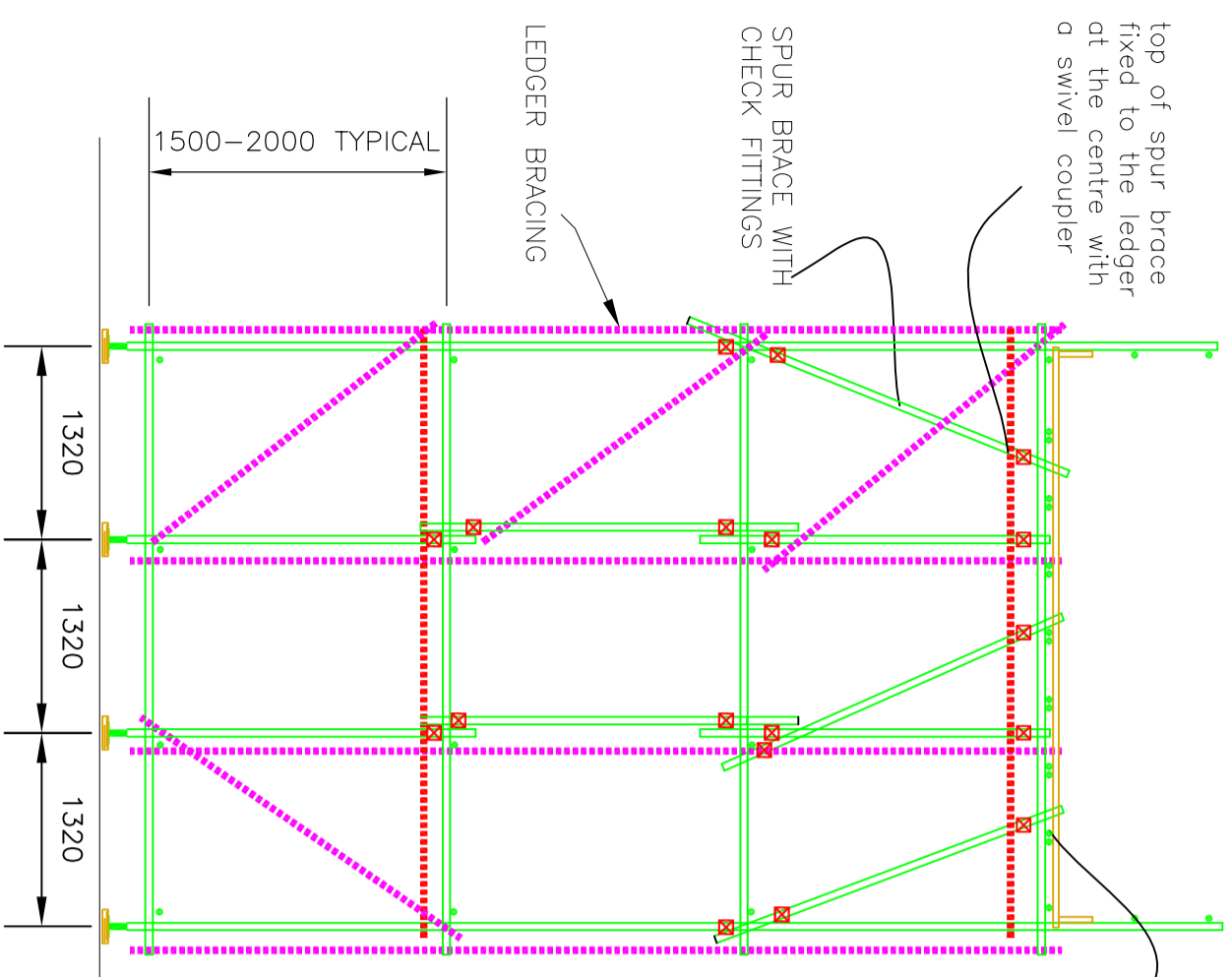
