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|--------|-----------------|------|-----------|--------------|
| STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 54-87 K-8258-01 | 2007 | 507 | 556 |

GENERAL NOTES:

MATERIAL: Use ASTM A615M, Grade 420 reinforcing bars, except for the loop bars (19D1, 19D2 and 19D3).

The loop bars (19D1, 19D2 and 19D3) shall be 19 mm smooth steel bars with a minimum yield of 420 MPa, a tensile strength of not less than 1.25 times the yield strength but a minimum of 550 MPa, a minimum 14% elongation in 203 mm, and passing a 180 degree bend test using a 3.5D pin bend diameter. The loops shall be installed within 3 mm of the plan dimensions.

Use Concrete Grade 35 (AE) throughout.

Use 28 mm ϕ A307 Anchor Bolts with heavy hex nut & washer (A36M). Use ASTM A36M material for the Connection Pin.

SECTION: The section furnished must generally comply with dimensions shown. Requests for minor variations in section geometry and attachments may be submitted to the Engineer for approval.

LIFTING SLOTS: Lifting slots shall be constructed where specified on the plans to facilitate the drainage of water after installation on the roadway.

TEMPORARY CONCRETE SAFETY BARRIER: Furnishing and placing of all materials when required and all labor and equipment required to position the temporary barrier shall be included in the Contract unit price bid for "Concrete Safety Barrier (Type F3)(Temporary)". Any relocation of the barrier required for the project shall be paid in accordance with the Special Provisions under the bid item "Concrete Safety Barrier (Type F3)(Temporary-Relocate)". Unless otherwise noted on the Plans, the Temporary Concrete Safety Barrier shall become the property of the Contractor and shall be removed from the site upon acceptance of the completed project. Approximate weight of one unit equals 2.45 Mg.

SURFACE PREPARATION: Barrier shall be placed on a paved surface. All loose dirt and sand shall be removed from the roadway surface just prior to placement of the barrier.

DELINEATION: See Standard Drawing RD640 SI for delineator notes and details.

MARKING: The left end (#) of each barrier shall be permanently marked by stamping or forming into the barrier the following information:

- Type F3
- Manufacturer code (as specified by KDOT Bureau of Const. & Maint.)
- Date manufactured (month and year)

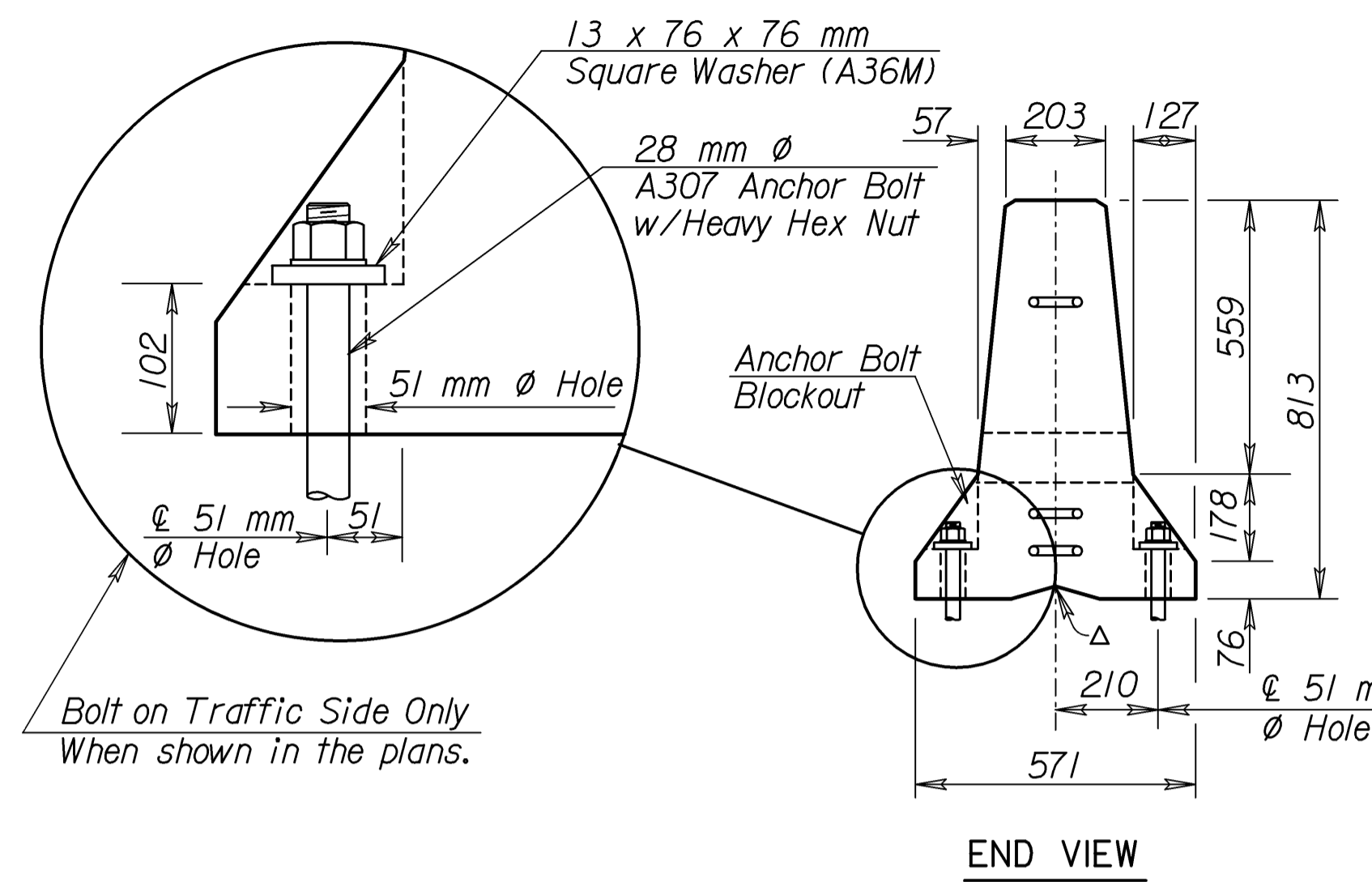
At no time shall the barriers be lifted, moved, etc by use of the loop bars: 19D1, 19D2 or 19D3.

