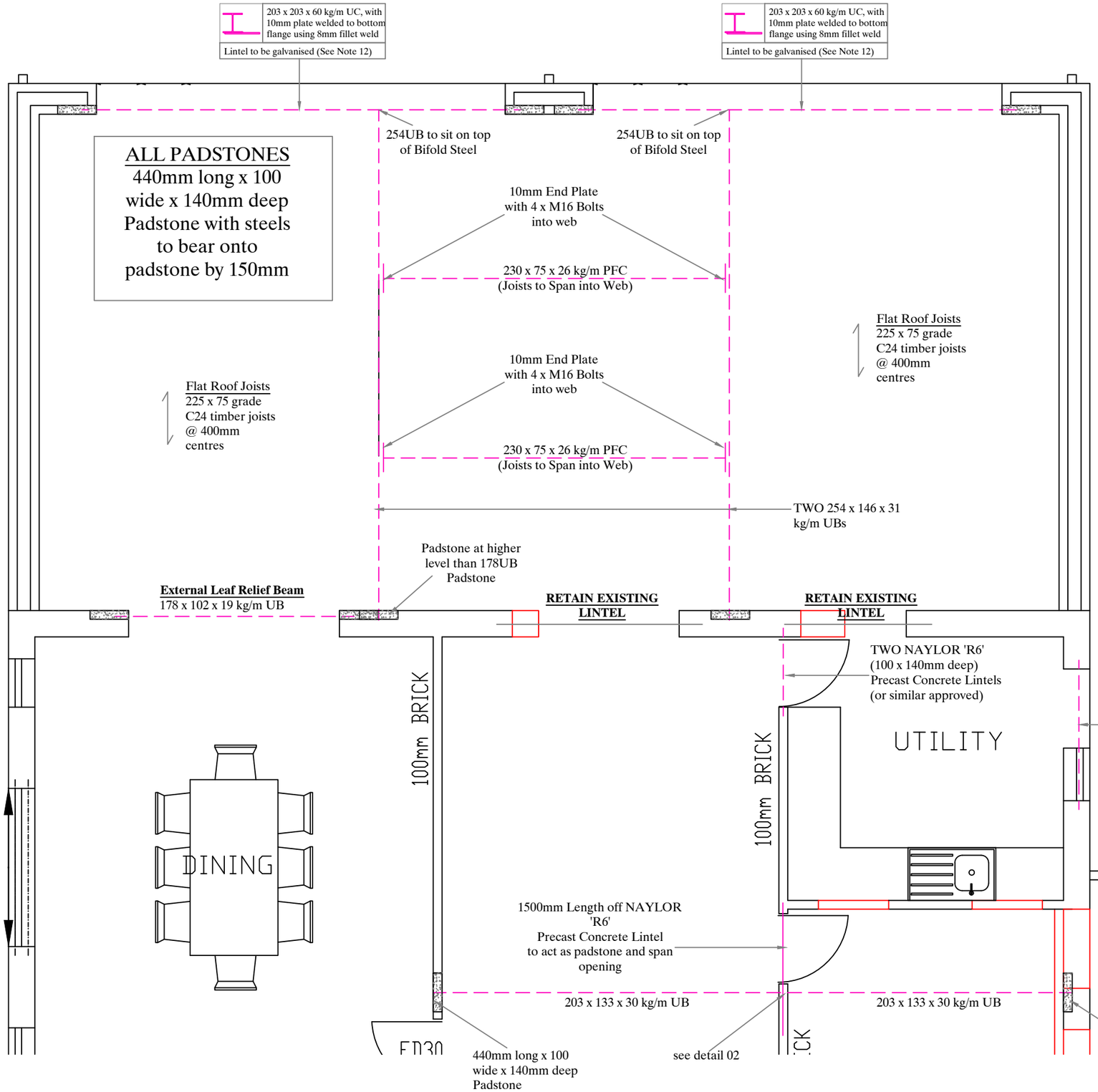



# PROPOSED GROUNDFLOOR LAYOUT

NOTES

CDM REGULATIONS 2015
1) Principal Contractor to provide client with Construction Phase Health and Safety File prior to works commencing on site.

GENERAL
2) This drawing should be read in conjunction with all relevant drawings and specifications issued by Elysium Structures, the Architect and other specialists.

3) Unless agreed otherwise, the client or contractor shall be responsible for serving the local authority or approved inspector any required commencement notice eg. building notice, full plans.

4) This drawing is not to be scaled from.
Prior to the fabrication of any built in elements, all existing dimensions are to be checked on site and any discrepancy brought to the attention of the engineer immediately.

5) Unless stated otherwise, all dimensions shown are in millimetres (mm).

STEELWORK
6) Structural steelwork sections to be grade S275. All materials and workmanship are to be in accordance with BS5950.

7) Steelwork to be cut to length and fabricated off site based on site dimensions.

8) All steelwork to be prepared off site - wire brushed or blast cleaned free of mill scale rust or other contaminants.

9) Steelwork to be painted with non-oxidising primer prior to site delivery and not more than four hours after cleaning.

10) Steelwork connections to be designed by the fabricator for an ultimate load capacity of 50kN unless noted otherwise.

11) To achieve half hour fire protection all internal steelwork to be encased by a minimum of two layers of plasterboard.

12) Steelwork where indicated to be hot dip galvanised (140 microns, use Prep Sa2 1/2).

13) Where a pair of steel beams are being installed, these should be connected together at centres not exceeding 900mm equispaced along the beam length with M12 bolts alternately staggered along web with spacer tubes (26.9 x 3.2 CHS, unless otherwise specified) to suit the cavity width.

PADSTONES
14) All steel beams to be supported on new padstones. Use Class B Engineering Brickwork (compressive strength 50N/mm²), solid concrete (grade RC30) or equivalent precast concrete lintel. Minimum size to be 225 long x 150 deep x 100 wide, unless noted otherwise. Padstones to be bedded on / constructed in 1:4 cement:sand mortar.

INSTALLATION
Recommended method statement for Beam Installation.

15) All floors and existing walls above and supported by those walls to be removed are to be propped BEFORE removal of any masonry or other loadbearing supports. The precise method of propping needs to be established by builder on site.

16) Retain 20mm nominal gap between the top of the new beam and the underside of wall to be supported.

17) Use steel packs at centres not exceeding 450mm to pack up between top of support beam and wall to be supported.

18) Firmly ram semi-dry cement:sand mortar mix (1:4) into the gap between beam and supported wall above.

19) Leave props in place for 48 hours after placing mortar pack.

LINTELS
20) Use 'NAYLOR HI-SPEC' for precast concrete lintels, 'CATNIC' for steel lintels or similar approved lintels and install strictly in accordance with manufacturers requirements. Provide Pre-cast minimum 150mm end bearing unless indicated otherwise.

CONTACT ENGINEER IN CASE OF QUERIES

Rev A - 29th Sept 2026 - Addition of Roof Lantern to Rear Extension

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project
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client
MIR

drg title
Groundfloor Layout

| scale | drawn by | checked by |
|---|---|---|
| 1:50 | SB | SB |
| date | rev | drg no |
| Mar 2026 | A | ES1513 - 02 |

Structural Layout