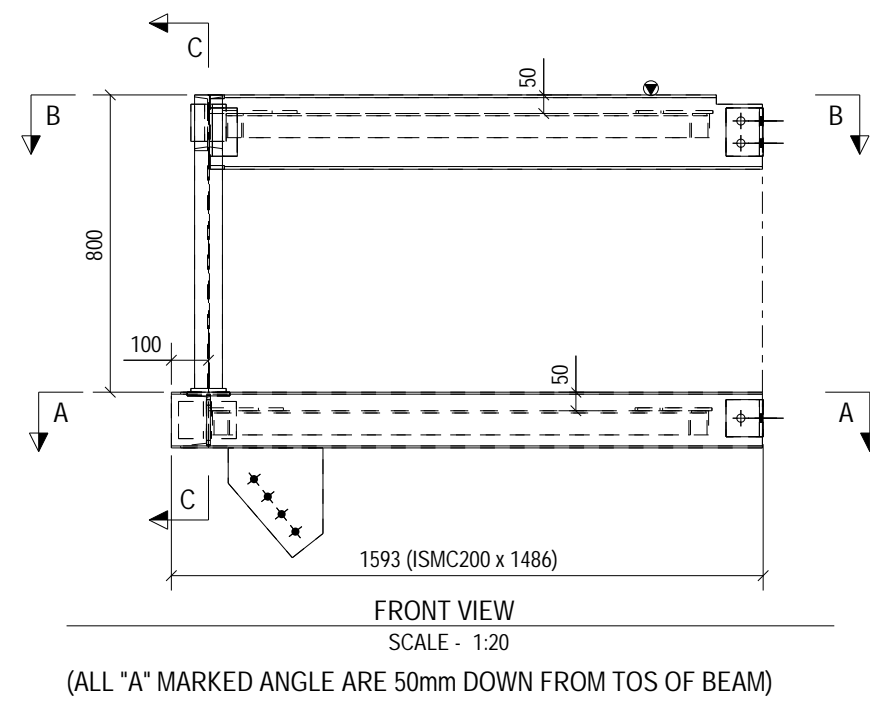
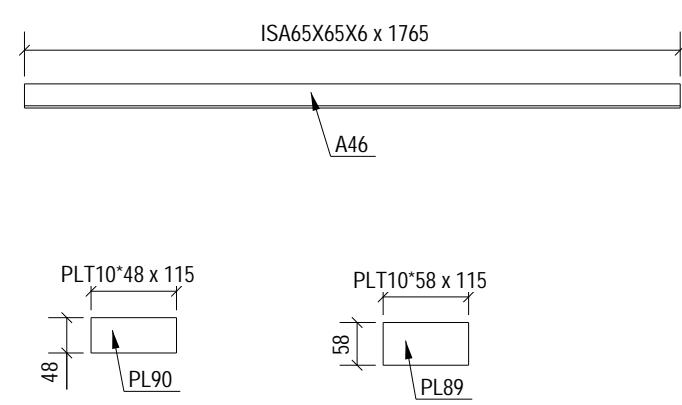
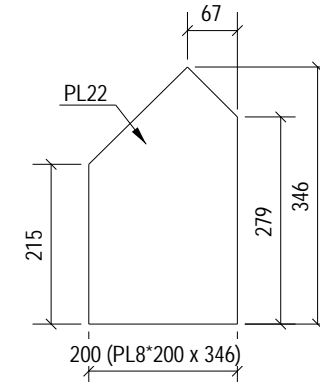
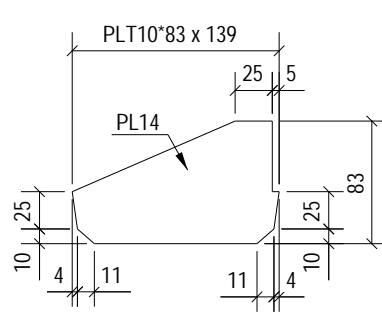
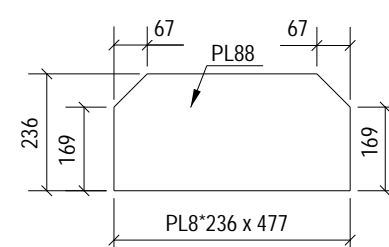
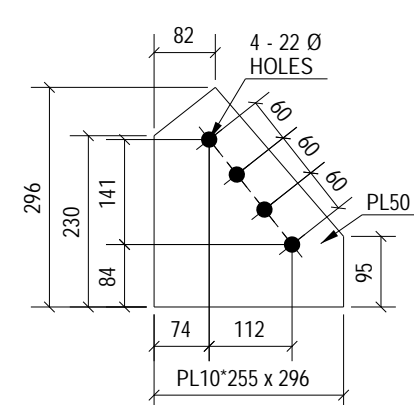
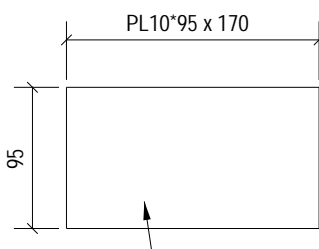
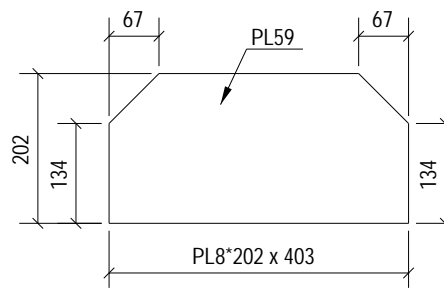
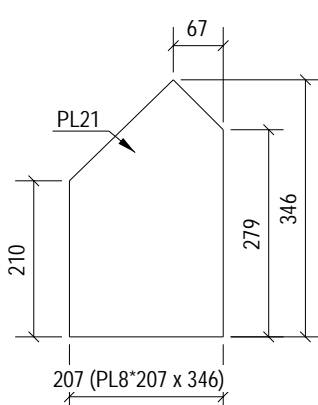
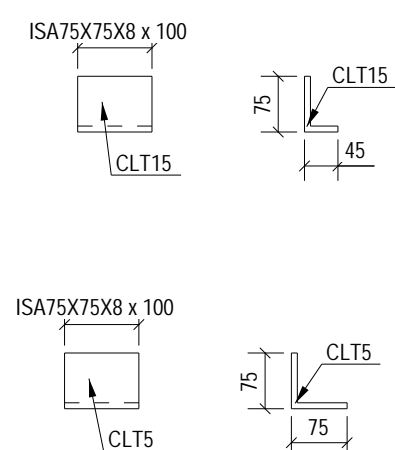
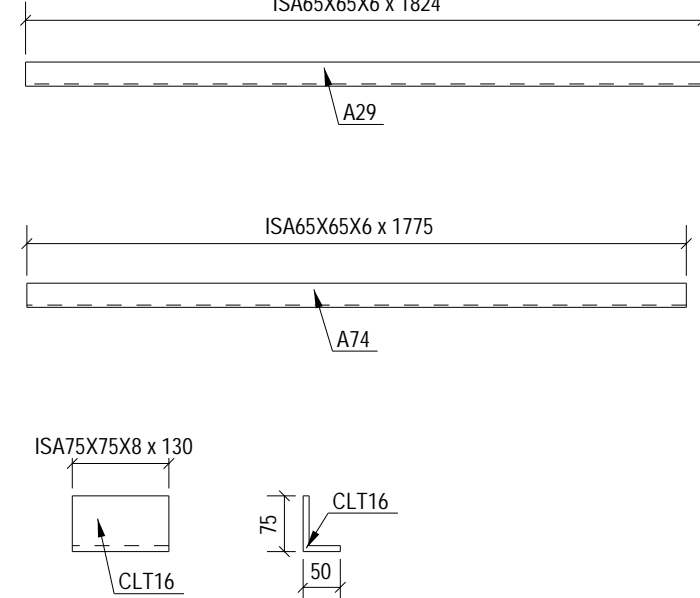
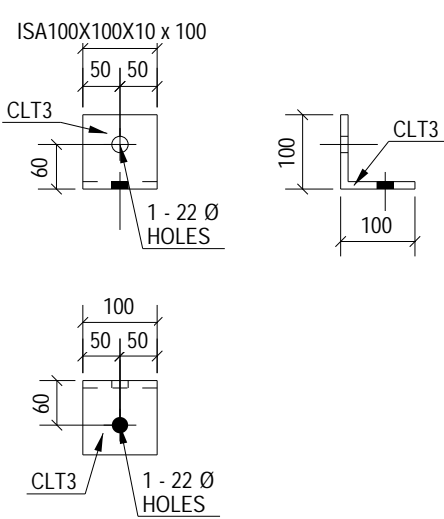
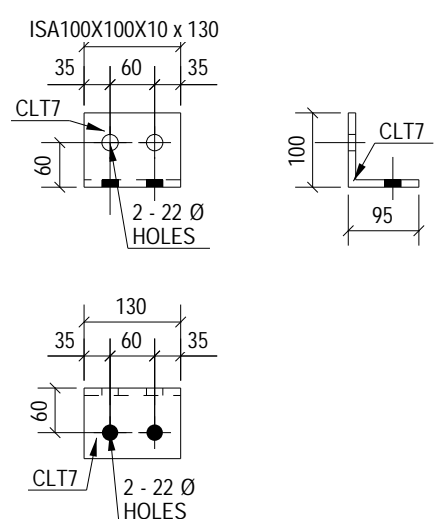
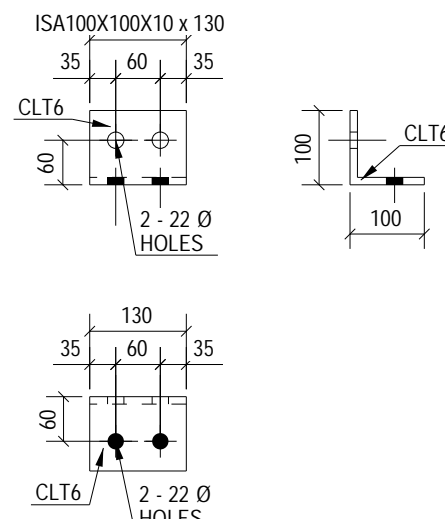
