G. GENERAL NOTES

- G1. These notes shall be read in conjunction with all engineering drawings, the contract specification and other written instruction as may be issued. In case of discrepancy, precedence is given to drawings, notes, then specification.
- G2. These drawings shall not be used for committing to material orders, or construction until authorized and issued for construction.
- G3. Definitions:

UNO = Unless noted otherwise

Engineer = Nominated representative of Grounded Engineering

Principal = Chris Mould

G4. Unless noted therwise:

All dimensions are given in millimetres

All co-ordinates are to map grid Australia (MGA)

All levels are given to Australian Height datum (AHD)

- G5. All dimensions relevant to setting out and off site work shall be verified by the contractor before construction and fabrication is commenced.
- G6. Do not obtain dimensions by scaling from drawings.
- G7. Refer all discrepancies to the principal for resolution before proceeding with work.

G8. Workmanship and materials shall be in accordance with the contract specifications, Australian standards (including all amendments), codes of practice and the requirements of any other relevant statutory authorities. All of the above documents are those current (as verified by the contract documents) at the commencement of the contract.

M. STRUCTURAL STEEL NOTES

M1. All workmanship and material shall be in accordance with the contract specification, AS 5100 and AS 1554 except where verified by the contract documents.

M2. Steel components shall conform to the following table UNO

Plate AS 3678 GRADE 350 AS 3679 GRADE 300 PLUS Hot rolled sections AS1163 GRADE C350 CHS >80mm diametre

AS1111 & AS1112 Iso metric nuts and bolts

High strength steel bolts AS1252

M3. Provide steel members made from whole lengths wherever possible. If necessary, make lengths up of sections joined by complete penetration full strength butt welds ground flush. Where proposed, show joints on shop drawings. Ensure members are concentric at connections (gravity or guage lines to intersect) UNO.

Accurately pre form parts to avoid force and /or restraint during joining.

M4. Welds are to be full penetration butt welds where specified Fillet Welds are to be 6mm continuous using E48XX electrodes or equivalent.

M5. Structural Steel Members must be protected against corrosion in accordance with Table 3.4.4.2 of the BCA.

BOLTING NOTES

M6. UNO connections between two structural steel members shall have a minimum of 2/M16 8.8/S Galvanised bolts in 18mm diameter holes

M7. Bolt type and tightening procedure are designated:

Number - size - strength - grade / tightening procedures

eq. 4-M24 8.8/TB = 4 of 24mm diameter metric high strength structural bolts fully tensioned in bearing mode

M8. The bolting procedure is designated as follows:

4.6/\$ Commercial bolts of strength grade 4.6 to AS 1111 tightened using a standard wrench to a snug tight condition.

8.8/\$ High strength bolts of strength grade 8.8 to AS 1252 tightened using a standard

wrench to a snug tight condition.

8.8/TF High strength bolts of strength grade 8.8 to AS 1252 fully tensioned to AS 4100

designed as a friction type joint.

8.8/TB High strength bolts of strength grade 8.8 to AS 1252 fully tensioned to AS 4100

designed as a bearing type joint.

M9. Holding down bolts to be grade 4.6. UNO supply holding down bolts with two class 5 hexagonal head nuts and two extra large flat washers. Hot dip galvanize holding down bolts, nuts and washers to AS 1214. Tie holding down bolt groups rigidly together prior to installation to ensure correct bolt location.

C. CONCRETE NOTES

- C1. All workmanship and materials shall be in accordance with AS 3600, AS 3610 and the contract specification.
- C2. Where the meaning of abbreviations used is uncertain, refer to engineer for clarification prior to proceeding.
- C3. Unless noted otherwise all cement shall comply with AS 3972:

GP General purpose cement

GB General purpose blended cement

SR Sulphate resistant cement

C5. Concrete shall be nominal class concrete in accordance with AS 3600 and AS 1379 and the following requirements:

Structural element Concrete Exposure Cement Grade Class Type New entry Pavement N40 В1 GP N32 В1 GP Insitu slab & footings

- C11. Footings and slabs-on-ground shall have the following minimum concrete cover to all reinforcement:
 - 40mm to unprotected ground and externally exposed surface
 - 30mm to a membrane in contact with the ground
 - 25mm to an internal surface

C12. External elements are those exposed to weather, rain and water penetration and classified B1 UNO.



