

GENERAL NOTES

All dimensions are shown in mm unless otherwise specified.
drawings are not to be scaled Only figured dimensions are to be used.
All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50mm thick murray blinding on hardcore.
All soils under slabs and around external foundation to be poised for termite control.
Final depth of foundation to be determined on site and to S.Es approval.
All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.
Any discrepancy in dimensions to be reported to the Architect before any work commences.
All the construction works to comply with the structural drawings and the latest ABC standards code of practice, local authority bylaws and regulations.
PV denotes permanent ventilation and must be provided above all windows and doors openings.
Concrete grade 20 (1:2:4 nominal mix)
Maximum aggregate size 20mm
Remove all black cotton soil & backfill with hardcore compacted to specification
Drwg to be read in conjunction with Architectural & service engineer Drwg
Interlocking tiles on two layers of mastic asphalt
R.C. staircase slab to structural design detail
Foundation to lie on a firm hard stratum to structural designers approval
R.C. strip footing to structural designers details
R.C. roof slab to structural design details on r.c. beams on masonry wall to structural details
Stairs case details
Treads 300mm
Risers 150mm
Waist to structural details
900mm min. high metal balustrading
Ventilation blocks to designers approval
Casement window glazed to approval
No cutting of concrete without express approval of the Architect or S.E.
Electrical
all conduits must be laid before plastering & all testing Completed before plastering.
Mechanical
Drains passing beneath building and driveways to be cased in concrete 150mm thick.
All underground foul and waste drain pipes shall be of p.v.c. & to comply with BS 5225.
All inspection chamber covers & framing shall be cast iron & to comply with BS 497 Table 2 Grade A
The storm water drains to comply with BS 556
Minimum slope in the drain pipes to be 1%
Dustbin cubicles
all dustbin cubicles to be protected against rain and animals.

TABLE FOR SEPTIC

| CAPACITY (LITRES) | NO. OF PERSONS | DISBURGING INTERVAL (Yrs) | DIMENSIONS IN MILLIMETERS | | | | | | |
|-------------------|----------------|---------------------------|---------------------------|------|------|------|------|------|------|
| | | | A | B | C | D | E | F1 | F2 |
| 3000 | 10 | | 800 | 1000 | 1000 | 3000 | 800 | 1500 | 1400 |
| 6000 | 20 | | 800 | 1400 | 1200 | 3600 | 1400 | 1500 | 1400 |
| 9000 | 30 | | 800 | 1400 | 1200 | 3600 | 1600 | 1500 | 1300 |
| 12000 | 40 | | 800 | 1600 | 1400 | 4000 | 2000 | 1500 | 1300 |
| 15000 | 50 | | 800 | 1600 | 1400 | 4000 | 2400 | 1500 | 1200 |

TABLE FOR SOAK PIT

| TYPE | NUMBER OF USERS | DEPTH (H) METERS | DIA (D) METERS | AREA OF ABSORPTION |
|------|-----------------|------------------|----------------|--------------------|
| 1 | 25 | 5 | 3.25 | 59.35 |
| 2 | 50 | 7 | 3.6 | 89.30 |
| 3 | 100 | 10 | 5.0 | 196.25 |

NOTES:

- ALL DIMENSIONS ARE IN MM
- THE FILLING OF BRICK BATS IN SOAKPIT SHALL BE DONE SIMULTANEOUS WITH CONSTRUCTION OF BRICK WALL AS WORK PROGRESSES
- C.I. PIPE SHALL CONFIRM TO IS 3456
- DEPTH AND DIA. CAN BE SUITABLY ADJUSTED TO GIVE THE ABSORPTIVE AREA DEPENDING UPON THE SUBSOIL WATER TABLE.
- BOTTOM OF THE SOAKPIT SHOULD NOT BE LESS THAN 600MM ABOVE THE SUBSOIL WATER



KenGen

PROJECT:

CENTRAL MECHANICAL WORKSHOP

DESIGNED BY : P.S ODIPO

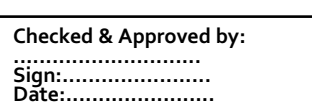
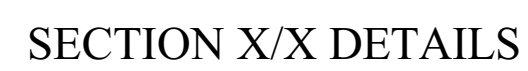
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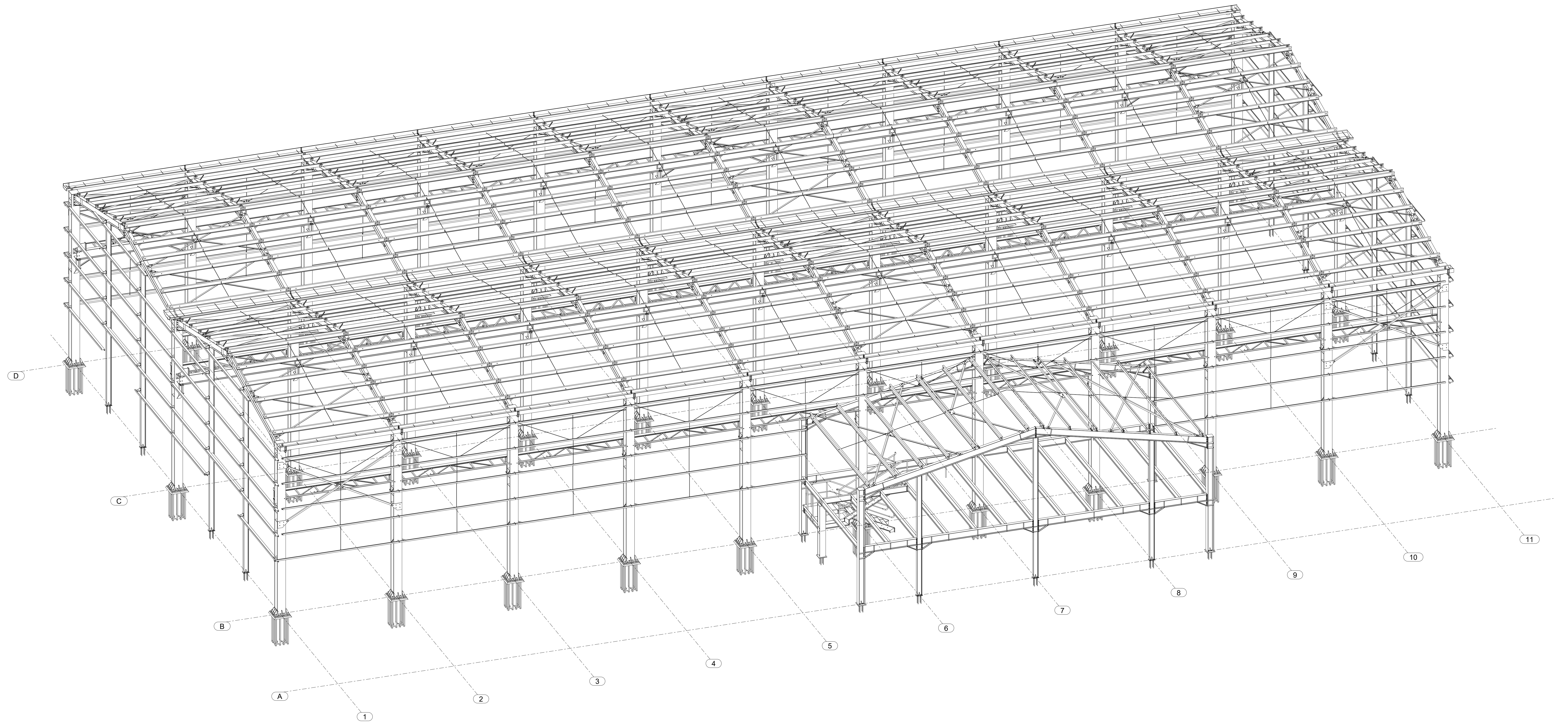
Sheet No: 01 OF 01

Drawn by: Arch/023/D/123532390

Revision:


Checked & Approved by:
Sign: _____
Date: _____





ISOMETRIC VIEW

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|-----|--|------|--|---------------------|--|------------|--|
| 2 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| 1 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| Rev | | Name | | Project Director | | Date | |

PROJECT:  **KenGen**

TITLE: **ISOMETRIC VIEW
CENTRAL MECHANICAL
WORKSHOP**

SCALE: 1:75

CHECKED: **p.s.o**

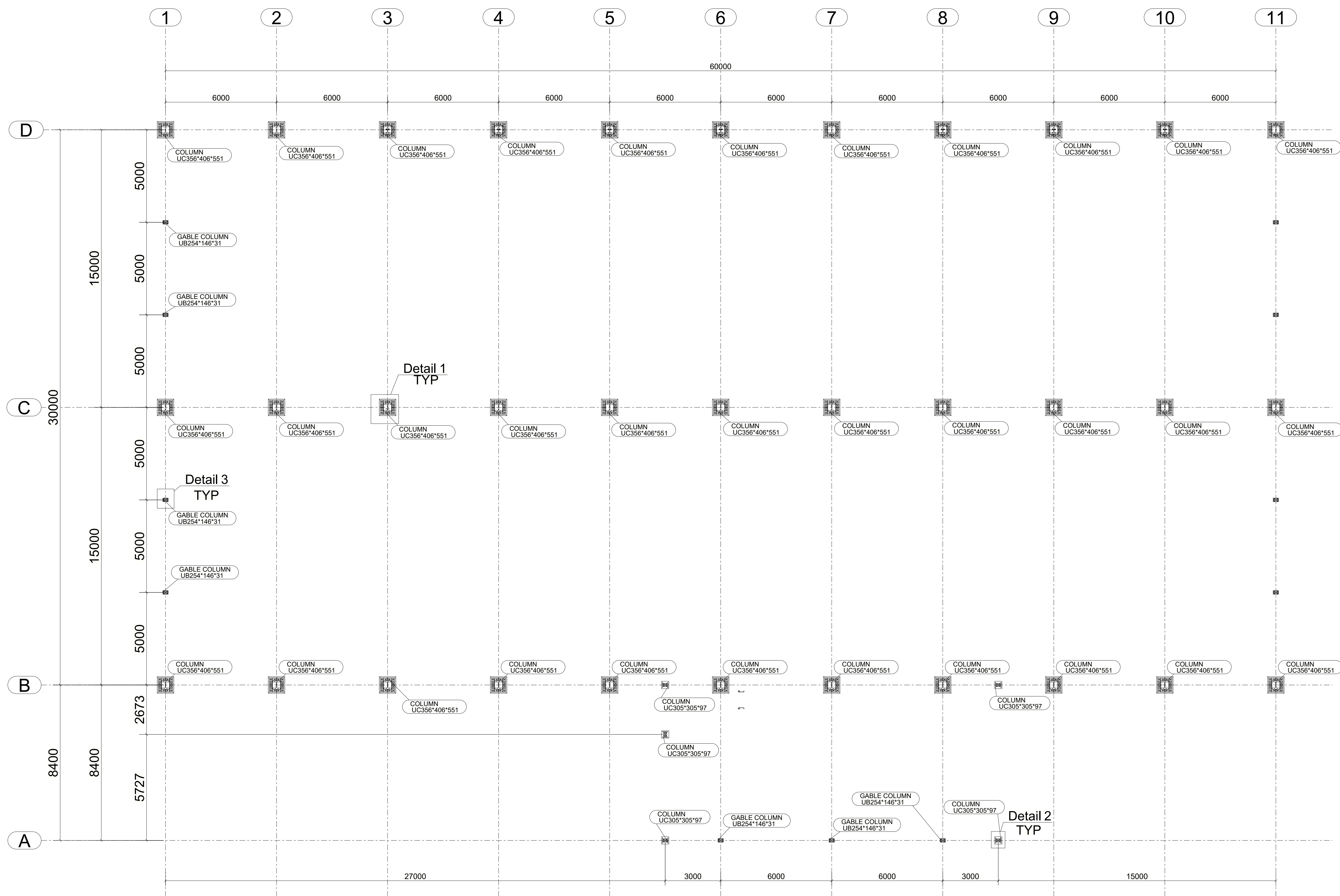
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PROJECT No: **DESIGNED: PETER OMBI**

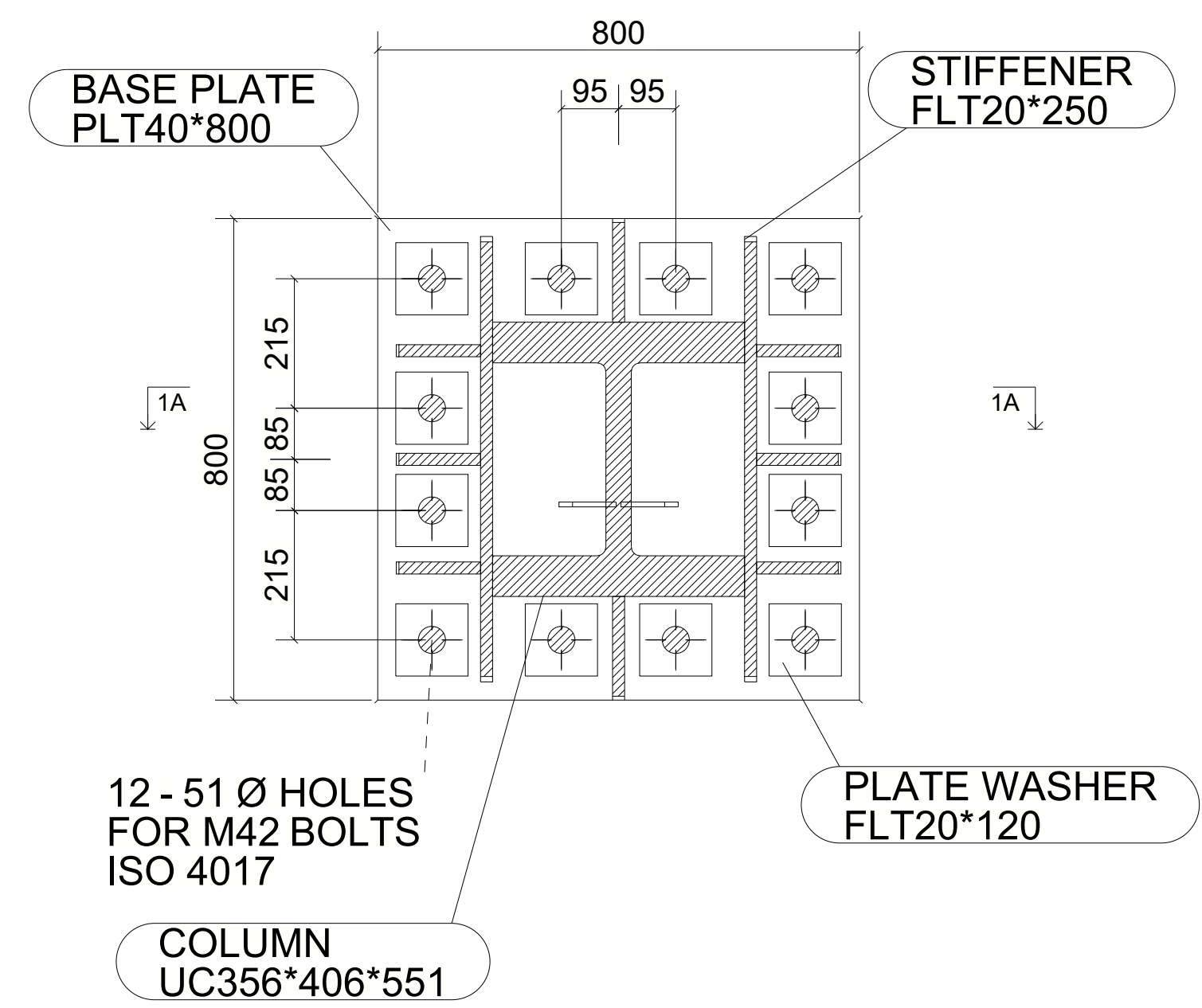
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DATE: **p.s.o**