Per 3810 mm Barrier Section

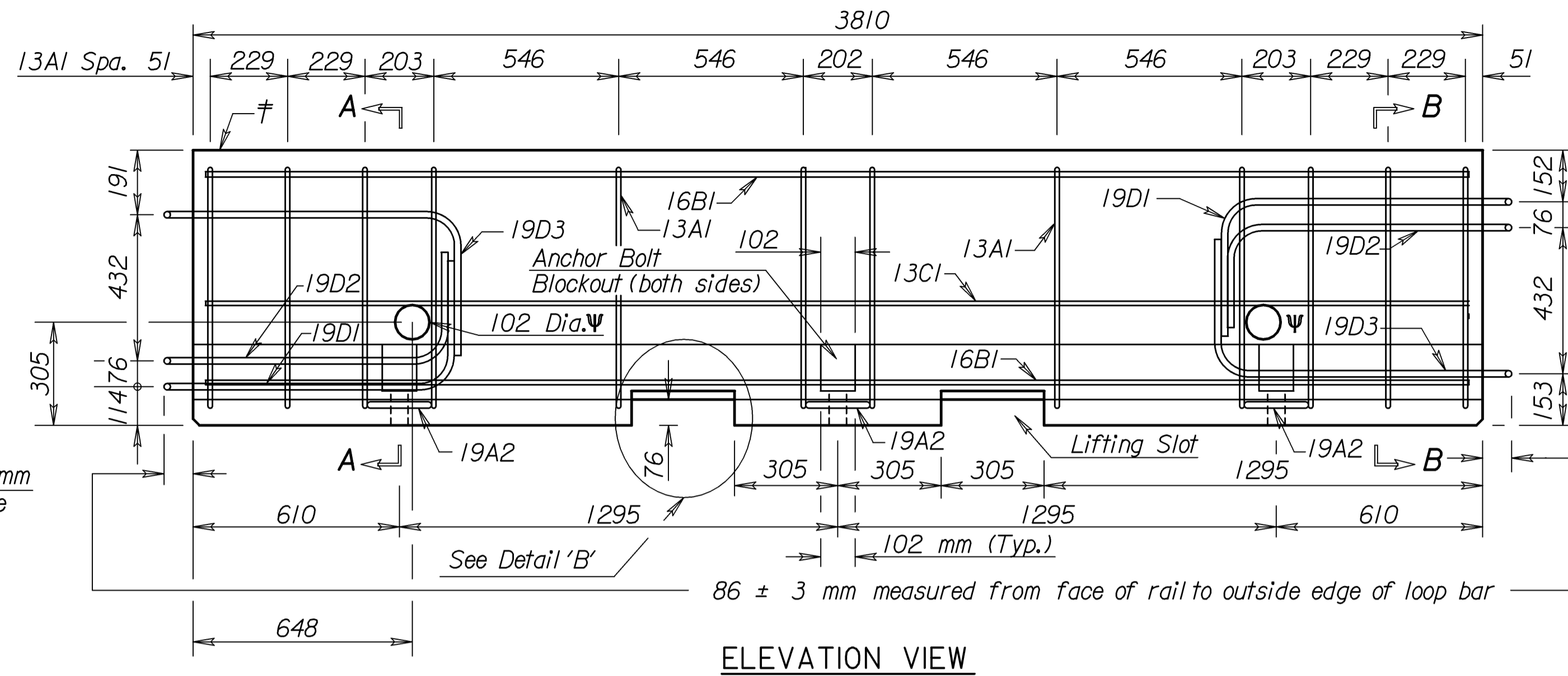
| REINFORCING A615M Gr. 420 | | | | | |
|---------------------------|----------|-------|-------------|-----------|-----------|
| Bar | Bar Size | Shape | No. of Bars | Length mm | Weight kg |
| 13AI | 13 | | 12 | 1834 | 21.9 |
| 19A2 | 19 | | 6 | 898 | 12.0 |
| 16BI | 16 | | 3 | 3708 | 17.3 |
| 13CI | 13 | | 2 | 3708 | 7.4 |
| LOOP ASSEMBLY | | | | | |
| 19D1 | 19 | | 2 | 2565 | 11.5 |
| 19D2 | 19 | | 2 | 2311 | 10.3 |
| 19D3 | 19 | | 2 | 2591 | 11.6 |

