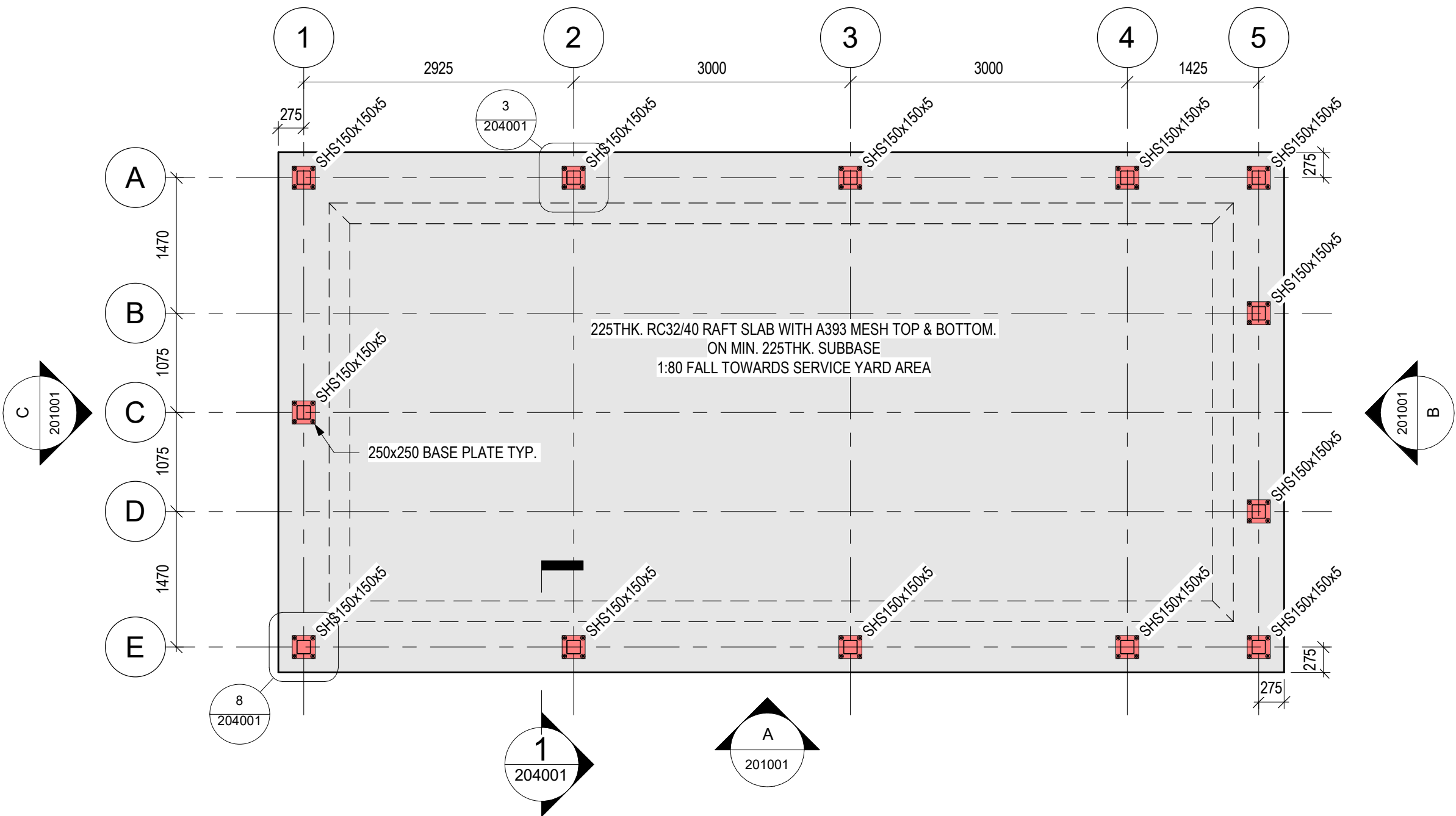