Director: PAUL LARKIN PO Box 220 Jindabyne NSW 2627 Email: paul@groundedeng.com Mobile: 0429 071 387

Certification & Site Parameters

Design Loads in accordance with

AS1170.1 - Live loads AS1170.2 - Wind loads AS1170.3 - Snow loads

Wind Class: Vu = 50m/s - N3 (W41N)

Site Soil Class: S Altitude: 1408m AHD Ground Snow Load: 8.6 KPa

Designed: Paul Larkin Design Checked By:

ANSARY CONSULTING ENGINEERS

Tarek El-Ansary

BE(Civil) MEngSc(Civil) MIEAust CPEng.

Date: 20 March 2025

Signed:



Project / Client:

Munjarra lodge stair replacement lot 704 Bobuck lane Thredbo Munjarra lodge

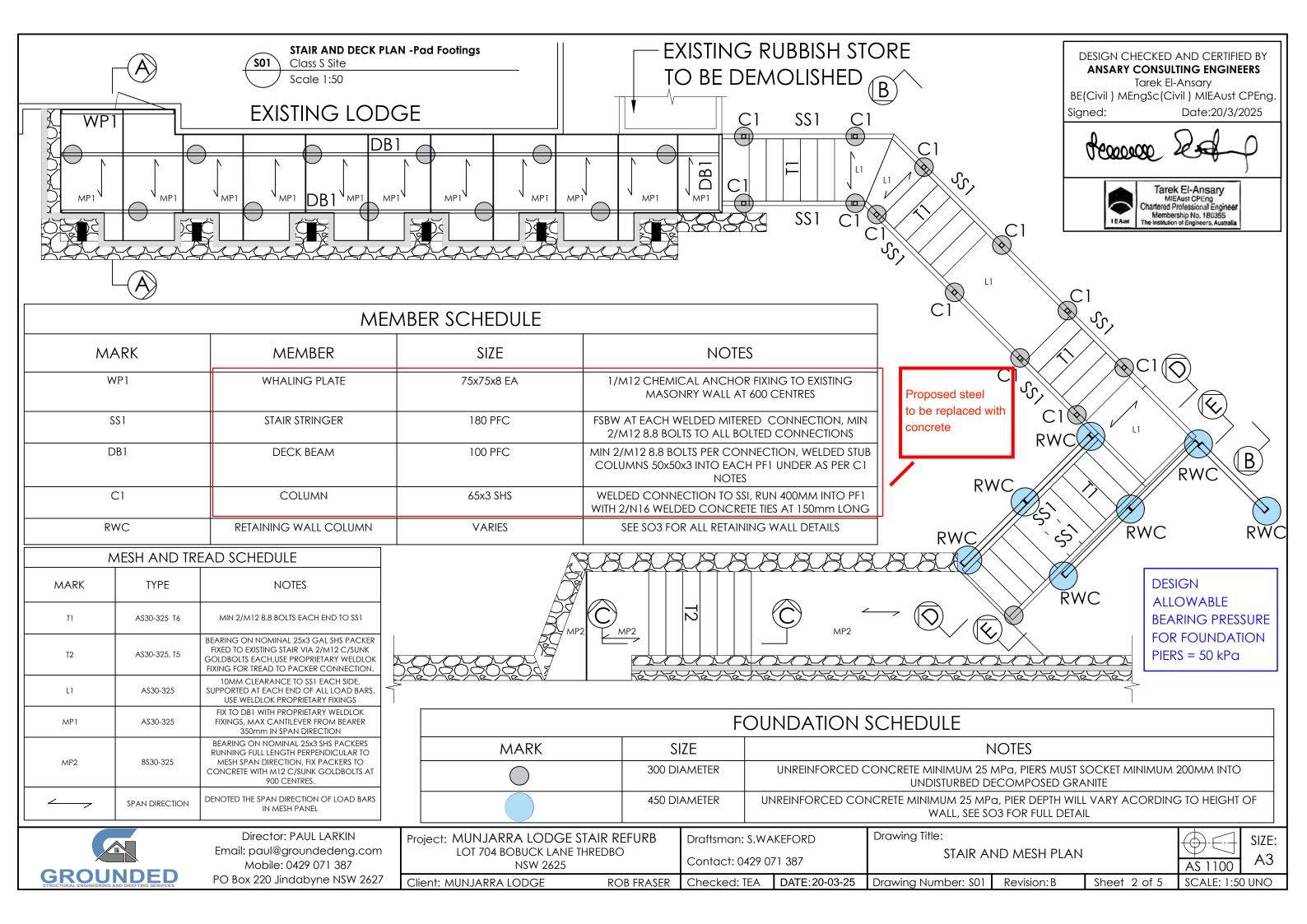
Drawing Title: Cover Sheet Drawn By: S.Wakeford 0429 071 387 Sheet 1 of 5 Checked: DATE: 20-3-2025 SCALE: N/A

