

Proposed Alterations & Additions
HI NOON SKI CLUB
12 BANJO DRIVE THREDBO NSW 2625

PRACTICAL ENGINEERING SOLUTIONS P/L



ACN 157 931 069

STRUCTURAL DRAWING LIST

SHEET NO	TITLE
S01	COVER
S02	SPECIFICATIONS
S03	FOOTING, ACCESS PATH & FLOOR PLAN
S04	PATH LONG SECTION
S05	FRAMING PLAN
S06	SECTIONS



Department of Planning
Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No 24/17507

Granted on the 26/2/2025

Signed Z Derbyshire

Sheet No 21 of 29

PRACTICAL ENGINEERING
SOLUTIONS P/L

ABN 67 157 931 069

**Structural &
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Drawing Name:

Proposed Alterations & Additions
HI NOON SKI CLUB
12 BANJO DRIVE THREDBO NSW
2625

Client:

HI NOON SKI CLUB

Structural Sheet No. S01 of 6

Scale: NTS
Date: 15.07.2024
Drawing No: 20230727A
COVER PAGE

Sheet Size: A3
Designed: O Boaru
Drawn: A Sferle
Checked: O Boaru

Approved:

Ovi Boaru MIEAust CPEng

ISSUE	DATE	AMENDMENT	INITIALS
V1	08.08.24	FOOTPATH	OB

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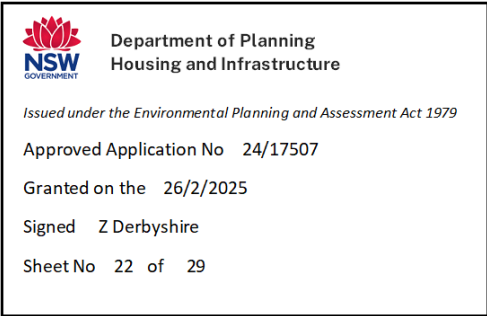
Refer to specification for other relevant information details.

NOTES:

- 1. All workmanship and materials to conform with the latest edition of the building code of Australia and relevant Australian standards.
- 2. It is not implied or guaranteed that all structural designs and details shown in these plans are complete. The scope of the work has been determined by the Engineer based on the information supplied by the client or the clients consultants. The Engineer will provide further designs if required, but is not responsible for any associated cost where design details have not been specifically requested.
- 3. All dimensions on these plans should be checked on site by the builder and verified using Architectural plans and other contract documents. Discrepancies to be referred to the Architect or Engineer.
- 4. DO NOT SCALE FROM THESE DRAWINGS
- 5. The structural details shown in these plans are applicable to the Architectural plans and building elements by TZ DESIGN Architect indicated therein:
Plans No. - 353 revision E
Plan date - 09.01.23
Roof Structure -
Wall Structure -
Floor Structure - BEARERS & JOISTS
- 6. Reference to UNO = Unless Noted Otherwise & NA = Not Applicable.
- 7. Handrail construction to BCA requirements. NA
- 8. Where disturbed existing building must have bracing and tie-down investigated by the builder and referred to the Engineer for compliance checking.

SITE CONDITIONS:

- 1. Stability/Vegetation - NA
- 2. Drainage - NA
- 3. Soil Type/profile - NA
- 4. AS2870 - 2011 site classification - Class 'P' See geotech report
- 5. AS4055 - 2012 wind classification N3 40m/s (Vh,u).
- 6. AS1170.3 - 2003 Ultimate Ground Design 1 / 150 Snow Load AT Thredbo - 9.3 KPa



CONCRETE:

- 1. All concrete works to be in accordance with AS3600 2001
- 2. Concrete strength cover and durability details (refer AS3600)
Footings - 32 MPa
Internal Slab Garage -25MPa
External Slab - 40 MPa (or 20MPa if weather proofed, ie tiling)
Beams/Columns - NA
- 3. All reinforcement to be adequately supported on bar chairs in correct positions.
- 4. Concrete to be formed as required by AS3610 and compacted in accordance with AS3600 and AS3610 to achieve specified or relevant density durability and strength.
- 5. All reinforced fabric to be lapped one mesh panel plus 25mm and reinforcement bars lapped 40 bar diameters, UNO.

FOOTINGS:

- 1. Footings and slabs on ground designs conform with AS 2870-2011.