Concrete Quantity = 1.0 m³

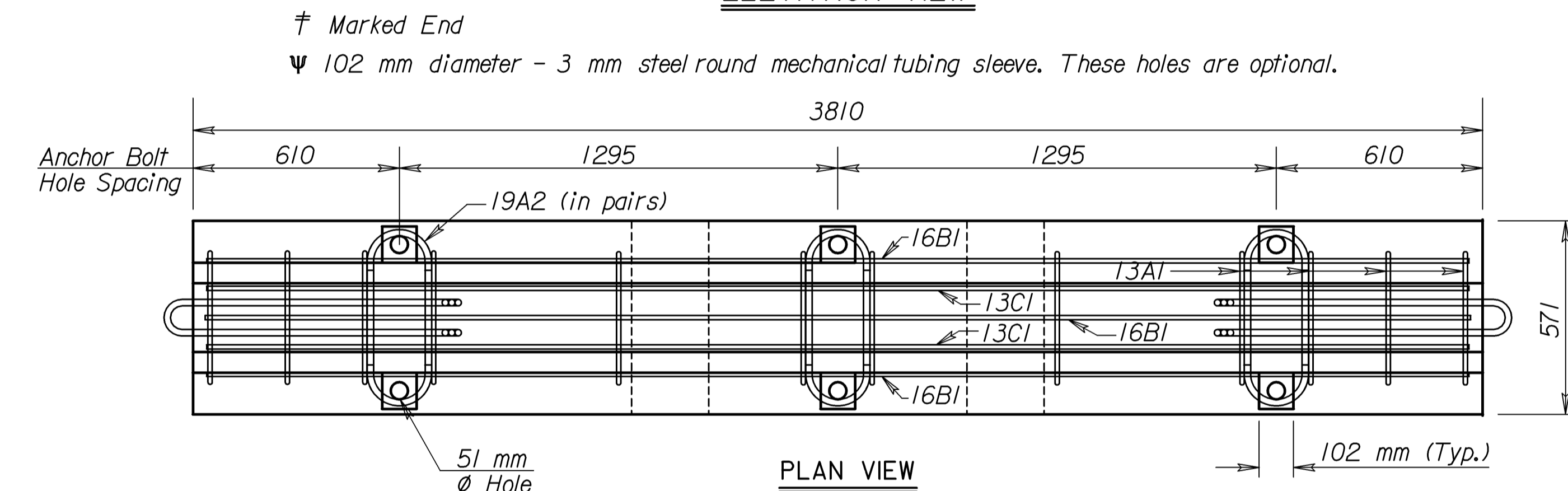
| 3 | | | | | |
|--|------------|------------------------|--------|------------|--|
| 2 | | | | | |
| 1 | | | | | |
| NO. | DATE | REVISIONS | BY | APP'D | |
| KANSAS DEPARTMENT OF TRANSPORTATION | | | | | |
| TEMPORARY CONCRETE SAFETY BARRIER TYPE F3 | | | | | |
| RD642 SI | | | | | |
| FHWA APPROVAL | 9-25-02 | APP'D. James O. Brewer | | | |
| DESIGNED | DETAILED | QUANTITIES | TRACED | M.R.R. | |
| DESIGN CK. | DETAIL CK. | QUAN. CK. | TRACE | CK. R.J.S. | |