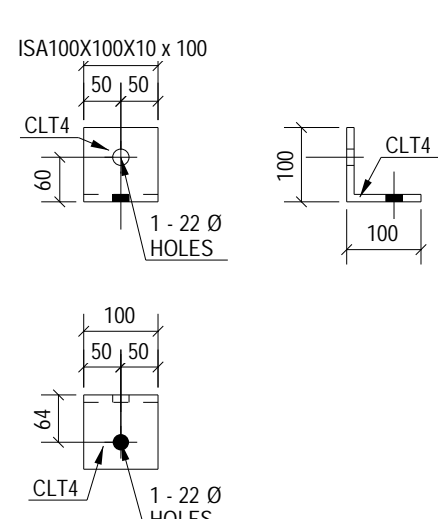
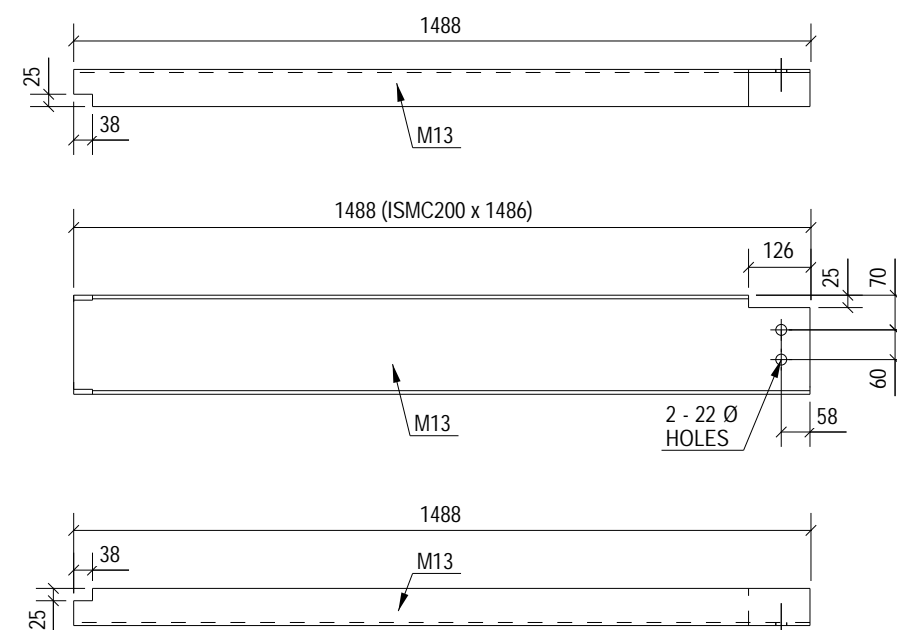
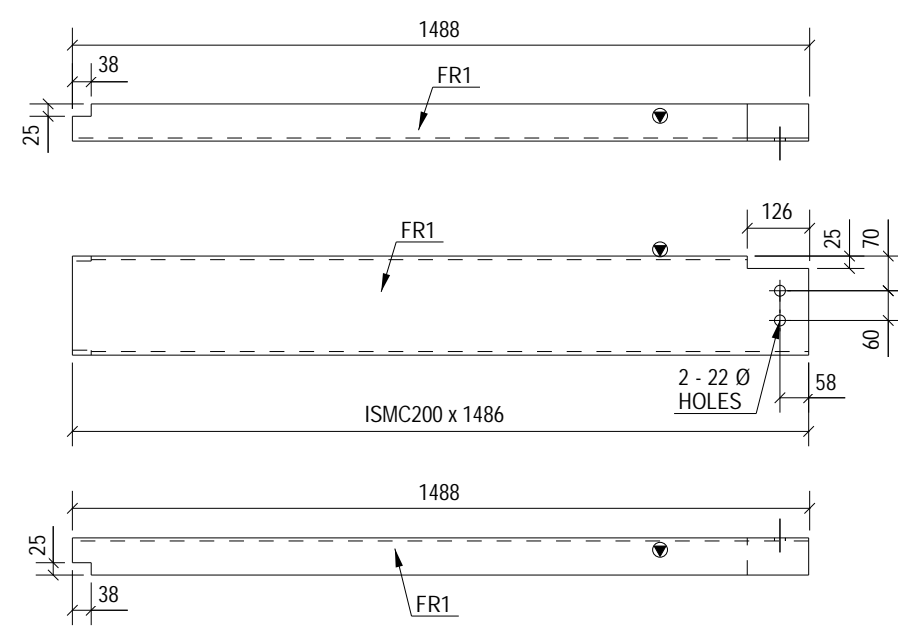
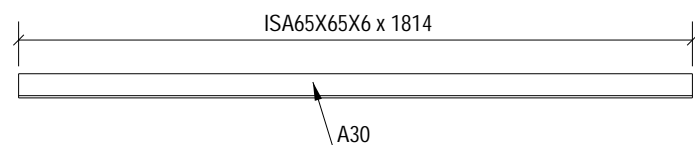
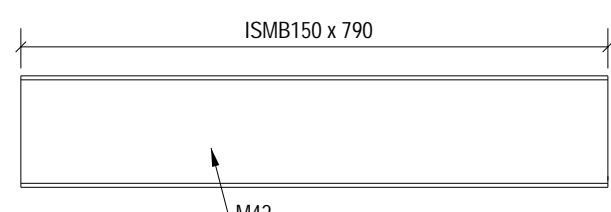
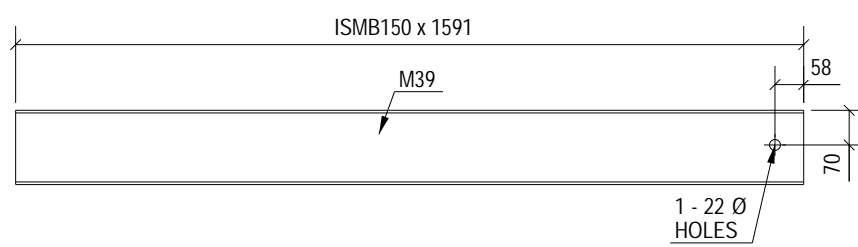
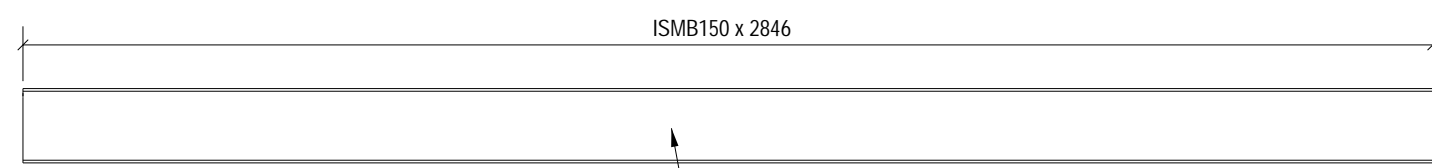
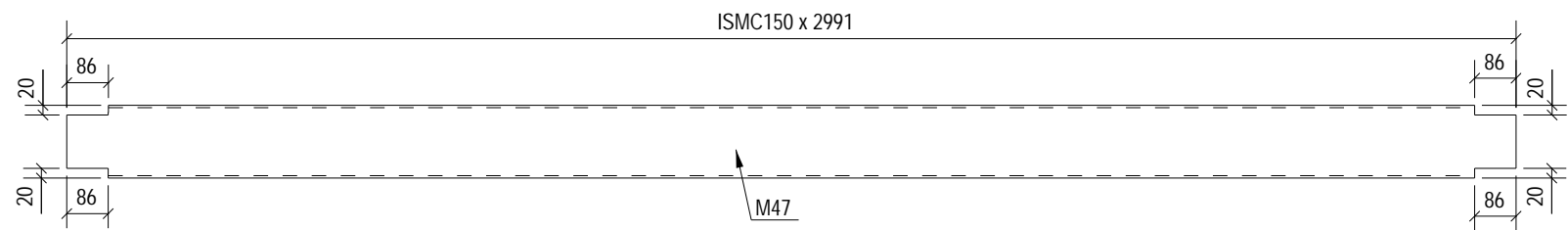
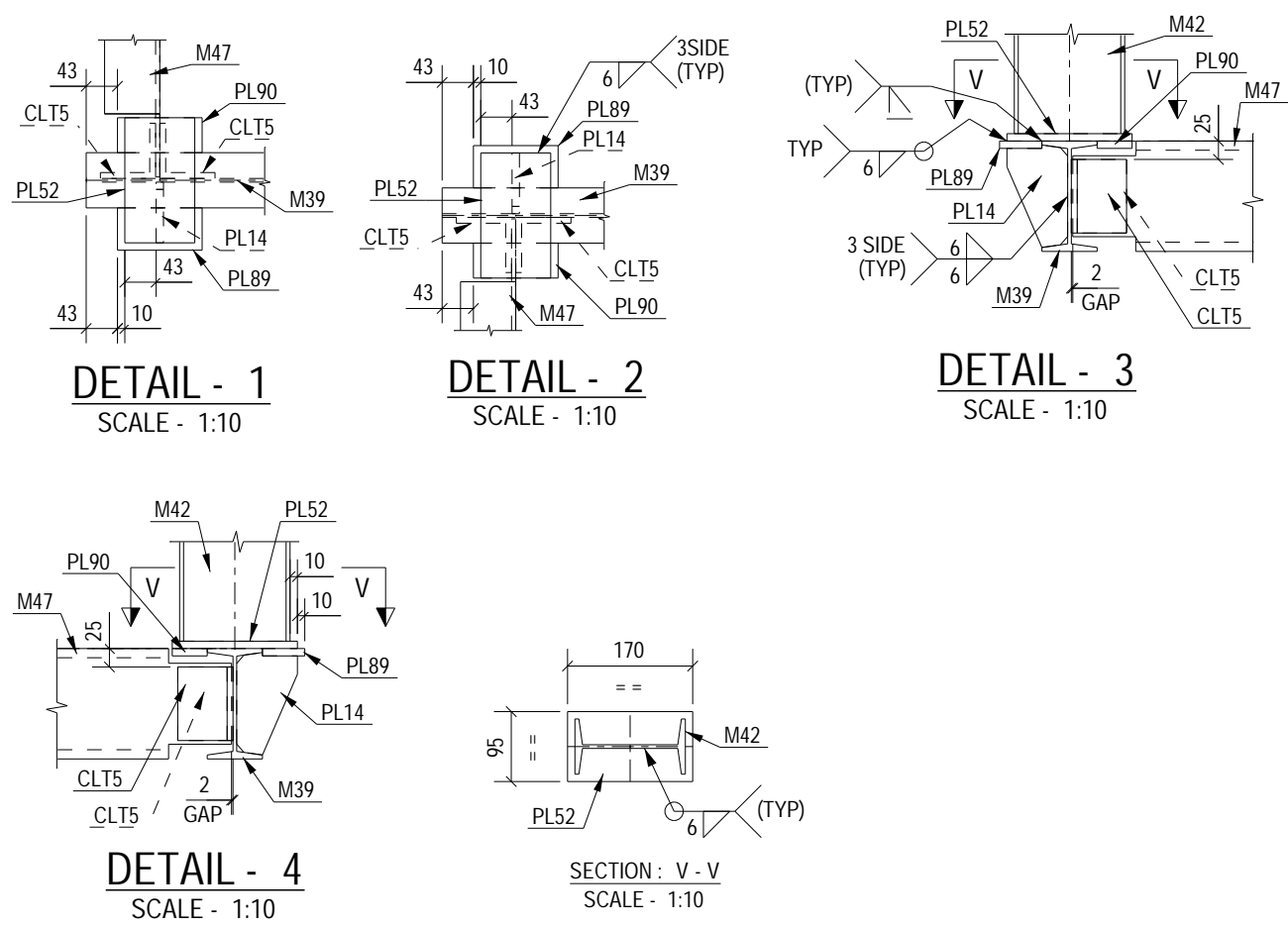
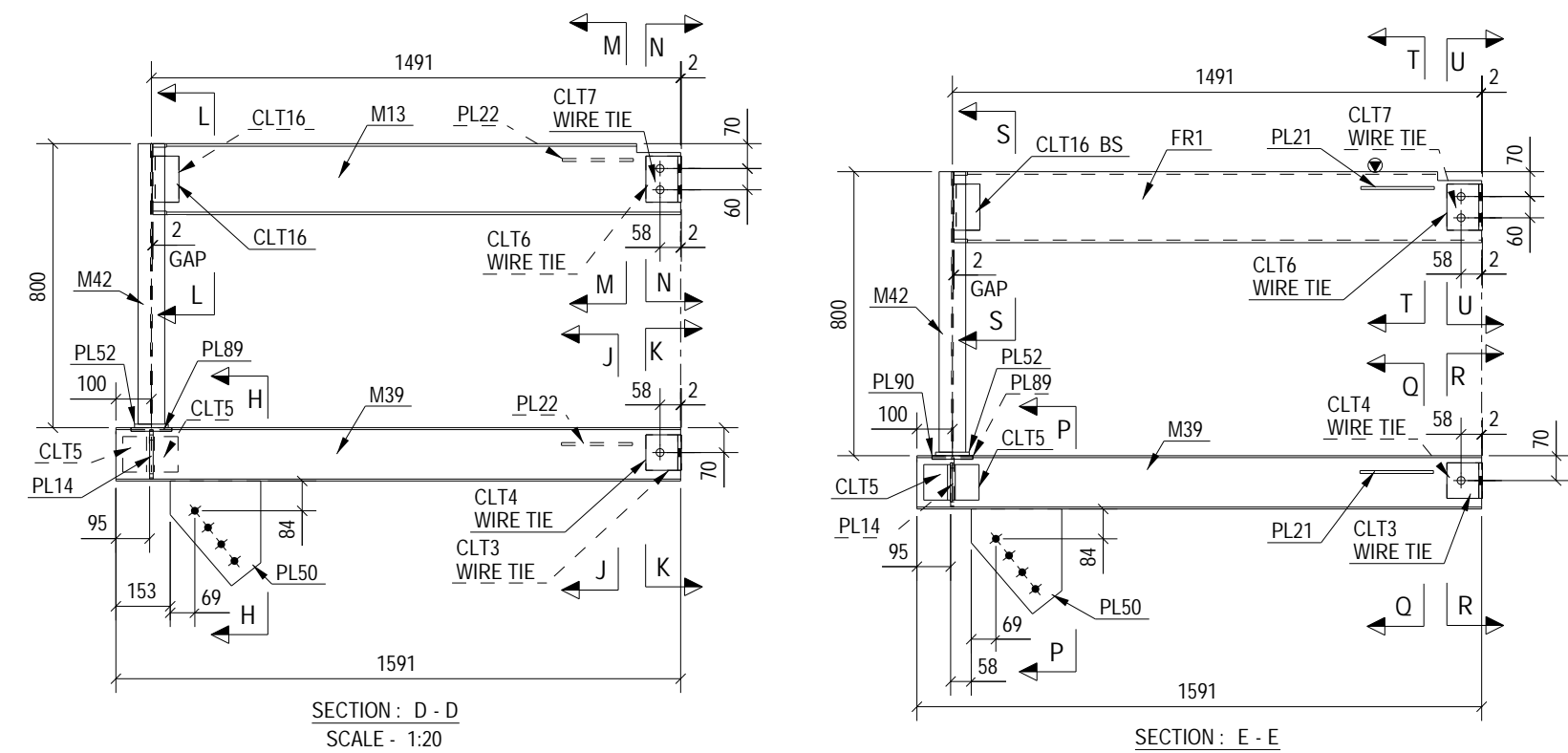
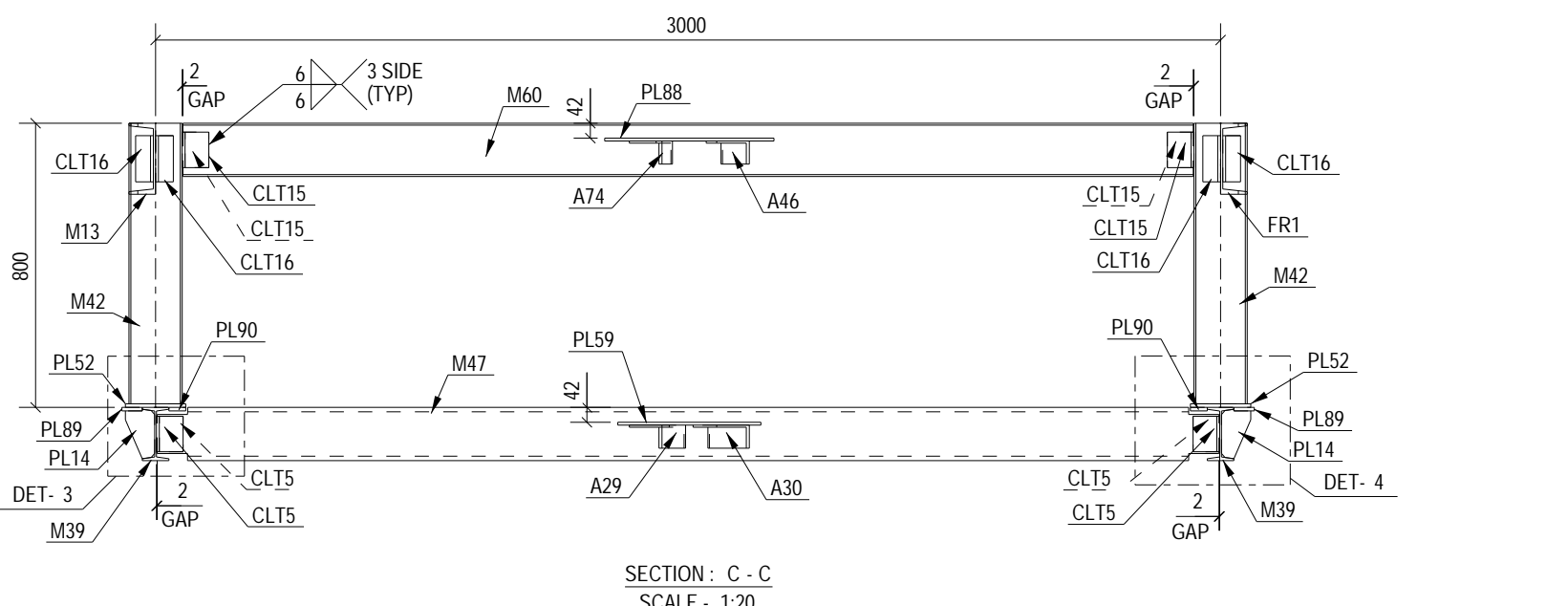
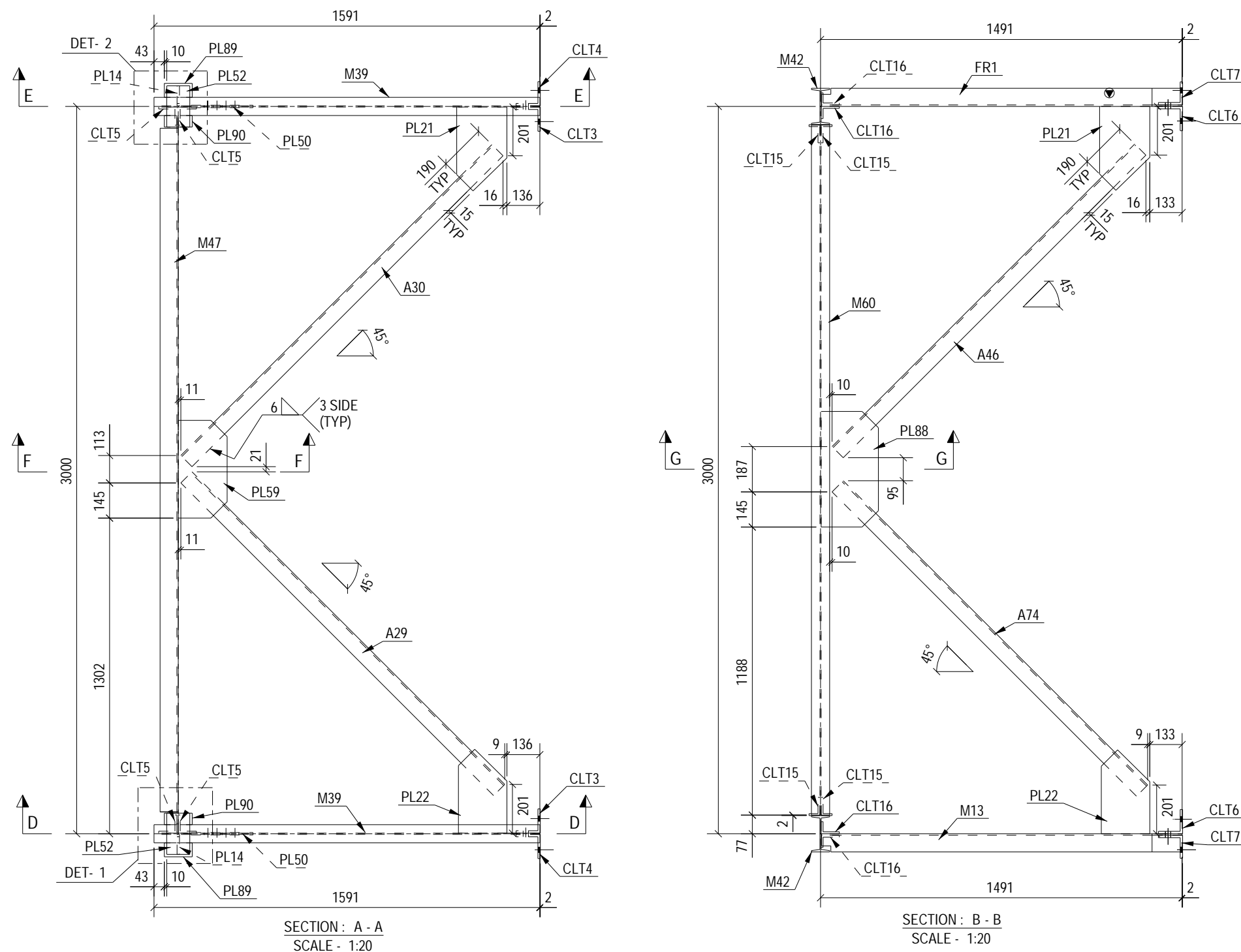





| MARK NO. | GRID LOCATION | |
|----------|---------------|--------|