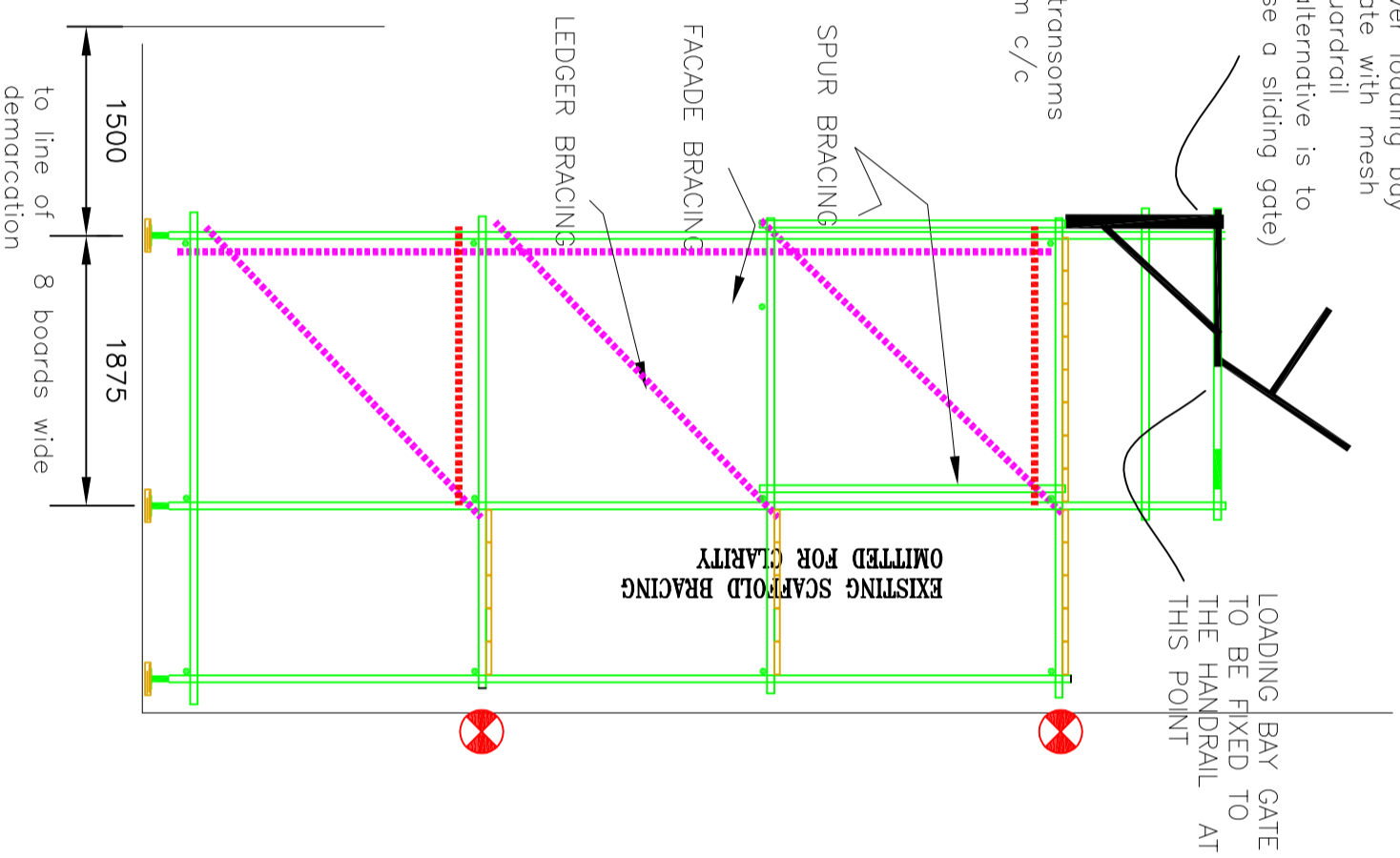