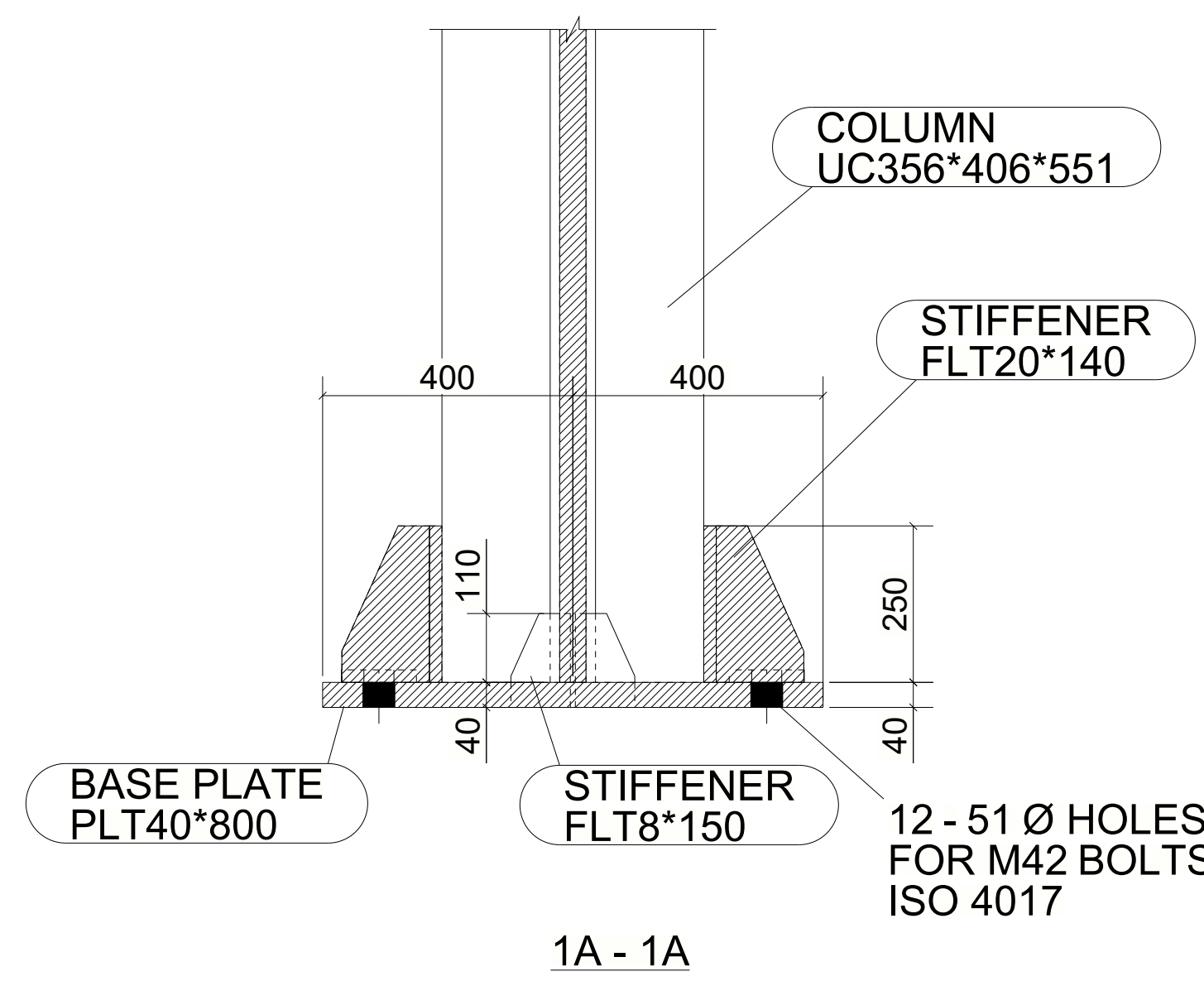
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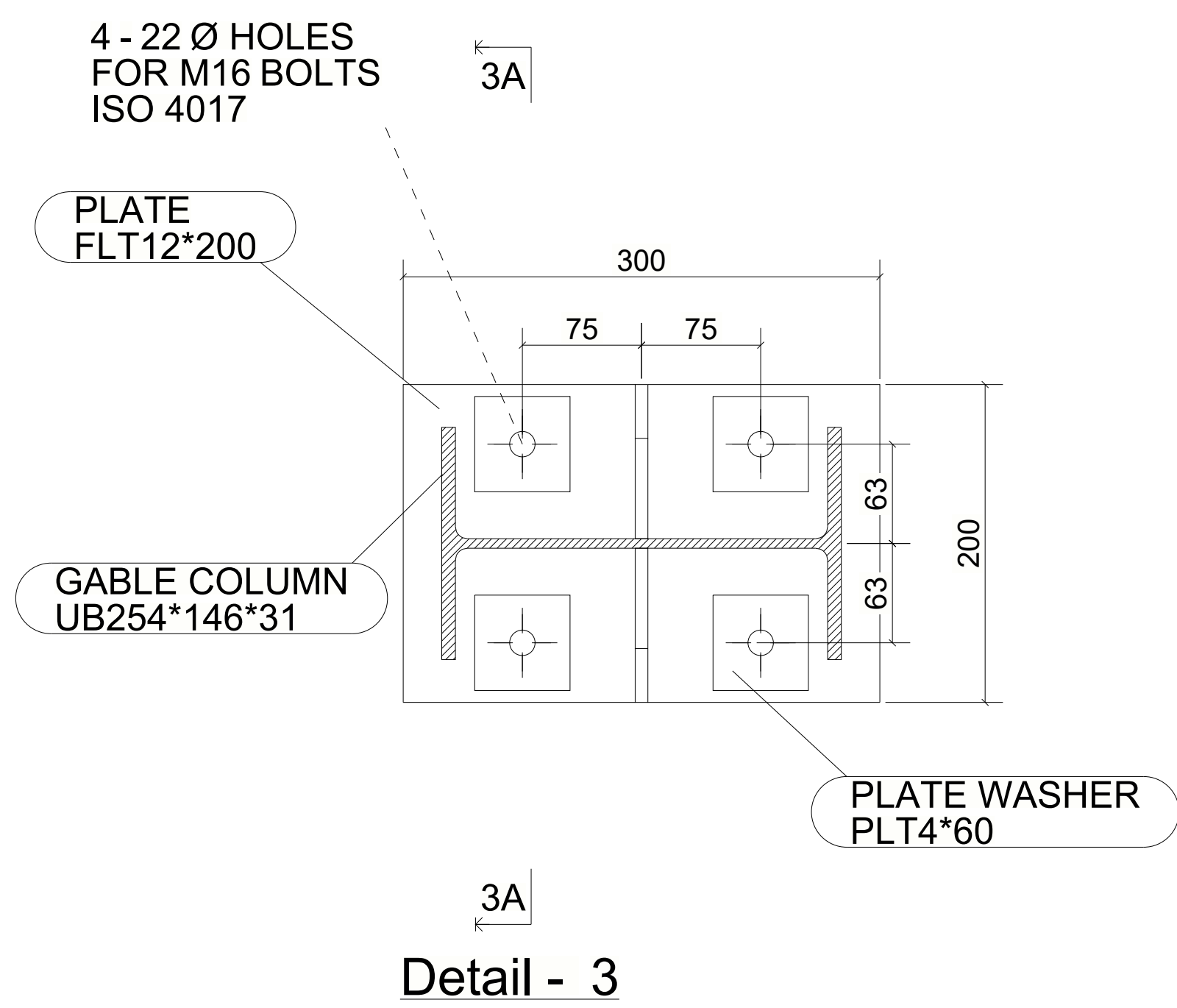
BASE PLATE PLAN AT EL+0.000(B.O.BP)



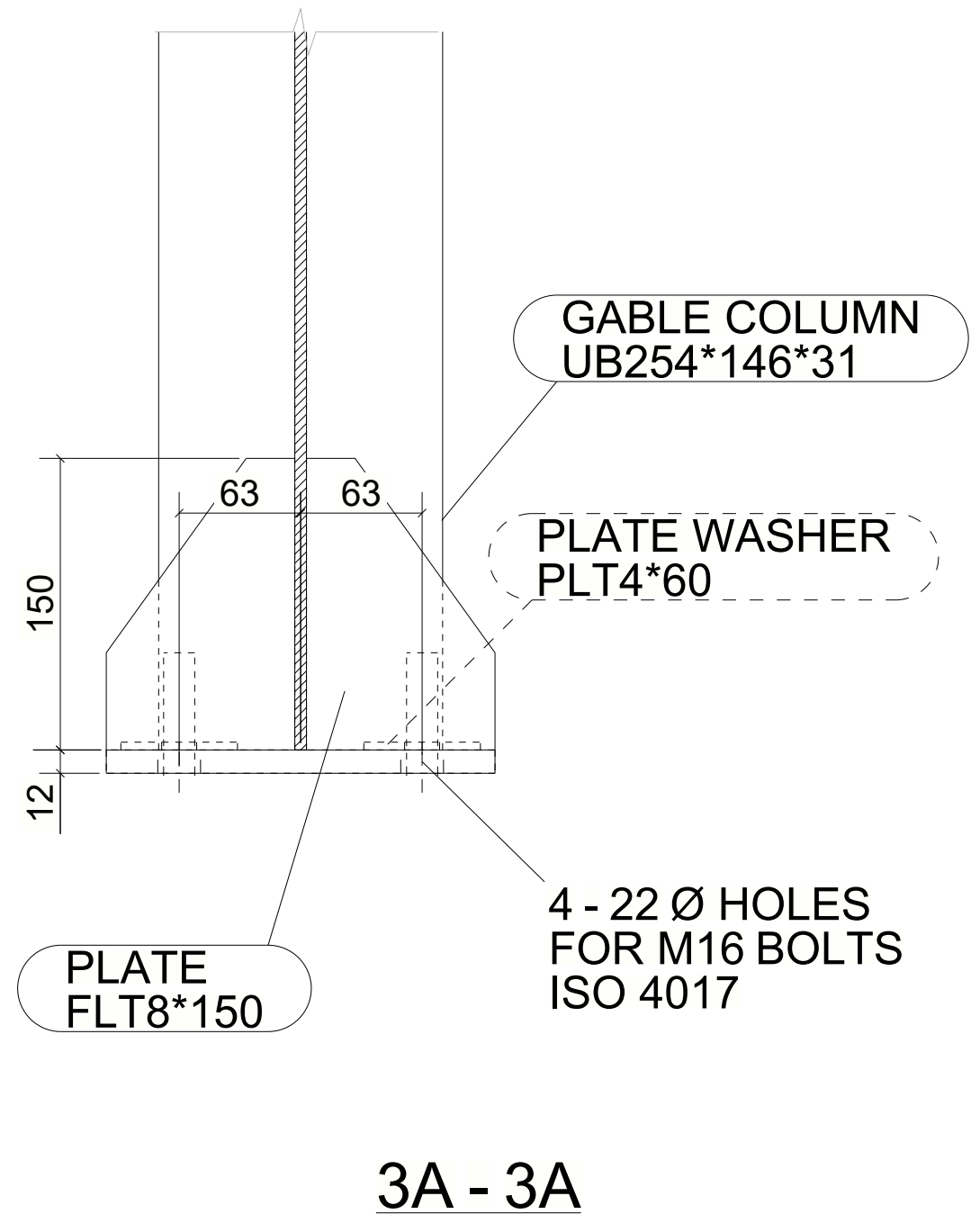
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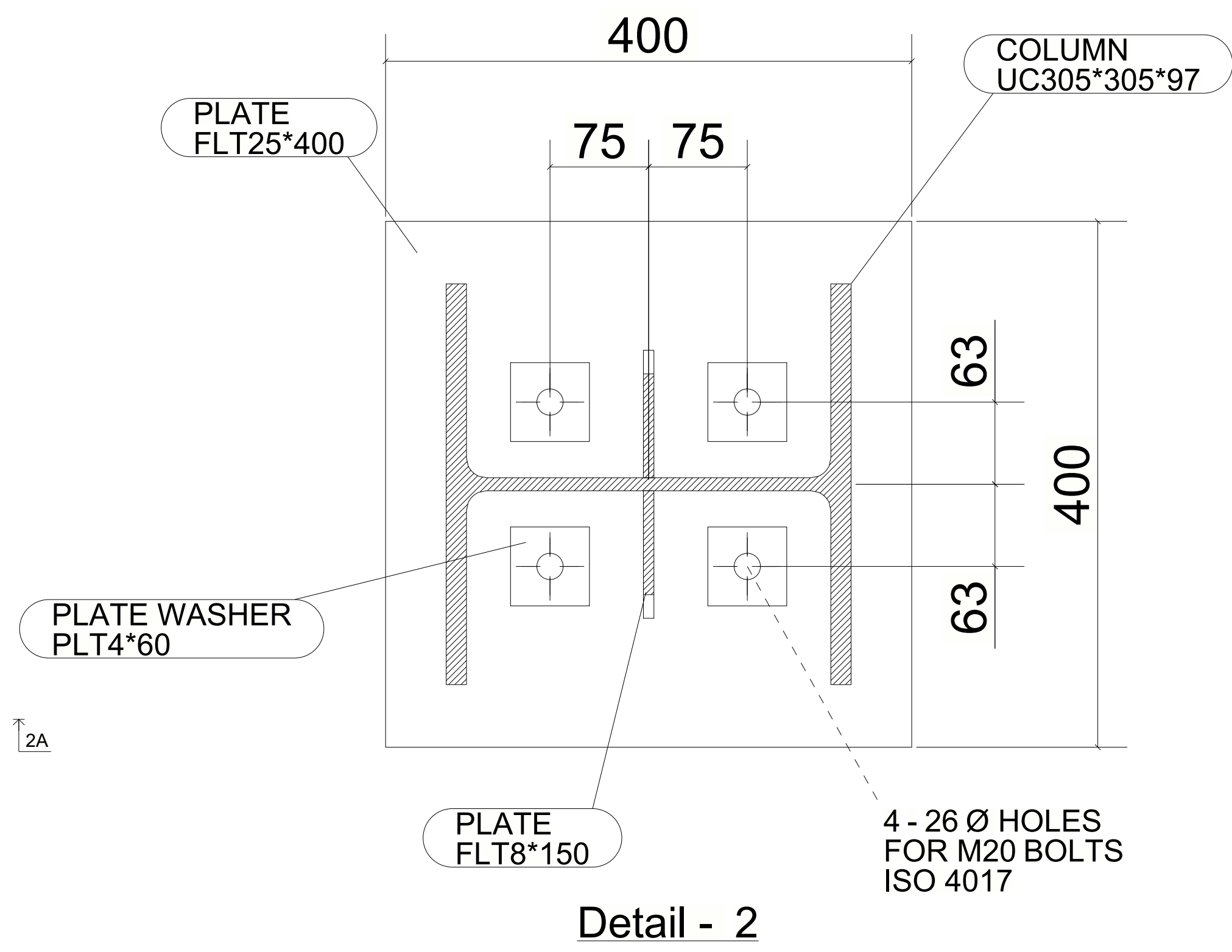
1A - 1A



