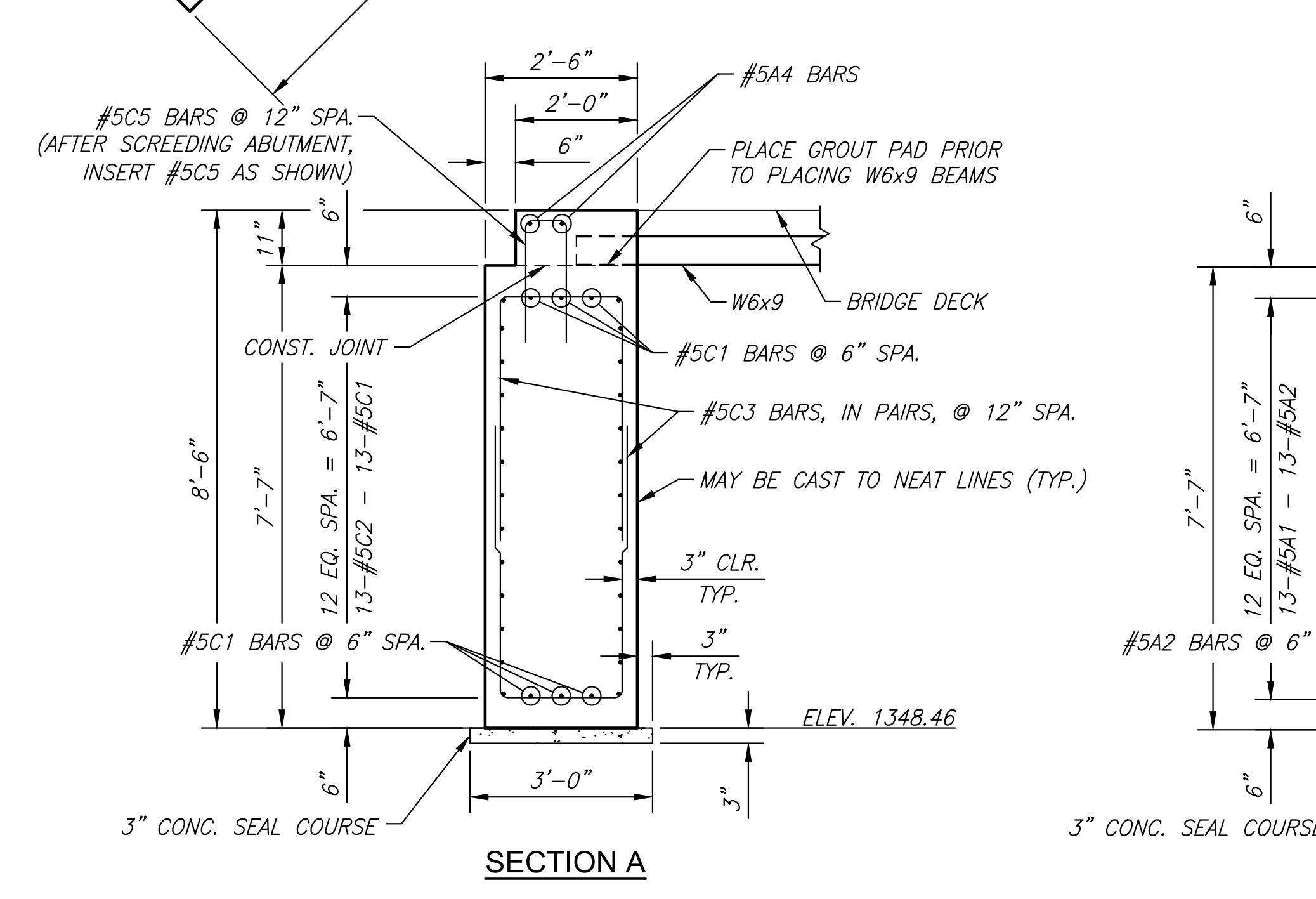
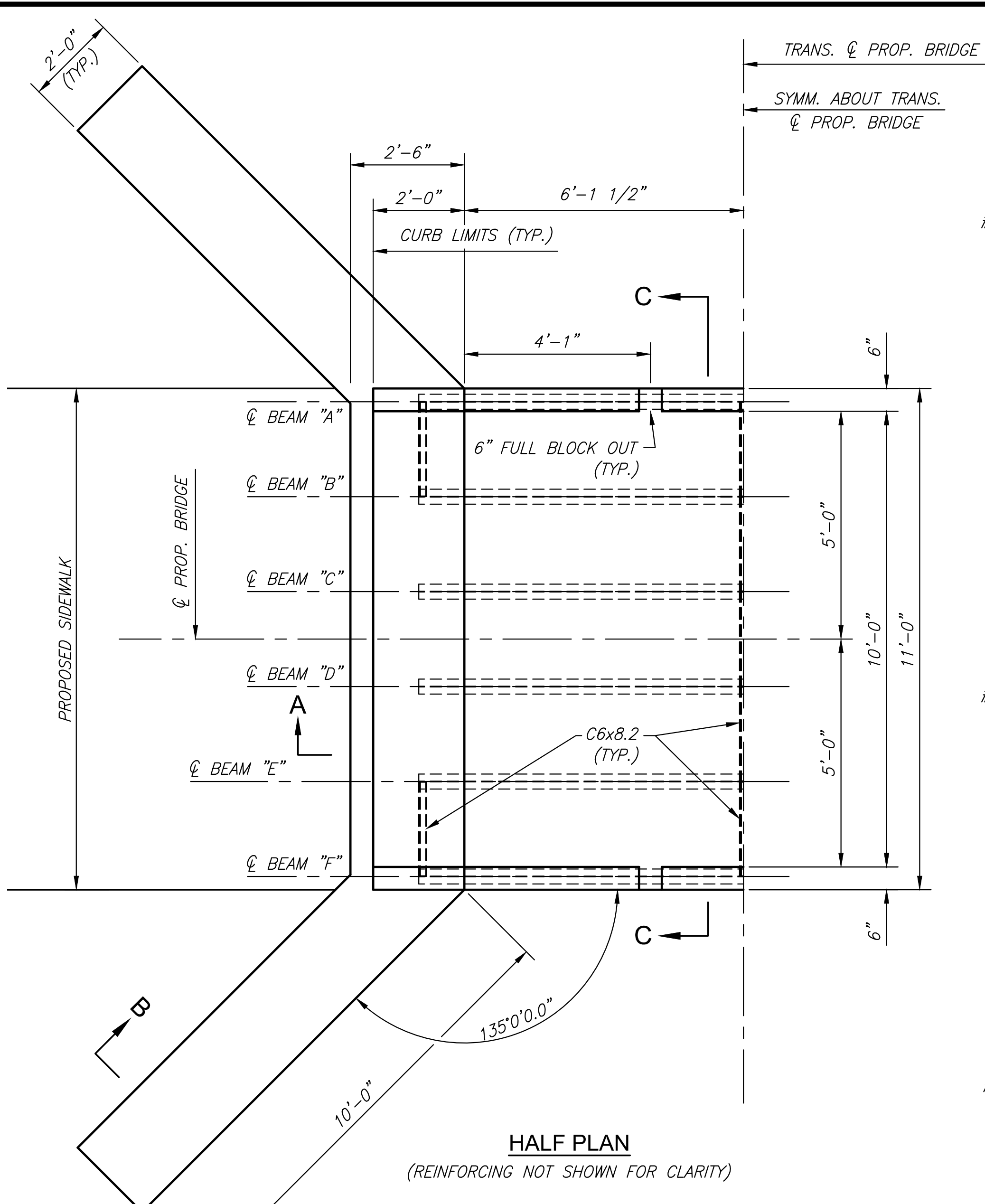