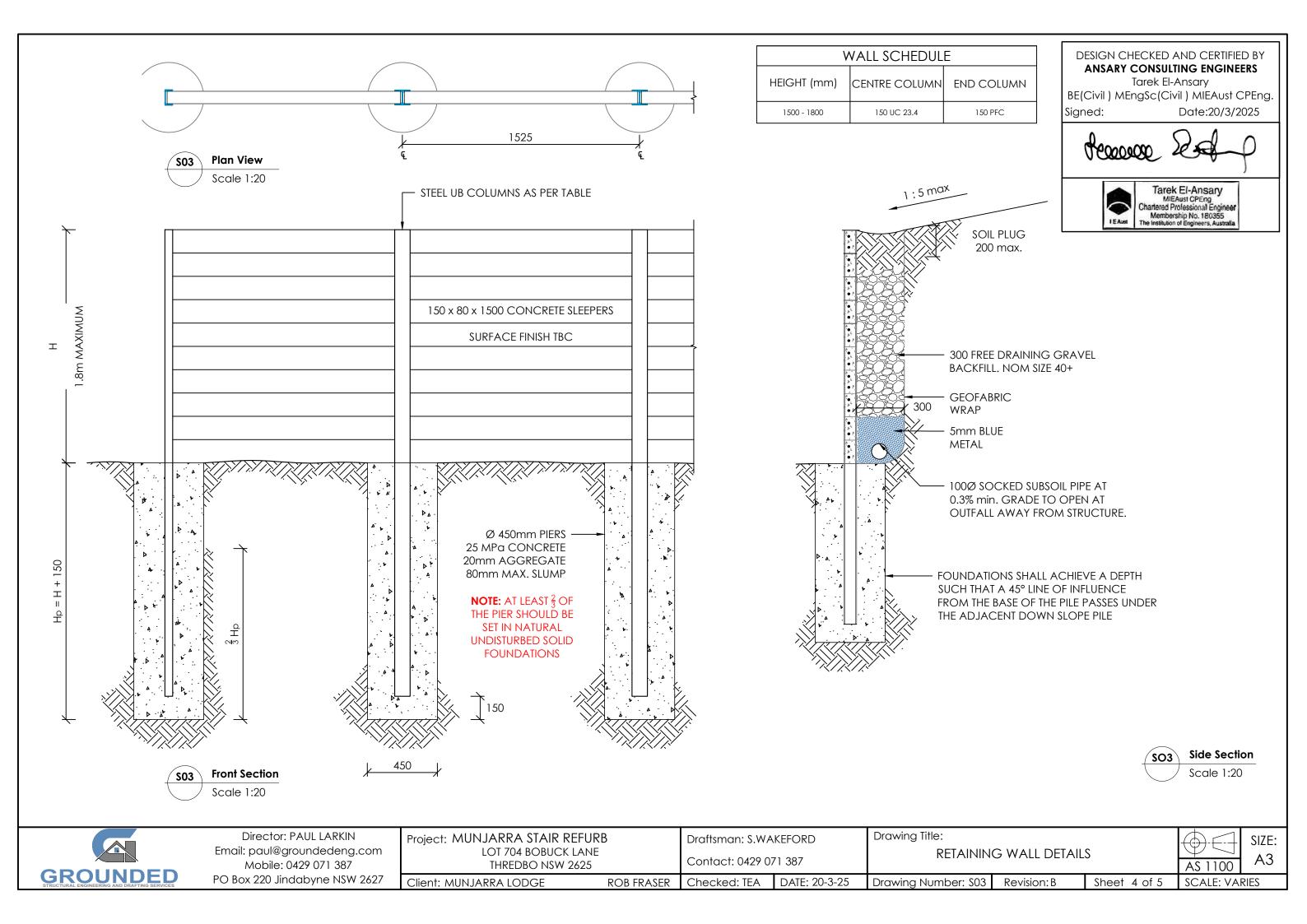
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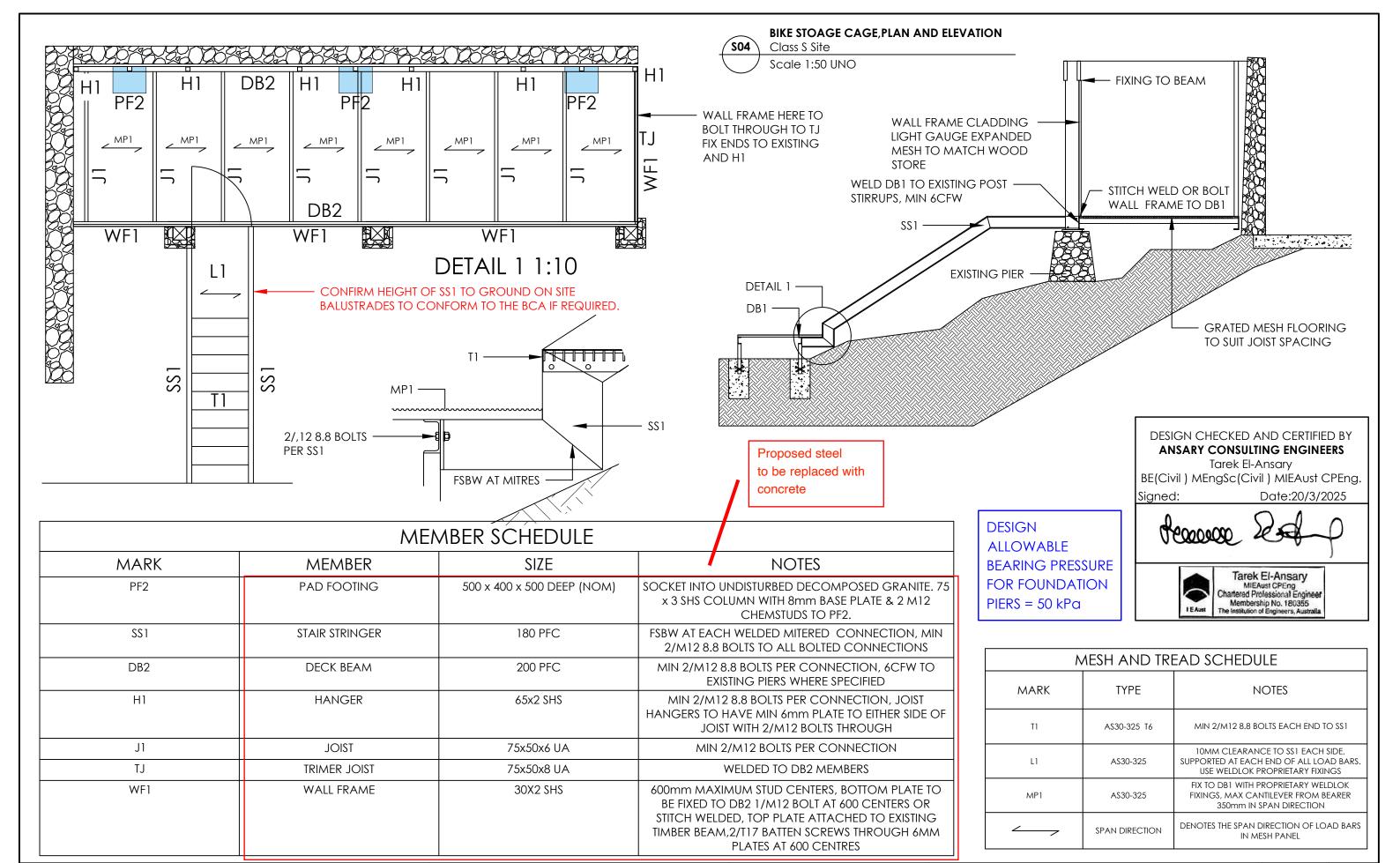
Revision: A

AS 1100

SIZE: Α3







GROUNDED

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Project: MUNJARRA STAIR REFURB LOT 704 BOBUCK LANE THREDBO NSW 2625 Client: MUNJARRA LODGE ROB FRASER

Draftsman: S.WAKEFORD Contact: 0429 071 387

Checked: TEA DATE: 20-3-25

Drawing Title:

BIKE STORAGE CAGE

SIZE: **A3** SCALE: VARIES

Drawing Number: S04 Revision: B Sheet 5 of 5