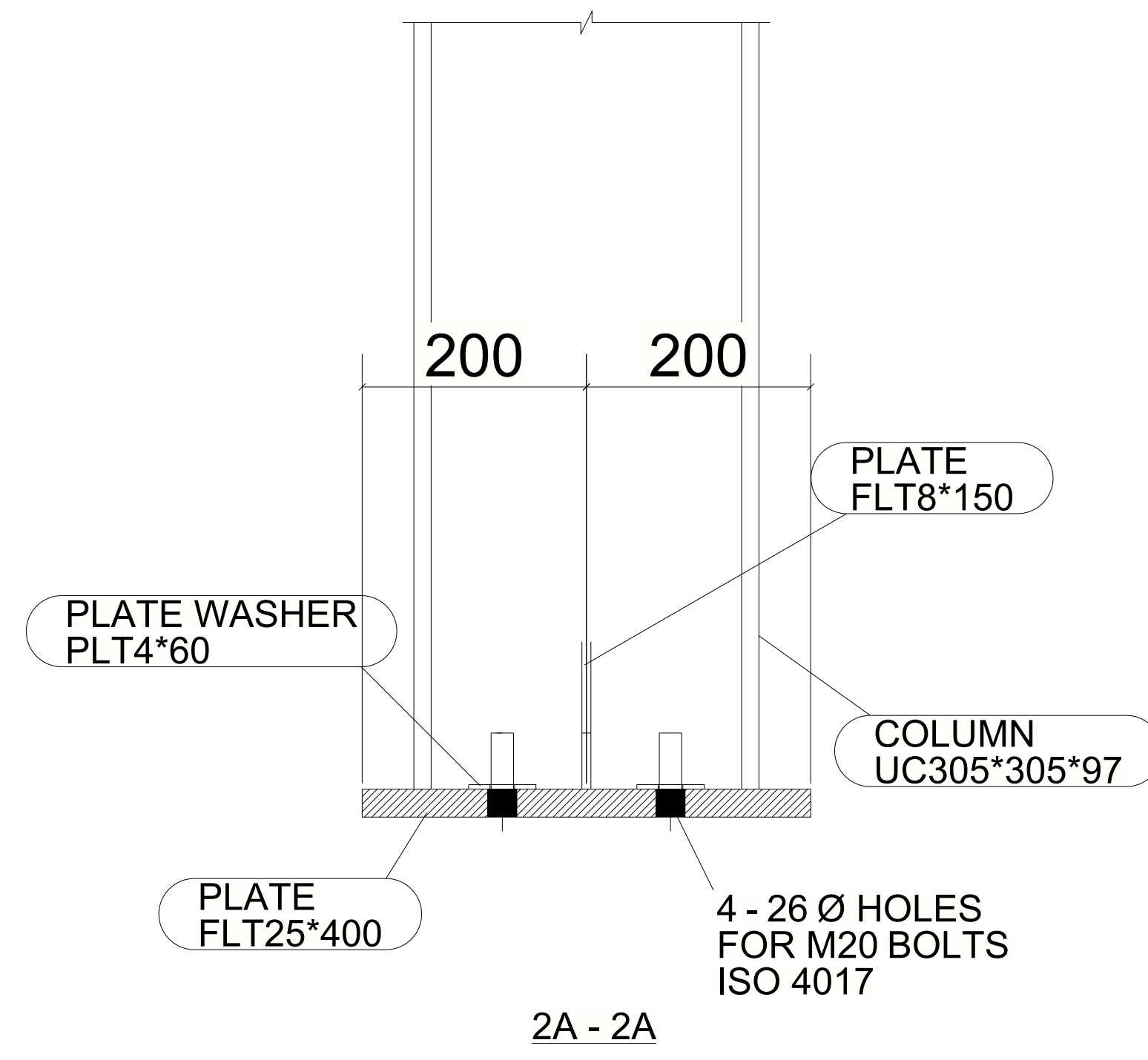
Detail - 3



3A - 3A

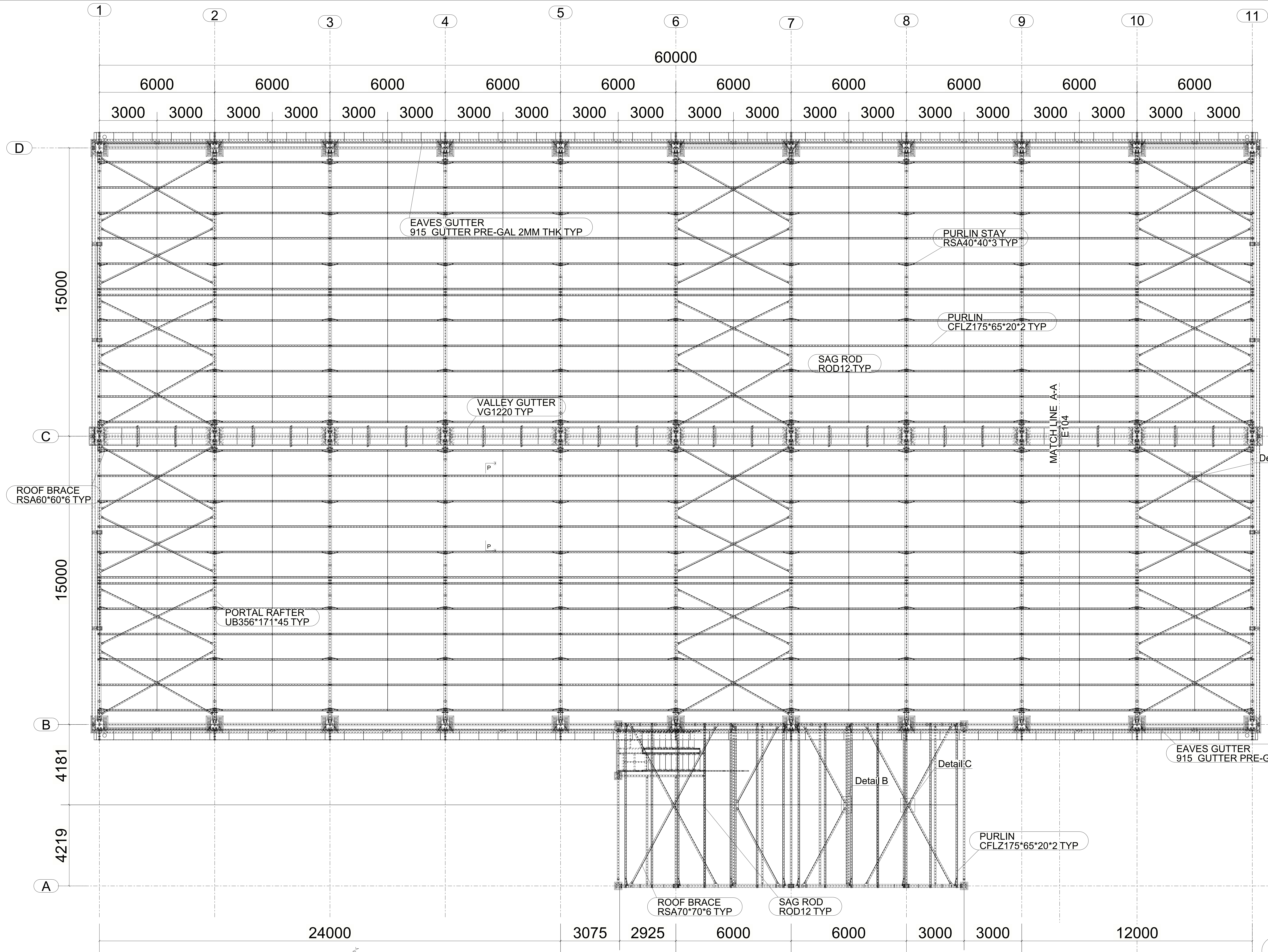


Detail - 2

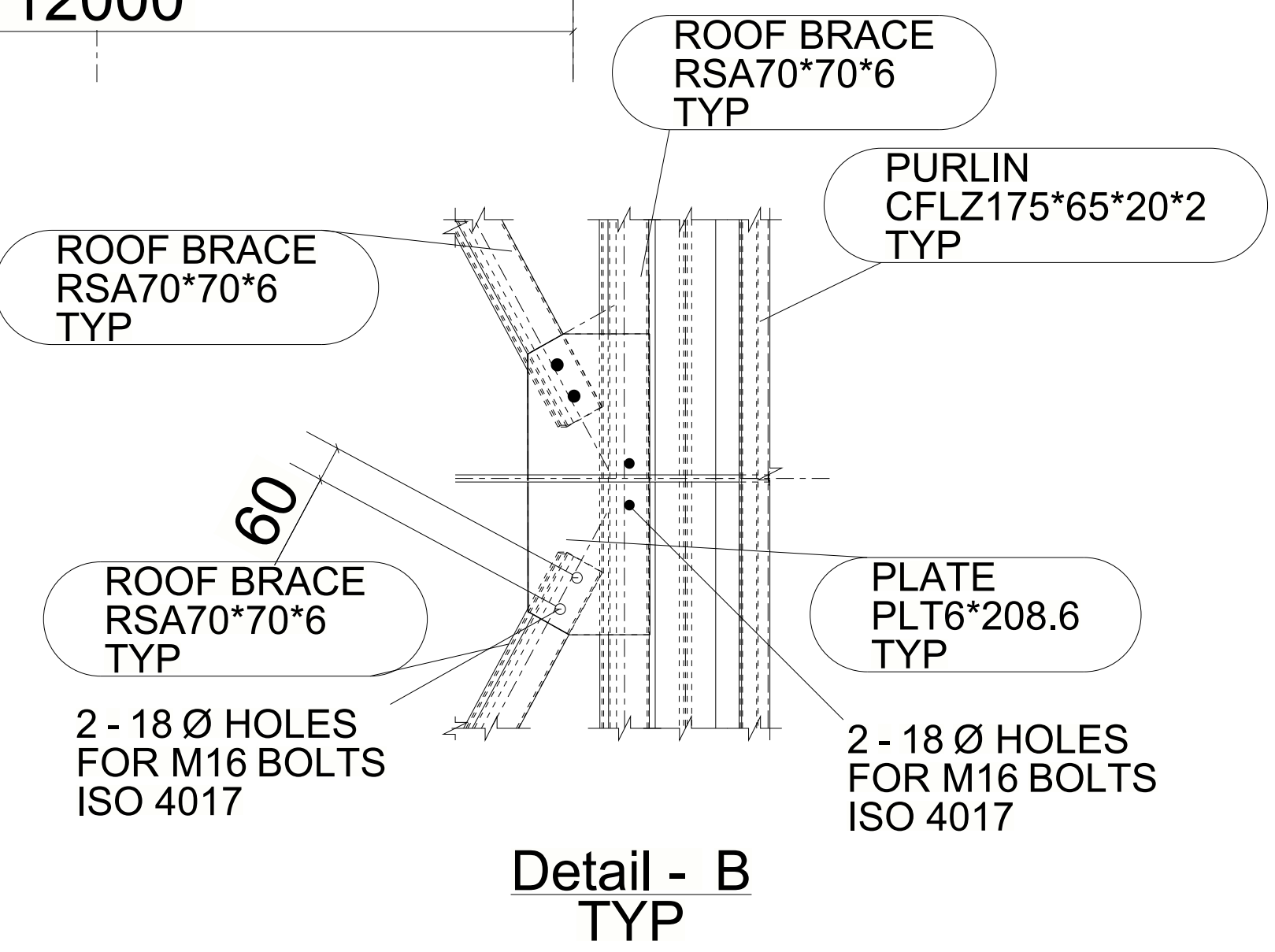
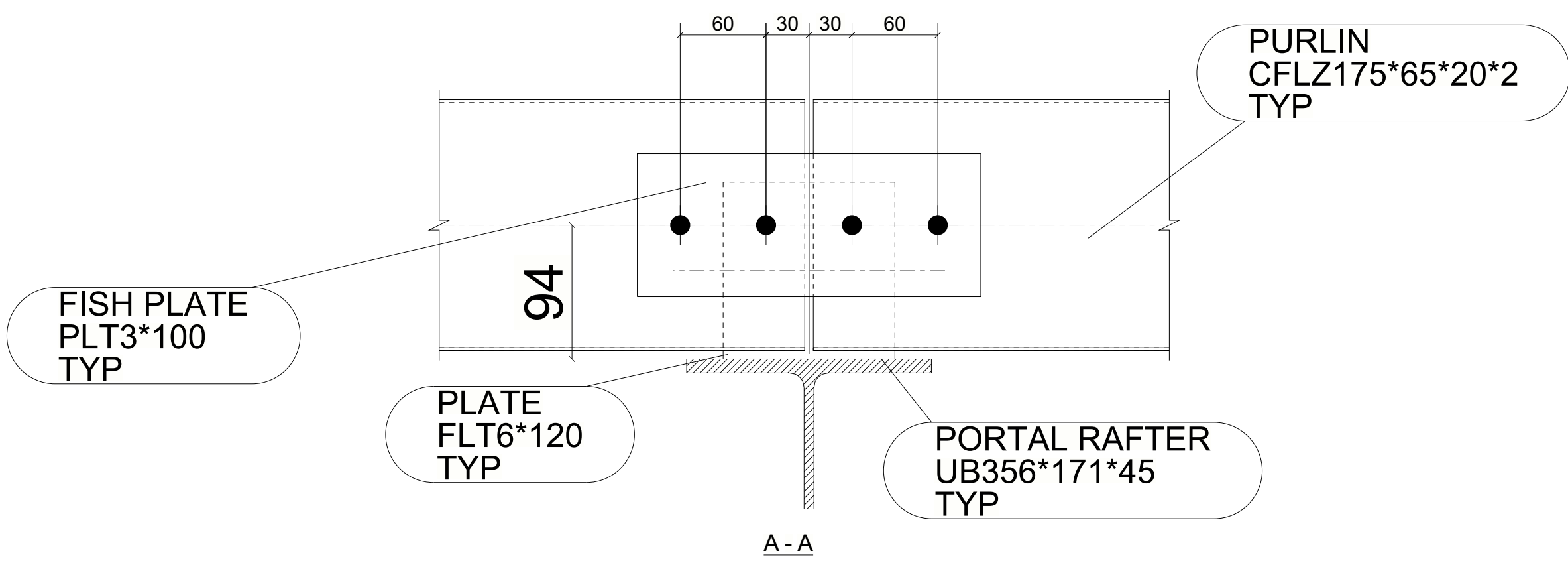
