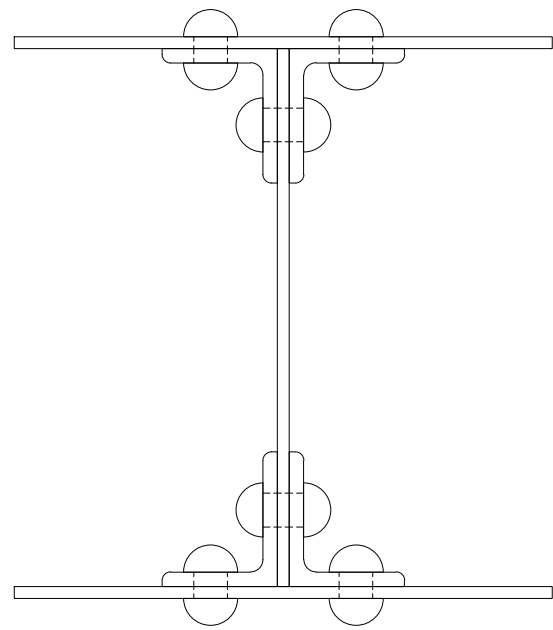
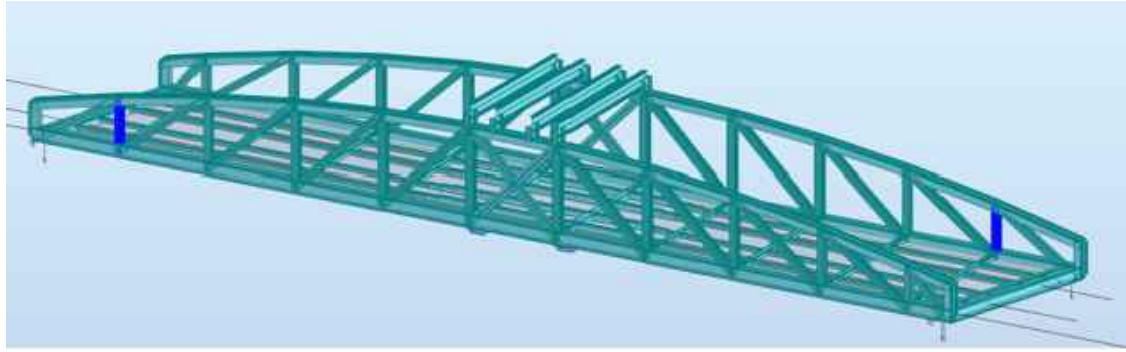
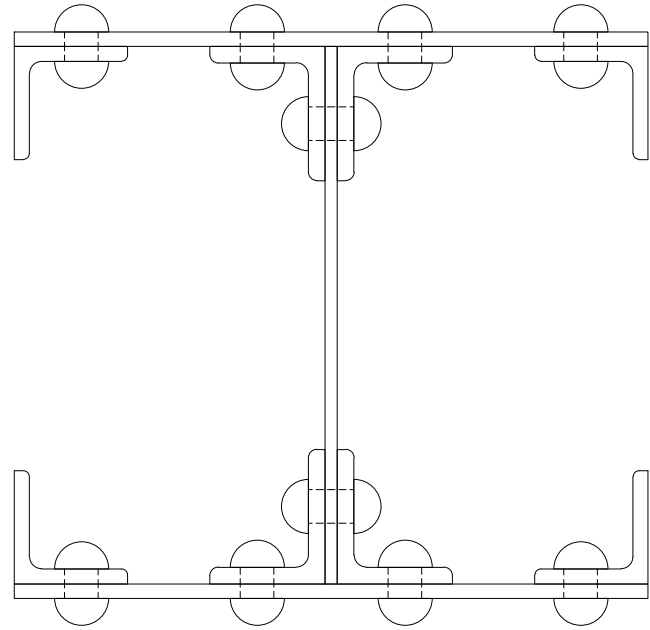