| FR1 | <7/A2 | +9.500 |



| BOLT LIST FOR ASSEMBLY MKD' FR1 | | | |
|---------------------------------|--------|------------|-----|
| Dia. | Grade | Length(mm) | No. |
| M 20 | 8.8XOX | 55 | 4 |
| M 20 | 8.8XOX | 65 | 6 |

| BILL OF MATERIALS | | | | | | | | | ASSEMBLY MK'D : FR1 | | ASSY QTY : 1 | |
|-------------------|---------------|---------------|-----------|-------------|----------|------------|---------------|----------|---------------------|--|--------------|--|
| Item Mark | Qty./Assembly | Profile Size | Wt./Meter | Length (mm) | Wt./Item | Total Qty. | Total Wt (Kg) | Material | | | | |
| FR1 | 1 | ISMC200 | 22.30 | 1486 | 33.25 | 1 | 33.25 | IS2062 | | | | |
| A29 | 1 | ISA66X65X6 | 5.80 | 1824 | 10.65 | 1 | 10.65 | IS2062 | | | | |
| A30 | 1 | ISA65X65X6 | 5.80 | 1814 | 10.59 | 1 | 10.59 | IS2062 | | | | |
| A46 | 1 | ISA66X65X6 | 5.80 | 1765 | 10.31 | 1 | 10.31 | IS2062 | | | | |
| A74 | 1 | ISA66X65X6 | 5.80 | 1775 | 10.37 | 1 | 10.37 | IS2062 | | | | |
| CLT3 | 2 | ISA100X100X10 | 14.90 | 100 | 1.49 | 2 | 2.98 | IS2062 | | | | |
| CLT4 | 2 | ISA100X100X10 | 14.90 | 100 | 1.49 | 2 | 2.98 | IS2062 | | | | |