MASONRY:

- 1. All masonry (clay, stone and concrete) to comply with AS3700 2011. masonry code.
- 2. Masonry control joints to AS3700.
- 3. Core fill grout mix for hollow block fill to be 20 MPa.

TIMBER:

- 1. All timber construction to comply with Australian Framing Code AS1684.2 - 2010.
- 2. Bracing and tie down as shown on These Sheets comply with AS 1684.2-2010.
- 3. For external use, use Class 1 or Class 2 HW or Treated Timbers.

STEEL:

- 1. All steel construction to comply with AS4100 steel structures code and AISC Connection Details.

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Structural Sheet No. S02 of 6

Scale: NTS
Date: 15.07.2024
Drawing No: 12.07.2024
COVER PAGE
Sheet Size: A3
Designed: O Boaru
Drawn: A Sferle
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SECURE BR1 & BR1a TO
PB3 & PB4

BOLT BR1a TO EXISTING TIMBER STUD WALL AND
EXISTING P1* - WITH MIN 2 M12
BUILDER TO COREFILL THE CORNER OF THE
BESSER BLOCK BELOW, REINSTATE THE CURRENT
DISCONTINUOUS M12 TIE DOWN ROD AND
STRENGTHEN EXISTING WALL SUPPORTS AS
NECESSARY. BUILDER TO ENGAGE ENGINEER AND
CONFIRM FINAL UPGRADE AND CONNECTION
METHODS ONCE CLADDING IS REMOVED.

* THIS REPORT HAS USED INFORMATION FROM
ASSETGEOENVIRO GEOTECHNICAL INVESTIGATION REPORT -
REF 7404-R1 DATED 18 NOVEMBER 2023 - SITE
CLASSIFICATION 'P'.

KEY:

* 9.77 SITE MEASUREMENTS WITH A DUMPY
LEVEL & TAPE
9.77 FOR EXAMPLE IS 230 mm BELOW THE
10.00 ASSUMED FLOOR LEVEL IN THE
LODGE

CONNECT BR1 TO NEW THICKENING - USE A 100 x 100 x 8 EA
CHEMSET 2 M16 INTO SLAB



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Existing V shaped
road concrete gutter

TREE - EXISTING. SOME BRANCHES
MIGHT REQUIRE PRUNING TO ALLOW
FOR MINIMUM 2,100 CLEARANCE

Construct dishdrain approximately 2
meters long to match with existing road
drainage levels and profile.

PROPOSED 1200 WIDE -
40 MPa - 100 THICK ACCESS PATH.
USE SL 82 CENTRAL WITH SAW CUT
TOOLED JOINTS AT 2 METER
CENTER.
REMOVE TREE ROOTS AND PLACE
ROOT DETERRENT/INHIBITOR
ADMIXTURE UNDER FOOTPATH IN
THE VICINITY/DRIP LINE OF THE
EXISTING TREE .

FOOTING & PATH PLAN
SCALE 1:100

SYMBOL	SPECIFICATION	MAX SPAN
BR1	100 x 5.0 SHS SUPPORTED ON 89 x 5.0 SHS POSTS	2.60 m
BR1a	100 x 5.0 SHS SUPPORTED BETWEEN EXISTING BR*	2.60 m
BR2	100 x 5.0 SHS SUPPORTED ON 89 x 5.0 SHS POSTS	2.30 m
BR3	100 x 8 EA or 100 x 5.0 SHS BEARER	1.6 m
P1, P2, P3	75 x 5.0 SHS - 4 M12 TO FOOTING	-
Pa, Pb	75 x 3.0 SHS - 2 M12 TO EXISTING FOOTING.	-
PB1 - PB2	75 x 6.0 SHS - 2 M12 TO EXISTING FOOTING.	-
PB3 - PB4	75 x 5.0 SHS - 2 M12 TO EXISTING FOOTING.	-
B1, B2	180 PFC - SECURED TO EXISTING - SEE SECTION 1-1	-
P*	EXISTING POSTS	-
BR*	EXISTING BEARERS 125 x 75 x 3.0 SHS	-
J1	190 x 45 F7 TP @ 450 CRS - 2 M12 TO BEARERS	2.4 m
J2	100 x 50 x 2.0 RHS or 75 x 50 x 3.0 RHS @ 450 CRS - WELDED	2.4 m