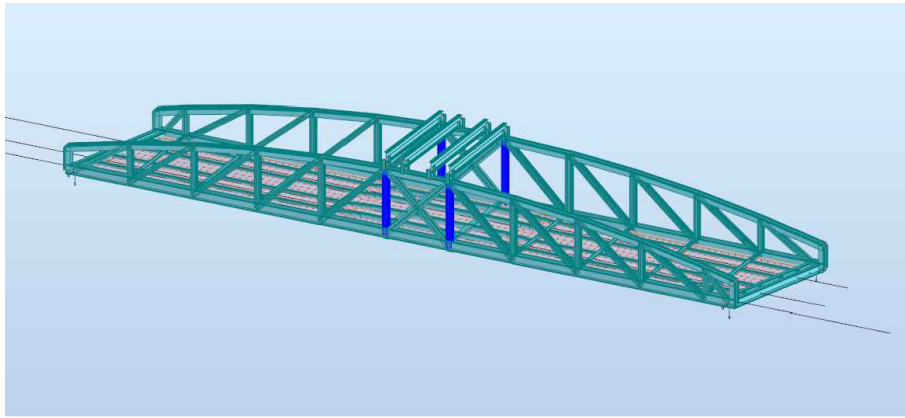
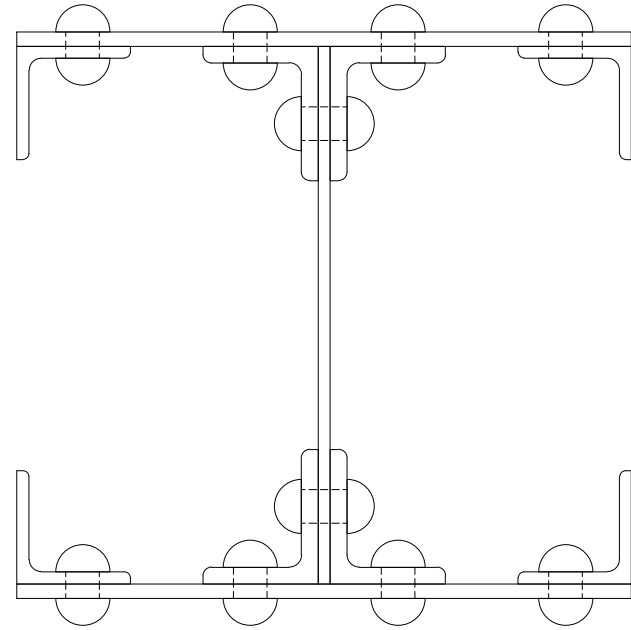
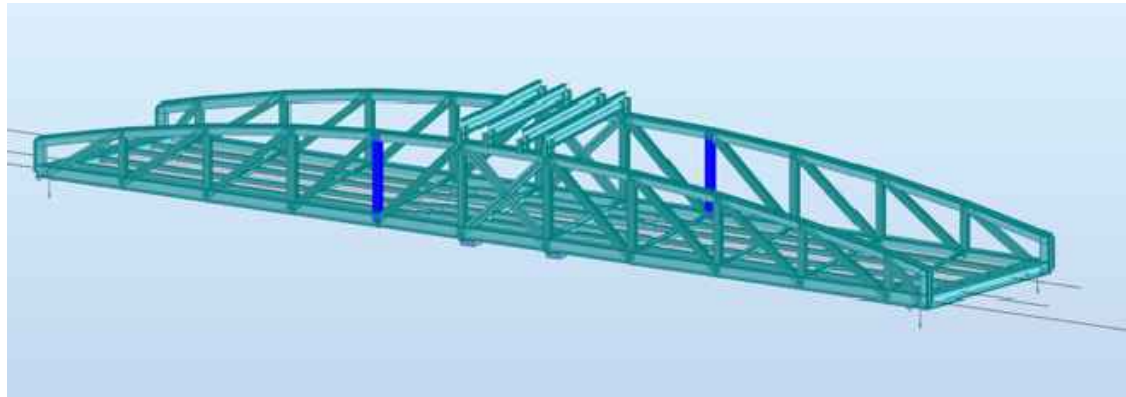