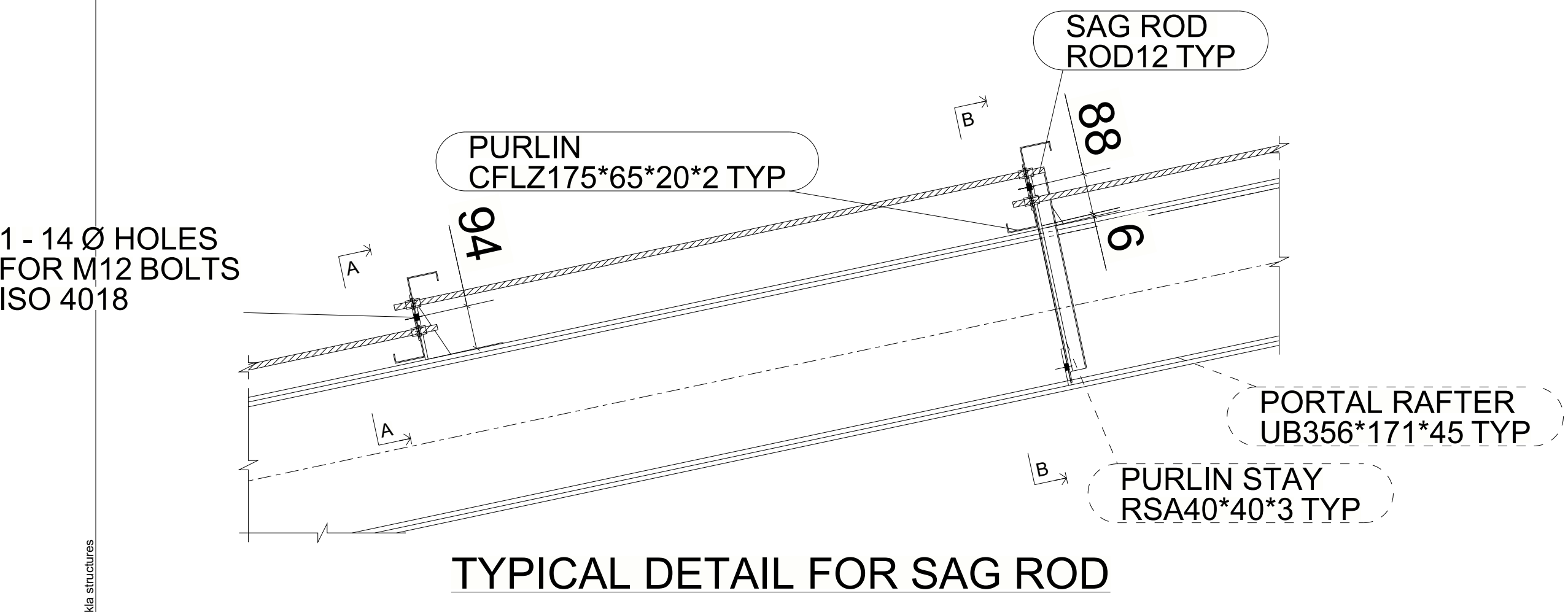
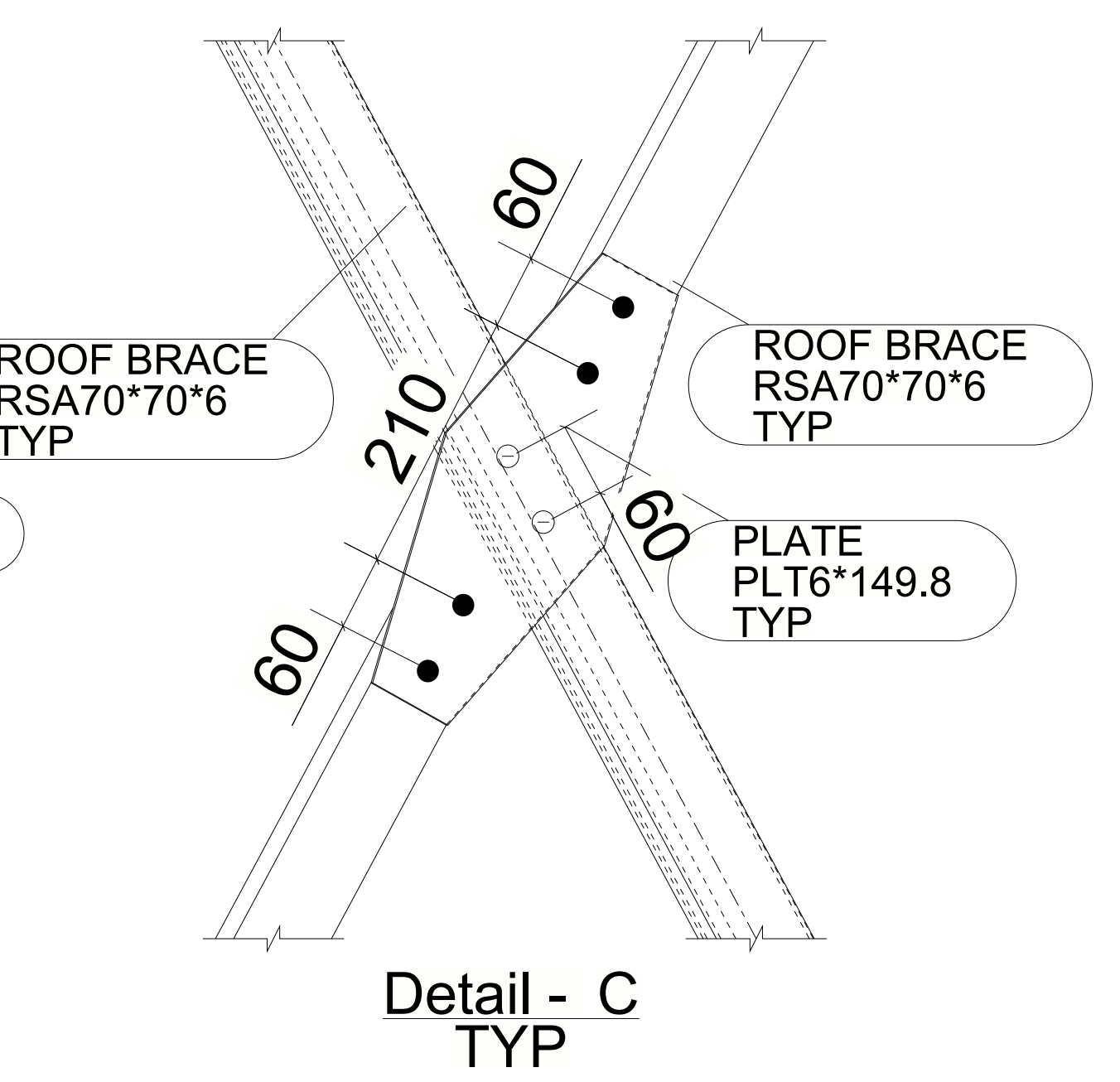
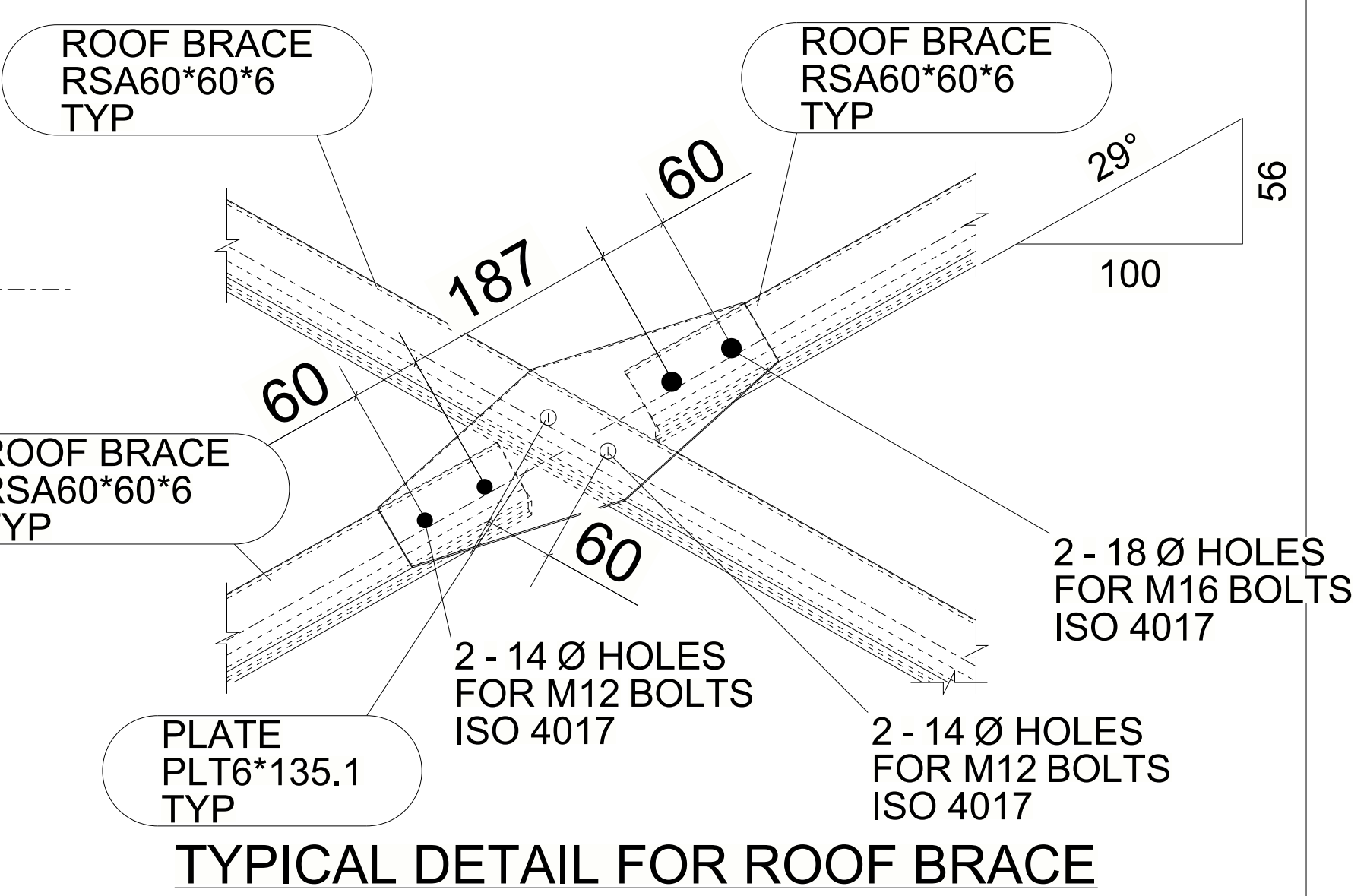
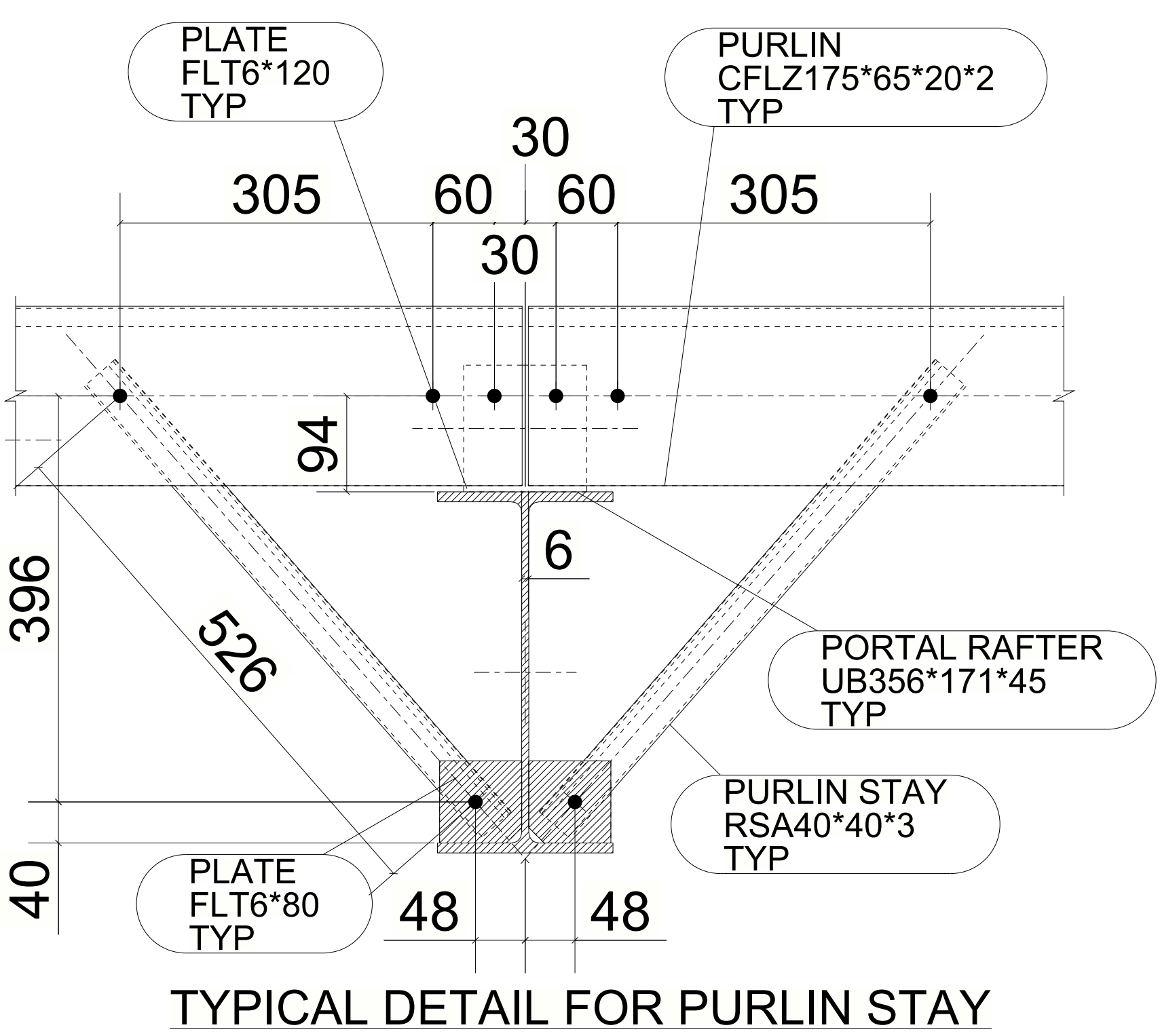