KEY:

- PF1 THROUGH TO PF4 - 450 Ø CONCRETE PIERS BORED 400 mm
INTO 150 KPa NATURAL GROUND AND REINFORCED AS FOLLOWS:
FOR PIERS BETWEEN 600 & 1 METER DEEP PROVIDE 2 N12
VERTICAL BARS CENTRAL REINFORCED
* FOR PIERS BETWEEN 1 AND 2 METERS - SOCKET PIERS 300 mm
INTO DECOMPOSED GRANITE AND PROVIDE A CAGE OF 4 N12 WITH
R6 @ 220 CRS IN EACH PIER. UNDER FOOTINGS EXTEND BARS TO
TOP MESH.
PF5 - 600 Ø BORED 400 INTO NATURAL GROUND AND REINFORCED
AS PER PF1

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Structural Sheet No. S03 of 6

Scale: 1:100

Date: 15.07.2024

Drawing No: 20230727A
FOOTING AND PATH PLAN

Sheet Size: A3

Designed: O Boaru

Drawn: A Sferle

Checked: O Boaru

Approved:

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Structural Sheet No. S04 of 6

Scale: 12:20,1:100
Date: 15.07.2024
Drawing No: 20230727A
PATH LONG SECTION

Sheet Size: A3
Designed: O Boaru
Drawn: A Sferle
Checked: O Boaru

Approved:

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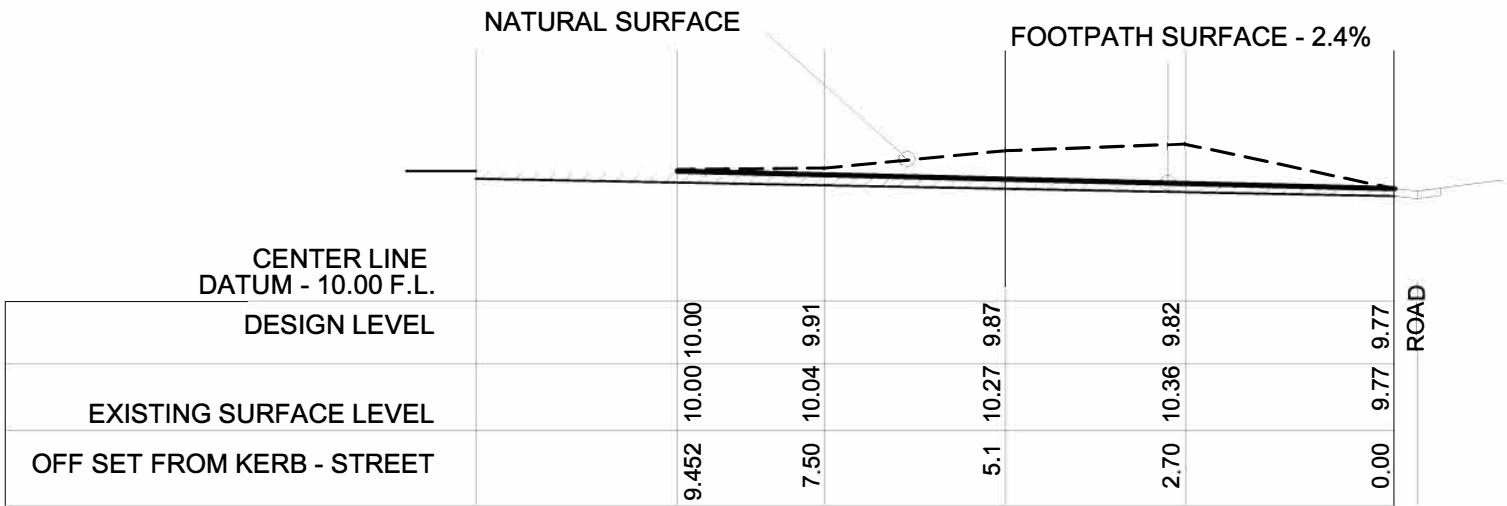
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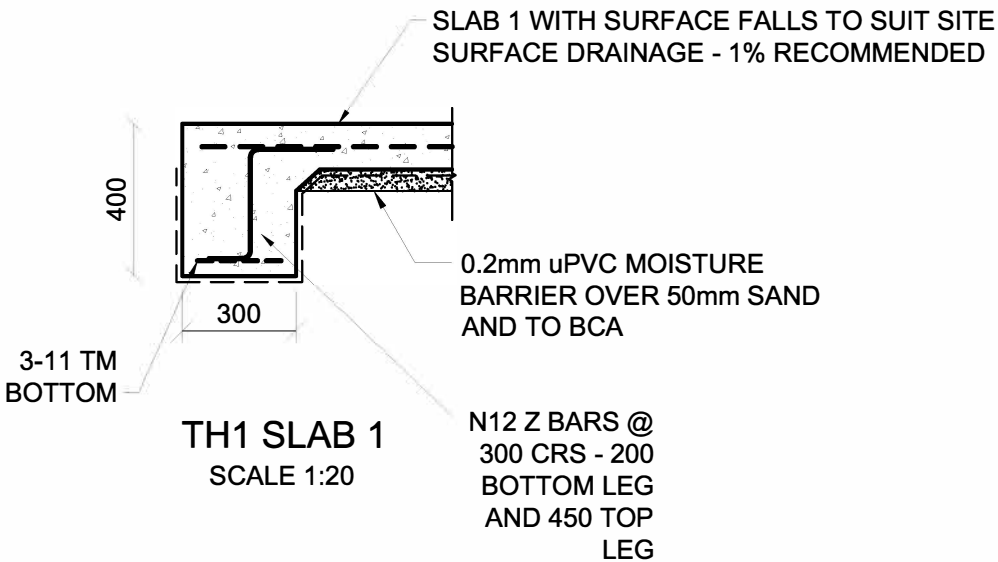
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PROPOSED FOOTPATH LONG SECTION ~
2.1% GRADE
SCALE 1:100