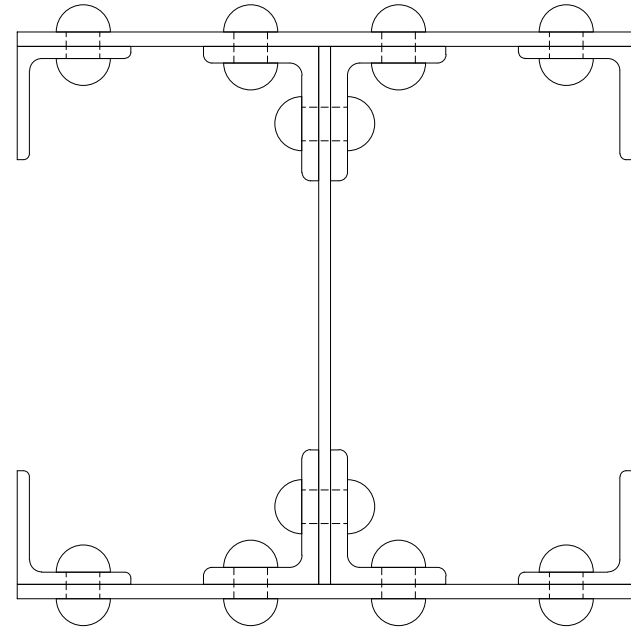
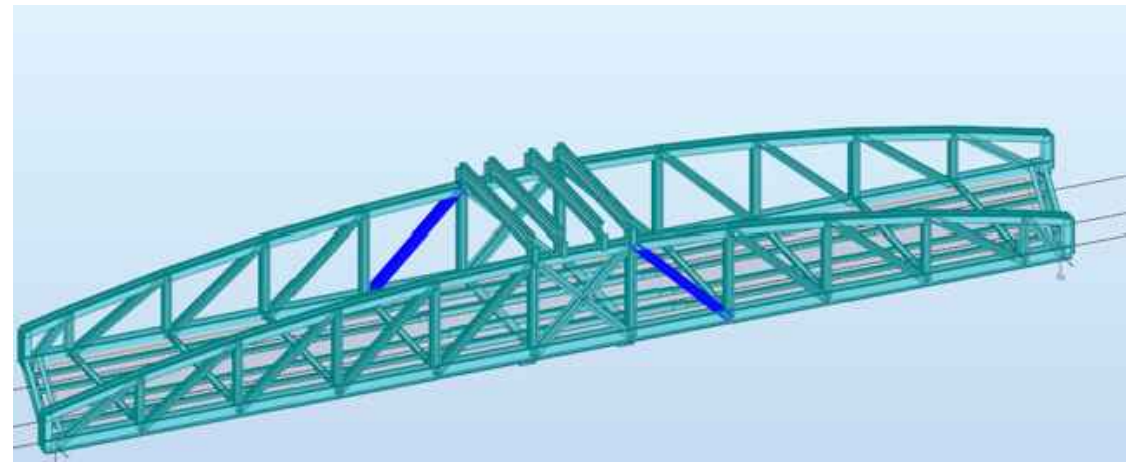
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SCALE: 1:5