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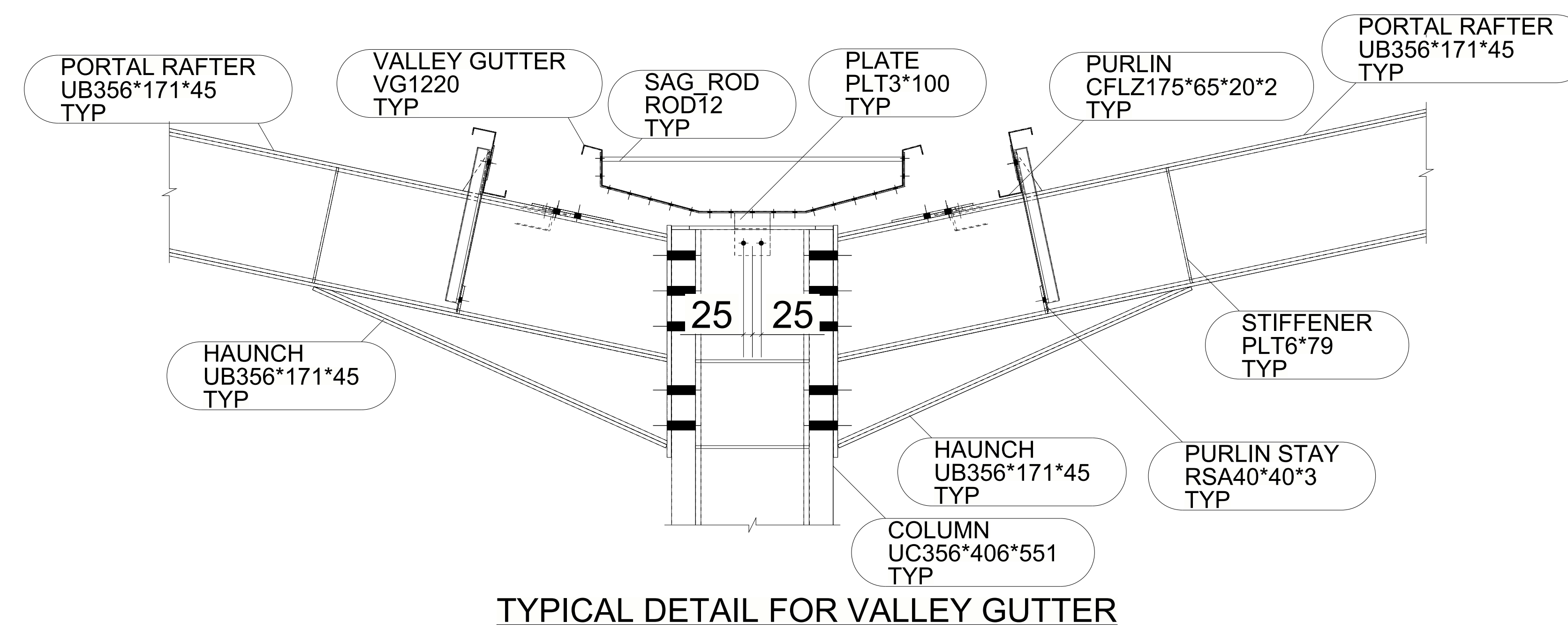
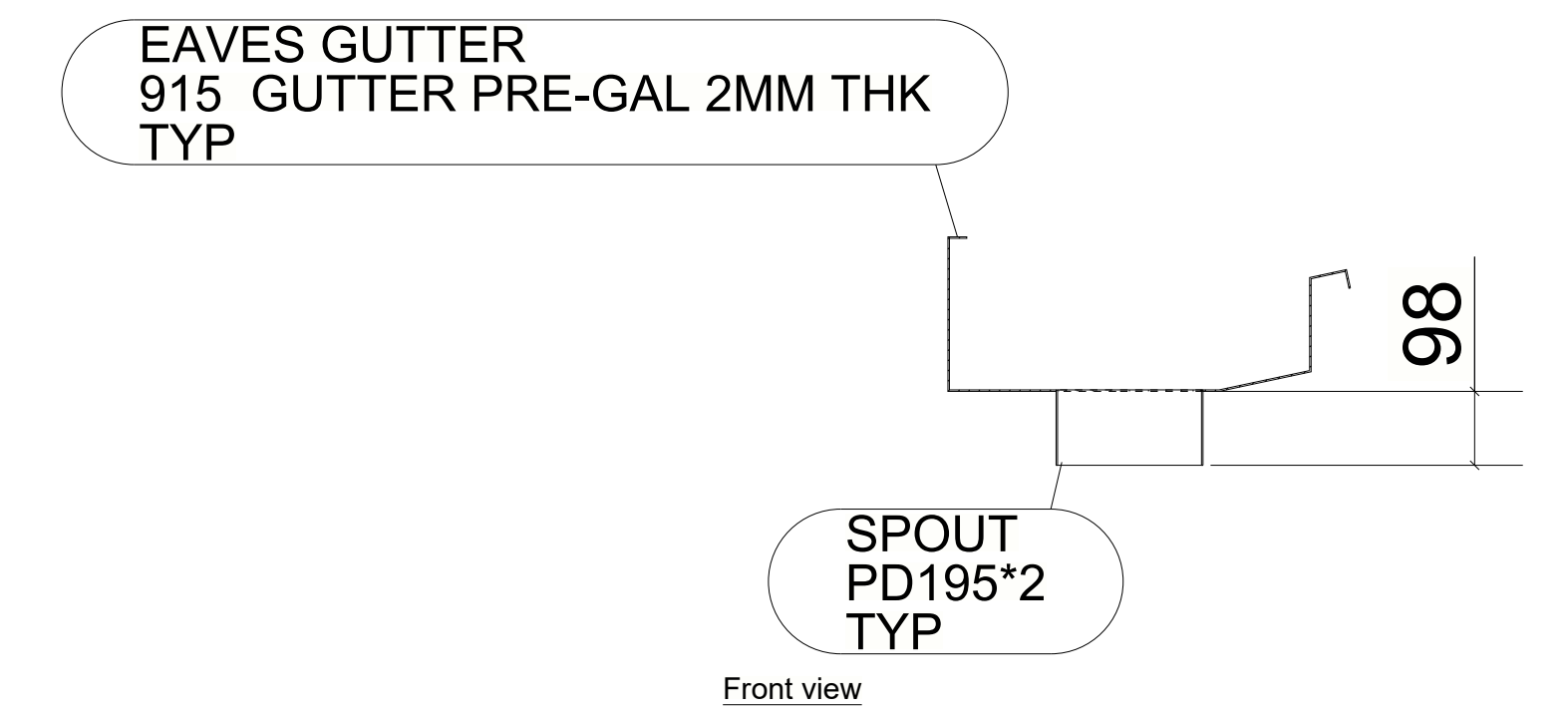
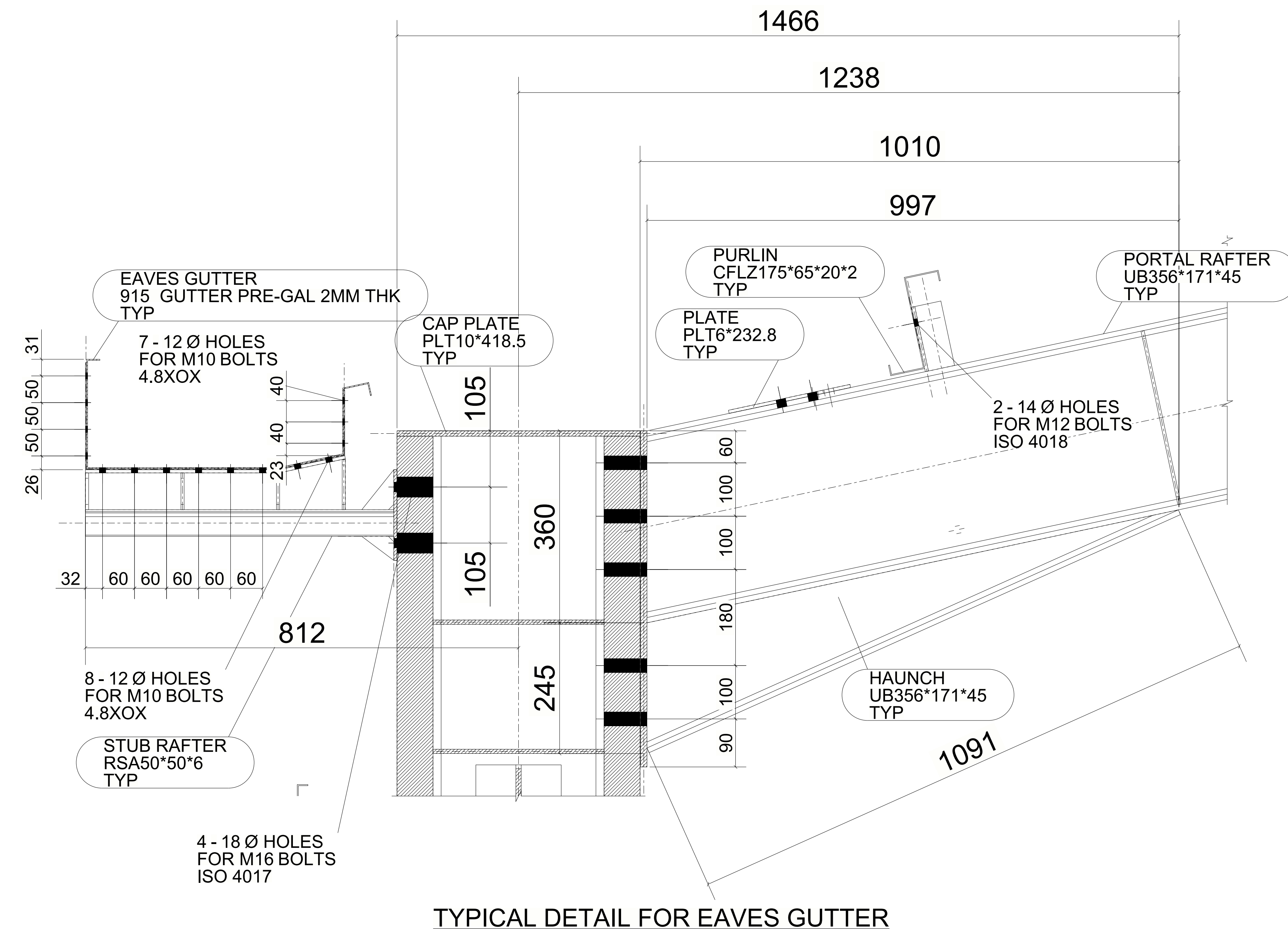
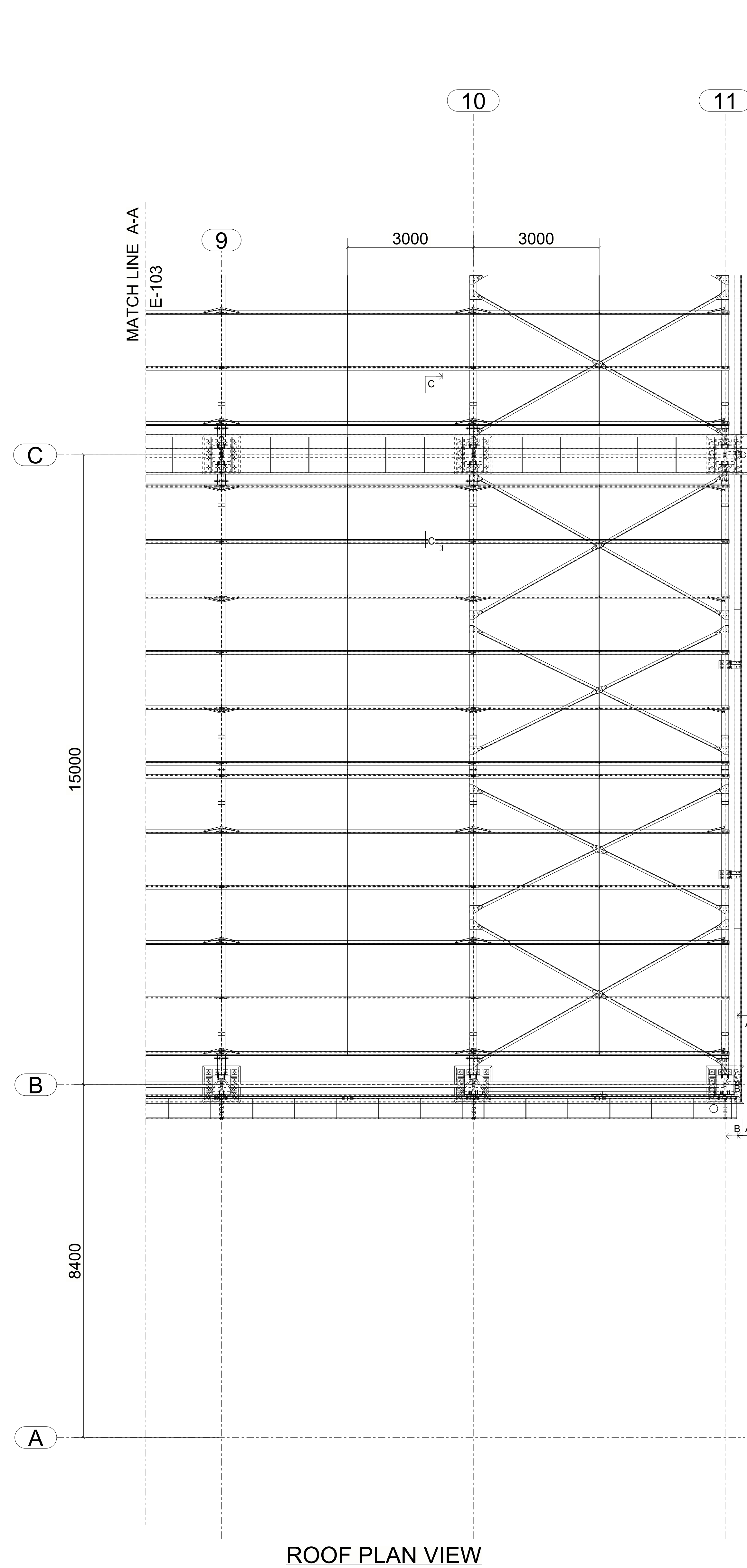
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| 2 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| 1 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| Rev | | Date | | Rev | | Date | |
| | | | | | | | |
| TITLE: BASE PLATE CENTRAL MECHANICAL WORKSHOP | | | | | | | |
| SCALE: 1:3.5 | | CHECKED: P.S.O | | APPROVED: Eng. J. Ombere | | DATE: 08.03.2024 | |
| PROJECT NO: KGAOPS CMW 00102 | | DESIGNED: PETER OMBERE | | DRAWN: P.S.O | | DATE: 08.03.2024 | |
| DRAWING NO: E-102 | | REV: A | | REV: A | | DATE: 08.03.2024 | |




