

## GENERAL NOTES:

### CERTIFICATION

- THESE DRAWINGS ARE VALID ONLY WHEN ENDORSED BY A SEPARATE DESIGN CERTIFICATE THAT IS VALID FOR THE DATE OF ISSUE AND CONSTRUCTION.

### GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR BEFORE COMMENCING WORK.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT CURRENT AUSTRALIAN STANDARDS, BCA AND LOCAL AUTHORITY BY LAW.
- DRAWINGS SHALL NOT BE SCALED FOR ANY FABRICATION OR ERECTION DETAILS.
- AT SETOUT, DIAGONALS MUST BE CAREFULLY CHECKED TO ENSURE BUILDING IS SQUARE.
- OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE.
- THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION DURING ERECTION AND NO COMPONENT SHALL BE OVERSTRESSED. TEMPORARY ROOF &/OR WALL BRACING MAY BE REQUIRED DURING CONSTRUCTION.

### LOADINGS

- THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
  - 1.1 LIVE LOAD 0.25kPa IN ACCORDANCE WITH AS/NZS 1170.1
  - 1.2 WIND LOAD CALCULATED IN ACCORDANCE WITH AS/NZS 1170.2:2011  
Region A, TC 2  
Shield multiplier (Ms) = 1.0, Topographic multiplier(Mt) = 1.00  
Max. Reg wind speed = 45.00m/s,  
V5t (ult) wind speed = 39.10m/s,  
Qu kPa = 0.92kPa
  - 1.3 INTERNAL AND EXTERNAL PRESSURE COEFFICIENTS ARE DETERMINED FROM CLAUSES 5.3 AND 5.4 OF AS1170. INTERNAL PRESSURE COEFFICIENT USED FOR CALCULATION OF SURFACES IS 0.65-0.7.
  - 1.4 IMPORTANCE LEVEL 2 IS ASSUMED IN ACCORDANCE WITH AS/NZS 1170 & BCA TABLE B1.2 UNLESS REQUESTED OTHERWISE.
  - 1.5 STRUCTURES ARE NOT DESIGNED FOR SNOW LOADING TO AS/NZS 1170.3 REQUIREMENTS.
  - 1.6 DESIGNS SHOWN HEREIN ARE APPROPRIATE FOR USE AS A " BUILDING CLASS 1A " AS PER REQUIREMENTS OF B.C.A 2020

### STEELWORK

- ALL STRUCTURAL FRAMING MEMBERS SHALL BE G550 - G450 GRADE STEEL U.N.O. AND ALL CLEATS SHALL BE G450 GRADE STEEL GALVANISED TO MIN Z275. POSTS SHALL BE G450, REFER DRAWING.
- ROOF AND WALL SHEETING SHALL BE G550 GRADE STEEL PROTECTED WITH ZINCALUME AZ150.
- ROOF SHEETING CAN BE REPLACED WITH CLEAR ROOF 2400GSM PANEL FIXED TO MANUFACTURERS SPECIFICATIONS. A HIGHER GSM RATE MAY BE REQUIRED FOR SNOW AREAS.
- PURLINS & BRIDGING TO BE EX. 80x40 LIPPED CRIMPED CHANNELS 0.75mm/0.95mm B.M.T.
- ROOF CLADDING SHEET IS TO BE FIXED AS FOLLOWS:  
NOTE: MAXIMUM SPAN OF CLADDING, AND TEK SCREW LOCATIONS FOR EACH CLADDING TYPE SHOWN ON THIS SHEET.

### ROOFING:

- CORRUGATED 0.42 B.M.T.  
FIXED WITH 1 #12-14x35 ROOFING SCREW TO EVERY SECOND RIB TO ALL PURLINS AND SUPPORTS
- WALL CLADDING:  
SPANCLAD 0.42 B.M.T.  
FIXED WITH 1 #10-16x22 TEK SCREW TO EVERY SECOND RIB TO ALL PURLINS AND SUPPORTS

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ALL DIMENSIONS IN mm U.N.O.

- SCREWS CONNECTING STRUCTURAL MEMBERS TO BE WAFERTEKS No. 12 U.N.O MANUFACTURED BY BREMICK (OR EQUIVALENT) WITH MIN. EDGE DISTANCE OF 9mm AND MIN. PITCH OF 18mm. ALL STRUCTURAL BOLTS TO BE M12 G.R. 4.6 U.N.O. WASHERS MUST BE USED (TYP.), WHERE BOLTS ARE USED FOR BOXED MEMBERS, BOXING SPACERS MUST BE USED.
- RIDGES, BARGES AND ALL PENETRATIONS TO BE FLASHED WITH 0.4mm ZINCALUME FINISHED STEEL.
- GUTTER AND DOWNPIPES TO BE FITTED AND DISCHARGED TO EXISTING STORMWATER SYSTEM. SPLICE GUTTER AT CENTRE OF BUILDING. PROVIDE TWO SCREWS INTO EACH WEB AND SEAL WITH SILICONE.
- STEELWORK SHALL ALL COMPLY WITH THE REQUIREMENTS OF:-  
AS/NZS 1170.0, 1 & 2 : 2002/2011 LOADING CODES  
AS 4100 STEEL STRUCTURE CODES  
AS 3600 : CONCRETE STRUCTURES  
AS 1562 DESIGN AND INSTALLATION OF METAL ROOFING  
AS 1111/1112 METRIC HEXAGON COMMERCIAL BOLTS AND SCREWS  
AS 2312 GUIDE TO THE PROTECTION OF IRON AND STEEL CONSTRUCTION INDS  
AS/NZS 4505:2012 GARAGE DOORS AND OTHER LARGE ACCESS DOORS

## CONCRETE:

- CONCRETE SHALL HAVE MAXIMUM AGGREGATE SIZE OF 20mm, SLUMP OF 80+/20 AND ULTIMATE COMPRESSION STRENGTH AT 28 DAYS OF 32 MPa.
- CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION (U.N.O.) AND BE COMPACTED BY EXTERNAL VIBRATION OR HAND TAMPING.
- POLYTHENE WATERPROOF MEMBRANE (LAPPED 200 AND SEALED WITH APPROPRIATE TAPE). - OPTIONAL BUT RECOMMENDED. ALL REINFORCEMENT SHALL BE HELD IN POSITION WITH THE USE OF BAR CHAIRS.
- REINFORCEMENT QUALITY AND NOTATION:

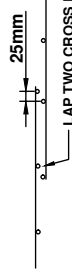
SYMBOL:	BAR SHAPE:	GRADE:	STANDARD:
S	STRUCTURAL GRADE DEFORMED RIB BAR	250 (Mpa)	AS 1302
N	HOT ROLLED DEFORMED RIB BAR	500 (Mpa)	AS 4671
R	PLAIN ROUND BAR	250 (Mpa)	AS 4671
SL	SQUARE MESH OF DEFORMED RIB BAR	500 (Mpa)	AS 4671
L-TM	TRENCH MESH	500 (Mpa)	AS 4671

- REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- SPLICES IN REINFORCEMENT TO OVERLAP AS FOLLOWS:

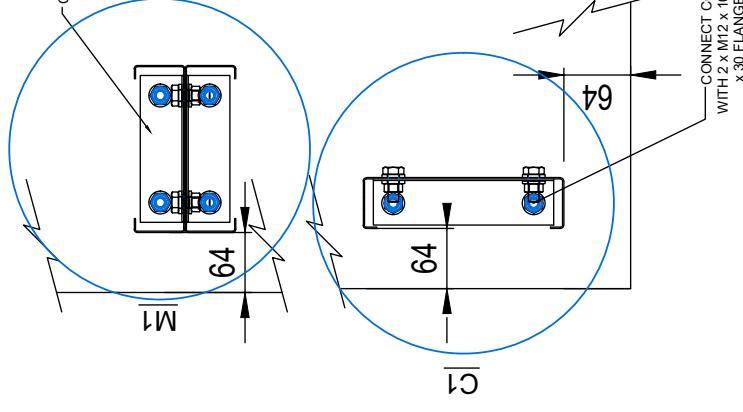
### BAR SIZE: LAP LENGTH:

M10	37/5
M12	500
M16	600
3L-TM	500
3L11-TM	500

- WELDING OF THE REINFORCEMENT IS NOT PERMITTED U.N.O.
- FABRIC LAP DETAIL:



- PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF AN ENGINEER. PIPES OR CONDUITS CAST WITHIN THE SLAB SHALL BE PLACED IN THE MIDDLE THIRD OF THE CONCRETE. PIPES/CONDUITS SHALL NOT BE BUNDLED.
  - CONTROL JOINTS ARE TO BE PLACED AT INTERVALS OF 6.0m CTR'S IN BOTH DIRECTIONS.
  - ALL SLABS TO BE POURED AT THE SAME TIME AS THE BEAMS WHICH THEY FORM PART OF.
  - CONSTRUCTION JOINTS ARE TO BE USED WHERE REQUIRED, GENERALLY THIS IS GOVERNED BY THE AMOUNT OF CONCRETE THAT CAN BE POURED IN ONE DAY.
  - CONCRETE WORK SHALL ALL COMPLY WITH THE REQUIREMENTS OF:- AS 2870 RESIDENTIAL SLAB AND FOOTINGS
- FOUNDATIONS:
- SERVICES OF AN EXPERIENCED CONSULTING ENGINEER SHOULD BE ENGAGED TO ADVISE ON SUITABILITY OF SOIL CONDITIONS.
  - SLAB DESIGNS SHOWN HEREIN, ARE APPROPRIATE TO CLASS A, S, AND M SOIL CONDITIONS.
  - FOUNDING MATERIAL SHALL BE CLASS 1 COMPACTED SOIL (95% M.D.) AS PER AS1289.
  - FOUNDING MATERIAL SHALL HAVE SAFE BEARING CAPACITY OF 100 kPa.
  - GEOTECHNICAL ENGINEER SHALL BE ENGAGED AT THE CLIENTS EXPENSE TO CERTIFY THAT THE ALLOWABLE BEARING PRESSURE HAS BEEN ACHIEVED IN THE BASE OF ALL FOOTINGS
  - ALL TOPSOIL AND BASE OF FOUNDATIONS TO BE CLEARED OF ALL DELETERIOUS MATERIAL.



DRAWING TITLE:



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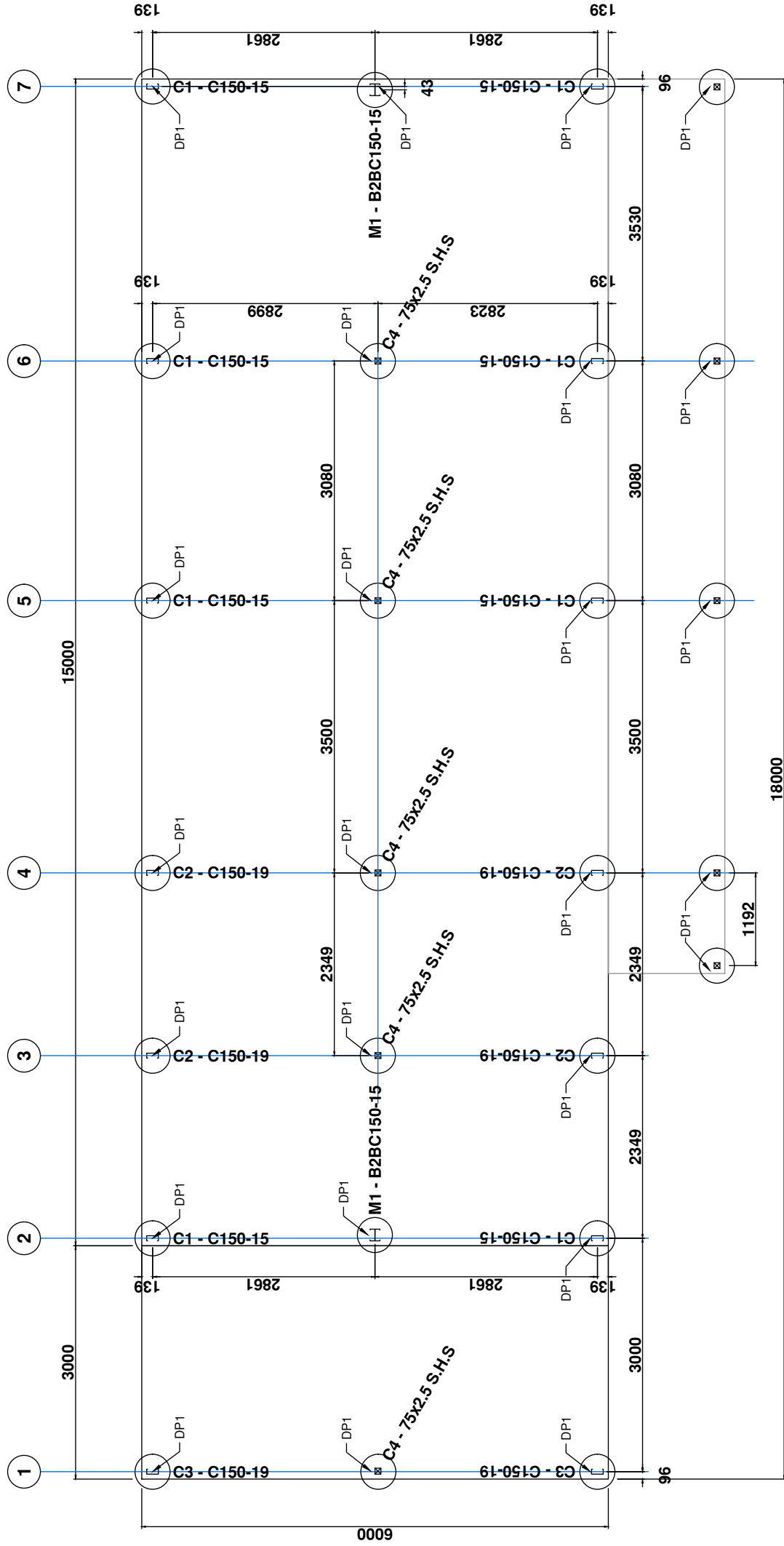
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PIER LAYOUT

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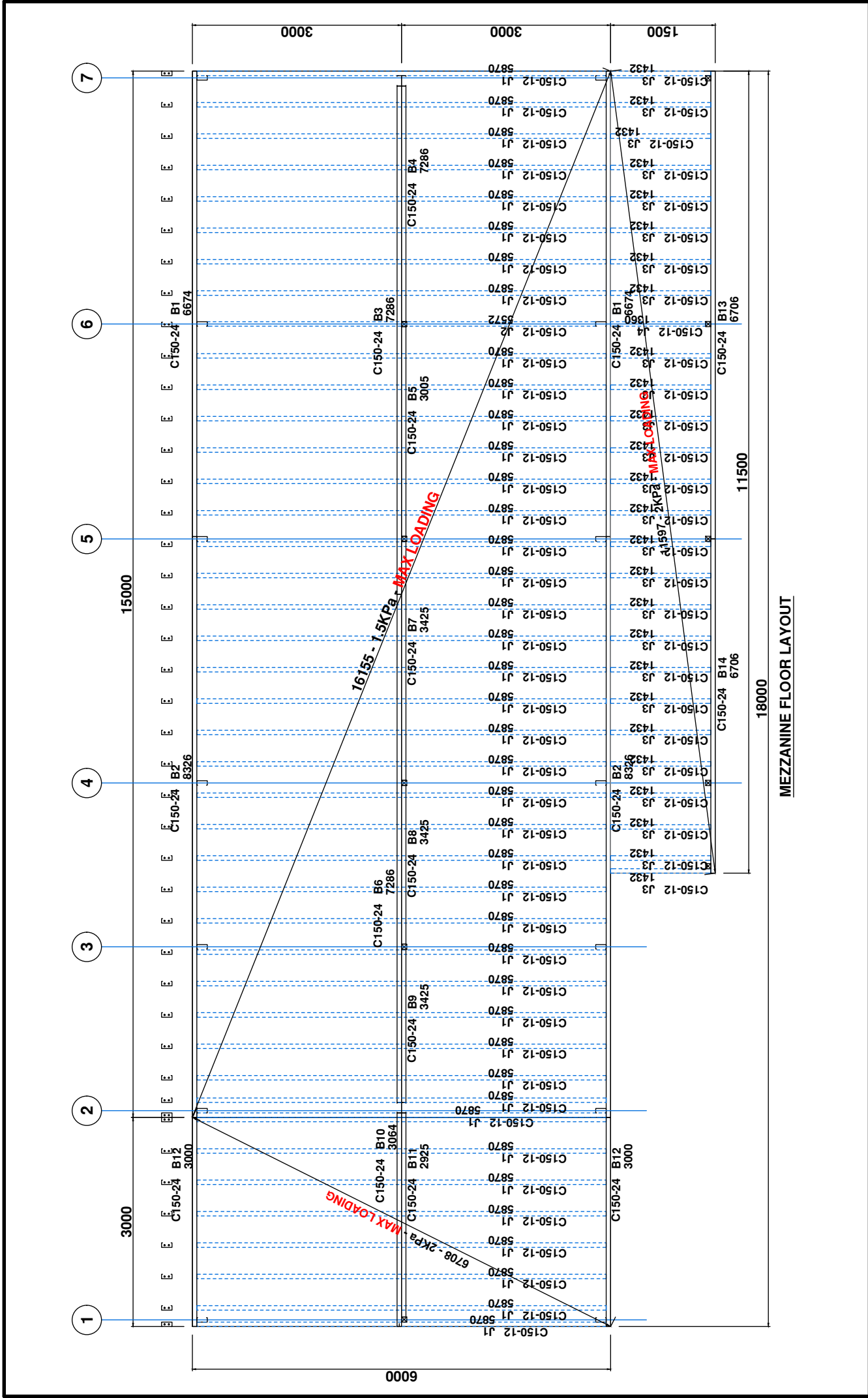