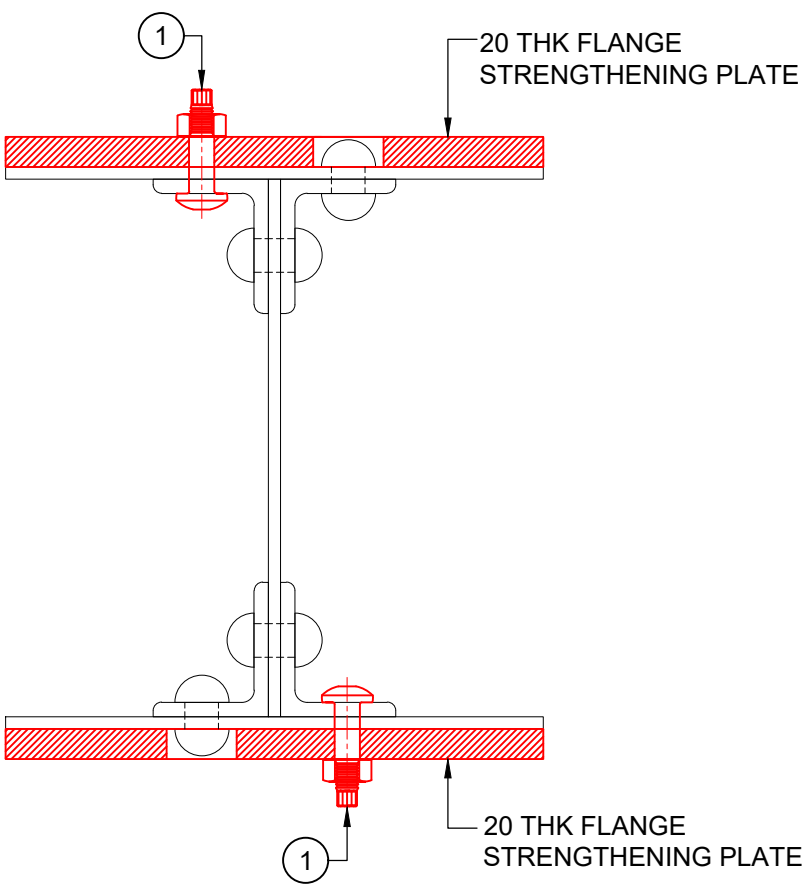
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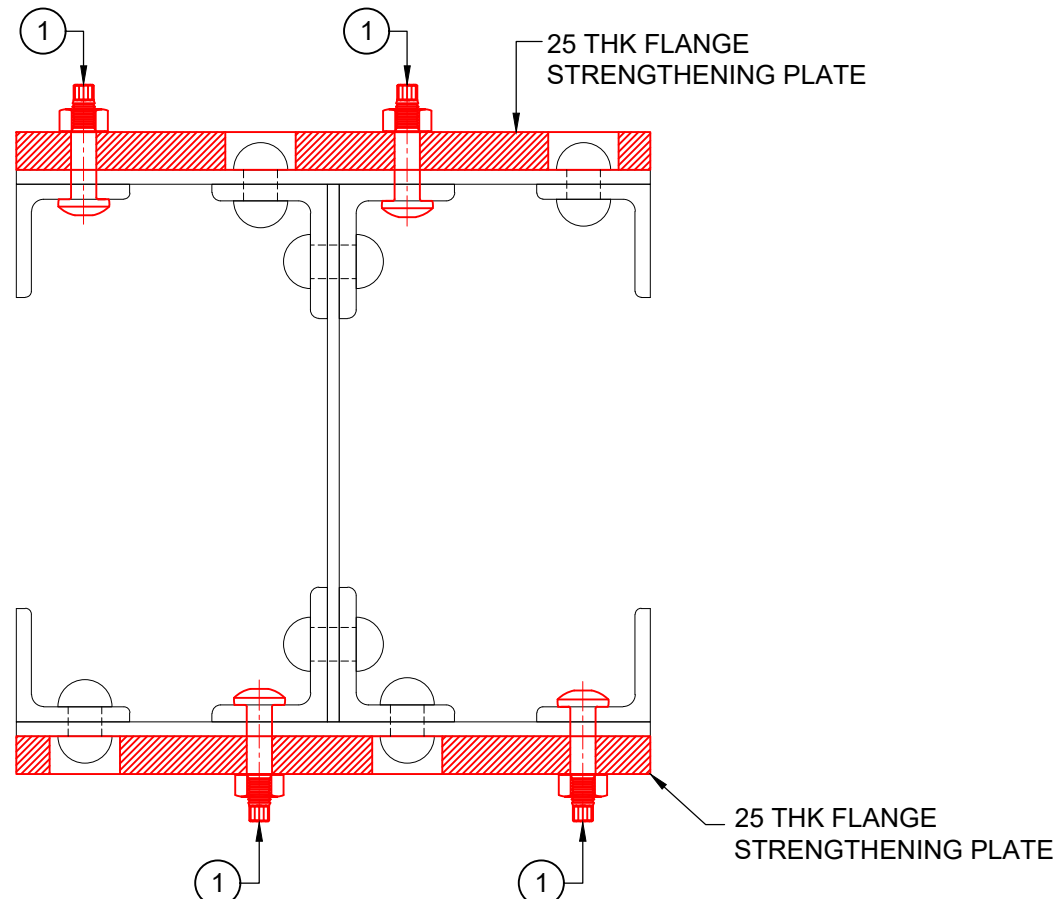