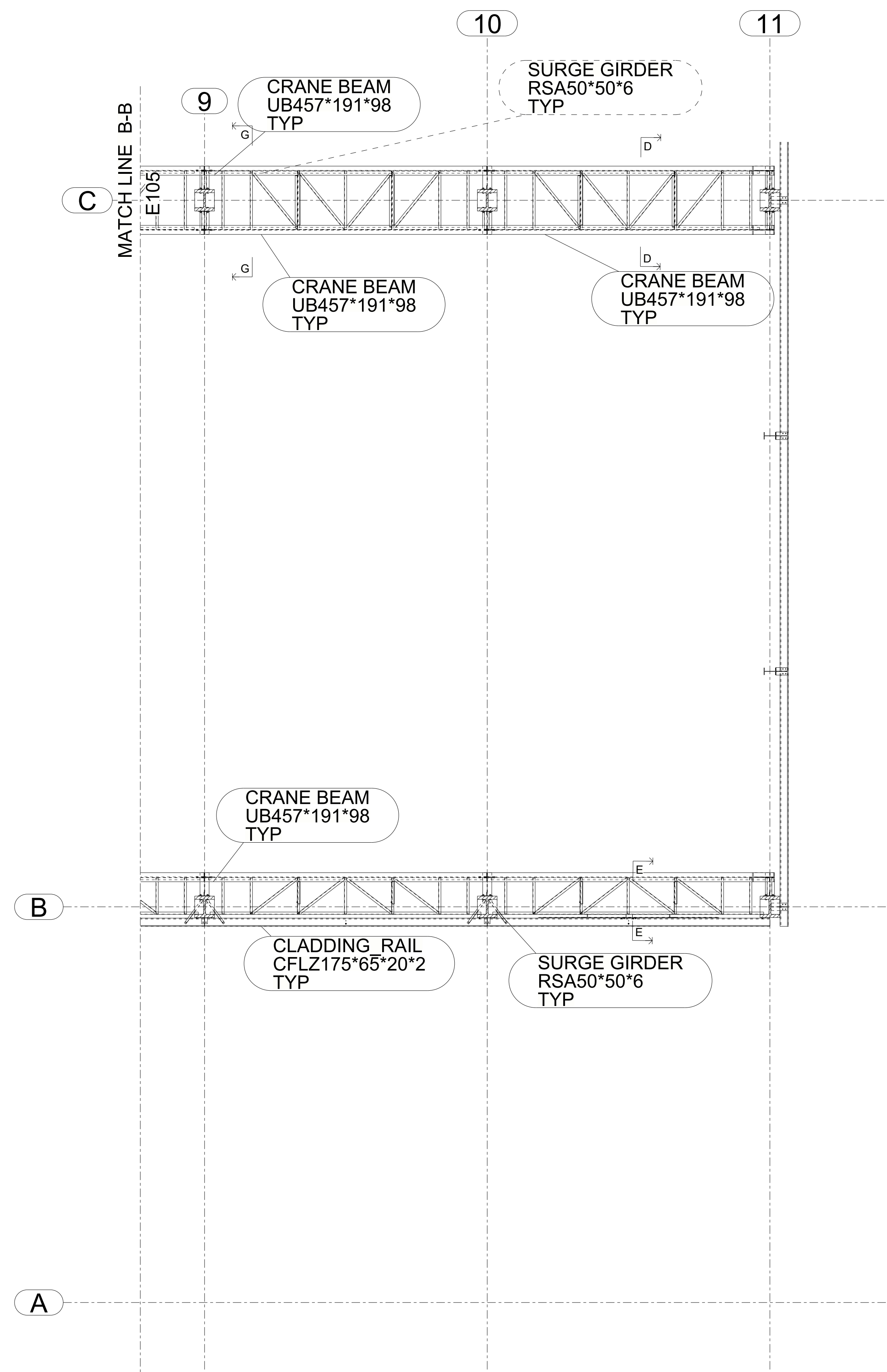
ROOF PLAN VIEW



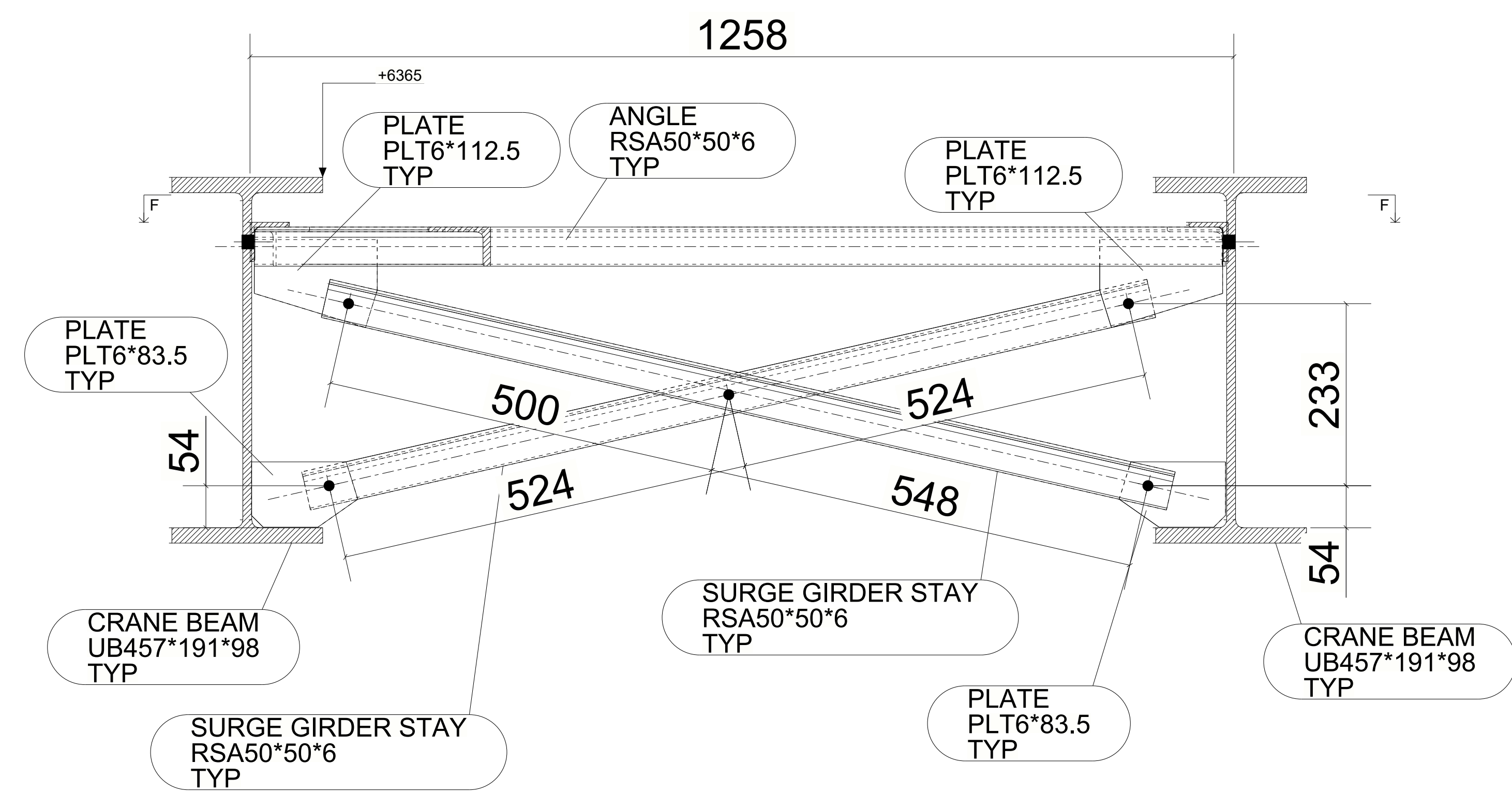
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| PROJECT: KenGen | | | |
| TITLE: ROOF PLAN CENTRAL MECHANICAL WORKSHOP | | | |
| SCALE: 1:3.5 | CHECKED: PETER COUD | APPROVED: Eng. J. Ombao | DATE: 08.03.2024 |
| PROJECT No: KGN OPS CMW 103 | DESIGNED: PETER COUD | DRAWN: P.S.O | DATE: 08.03.2024 |
| DRAWING No: KGN OPS CMW 103 | REV: A | | |



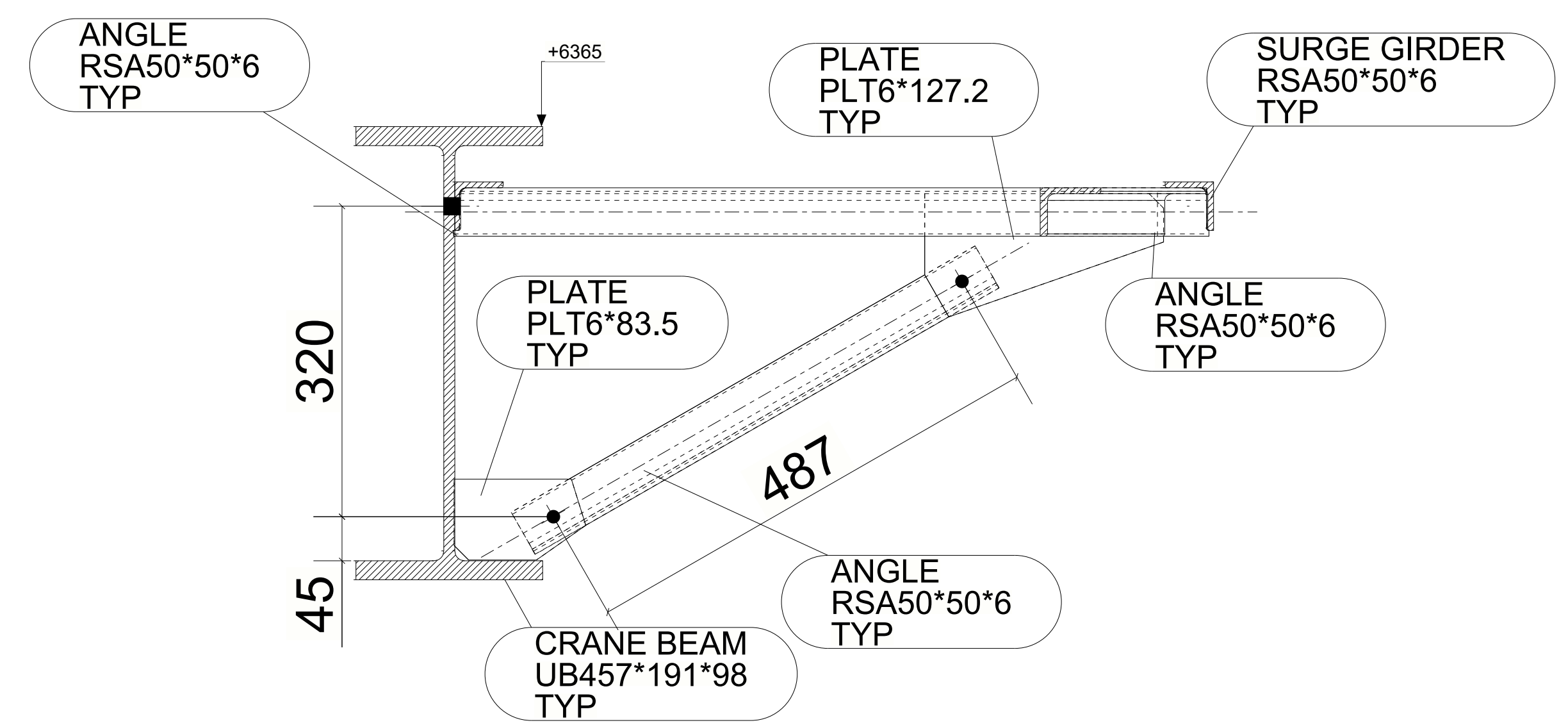
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| 2 | | A ISSUED FOR APPROVAL | | 08.03.2024 | |
| 1 | | A ISSUED FOR APPROVAL | | 08.03.2024 | |
| Rev. / Desc. / Revision Description | | | | Date | |
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| TITLE: <div>ROOF PLAN CENTRAL MECHANICAL WORKSHOP</div> | | | | | |
| SCALE: | | 1:5 | | CHECKED: P.S.O | |
| | | | | APPROVED: Eng. J. Ombere | |
| PROJECT No: | | DESIGNED BY: PETER KIDDO | | DATE: | |
| | | DRAWN: P.S.O | | | |
| DRAWING No: KGN OPS CMW 104 | | | | REV: A | |



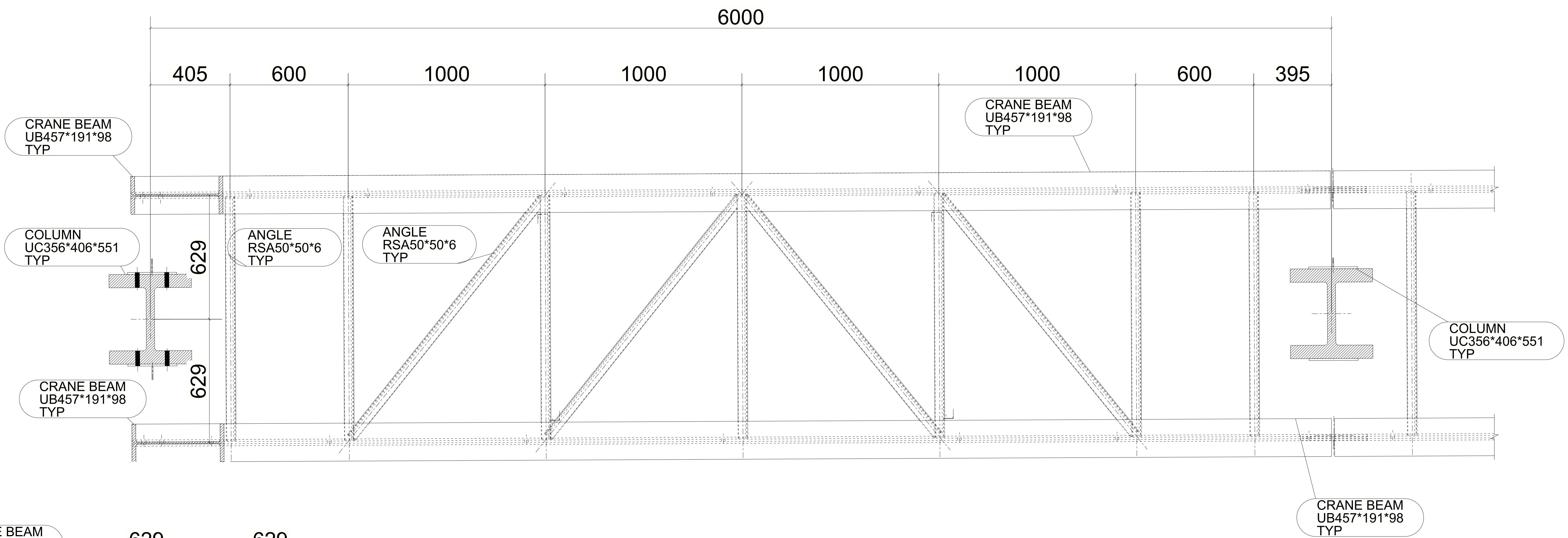
CRANE PLAN



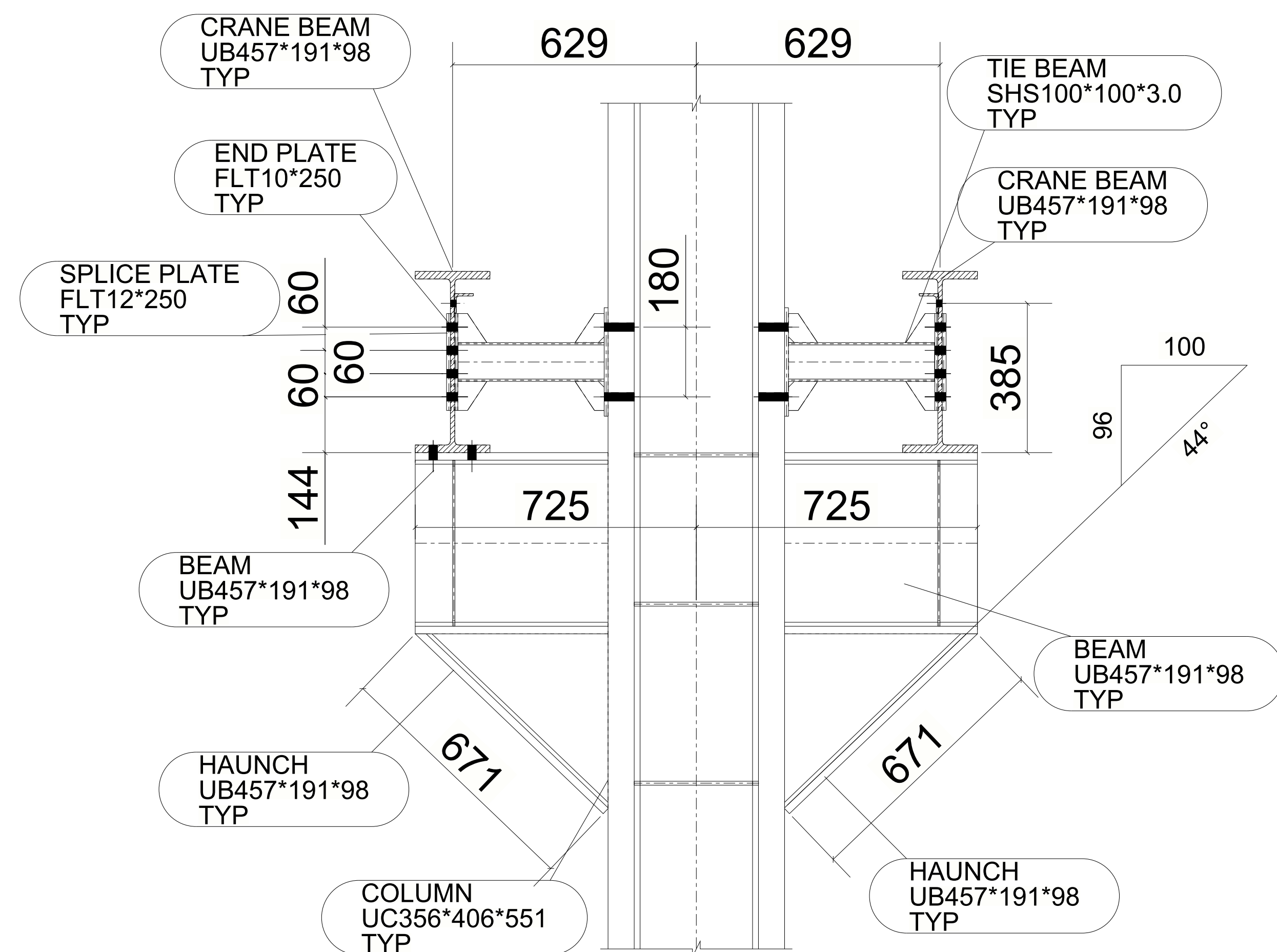
TYPICAL DETAIL FOR SURGE GIRDER (DETAIL - D)