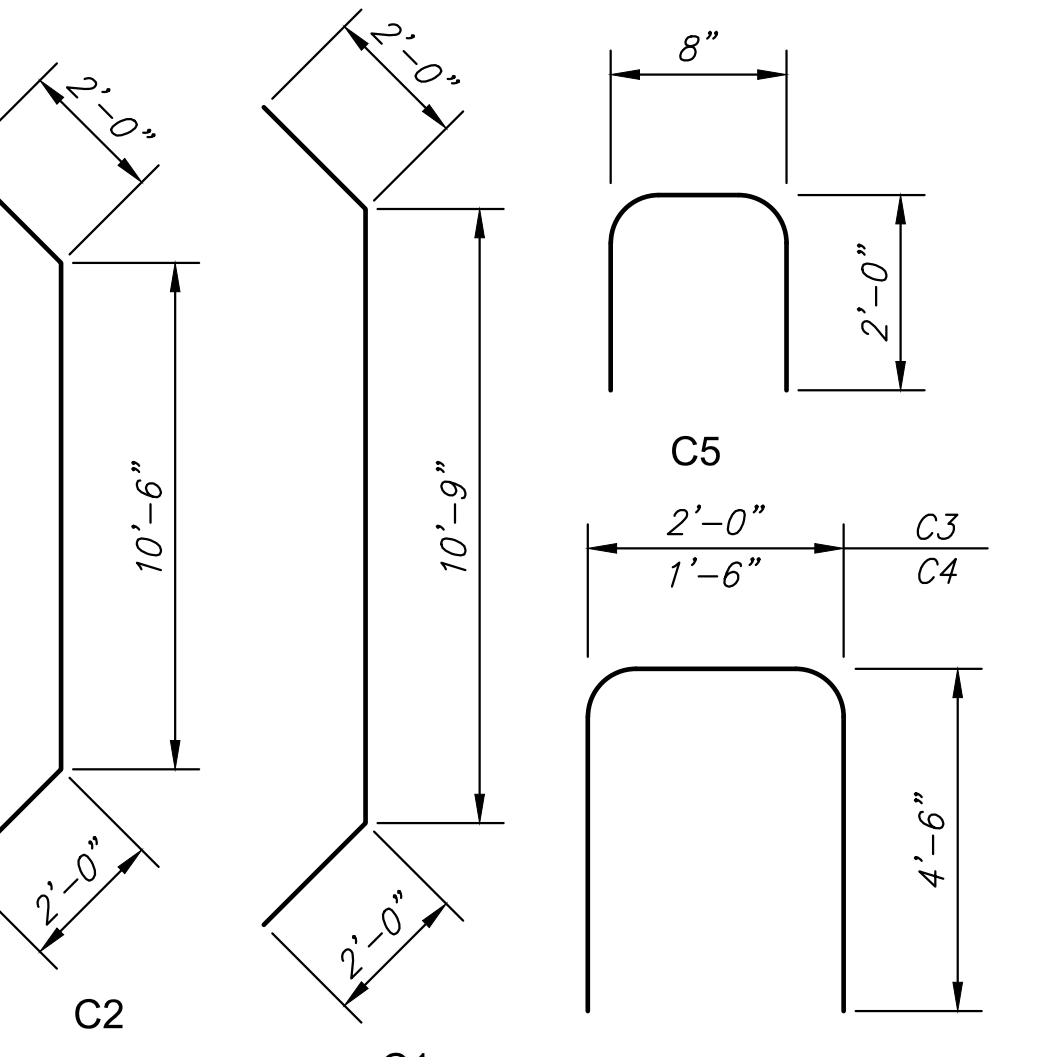