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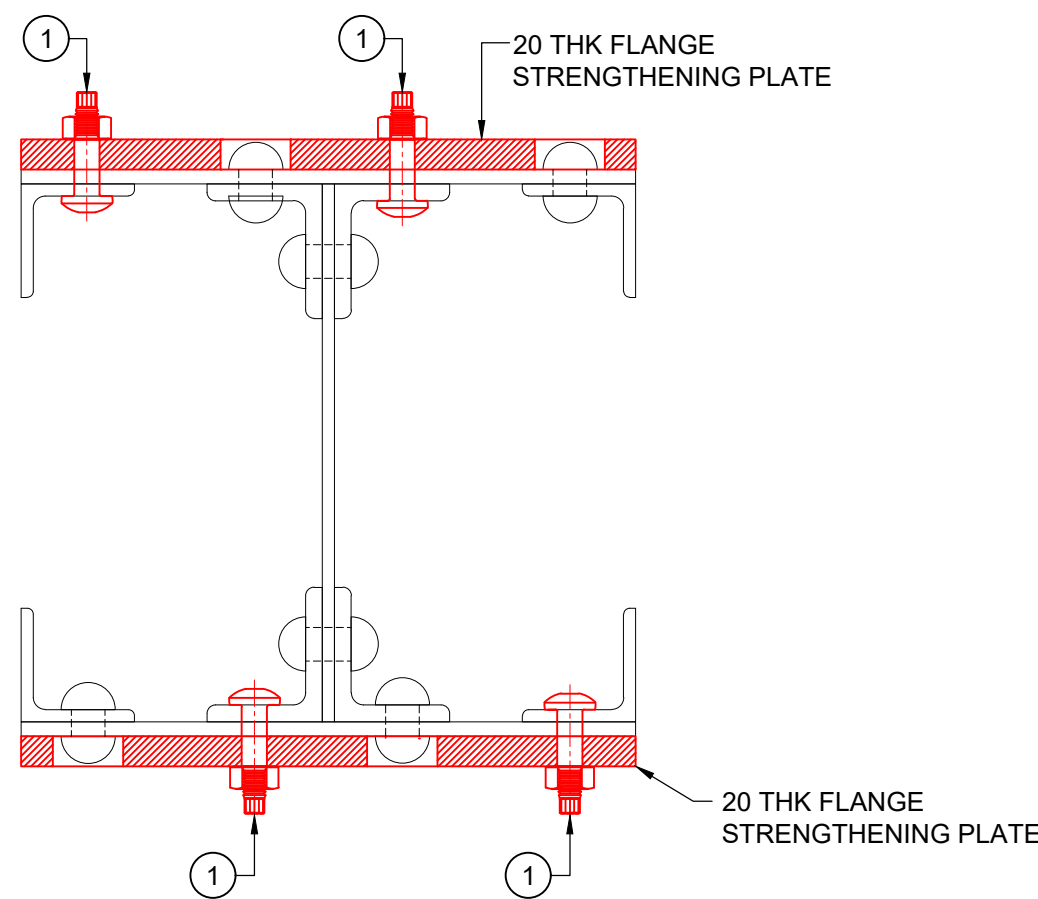