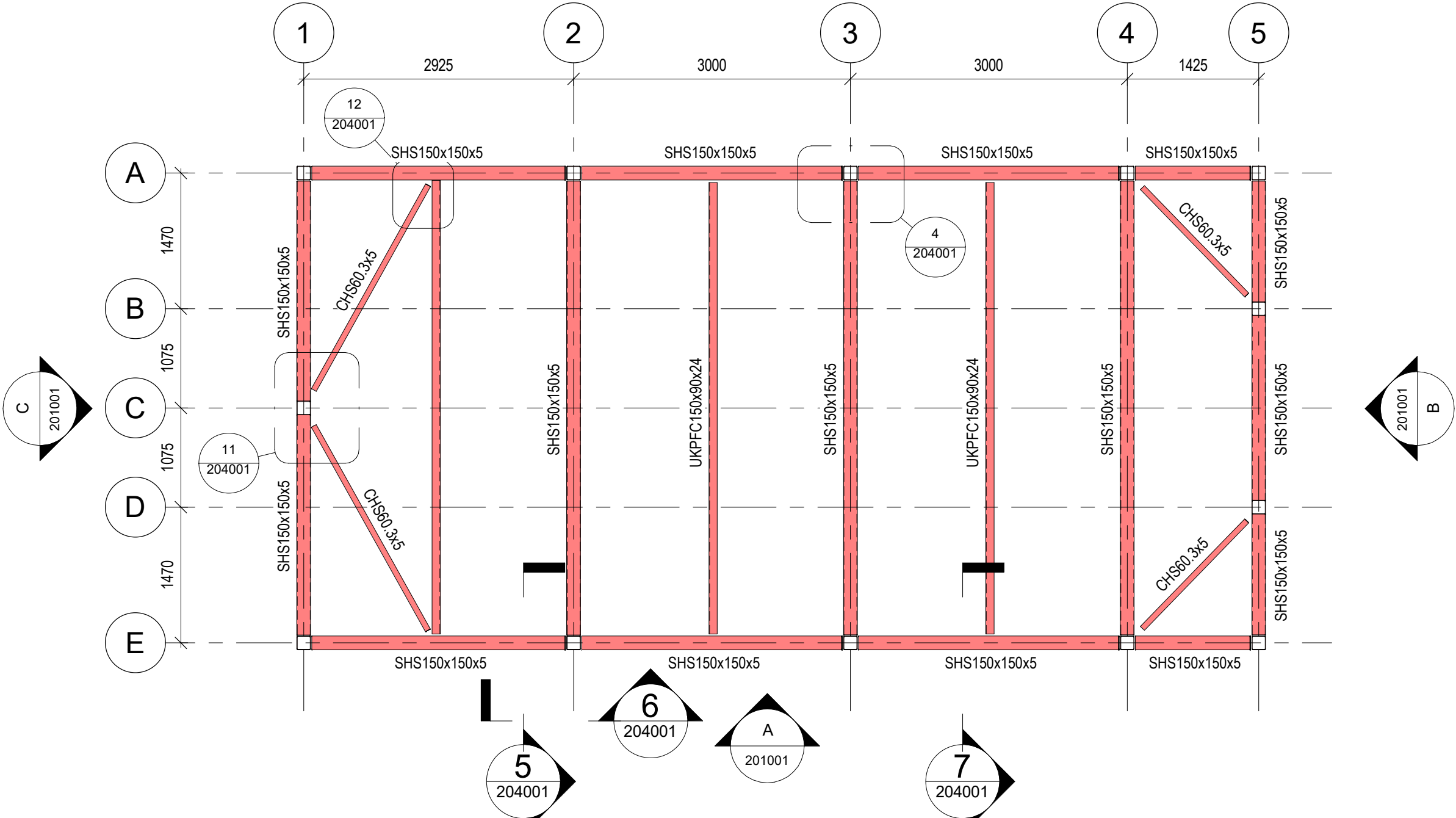