J:\PROJECTS\2019\1010483_COW_MACDONALD GOLF COURSE\190483 CAD\SHS\06 CIVIL\BRIDGE\190483-05-6253.DWG
 PLOTTED: Thursday, January 20, 2022 @ 06:00PM



FOR INFORMATION ONLY

| BILL OF REINFORCING STEEL (PER BRIDGE) | | | | | | | |
|--|------|-----|---------|-----------|------|-----|--------|
| Straight Bars | | | | Bent Bars | | | |
| Mark | Size | No. | Length | Mark | Size | No. | Length |
| A1 | #5 | 52 | 8'-9" | C1 | #5 | 38 | 14'-9" |
| A2 | #5 | 68 | 9'-6" | C2 | #5 | 26 | 14'-6" |
| A3 | #5 | 11 | 15'-11" | C3 | #5 | 44 | 11'-0" |
| A4 | #5 | 21 | 10'-8" | C4 | #5 | 72 | 10'-6" |
| A5 | #5 | 32 | 0'-7" | C5 | #5 | 22 | 4'-8" |
| A6 | #5 | 4 | 5'-6" | | | | |
| A7 | #5 | 2 | 3'-3" | | | | |



BAR BENDING DIAGRAMS

FOR INFORMATION ONLY

| SUMMARY OF QUANTITIES (PER BRIDGE) | |
|------------------------------------|------------|
| Concrete (Grade 4.0) | 43.1 C.Y. |
| Reinforcing Steel (Gr. 60) | 4,000 Lbs. |
| Structural Steel | 1,280 Lbs. |
| Concrete (Seal Course) | 1.5 C.Y. |

GENERAL NOTES

DESIGN SPECIFICATION: AISC Steel Construction Manual, 15th, American Concrete Institute (ACI) 318-20

"KDOT Standard Specifications for Road and Bridge Construction, 2015 Edition" are referenced for bridge construction. When differences occur between plan notes and these specifications, the plan notes govern.

DESIGN LOADING: 90 pounds per square foot

UNIT STRESSES: Grade 4.0 Concrete; $f'_c = 4,000$ p.s.i.
Reinforcing Steel; $f_y = 60,000$ p.s.i.

CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular moulding.

Prior to casting concrete against a previous casting, all concrete joint surfaces shall have a brush sandblast, power wash, and water soaked prior to casting.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.

All reinforcing shall be certified (certified mill test reports) according to Section 2601, Type "A" certified, at Kansas Department of Transportation, Standard Specification For State Road & Bridge Construction-2015.

BACKFILL WINGWALLS: Use any material found within the project limits except Highly Plastic Clay(s) or organic material. The material is to be compacted to Type B, MR-90. The wingwalls shall be backfilled equally on both sides. Use only hand or walk behind equipment for compaction.

SEAL COURSE: A Seal Course shall be required. The Seal Course shall be unreinforced concrete (Commercial Grade) to a minimum depth of 3 inches.