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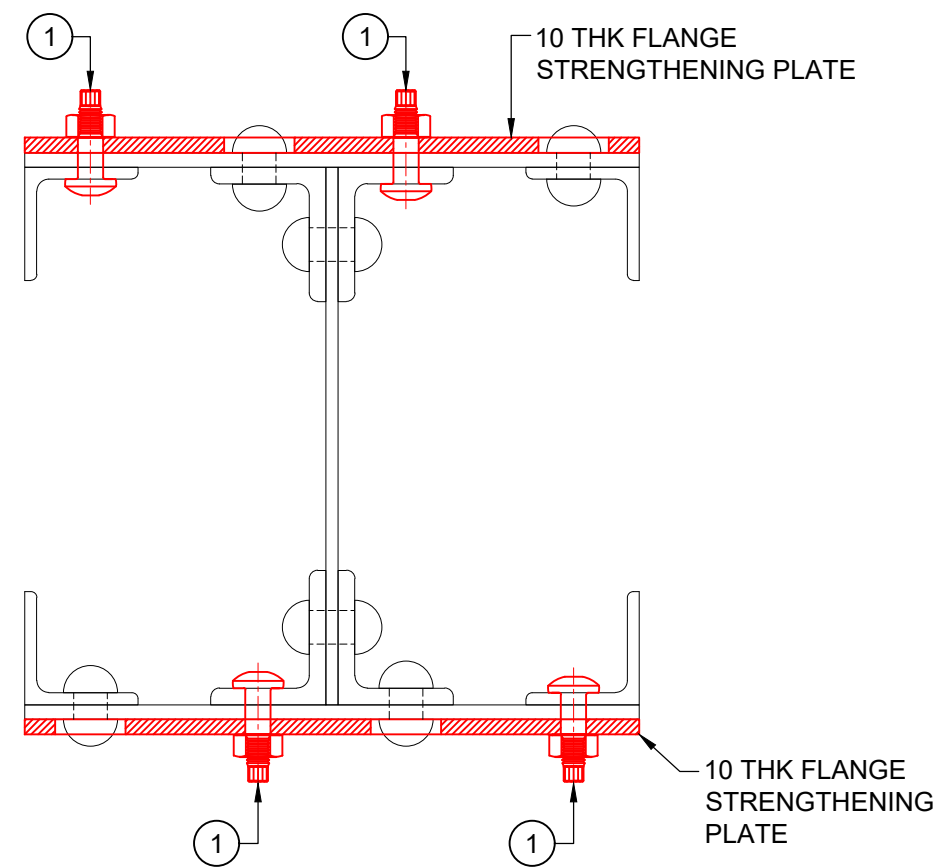
STRENGTHENED SECTION- VERG 355  
SCALE: 1:5