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MEZZANINE FLOOR LAYOUT

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DRAWING STATUS: APPROVAL

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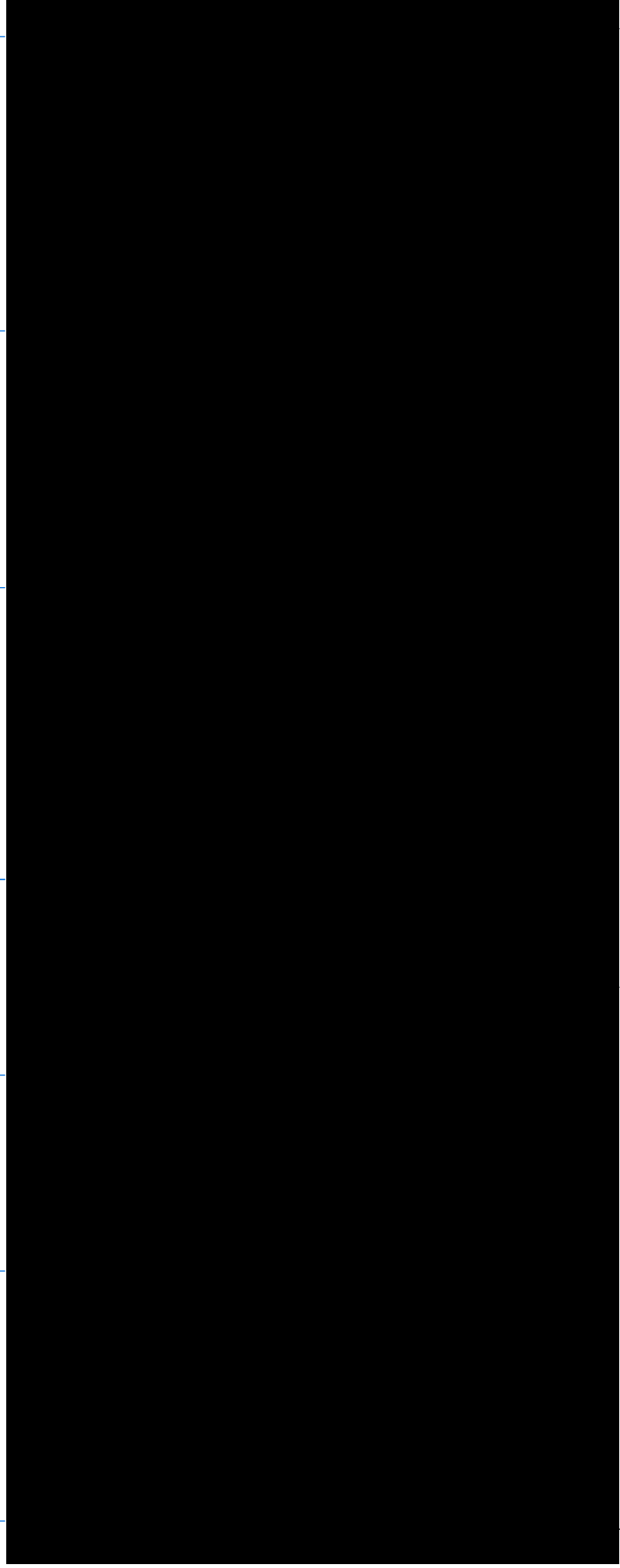
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18000

FLOOR PLAN

86

80

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86

86

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86

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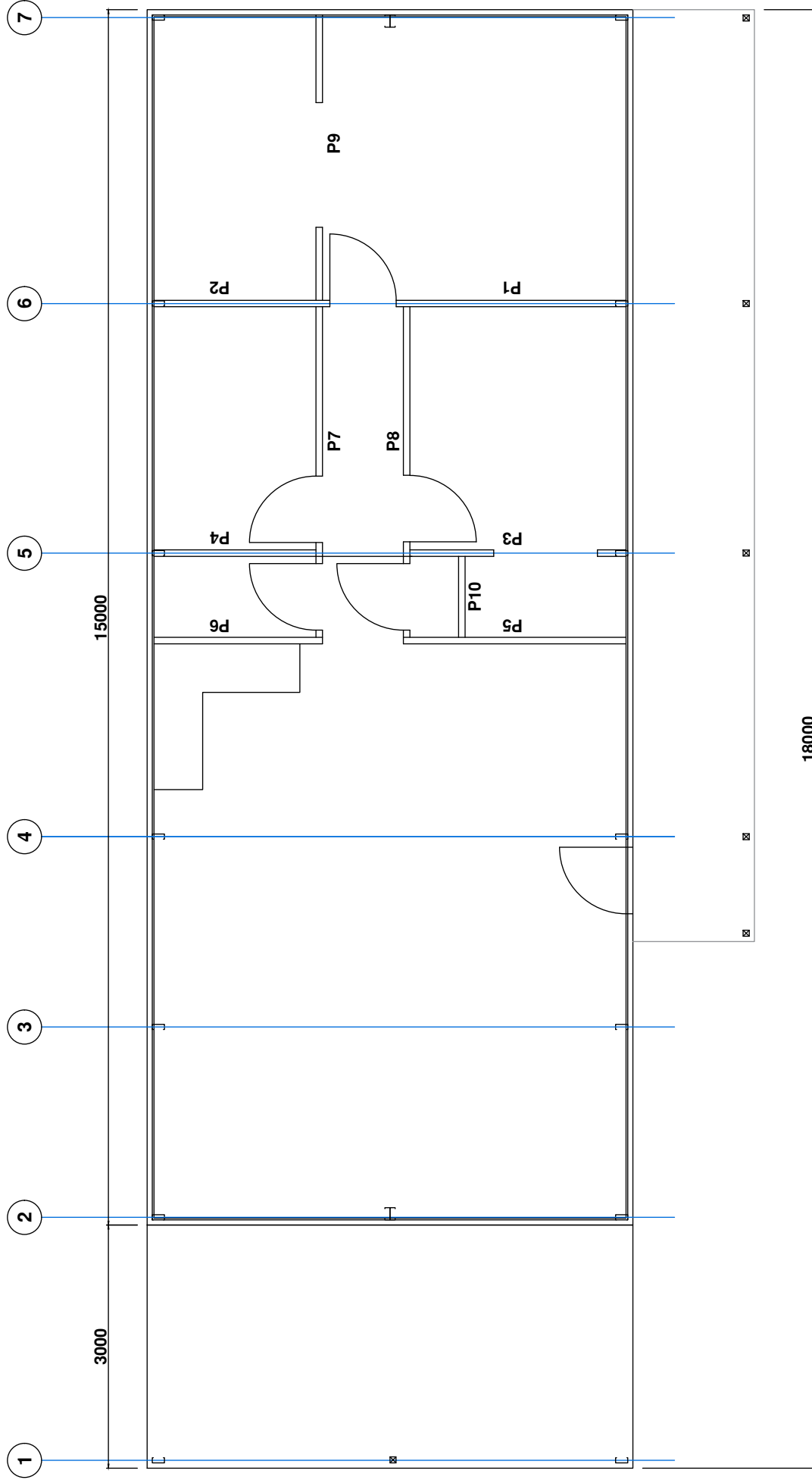
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PANEL LAYOUT