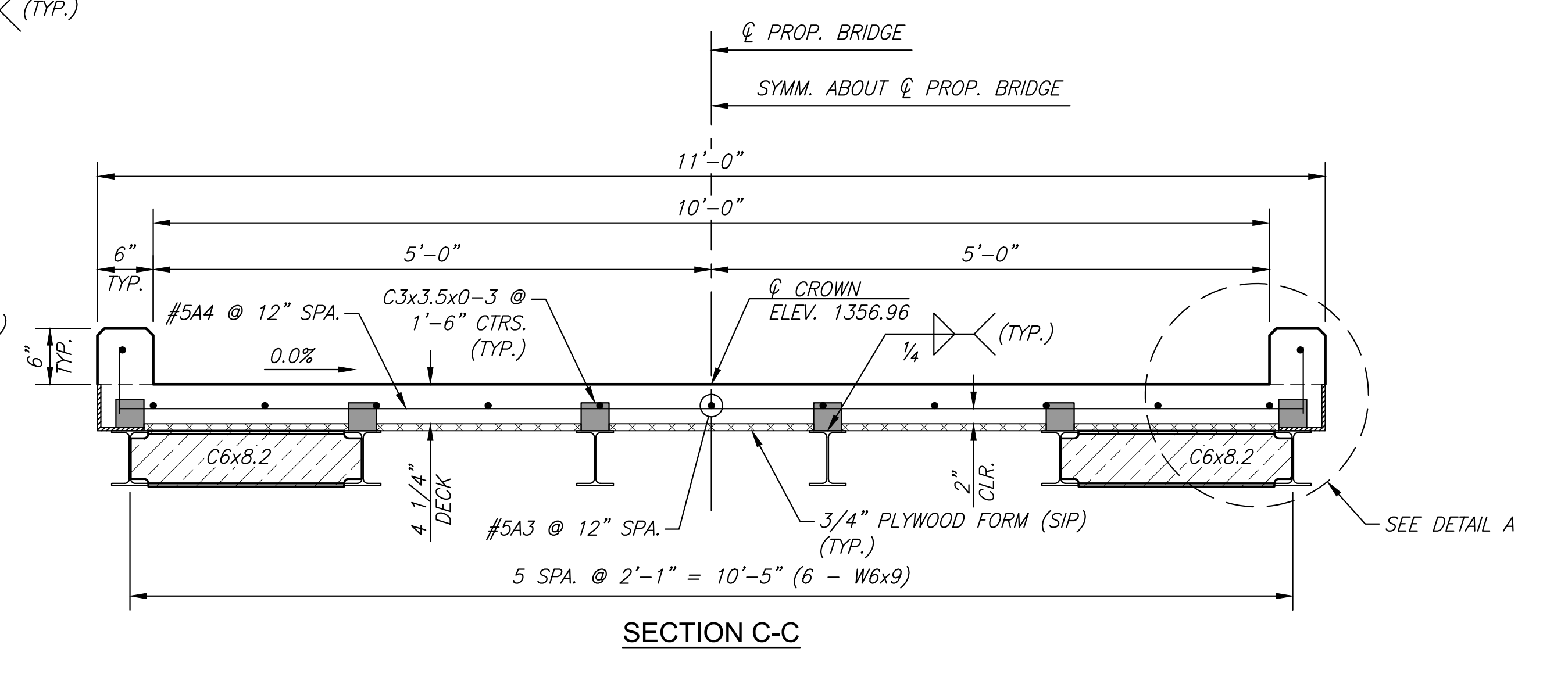
WELDING: All welding shall be in accordance with AWS D1.1.

STRUCTURAL STEEL: All material shall be ASTM A36 or equivalent. All structural steel shall be certified (certified mill test reports) according to Section 2601, Type "A" certified, at Kansas Department of Transportation, Standard Specification For State Road & Bridge Construction-2015.

****Structural Steel painting is not required.**

FOR INFORMATION ONLY

| STRUCTURAL STEEL (PER BRIDGE) | | |
|-------------------------------|----------|------------|
| Item | Quantity | Wt. (Lbs.) |
| W6x9 x 14'-3" | 6 | 770 |
| L5x5x3/8 x 12'-3" | 2 | 302 |
| C3x3.5 x 0'-3" | 60 | 53 |
| C6x8.2 x 2'-1" | 9 | 154 |



MACDONALD GOLF COURSE DRAINAGE IMPROVEMENTS
 WICHITA, KS
 PLANS FOR

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| BRIDGE REPLACEMENT DETAILS | | |
|----------------------------|------------|---------|
| PROJECT NO. | | |
| DATE | 01/20/2022 | |
| SCALE | NTS | |
| DESIGNED | DRAWN | CHECKED |
| KJS | RAM | KJS |
| NO. | REVISION | DATE |
| | | |
| SHEET NO. | | |
| 11 OF 24 | | |