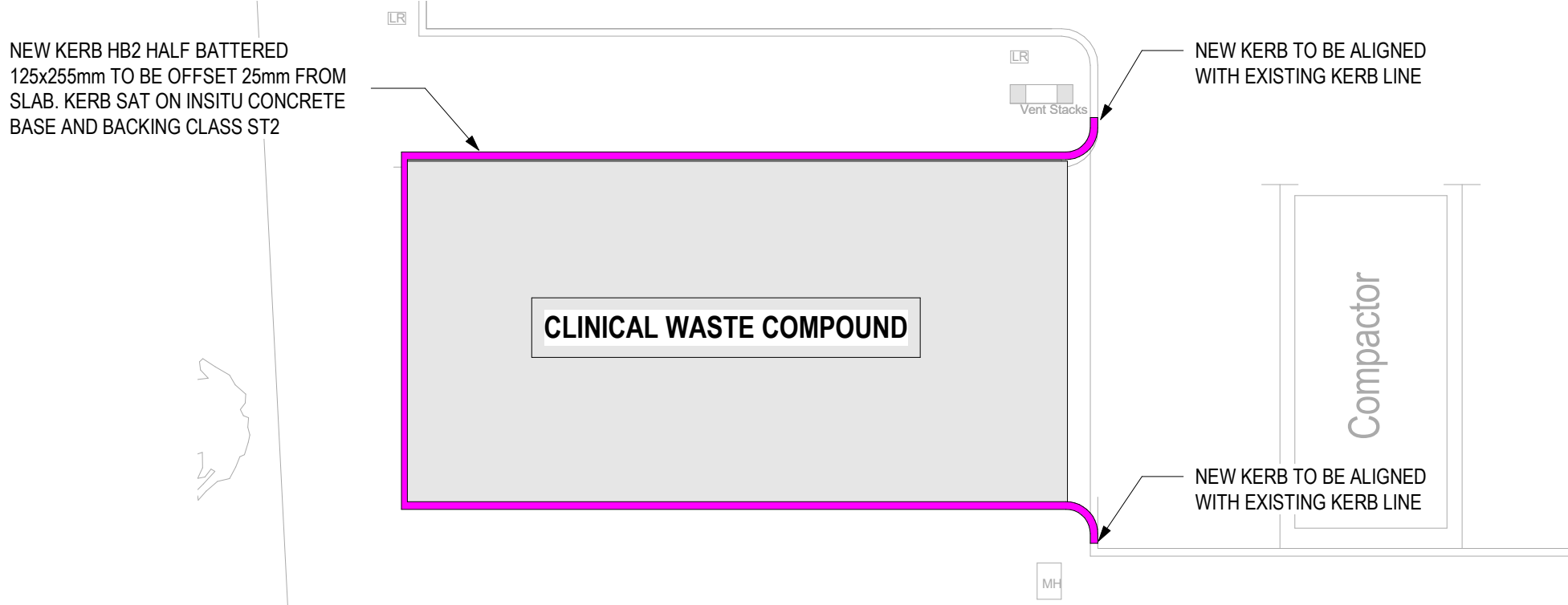
100
0 10
Millimetres