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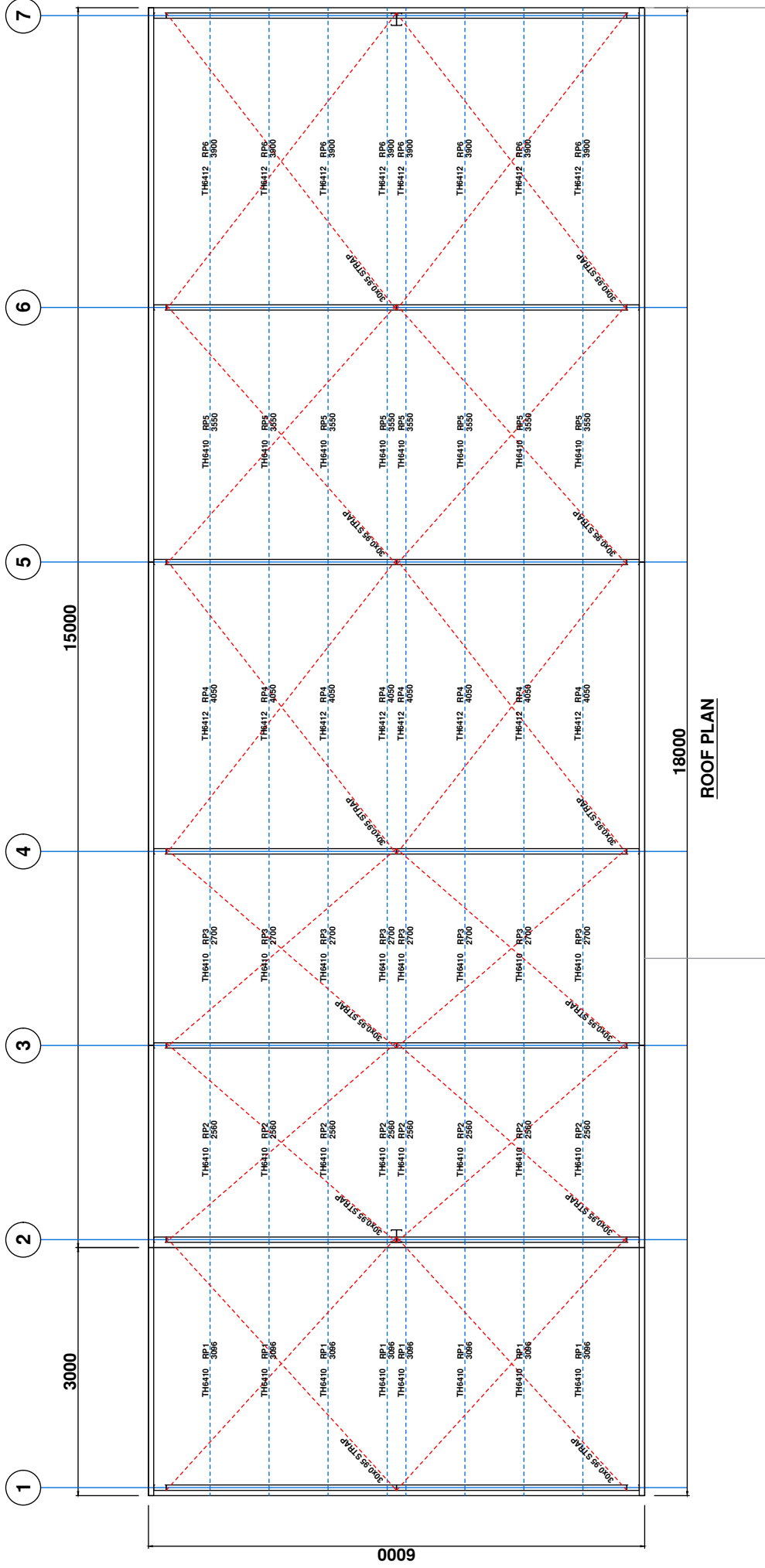
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18000  
ROOF PLAN

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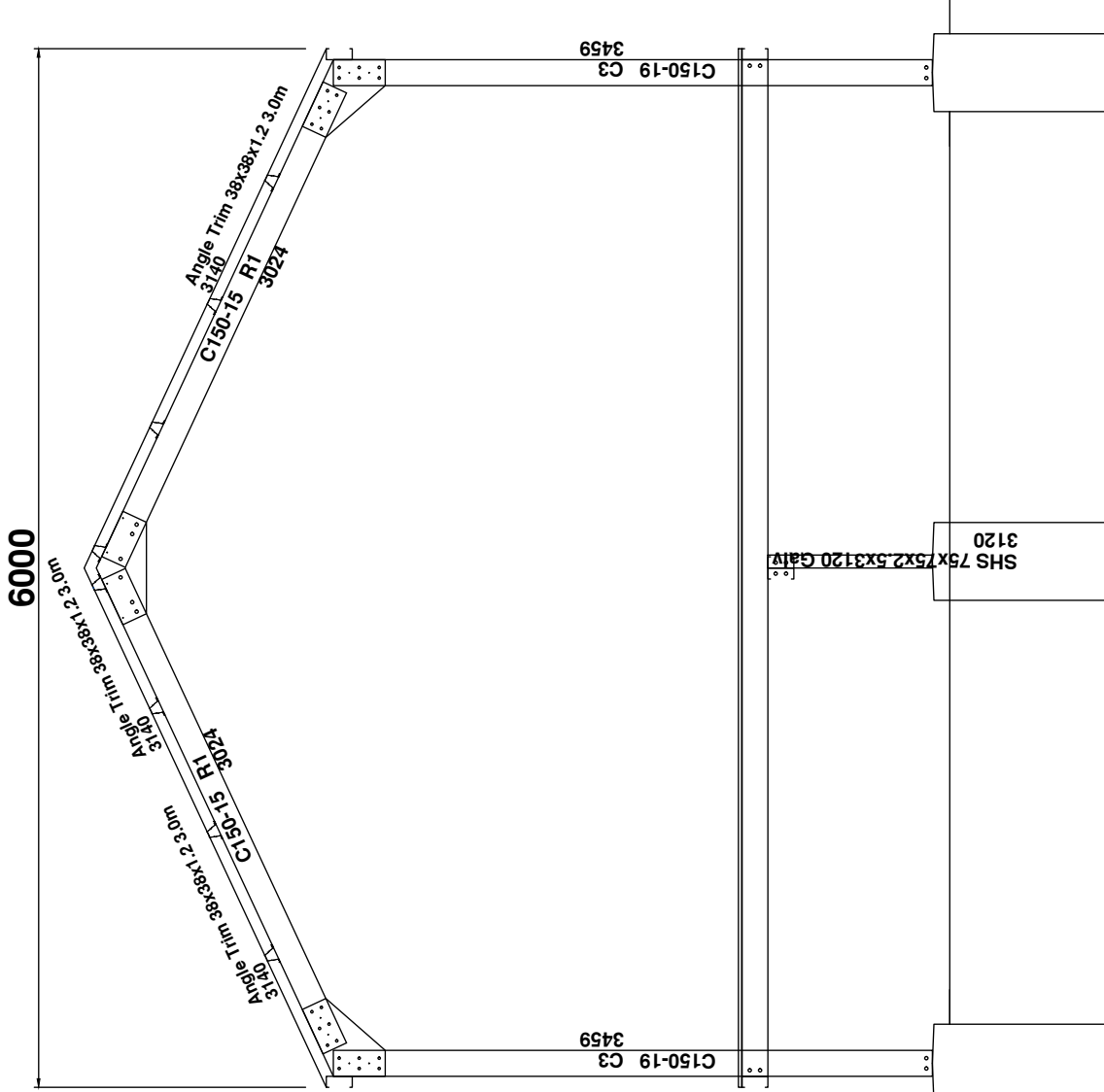
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# PORTAL SECTION 1