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Housing and Infrastructure

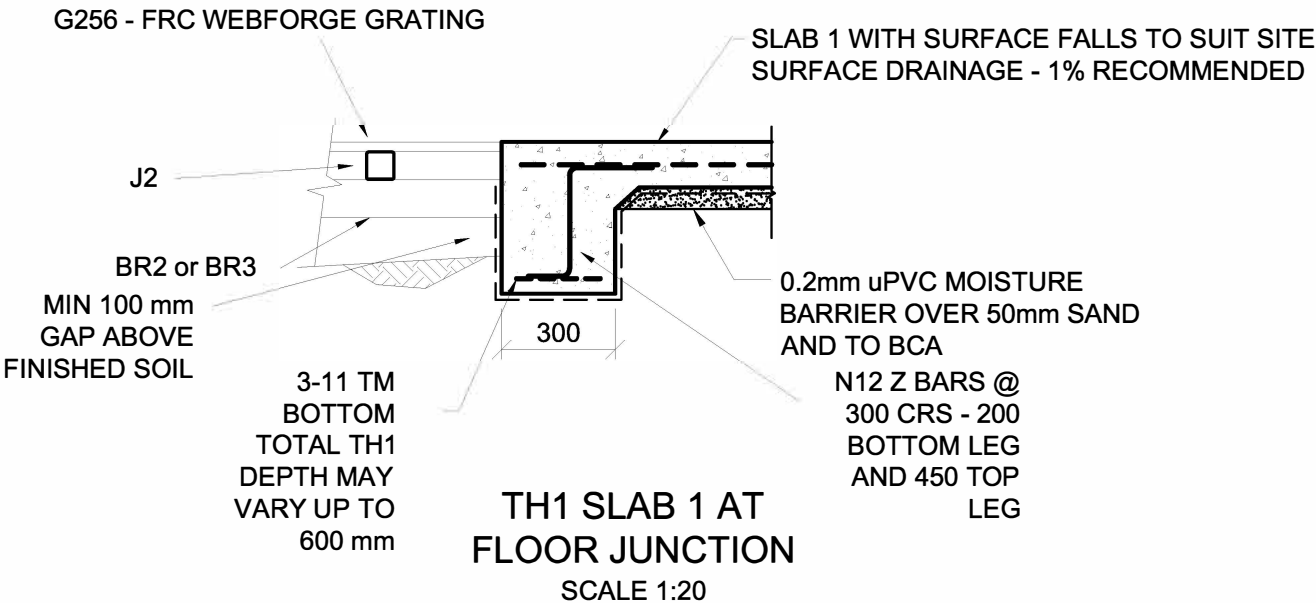
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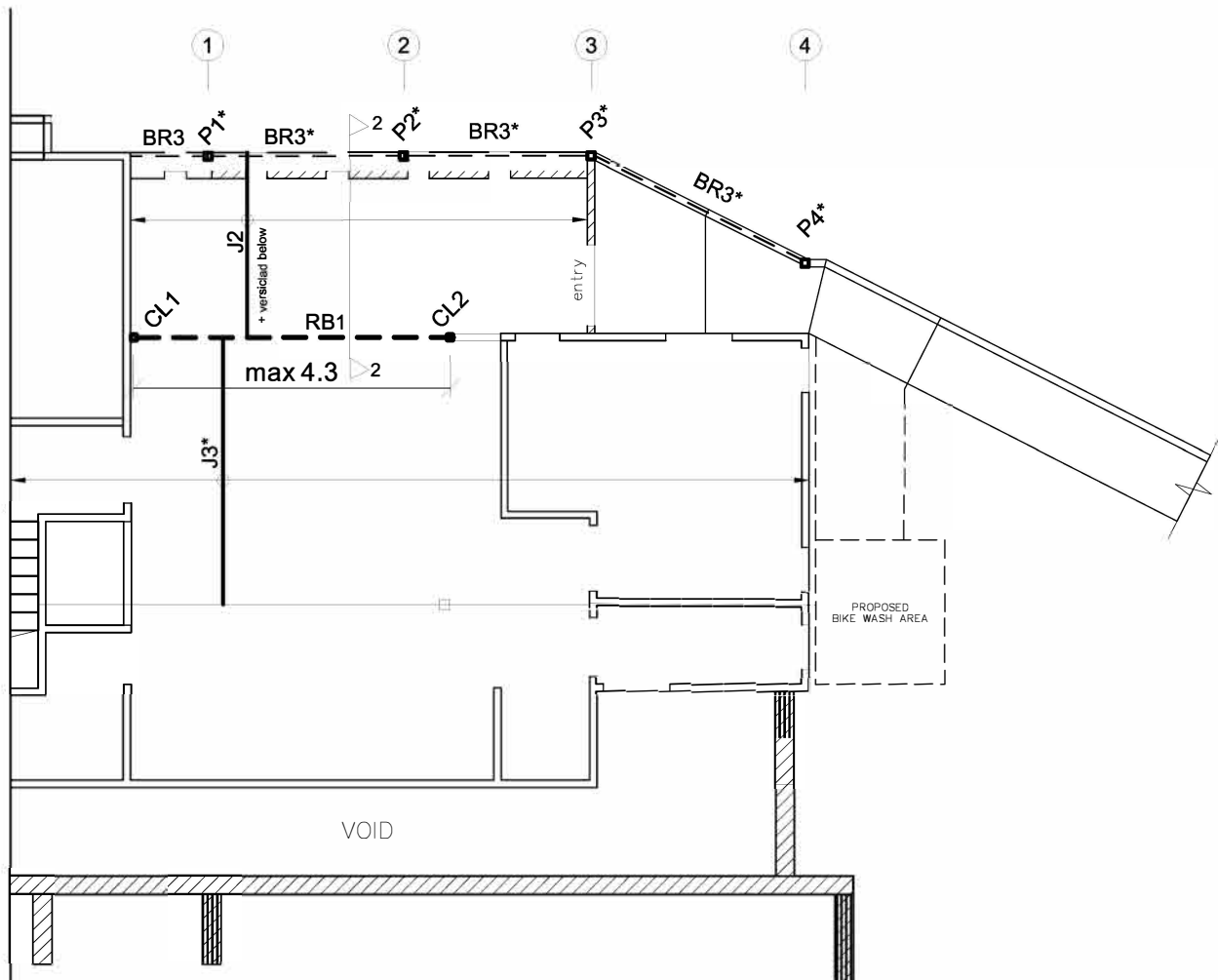
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FRAMING PLAN
SCALE 1:100

SYMBOL	SPECIFICATION	MAX SPAN
RB1	230 PFC WELDED BETWEEN CL1 & CL2	4.3 m
-	-	-
CL1 & CL2	89 x 6.0 SHS TO STEEL BEAM BELOW	-
J*, BR*	EXISTING STRUCTURE	-
-	-	-
-	-	-