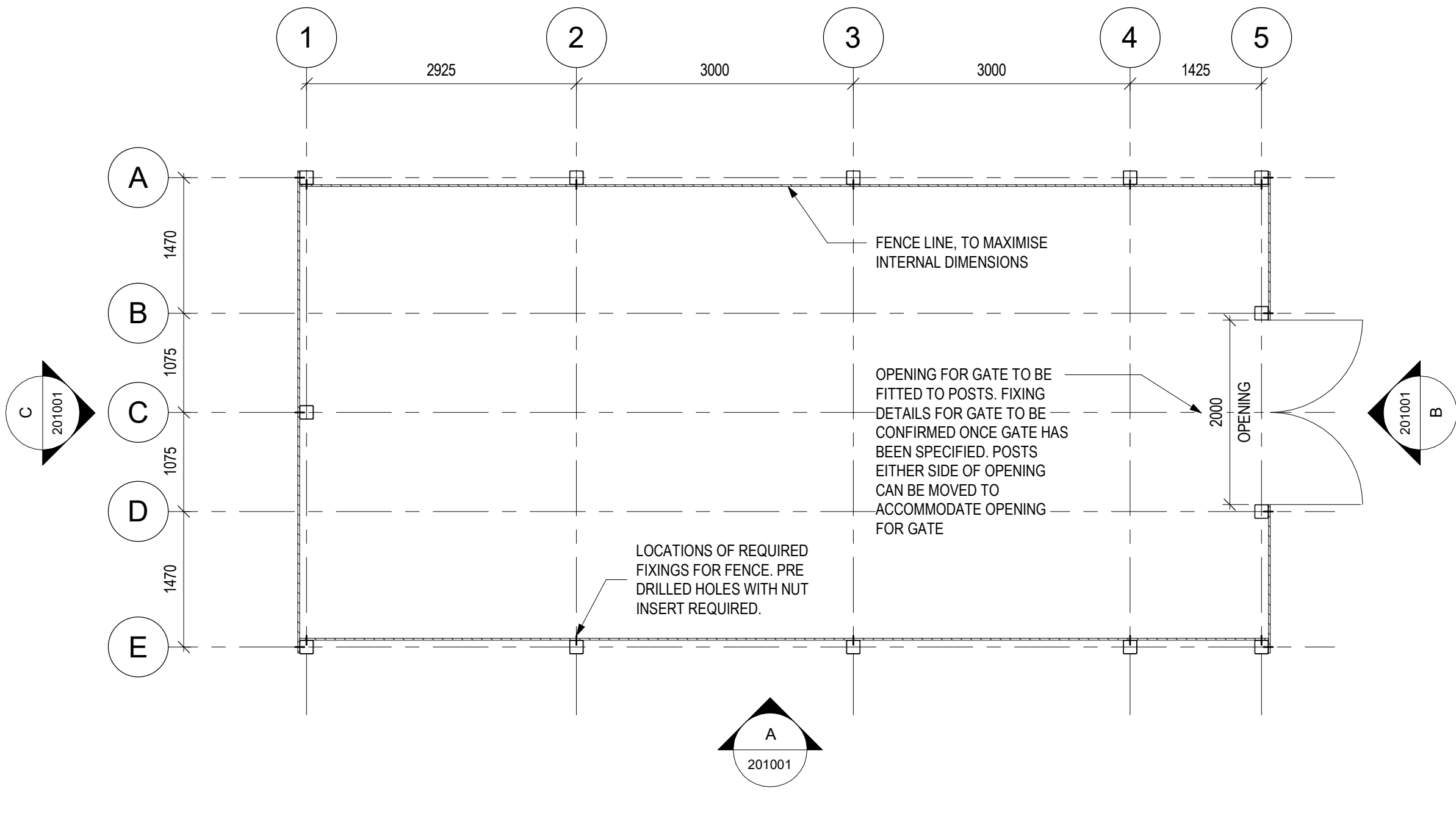
1 GROUND FLOOR - GENERAL ARRANGEMENT
SCALE 1 : 50