PLATFORM DESIGN LOAD 10.0 KN/M²

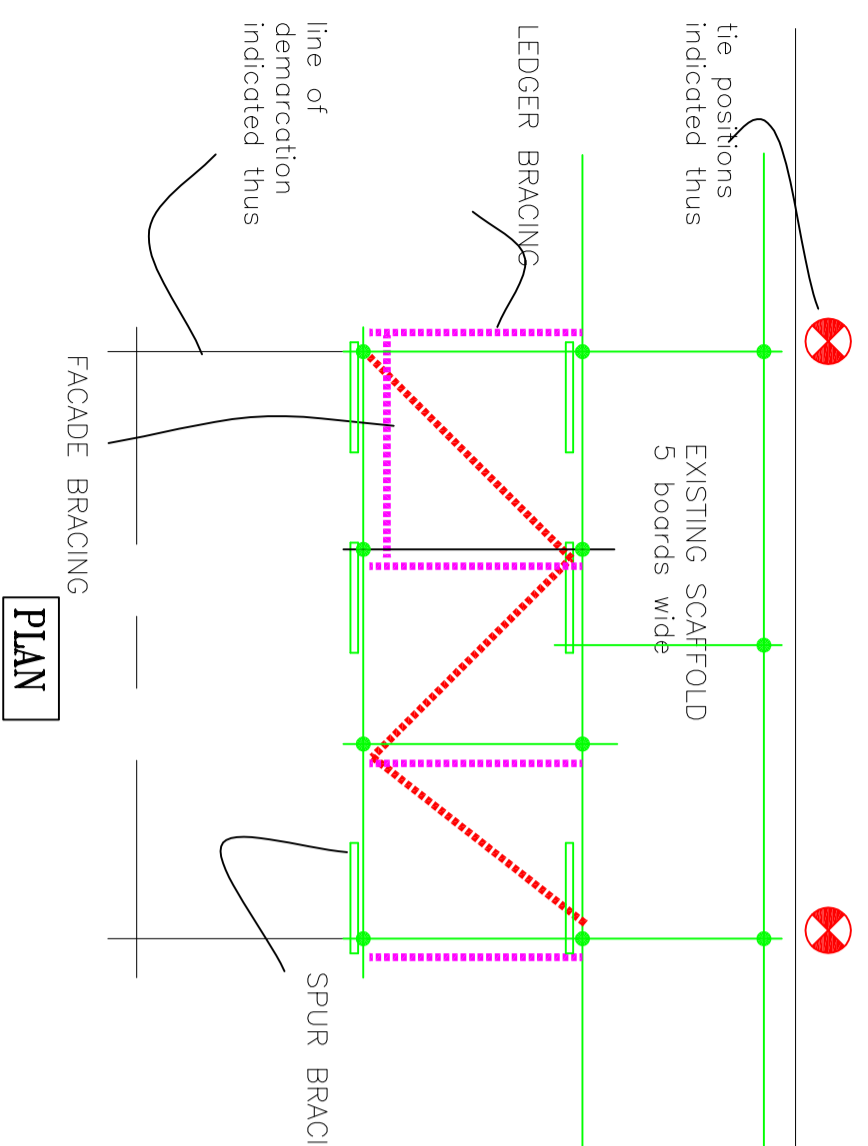
INDICATES CHECK COUPLERS



FRONT ELEVATION



SIDE ELEVATION



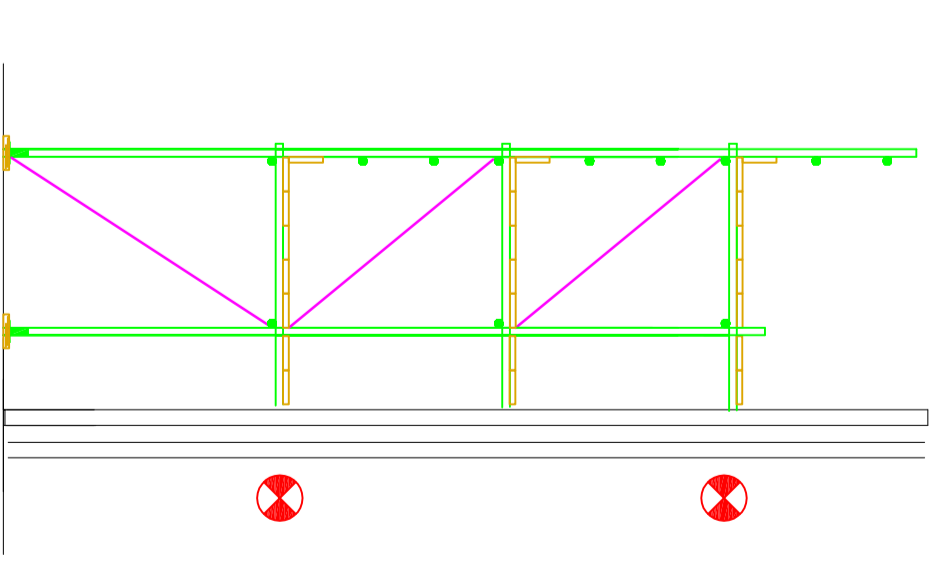
PLAN

indicative up and over loading bay gate with mesh guardrail (alternative is to use a sliding gate)

LOADING BAY GATE TO BE FIXED TO THE HANDRAIL AT THIS POINT

EXISTING SCAFFOLD BRACING OMITTED FOR CLARITY

WORKING DRAWING



TYPICAL SECTION THRO BRICKLAYERS SCAFFOLD LEGS @ 1.8M C/C

design for a 10kn/m² loading platform inc 20% impact load
total platform load = 10kn/m² + 0.25kn/m²
boards = 10.25kn/m²
check the transoms for a span of 1.85m and the min c/c of 0.45m as stated in tg20
bm in transom = $\frac{10.25 \times 1.85 \times 1.85}{8}$
= 1.97knm

permissible = 0.99knm, therefore use double transoms @ 450c/c (bm = 0.99 x 2 = 1.98knm)
check the ledgers for a udl of 10.25 x 0.925m = 9.48kn/m
load from platform say 0.6m x 2.25kn/m² = 1.35
bm = $\frac{10.83 \times 1.32 \times 1.32}{8}$

= 2.35knm > permissible 0.99knm
therefore check with a spur brace at centre to reduce the span
bm = $\frac{10.83 \times 0.66 \times 0.66}{8}$
= 0.58knm < 0.99 therefore OK

load in spur = $10.83 \times 0.66 / \cos 18 = 7.51$ kn, as brace will probably be fixed with a swivel, with a swl of 5kn, check fitting is required

leg loads