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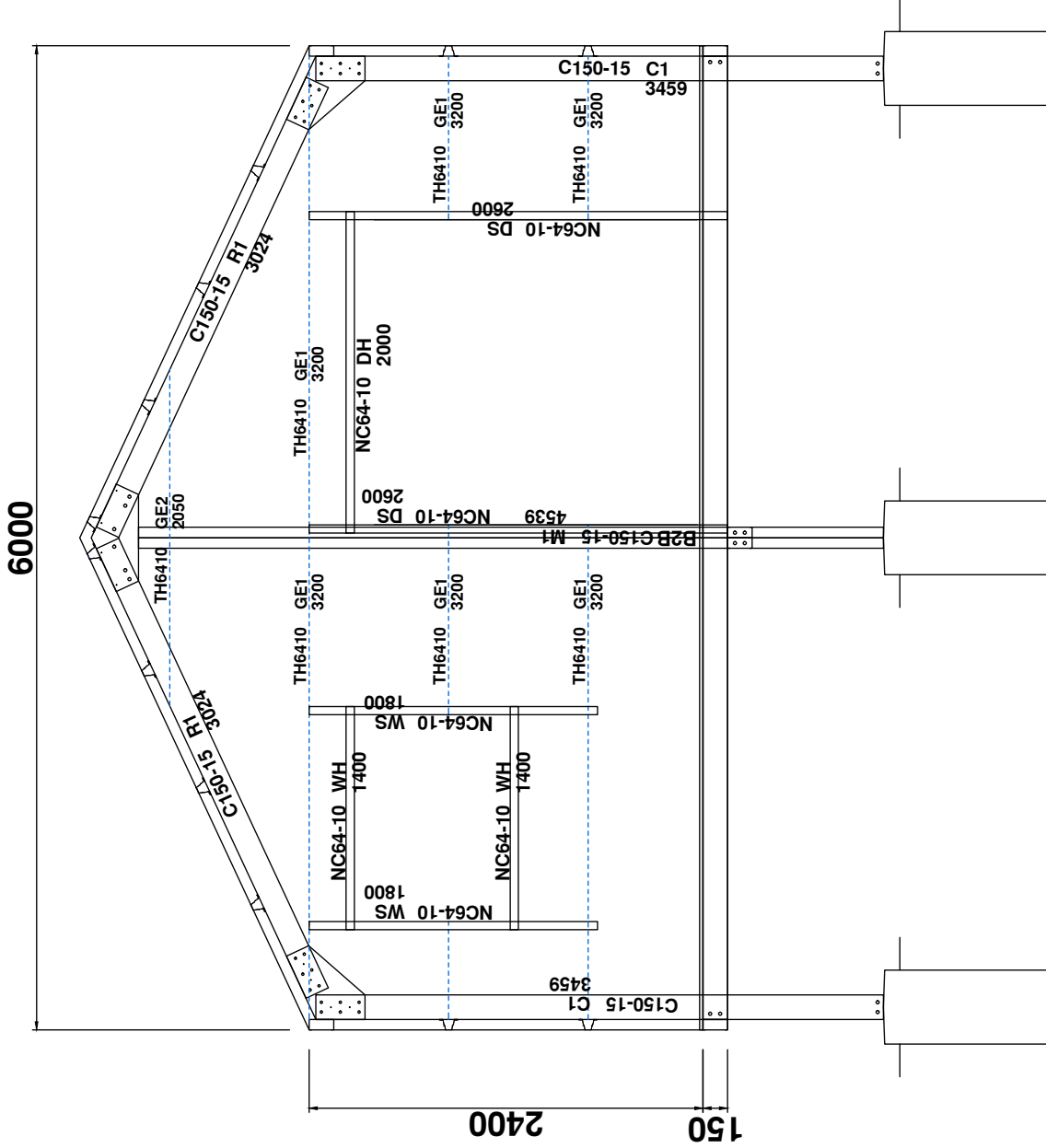
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## PORTAL SECTION 2

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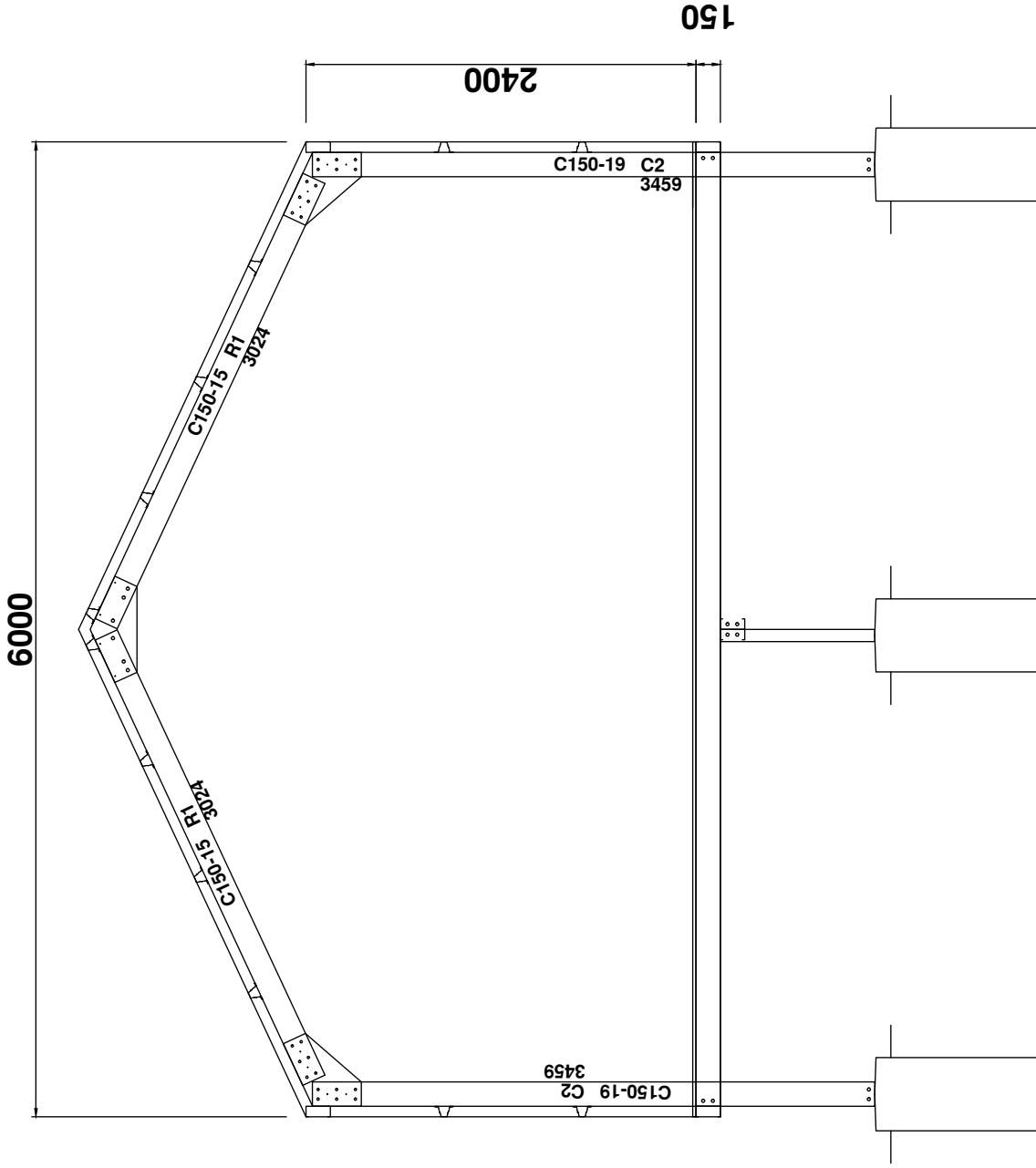
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### PORTAL SECTION 3