TYPICAL DETAIL FOR SURGE GIRDER (DETAIL - E)

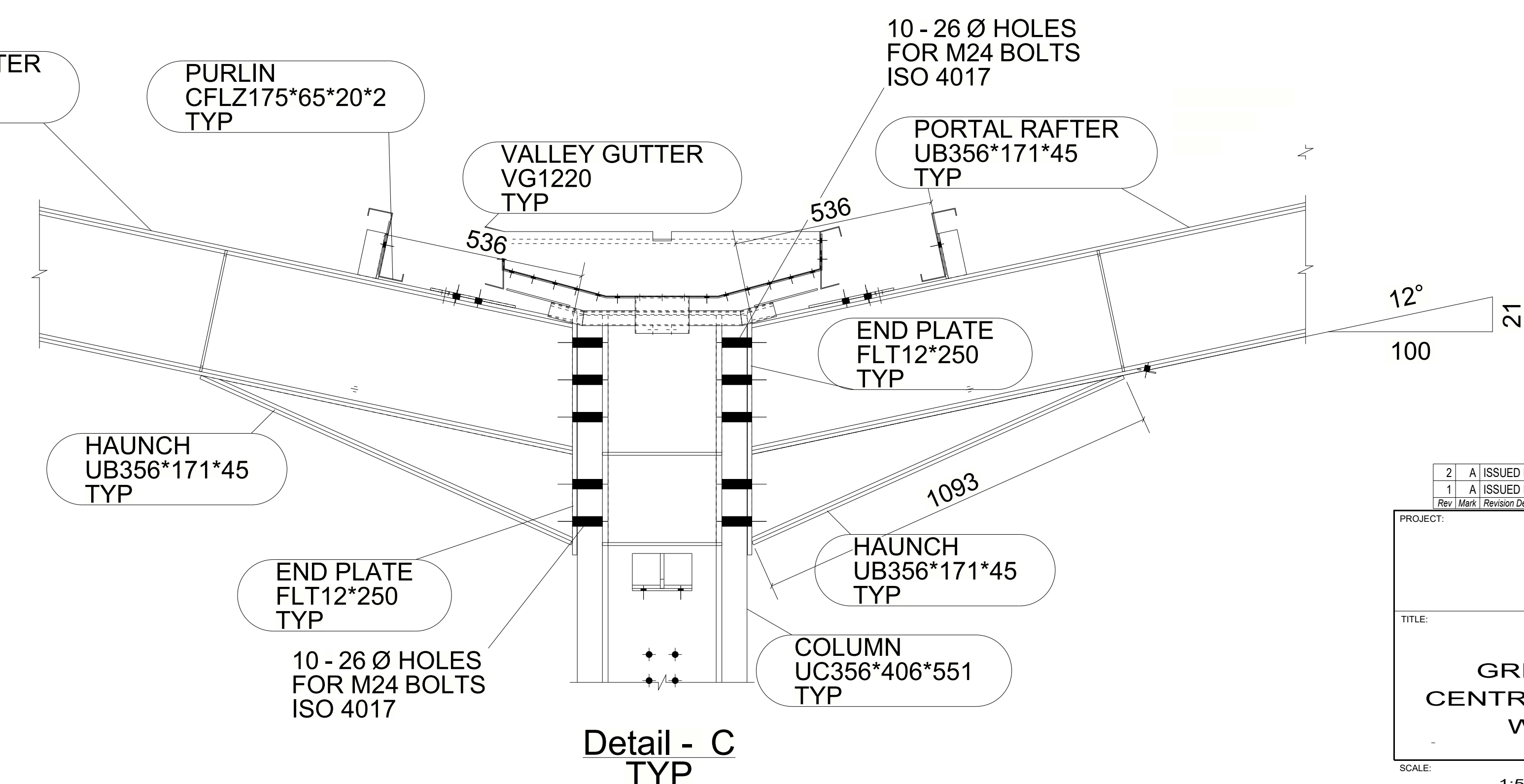
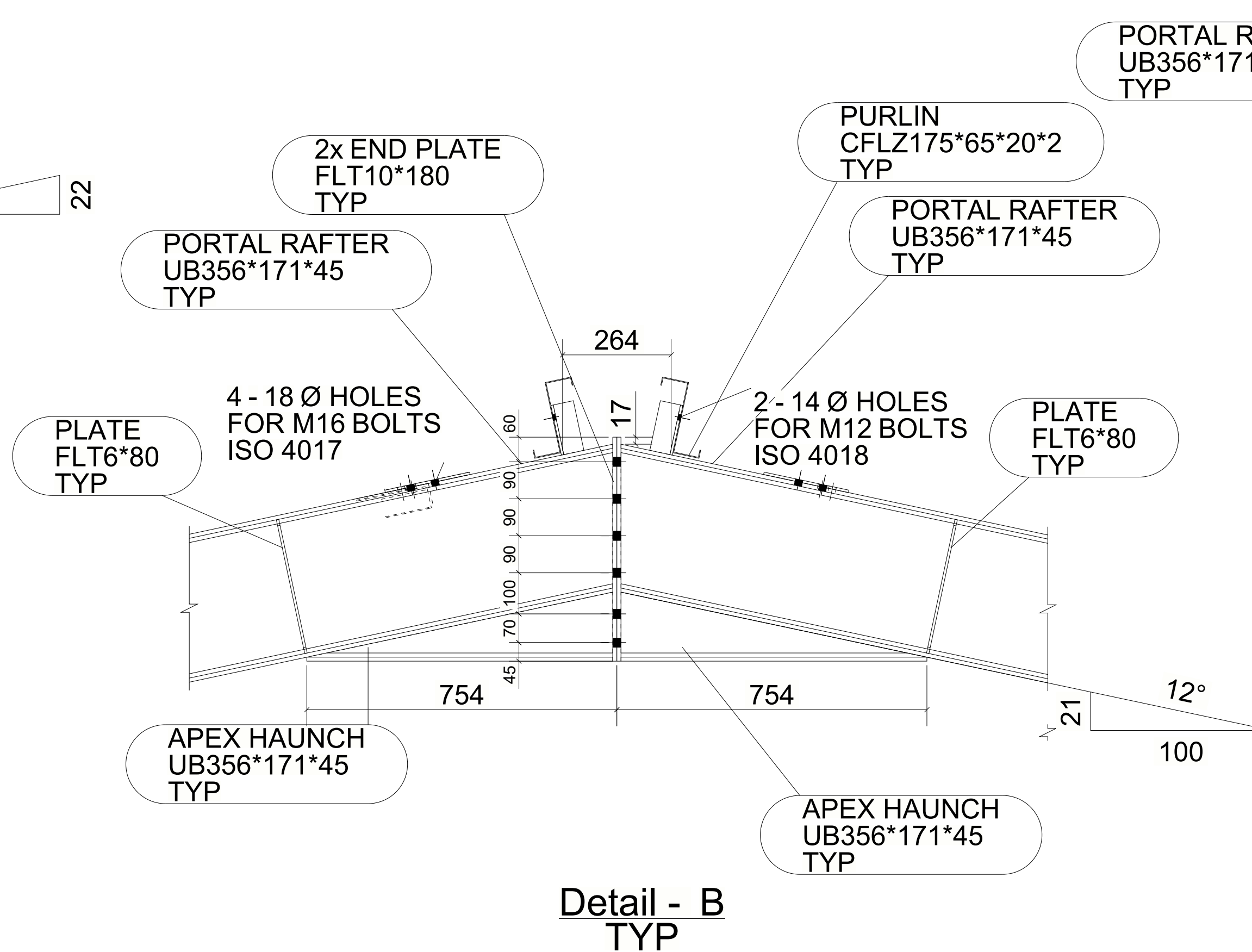
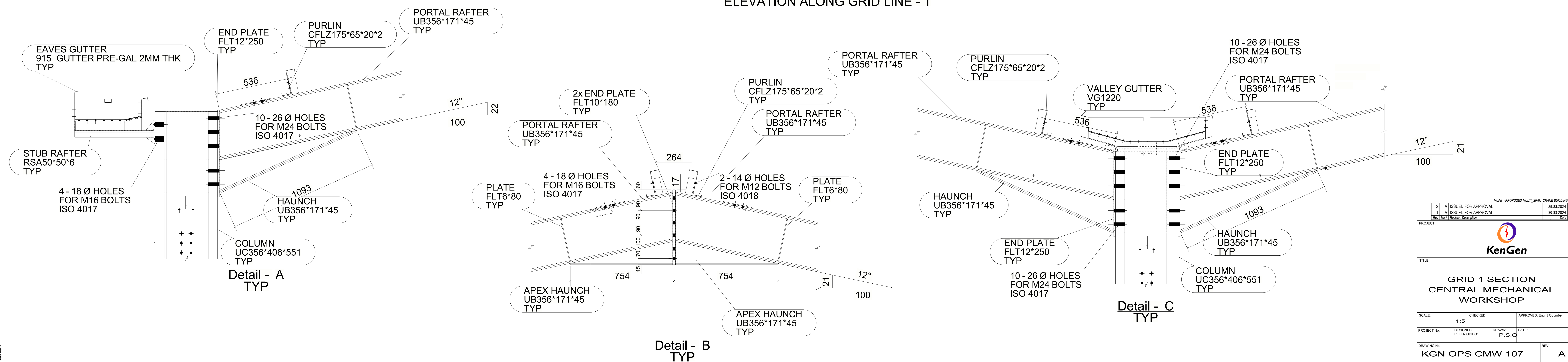
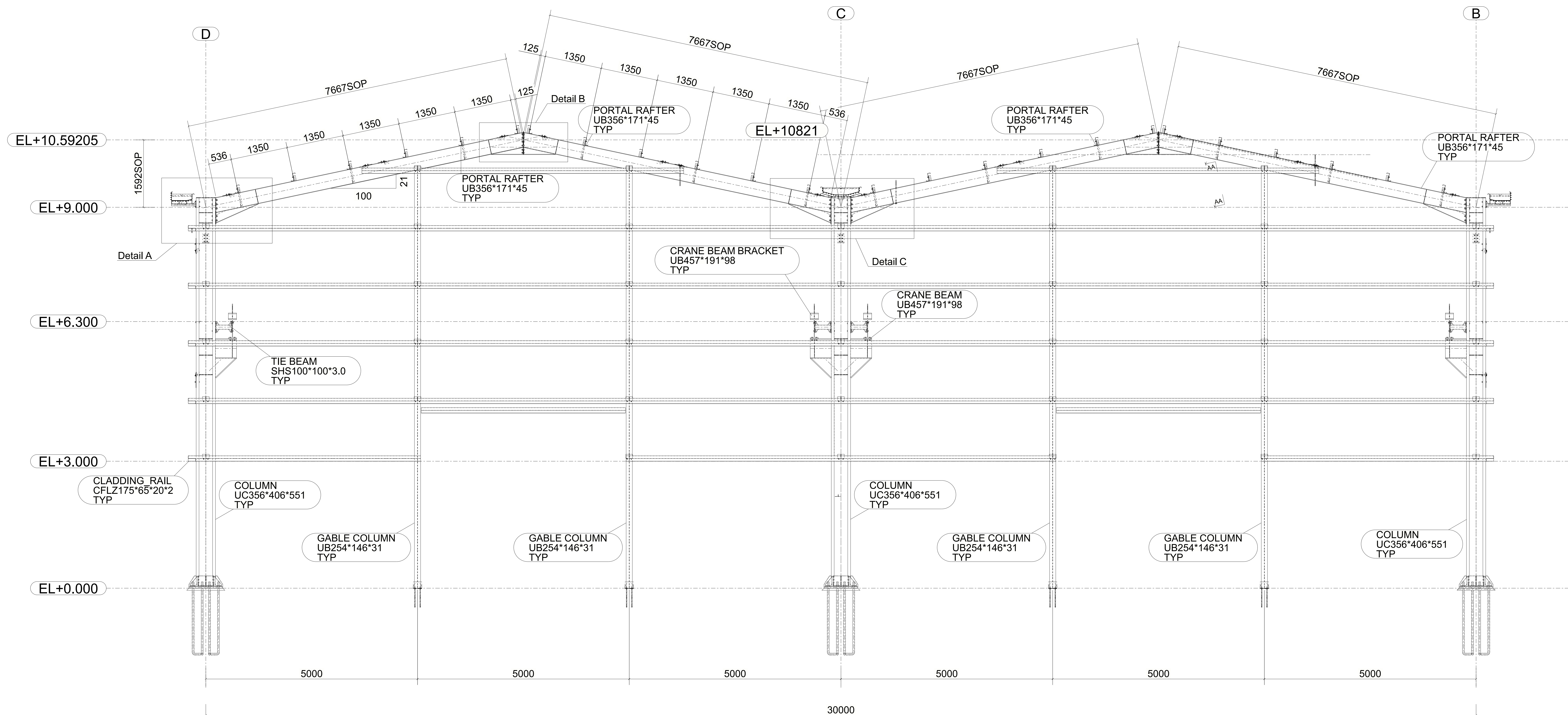