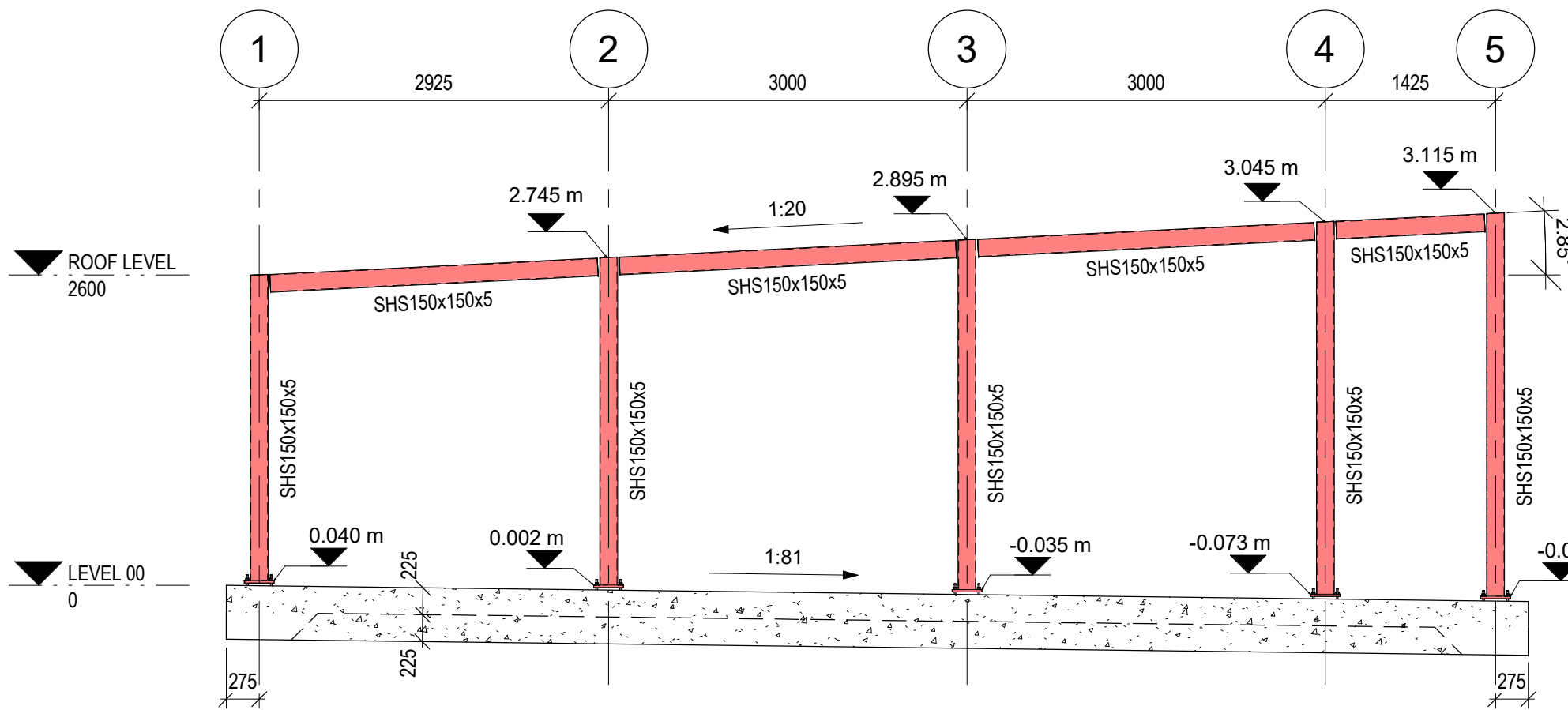
3 ROOF LEVEL - GENERAL ARRANGEMENT
SCALE 1 : 50