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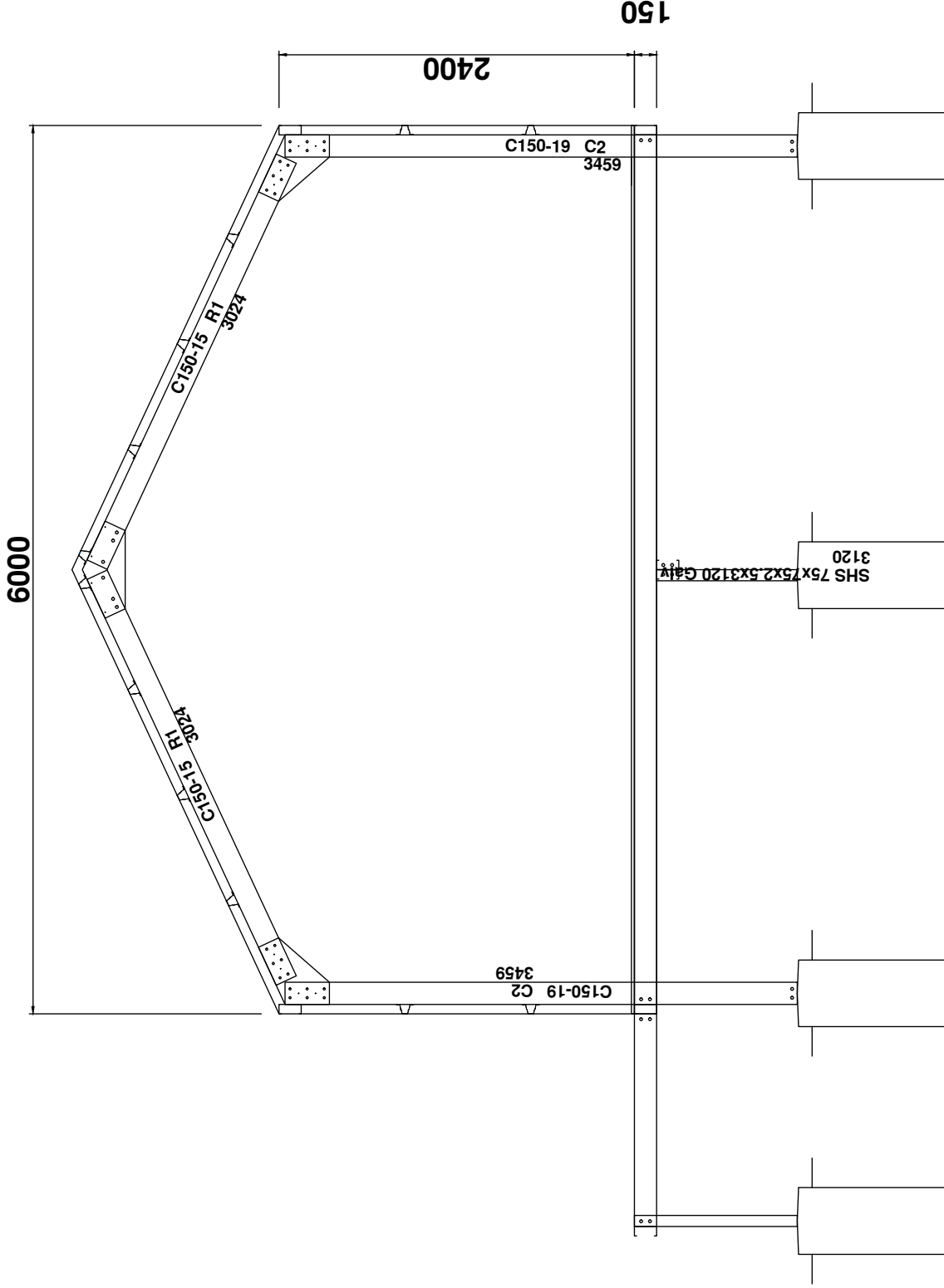
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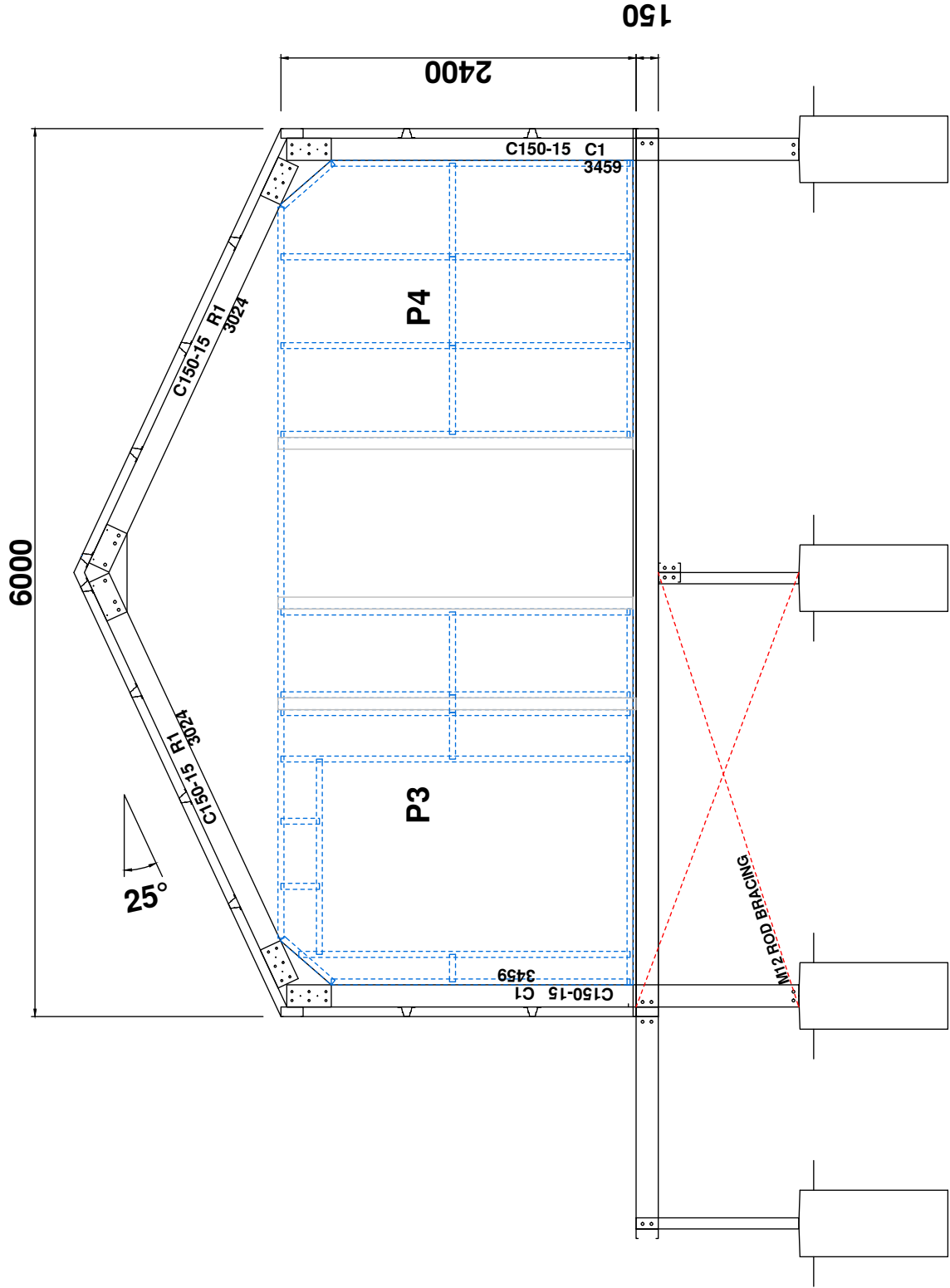
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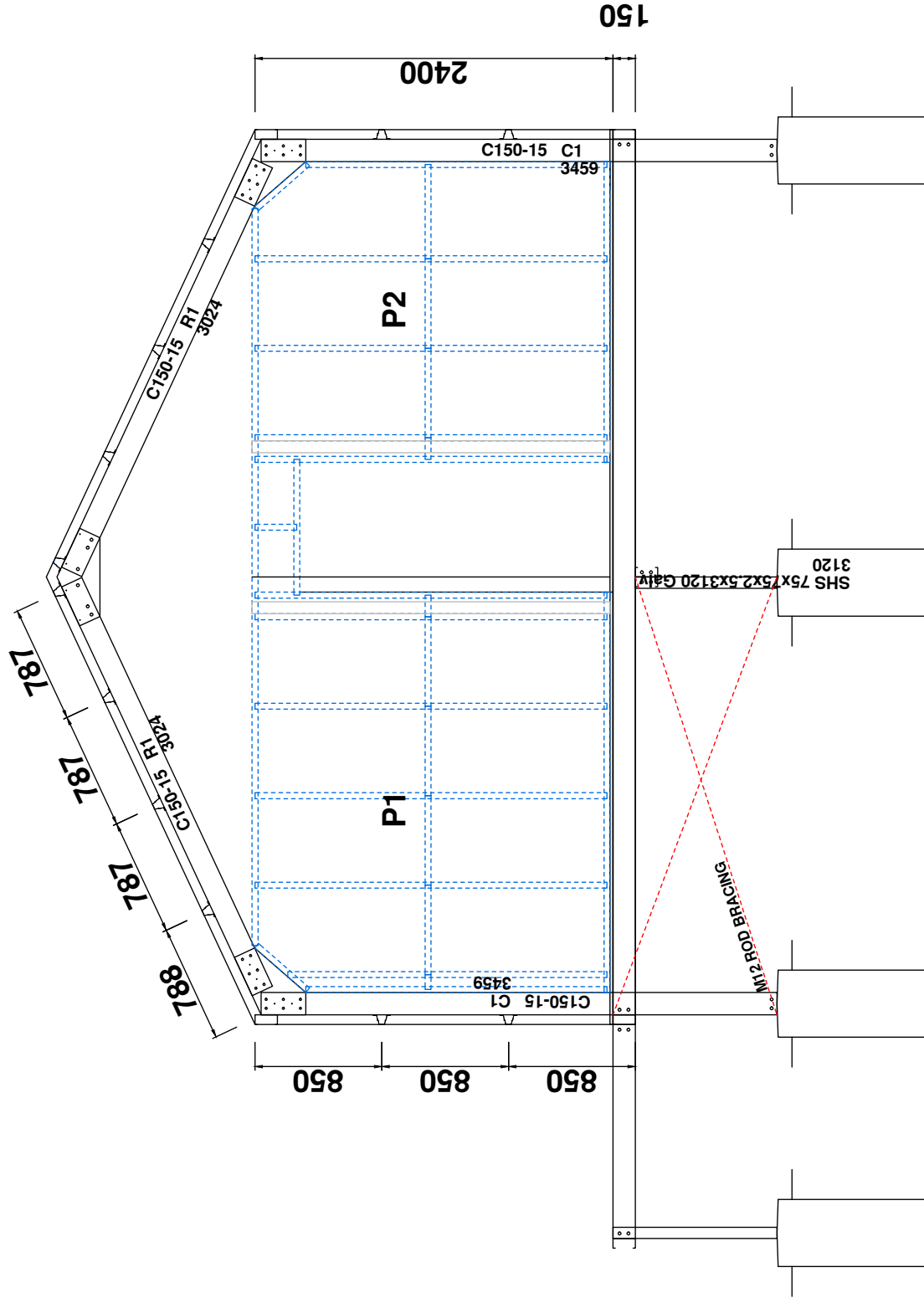
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### PORTAL SECTION 6