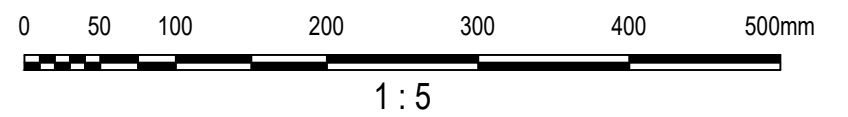
STRENGTHENED SECTION- VER 419  
SCALE: 1:5



STRENGTHENED SECTION- VER 406  
SCALE: 1:5



STRENGTHENED SECTION- DIA 406  
SCALE: 1:5



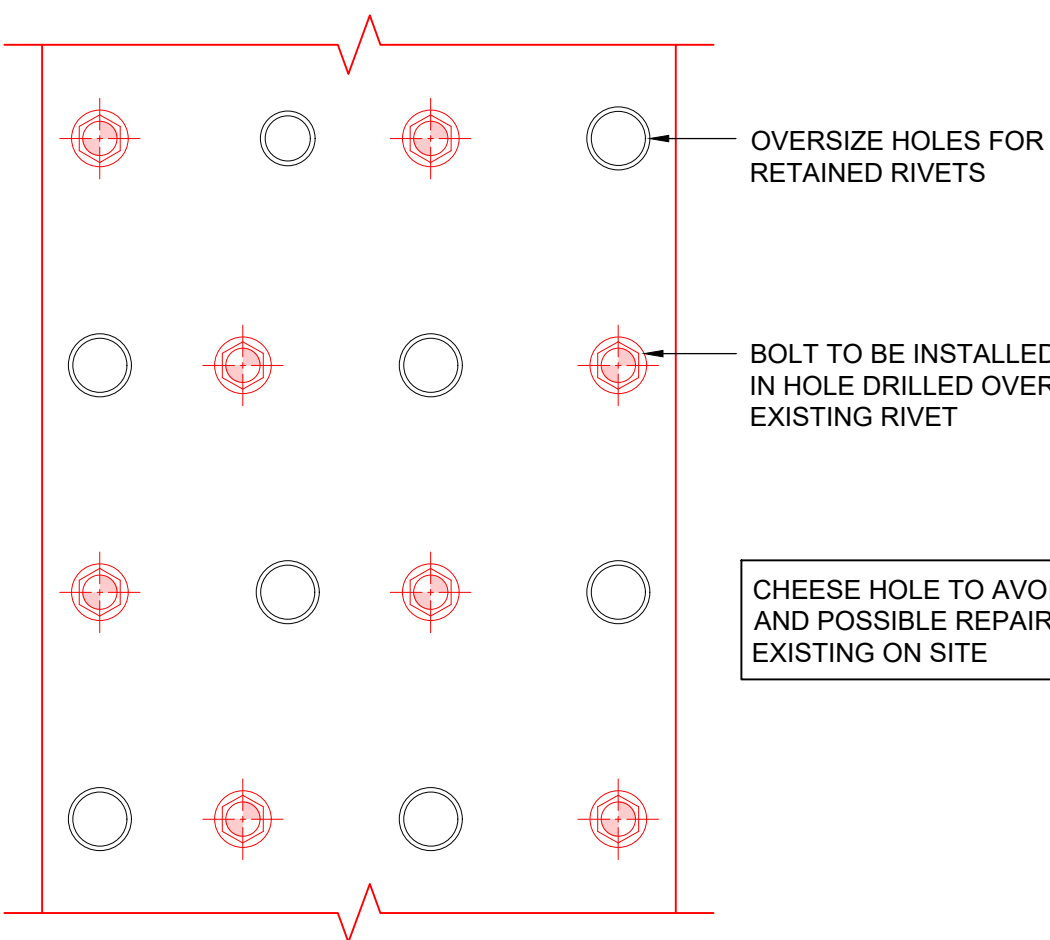
|        |                     |                          |       |      |      |
|--------|---------------------|--------------------------|-------|------|------|
| Rev    | Date                | Description of Revisions | Drawn | Chkd | Appr |
| A01    | 24.04.2020          | FOR FORM 001 REVIEW      | K.S   | B.K  | J.L  |
| Status | FOR FORM 001 REVIEW |                          |       |      | S3   |



Project:  
**RIVER NEATH SWING  
BRIDGE GRIP 4**

Drawing Title:  
**STRENGTHENING OF TRUSS  
VERTICALS AND DIAGONALS  
(AS-BUILT SECTIONS)**

|                       |                           |        |     |      |            |
|-----------------------|---------------------------|--------|-----|------|------------|
| Designed              | S. ALURU                  | Signed | S.A | Date | 24.04.2020 |
| Drawn                 | K. SRILEKHA               | Signed | K.S | Date | 24.04.2020 |
| Checked               | B. KING                   | Signed | B.K | Date | 24.04.2020 |
| Approved              | J. LYNN                   | Signed | J.L | Date | 24.04.2020 |
| Scale(s)              | AS SHOWN @ A1             |        |     |      |            |
| Alternative Reference | SDI1 207m 63ch            |        |     |      | Sheet      |
| 152093                |                           |        |     |      | 1 of 1     |
| Drawing Number        | 152093-ARC-DRG-ECV-000017 |        |     |      | Revision   |
|                       |                           |        |     |      | A01        |



TYPICAL PLAN OF STRENGTHENING  
(VERTICALS / DIAGONALS / TOP BOOM / BOTTOM BOOM)  
SCALE: 1:5

| LEGEND:- |                                               |
|----------|-----------------------------------------------|
|          | PROPOSED STRENGTHENING STEELWORK              |
| VER      | - VERTICAL TRUSS MEMBER                       |
| DIA      | - DIAGONAL TRUSS MEMBER                       |
|          | - DENOTES NEW BOLT IN PRE DRILLED HOLE.       |
|          | - DENOTES EXISTING RIVET TO BE LEFT IN PLACE. |