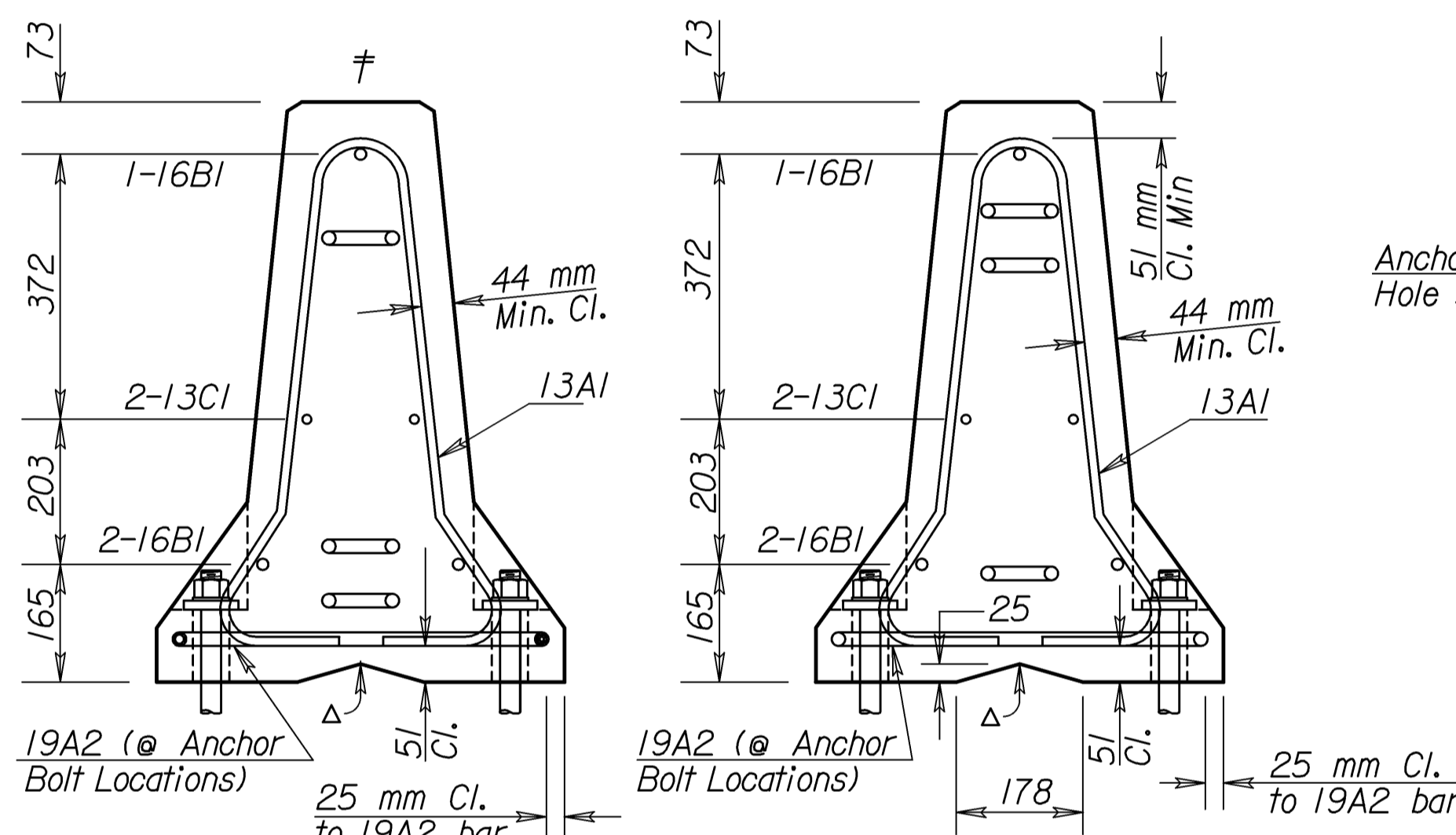
END VIEW



ELEVATION VIEW