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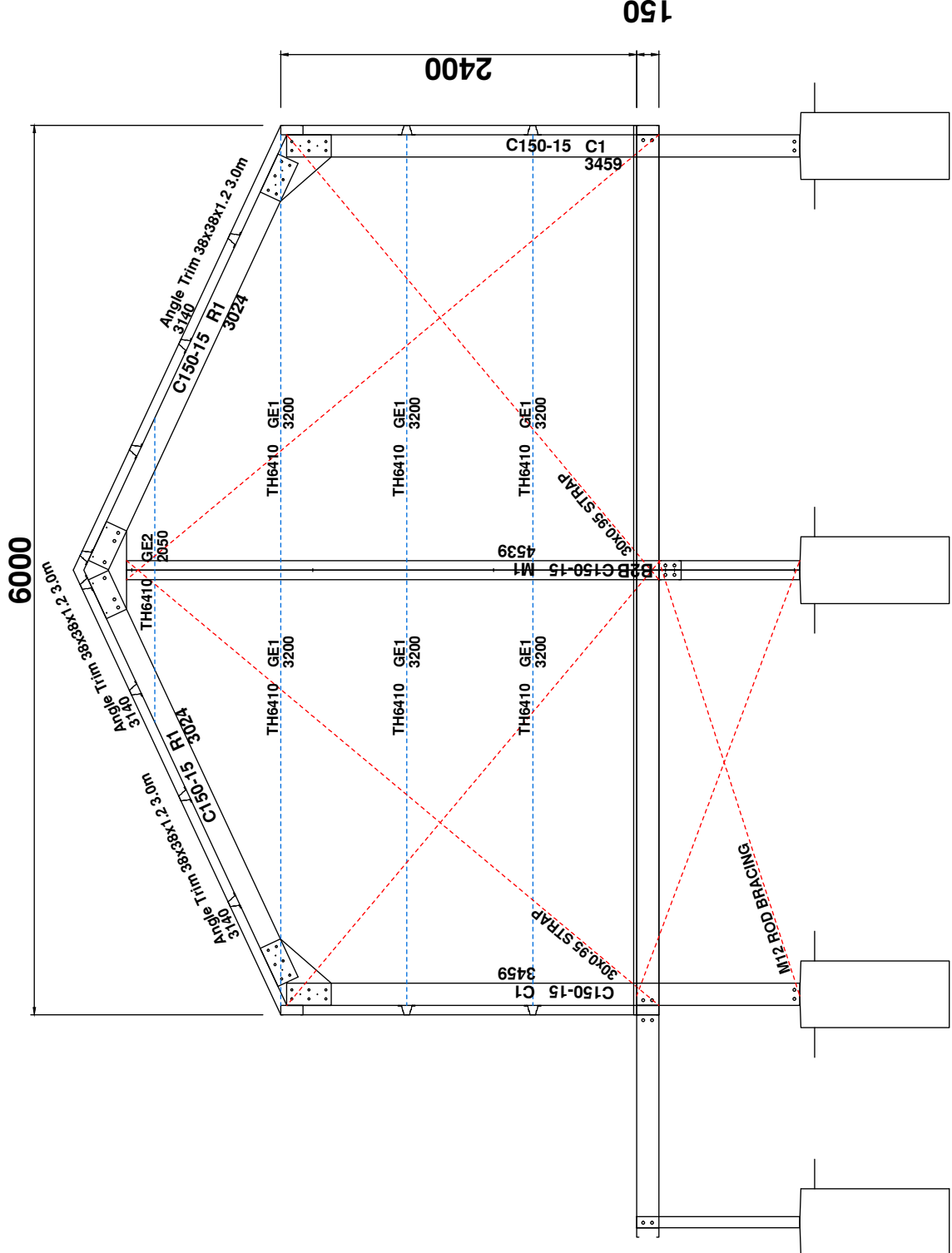
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CHECKED:	AZ
DATE:	21/03/22
SHEET:	12 of 16
REVISION:	A



### PORTAL SECTION 7

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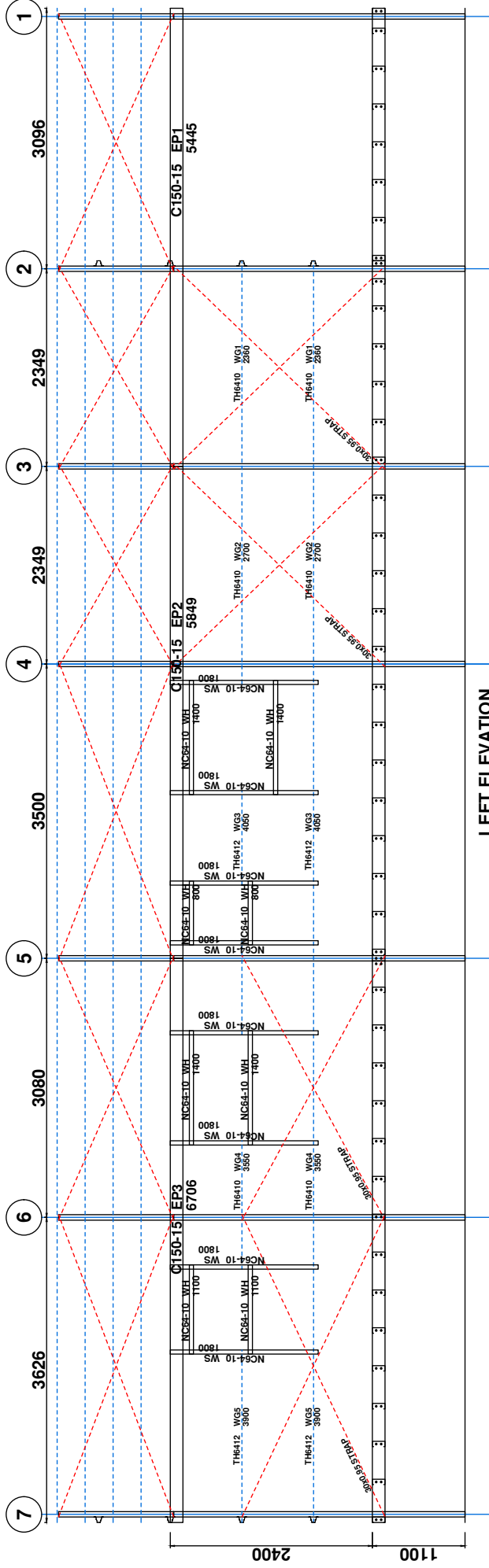
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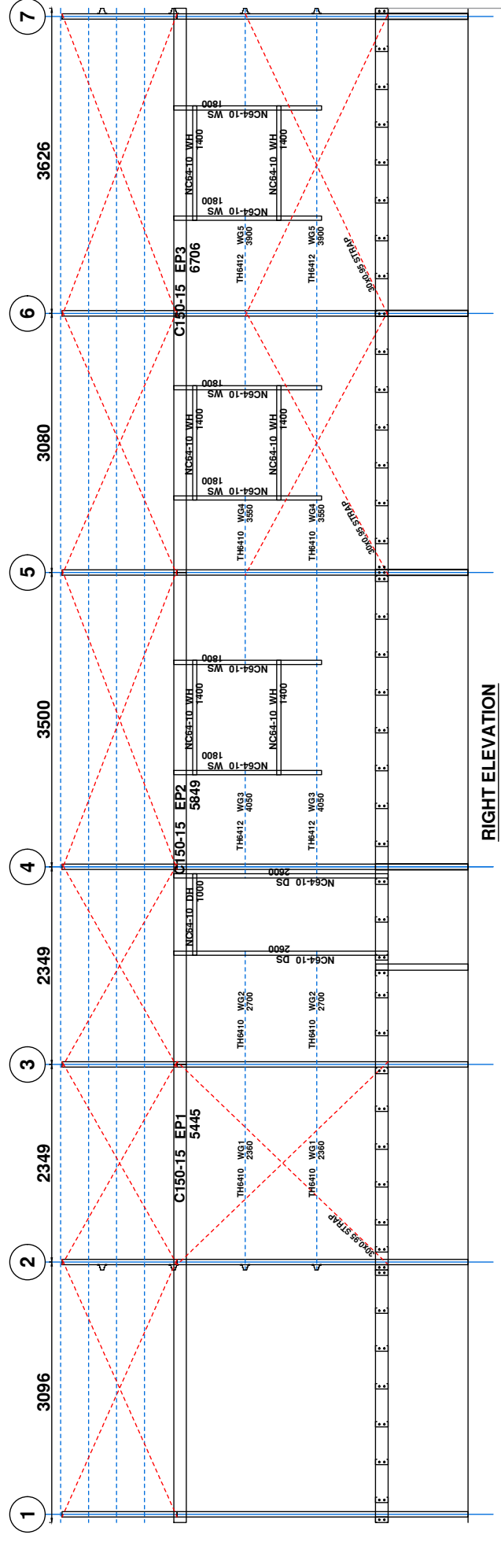