| CLT5 | 4 | ISA75X75X8 | 8.90 | 100 | 0.89 | 4 | 3.58 | IS2062 | | | | |
| CLT6 | 2 | ISA100X100X10 | 14.90 | 130 | 1.94 | 2 | 3.88 | IS2062 | | | | |
| CLT7 | 2 | ISA100X100X10 | 14.90 | 130 | 1.94 | 2 | 3.88 | IS2062 | | | | |
| CLT15 | 4 | ISA75X75X8 | 8.90 | 100 | 0.89 | 4 | 3.58 | IS2062 | | | | |
| CLT16 | 4 | ISA75X75X8 | 8.90 | 130 | 1.16 | 4 | 4.65 | IS2062 | | | | |
| M13 | 1 | ISMC200 | 22.30 | 1486 | 33.25 | 1 | 33.25 | IS2062 | | | | |
| M39 | 2 | ISMB150 | 15.00 | 1591 | 23.85 | 2 | 47.70 | IS2062 | | | | |
| M42 | 2 | ISMB150 | 15.00 | 790 | 11.84 | 2 | 23.69 | IS2062 | | | | |
| M47 | 1 | ISMC150 | 16.80 | 2991 | 50.01 | 1 | 50.01 | IS2062 | | | | |
| M60 | 1 | ISMB150 | 15.00 | 2846 | 42.67 | 1 | 42.67 | IS2062 | | | | |
| PL14 | 2 | PLT10*83 | 78.50 | 139 | 0.90 | 2 | 1.80 | IS2062 | | | | |
| PL21 | 2 | PL8*207 | 62.80 | 346 | 4.50 | 2 | 8.99 | IS2062 | | | | |
| PL22 | 2 | PL8*200 | 62.80 | 346 | 4.34 | 2 | 8.69 | IS2062 | | | | |
| PL50 | 2 | PL10*255 | 78.50 | 296 | 5.92 | 2 | 11.83 | IS2062 | | | | |
| PL52 | 2 | PL10*95 | 78.50 | 170 | 1.27 | 2 | 2.54 | IS2062 | | | | |