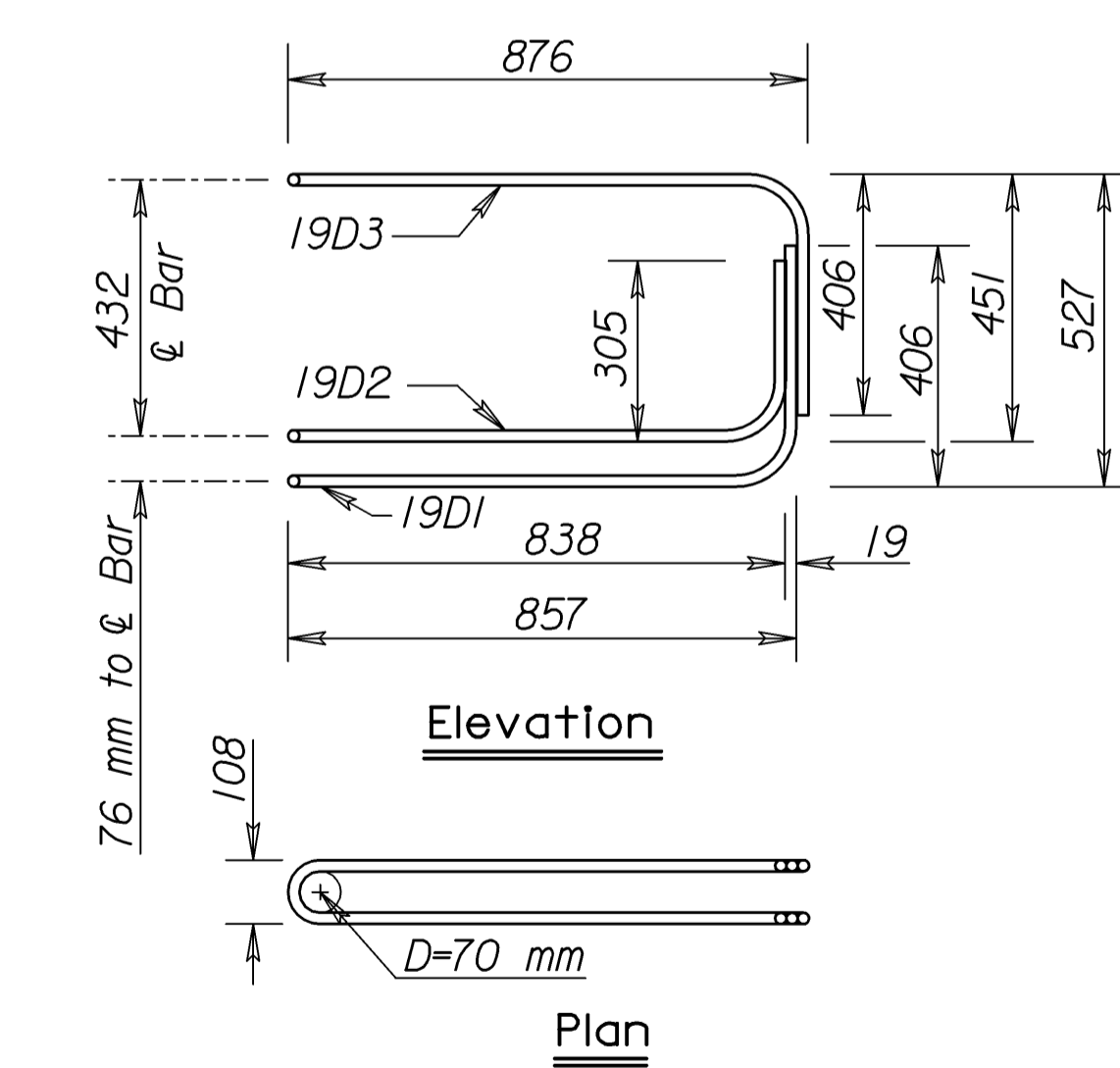


PLAN VIEW



SECTION A-A TYPICAL SECTION (Stirrup Placement)