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LEFT ELEVATION



RIGHT ELEVATION

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**STEEL SHEDS AUSTRALIA**  
ACN 635 514 304  
74 Platinum St Crestmead  
Brisbane QLD 4132  
PH: (07) 3827 8000 FAX: (07) 3803 2315

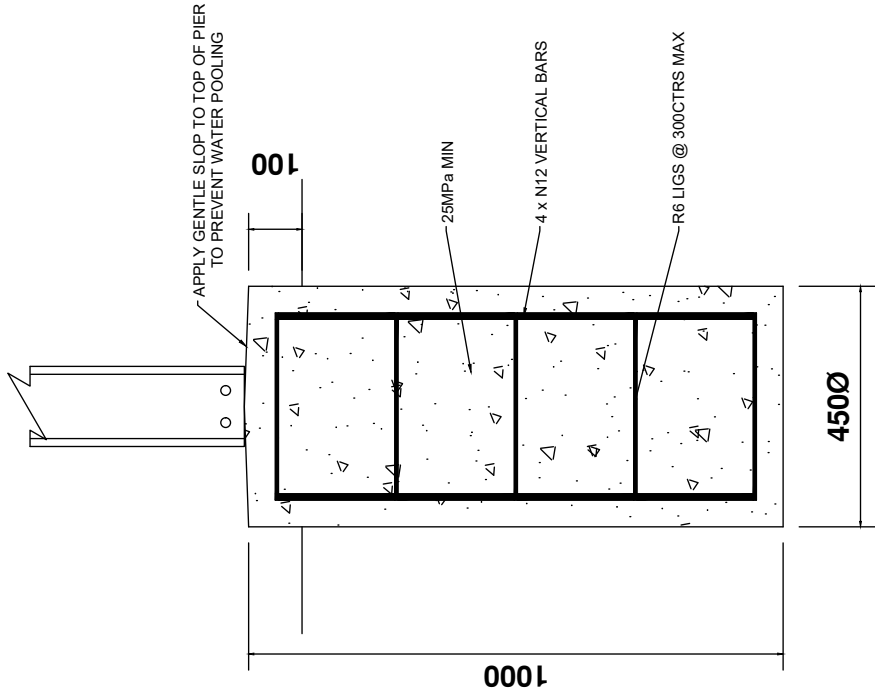


DRAWING TITLE:

**SPENCER  
2 BASKERVILLE DR  
MUDGEES NSW 2850**

JOB/DRAWING No: **PR376**

SCALE: **1:30** SHEET: **14 of 16**  
DRAWN BY: **MZ** CHECKED: **AZ** DATE: **21/03/22** REVISION: **A**



# DP1

I certify that buildings erected in accordance with these drawings will comply with the Building Code of Australia.

.....  
**Wirth L. Bayliss**  
 B.Sc. (Civil), M.Tech. (Building/Services), PHD (Structures), MIE (Inst. ME), PEng. (881707), RPEQ. (16592), RBP. (VIC) (PE0002085), (NSW) (BC3146), BSE. (Tas) (702601568)

DATE: .....

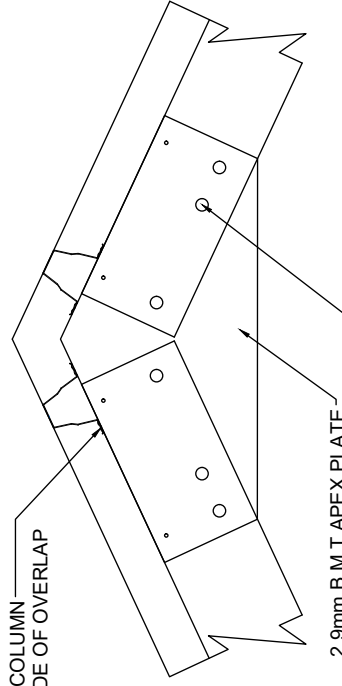
**STEEL SHEDS AUSTRALIA**  
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DRAWING TITLE:  
**SPENCER  
 2 BASKERVILLE DR  
 MUDGEES NSW 2850**

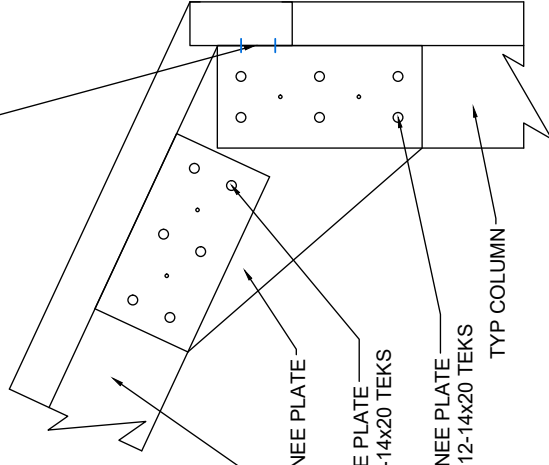
JOB/DRAWING No: <b>PR376</b>	
SCALE: <b>1:10</b>	SHEET: <b>15 of 16</b>
DRAWN BY: <b>MZ</b>	CHECKED: <b>AZ</b>
DATE: <b>21/03/22</b>	REVISION: <b>A</b>

CONNECT TOPHAT TO RAFTER / COLUMN  
USING 4 x #12-14x20 TEKS & 2 x EACH SIDE OF OVERLAP



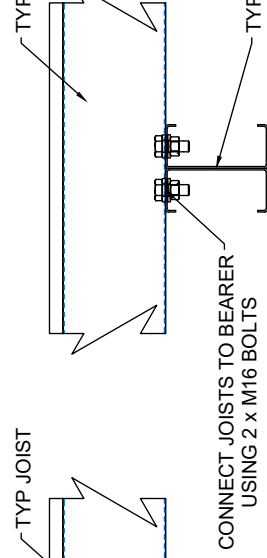
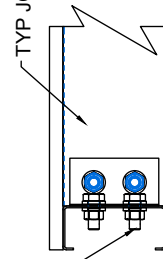
2.9mm B.M.T. APEX PLATE  
CONNECT RAFTER TO APEX PLATE  
USING 6 x M16 BOLTS & 5 x #12-14x20 TEKS

CONNECT EAVE PURLIN TO COLUMN  
USING 4 x #12-14x20 TEKS

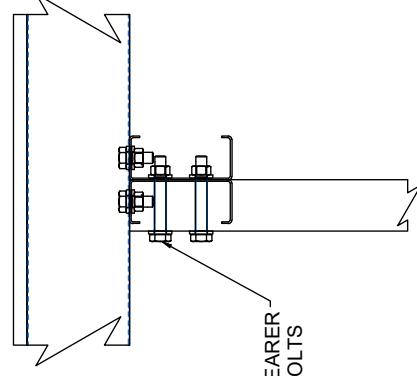


TYP RAFTER  
2.9mm B.M.T. KNEE PLATE  
CONNECT RAFTER TO KNEE PLATE  
USING 6 x M16 BOLTS & 5 x #12-14x20 TEKS  
CONNECT COLUMN TO KNEE PLATE  
USING 6 x M16 BOLTS & 5 x #12-14x20 TEKS  
TYP COLUMN

CONNECT JOIST TO BEARER USING 1 AC  
BRACKET & 2 x M12 BOLTS PER CONNECTION



CONNECT JOISTS TO BEARER  
USING 2 x M16 BOLTS



CONNECT POST TO BEARER  
USING 2 x M12x100 BOLTS

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Wirth L. Bajissa  
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RBP (Vic) (PE0002085), (NSW) (BC/CL146), BSF (Tas) (702601568)

DATE:

**STEEL SHEDS**

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DRAWING TITLE:

**SPENCER  
2 BASKERVILLE DR  
MUDGEES NSW 2850**

JOB/DRAWING No: **PR376**

SCALE: **N.T.S**

SHEET: **16 of 16**

DRAWN BY: **MZ**

CHECKED: **AZ**

DATE: **21/03/22**

REVISION: **A**