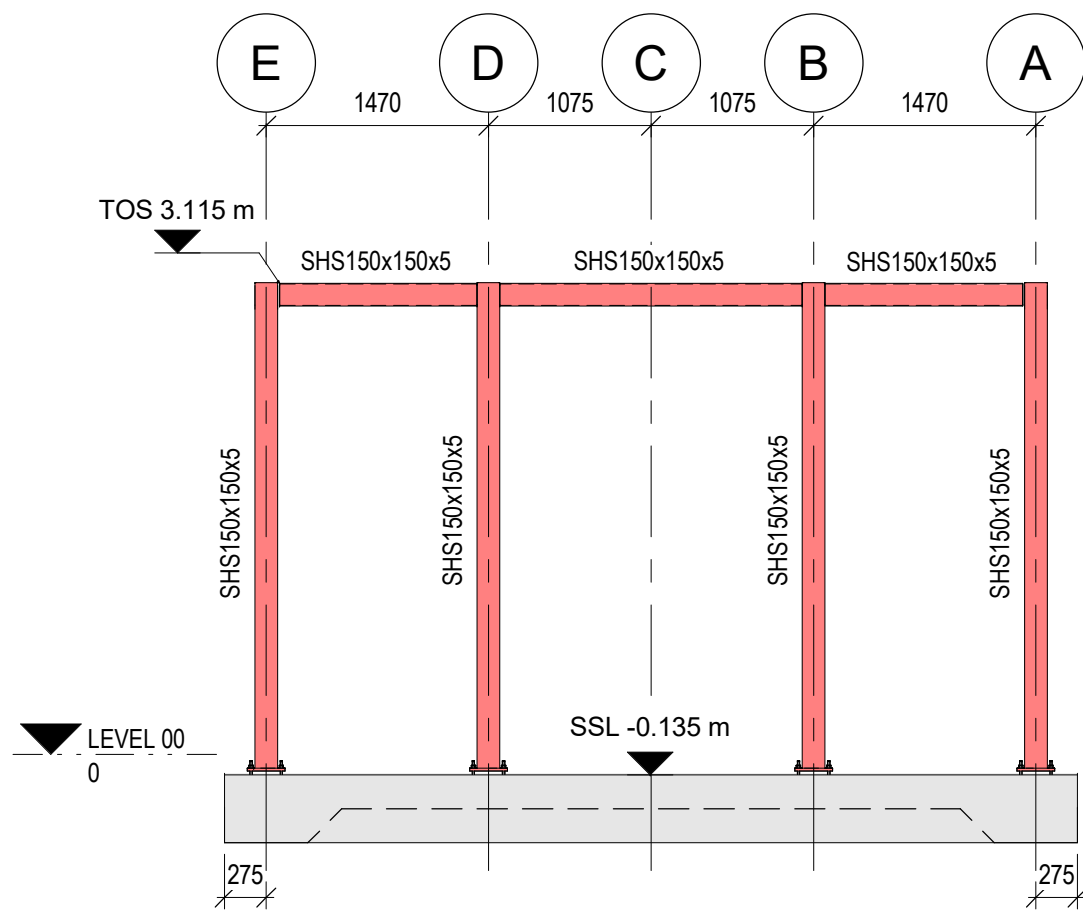
4 SITE PLAN
SCALE 1 : 100



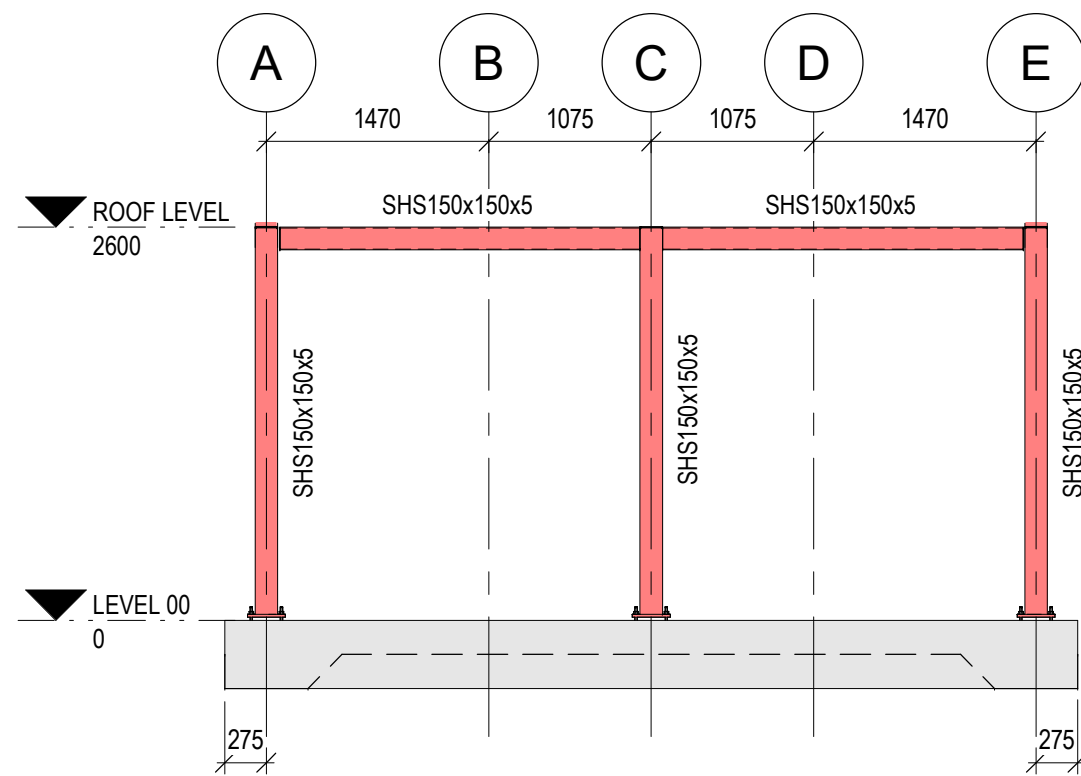
2 MID LEVEL - MESH FENCE GENERAL ARRANGEMENT
SCALE 1 : 50



A SOUTH ELEVATION
SCALE 1 : 50



B EAST ELEVATION
SCALE 1 : 50



C WEST ELEVATION
SCALE 1 : 50

DO NOT SCALE

NOTES:

- GENERAL**
- All dimensions are in millimetres U.N.O.
 - All levels are in metres AOD U.N.O.
 - To be read in conjunction with all engineering drawings, details and specifications.
 - Overall lateral stability is achieved by fixed bases.
 - Roof designed for 0.6 kN/m2 imposed load and -1.67kN/m2 wind uplift.
- CONCRETE**
- All concrete shall comply with BS8500, BS EN 206-1 and BS8110 U.N.O.
 - All concrete binding shall be ST2 (Grade C25), all structural concrete grade C32/40 U.N.O. Aggregate size shall be 20mm.
 - Concrete binding shall be provided to all foundation bases. It shall be a minimum of 50mm thick.
 - Concrete finish shall be brushed with troweled edges to produce a level, uniform surface (primarily to allow marking out of bolt positions).
 - All reinforcement cover shall be 50mm U.N.O.
- STEELWORK**
- Contractor to be responsible for all connection design including baseplate - concrete connection design. Details shown are indicative only.
 - All welds to be 6mm continuous fillet welds minimum.
 - A minimum of 2 bolts are to be provided in each connection.
 - The minimum bolt grade shall be 8.8 and a minimum bolt diameter of M16.
 - All steelwork to be erected in accordance with the National Structural Steelwork Specification for building construction (N3SS), latest edition.
 - All steelwork sections to be grade S355 J0. Minor plates, cleats, etc. to be grade S275 J0 Minimum.
 - Fabricator to design all connections to the satisfaction of the structural engineer.
 - All primary steelwork to be bolted to foundations via cast-in anchors.
 - All baseplates shall be grouted unless agreed in advance with the engineer.
 - All steelwork to be shot blasted to SA21/2, chemically cleaned and galvanised to a minimum coating thickness of 80micrometres. All fixings to be galvanised. No site welding will therefore be permitted.
- GEOTECHNICAL**
- Engineered fill, complying with the requirements of Class 1 fill, with a minimum peak effective angle of friction of 32 degree, should be used. The class 1 fill should also extend laterally from the base of the foundation at a 1(V)/2(H) gradient. Fill should be placed and compacted in accordance with the Manual of Contract Documents for Highways Works (MCHW) Series 600 document.
 - Inspection of in-situ material at the base of all areas of excavation is to be completed by suitably experienced geotechnical engineer. If in-situ material does not achieve minimum bearing pressure of 30kPa, the material should be excavated and replaced with suitable blinding/mass concrete.
 - Contractor to examine existing service records/drawings and subject to their own risk assessment/method statement, they should consider surface scanning and/or hand-digging.
- STEEL CONNECTION**
- All connections shall be designed for the following loads
Axial, Fx: 5kN (Tension) / 5kN (Compression)
Shear, Fy: 10kN
 - All baseplates shall be designed for the following loads:
Axial, Fx: -20kN (Tension) / 15kN (Compression)
Shear, Fy, Fz: 5kN
 - All baseplates to be designed for 8kNm moment in either direction.
 - All connection design forces are factored (ULS)
 - "MC" denotes a moment connection.
 - "VSTC" denotes a vertically slotted connection.
 - Contractor to consider eccentricity arising during connection design unless noted otherwise.
 - All connections to be designed and detailed by the steelwork contractor for the loads and moment provided in accordance with BS EN 1993.
- FENCING:**
- Assumed 2.4m x 3m panel size weld mesh open fence, with 4mm thick wires and a mesh aperture of 200mm (H) x 50mm (W). Material is pre-galvanised steel with a powder coated finish. Panels can be cut to size on site, but contractor to ensure appropriate spray can be used to touch up the exposed ends of mesh.
- ROOF SHEETING:**
- Assumed polyester coated corrugated steel roofing sheet to be used. Sheetting to be delivered in maximum 3 pieces per length to ensure multi-span action utilised. Sheetting to be supported by transverse beams at 1500mm centres and assumed to be 0.7mm thick. Contractor to advise on fixings for roof; manufacturer's specification/guidance should be adhered to.
 - Sheetting to be designed for 1.67kN/m2 Uplift due to wind.

P01	07.02.2024	ISSUED FOR INFORMATION	TF	RC	SA
Rev.	Date	Description	By	Chk'd	App'd

Drawing Suitability	Status
FOR INFORMATION	S2

Client

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NHS

Blood and Transplant

Project Title
BARNSELY EXTERNAL WORKS FEASIBILITY

Drawing Title
CLINICAL WASTE COMPOUND GENERAL ARRANGEMENTS

Scale	Designed	Drawn	Checked	Authorised
As indicated	RC	TF	AG	SA
Original Size	Date	Date	Date	Date
A1	07.02.2024	07.02.2024	07.02.2024	07.02.2024
Drawing Number	Revision			
5215627-ATRL-XX-ZZ-DR-SE-201001	P01			