| PL59 | 1 | PL8*202 | 62.80 | 403 | 5.10 | 1 | 5.10 | IS2062 | | | | |
| PL88 | 1 | PL8*236 | 62.80 | 477 | 7.06 | 1 | 7.06 | IS2062 | | | | |
| PL89 | 2 | PLT10*58 | 78.50 | 115 | 0.52 | 2 | 1.04 | IS2062 | | | | |
| PL90 | 2 | PLT10*48 | 78.50 | 115 | 0.43 | 2 | 0.86 | IS2062 | | | | |
| Total | | | | | | | 345.95 | | | | | |



| | | | | | |
|---|----------|---|----------|---|------------|
| 1 | 0 | ISSUED FOR FABRICATION | YW | AS | 21.12.2024 |
| No | REV MARK | REVISION DESCRIPTION | DRAWN BY | CHKD BY | REV. DATE |
|  | | CLIENT:- NAVIN FLUORINE ADVANCED SCIENCES LIMITED DAHEJ | | | |
|  | | FABRICATOR VISHAL ENGINEERING PVT LTD DAHEJ | |  DETAILING CONSULTANTS :- T ENGINEERING CONSULTANTS PVT LTD VADODARA | |
| PROJECT NAME | | PIPERACK SECTION B | | | |
| DRAWING TITLE | | ASSEMBLY DRAWING OF FR1 | | SHEET No:- 1 of 1 | |
| DESIGN CONSULTANT | | TATA CONSULTING ENGINEERS LIMITED | | JOB No:- - | |
| APPROVED BY | | TATA CONSULTING ENGINEERS LIMITED | | SCALE:- AS SHOWN | |
| DRAWING No | | TCE-13282A-CV-3066-ST-31002-ASS-FR1 | | SHT SIZE:- A1 | |
| | | REV. No:- 0 | | | |

1 REQ'D AS DRAWN MARKED No. FR1