Department of Planning
Housing and Infrastructure

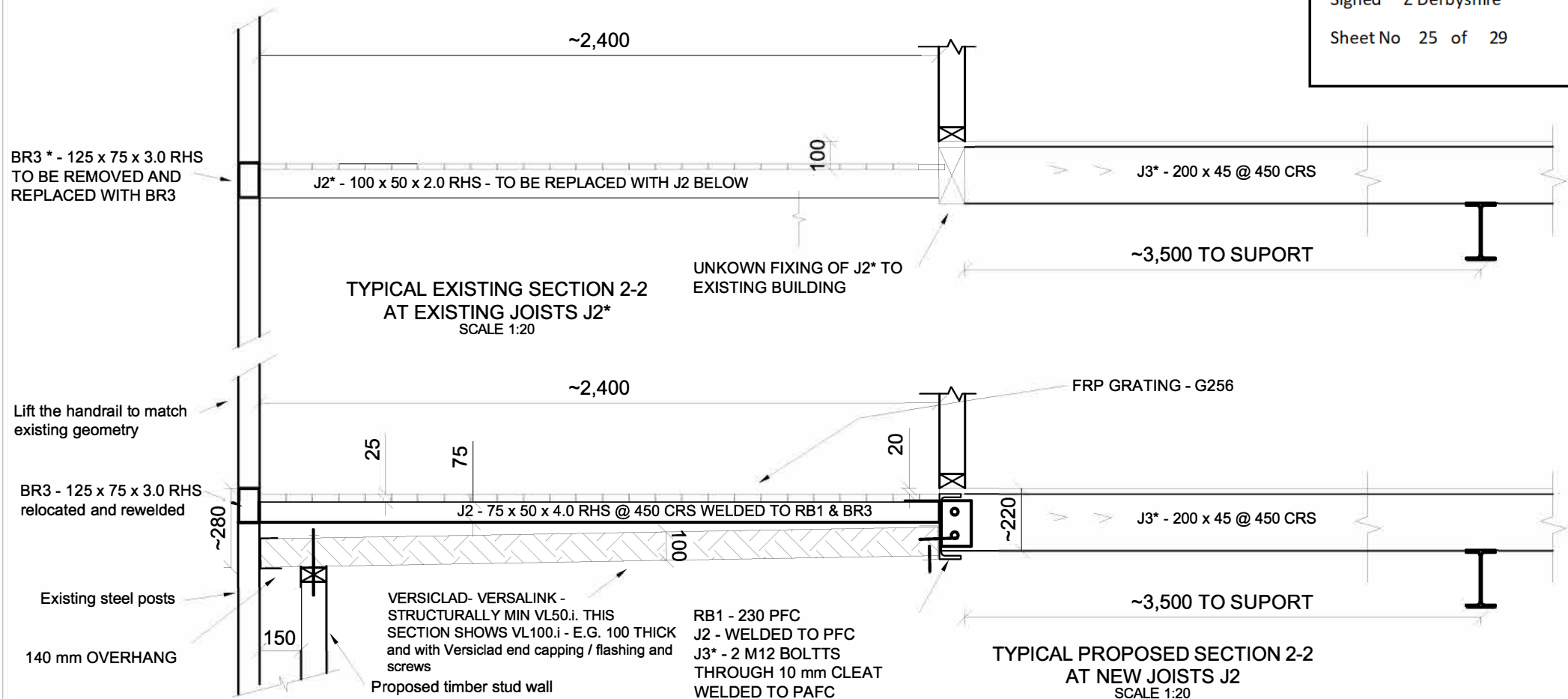
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Structural Sheet No. S05 of 6

Scale: 1:20, 1:100

Date: 15.07.2024

Drawing No: 20230727A

FRAMING PLAN

Sheet Size: A3

Designed: O Boaru

Drawn: A Sferle

Checked: O Boaru

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Structural Sheet No. S06 of 6

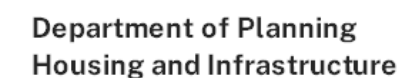
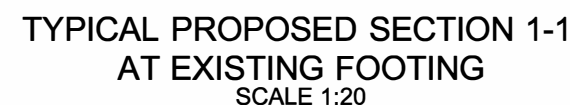
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