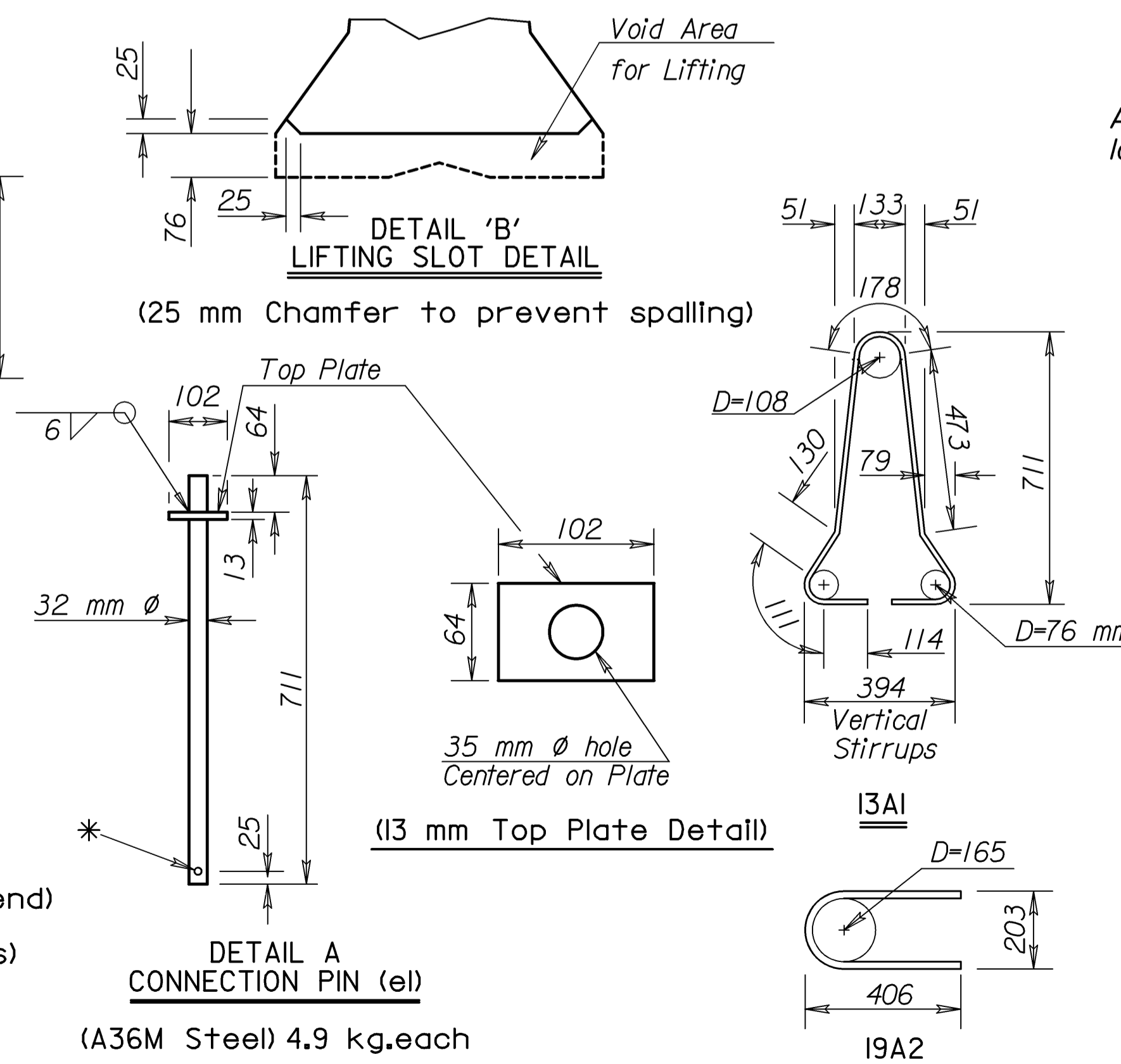
SECTION B-B TYPICAL SECTION (Stirrup Placement)