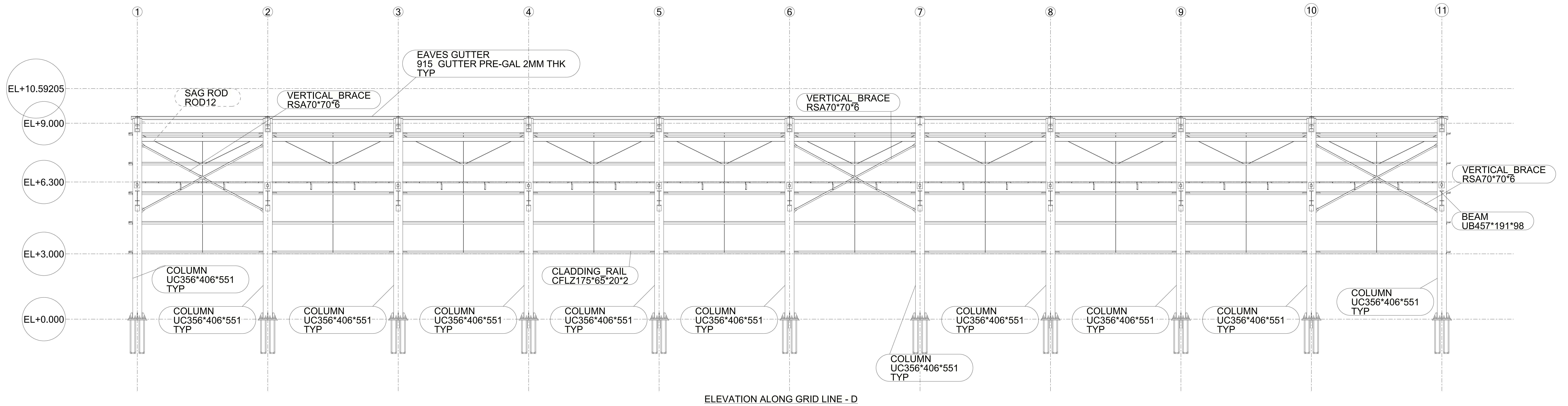
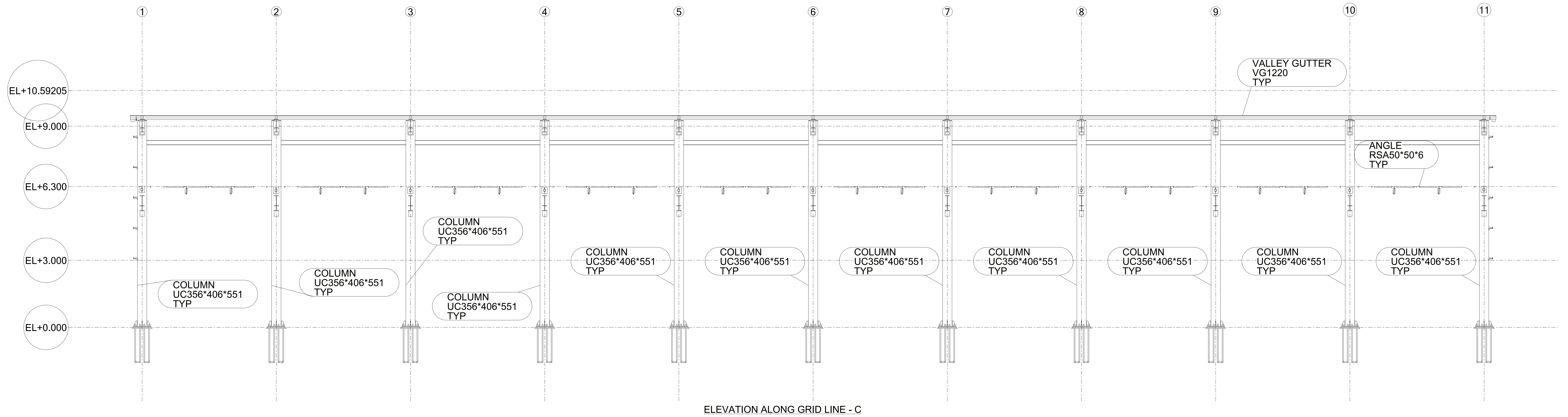
SURGE GIRDER PLAN VIEW



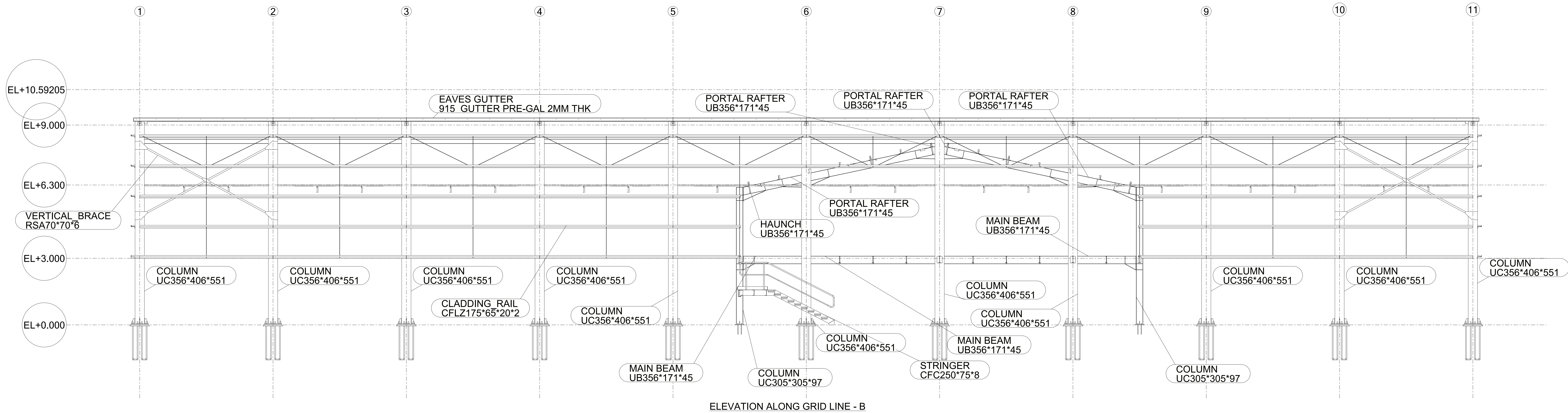
TYPICAL DETAIL FOR CRANE BEAM CONNECTION

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| 2 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| 1 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| Rev | | Issued | | Revised | | Date | |
| | | | | | | | |
| CRANE PLAN CENTRAL MECHANICAL WORKSHOP | | | | | | | |
| SCALE: | | 1/5 | | CHECKED: | | APPROVED: Eng. J. Ombere | |
| PROJECT No: | | DESIGNED: PETER OCHOI | | DRAWN: P.S.O | | DATE: | |
| DRAWING No: | | KGN OPS CMW 106 | | REV: | | A | |

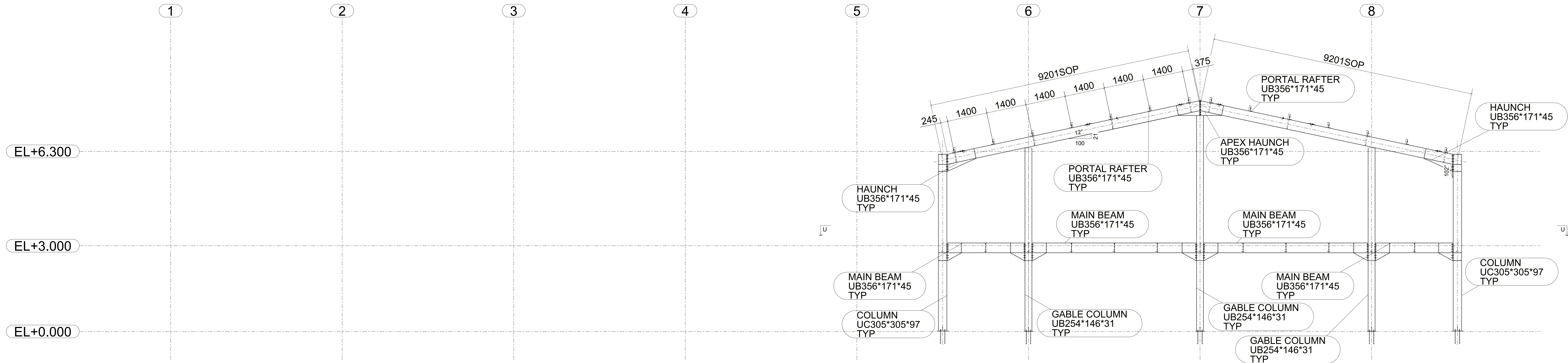




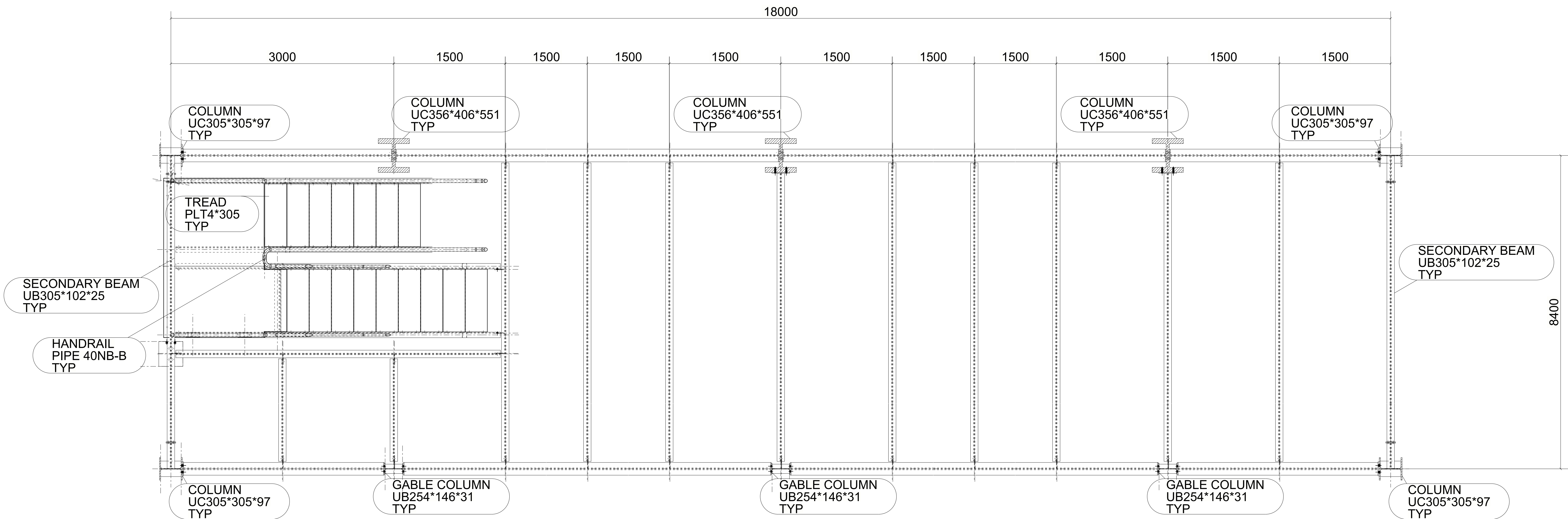
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| 11 A ISSUED FOR APPROVAL | | 08.03.2024 | |
| PROJECT No. / NAME / Revision Description | | Date | |
|  | | | |
| TITLE: LONGITUDINAL SECTION CENTRAL MECHANICAL WORKSHOP | | | |
| SCALE: 1:65 | CHECKED: | APPROVED: Eng. J. Oduor | |
| PROJECT No.: | DESIGNED: PETER ODIPO | DRAWN: P.S.O | DATE: |
| DRAWING No.: | KGN OPS CMW 108 | | REV: A |




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| 11 | | A | | ISSUED FOR APPROVAL | | 08.03.2024 | |
| PROJECT | | KenGen | | TITLE | | LONGITUDANAL SECTION CENTRAL MECHANICAL WORKSHOP | |
| SCALE: 1:65 | | CHECKED: | | APPROVED: Eng. J. Ombao | | | |
| PROJECT No: PETER GORD | | DESIGNED: P.S.O | | DATE: | | | |
| DRAWING No: KGN OPS CMW 109 | | REV: A | | | | | |

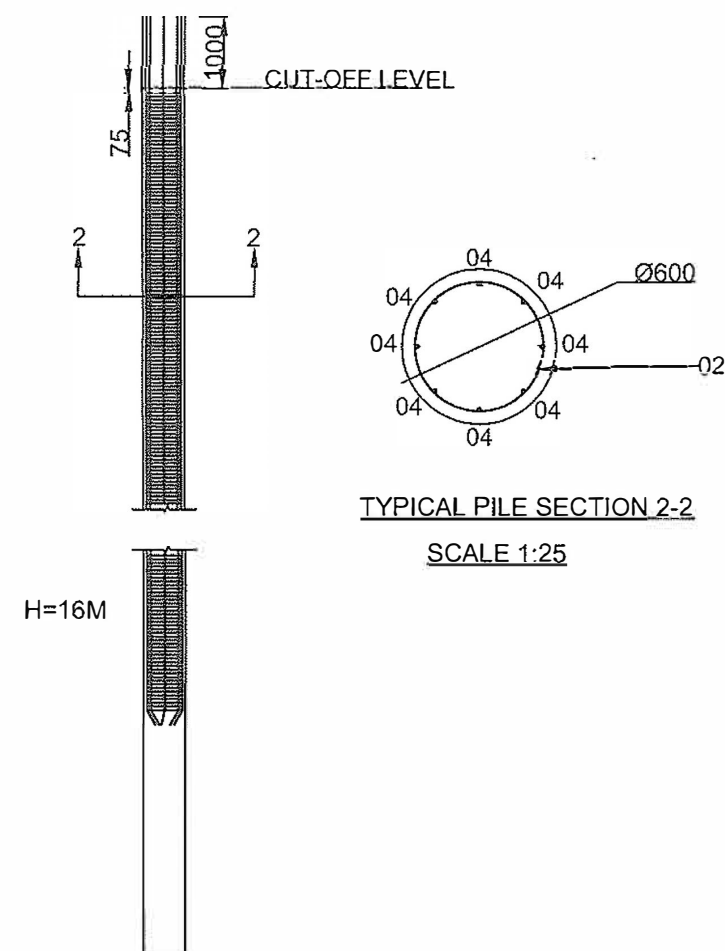
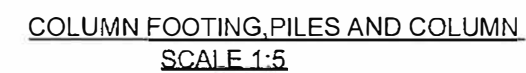
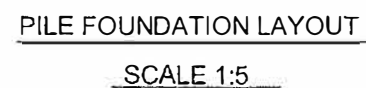


ELEVATION ALONG GRID LINE - A



MEZZANINE FLOOR PLAN LAYOUT

| | | | | | |
|--|--|-----------------------|--|-------------------------|--|
| 2 | | A ISSUED FOR APPROVAL | | 08.03.2024 | |
| 1 | | A ISSUED FOR APPROVAL | | 08.03.2024 | |
| Rev / Issue | | Revised Description | | Date | |
| PROJECT:  | | | | | |
| TITLE: A-A SECTION CENTRAL MECHANICAL WORKSHOP | | | | | |
| SCALE: 1/5 | | CHECKED: P.S.O | | APPROVED: Eng. J. Oduor | |
| PROJECT No: PETER ODIPO | | DRAWN: P.S.O | | DATE: | |
| DRAWING No: KGN OPS CMW 110 | | | | REV: A | |



General Notes

1. COLUMN FOOTINGS,
PILES AND COLUMNS
ARE NOT DRAWN TO
SCALE.

2.ALL DIMENSIONS ARE
IN MM UNLESS
STATED OTHERWISE.

3.USE CONCRETE CLASS 30/25.

4. COLUMNS ARE TO BE PLACED 4000MM c/c ALONG THE LENGTH AND 3000MM c/c ALONG THE WIDTH.

PILE LAYOUT
FOUNDATION,
PILE SECTION,

DRAWN BY:
SHERLY AGUNDA
KELVIN MUTURI

CHECKED BY:
PETER ODIPO

| | | |
|-----|----------------|------|
| No. | Revision/Issue | Date |
|-----|----------------|------|

Form Name and Address



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Project Name and Address

CONSTRUCTION OF CENTRAL MECHANICAL WORKSHOP IN GEOTHERMAL INDUSTRIAL PARK

| | |
|--------------------|----------|
| Project | Sheet |
| Date 20/03/2024 | 10OUTOF1 |
| Scale | |