TABLE: NOTE DESCRIPTION

| ITEM | DESCRIPTION                                    |
|------|------------------------------------------------|
| ①    | TCB INSTALLED OVER EVERY SECOND RIVET IN A ROW |

STEEL SPECIFICATION:-

- STEEL TO BE IN ACCORDANCE WITH BS EN 10025.
- ALL BOLTS TO BE TCBs CLASS HRC 10.9 TO BS EN 14399-10 UNLESS OTHERWISE STATED.
- STEELWORK SHALL COMPLY WITH BS EN 1090-2 FOR EXECUTION CLASS EXC3 AND TOLERANCE CLASS 2.
- ALL NEW STEELWORK TO BE S275 J2.
- ALL NEW STEELWORK TO BE COATED WITH N4 PROTECTIVE PAINT SYSTEM IN ACCORDANCE WITH NR/L3/CIV/039.

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES AOD UNLESS NOTED OTHERWISE.
- DO NOT SCALE OFF THIS DRAWING, USE FIGURED DIMENSIONS ONLY.
- THE AS-BUILT SECTIONS WITH ASSESSMENT CATEGORY WORSE THAN A2 HAVE BEEN STRENGTHENED AS PER THE PROPOSAL ON THIS DRAWING IN ACCORDANCE WITH CLAUSE 7.2 OF NR-L3-CIV-020.
- OVERPLATE DIMENSIONS TO BE CONFIRMED BY THE GRIP5-8 CONTRACTOR VIA TEMPLATING ON SITE, PRIOR TO FABRICATION.
- RIVETS ARE NOT TO BE REMOVED, OTHER THAN THOSE INDICATED IN THE DRAWINGS - RIVETS ARE TO BE REMOVED BY APPROVED MECHANICAL TECHNIQUES WITHOUT DAMAGE TO EXISTING STRUCTURE (SEE NR/CIV/TUM/800 FOR GUIDANCE) FOLLOWING THE RIVETS REMOVAL, THE RIVETS HOLES ARE TO BE REAMED OUT TO 24mm DIA. AND REPLACED WITH TEMPORARY BOLTS. RIVET REMOVAL WORKS MIGHT BE UNDERTAKEN OUTSIDE OF POSSESSION ON A "ONE IN, ONE OUT" BASIS.
- ALL AREAS TO RECEIVE REPAIR PLATES TO BE PREPARED TO BARE METAL. WHERE A FLAT SURFACE CAN'T BE ACHIEVED, DEVCON CHEMICAL METAL "A" OR SIMILAR APPROVED MUST BE USED TO LEVEL THE SURFACE.
- THE CONTACT SURFACE SHOULD BE FREE OF LOCALISED CORROSION AND EDGES GROUND BACK TO SOUND METAL WITH THE AREA CLEANED TO PROVIDE A SOUND CONTACT SURFACE.
- REMOVAL OF RIVETS - AFTER THE REMOVAL OF THE RIVET, THE PERIPHERY OF THE HOLE SHOULD BE CHECKED FOR DAMAGE AND WHERE NECESSARY THE HOLE SHOULD BE DRESSED OR REAMED TO REMOVE THESE IMPERFECTIONS. ANY SERIOUS CRACKING SHOULD BE INVESTIGATED.
- SEALING OF EDGES - WHERE NEW PLATES ARE OFFERED UP AGAINST EXISTING PLATES, APPLY A SEALANT AROUND BOLT HOLES AND EDGES OF PLATES IN ACCORDANCE WITH NR SPECIFICATIONS. THE SEALANT IS TO BE COMPATIBLE WITH THE PROTECTIVE COATING SYSTEM.
- FOR THE LOCATION OF STRENGTHENING IN THE TRUSS, REFER TO DRAWINGS 152093-ARC-DRG-ECV-000030 AND 000039.