LOOP BAR ASSEMBLY

(Marked end shown, invert for other end)
(Material as stated in General Notes)

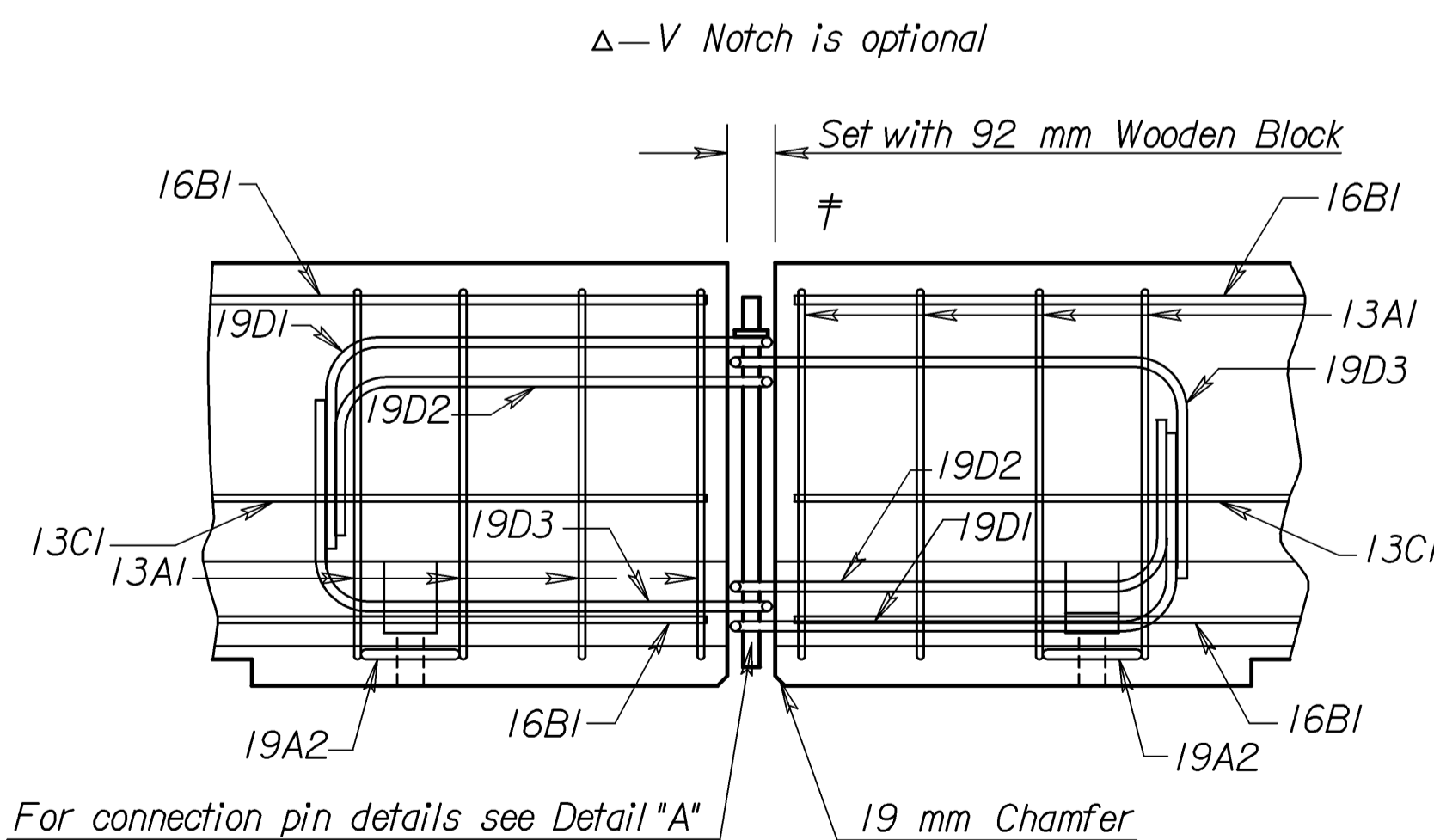
(Dimensions are out to out of bars unless otherwise noted.)



DETAIL A CONNECTION PIN (el)

(A36M Steel) 4.9 kg. each

* 10 mm hole and retainer bolt at Contractors option.



DETAILS OF BARRIER CONNECTION

For connection pin details see Detail "A"