worst case when one lift at 2kn/m² and @ 1kn/m² fully boarded with 5 boards to the main platform and 2 inside boards
legs at 1.8mc/c
inside legs
live load = 3kn/m² x 1.01m x 1m = 3.03kn
boards = 0.25kn/m² x 1.1.01m x 1m x 3 lifts = 0.76kn
tube + fittings = 0.99kn
total = 4.76kn
outside legs
permissible leg load for a 1.5m lift scaffold tied at 16m² = 12.1kn
check the bending on the transom with 2 inside boards and a platform load of 2kn/m²
max bm on the cantilevered tube
= $\frac{0.45 \times 2.25 \times 2.25}{2} \times 0.225 \times 2 \times 2 \times 0.44 \text{knm}$
permissible = 0.99knm

PLATFORM DESIGN LOAD 2.0 KN/M²

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- GENERAL NOTES**
- This is a working drawing and is for construction purposes. No deviation is permitted without approval from Moushouse design services Ltd.
 - Client must ensure that the permanent structure is of adequate strength to resist the forces imposed by this temporary structure.
 - The client is to provide adequate foundations to support the loads imposed by this temporary structure which shall be subject to inspection.

Rev	Date	Description	Checked	Drawn

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Client **DAB SCAFFOLDING LTD**

Site **MILFIELDS, NANTWICH**

Drawing Title **BRICKLAYERS ACCESS SCAFFOLD AND LOADING PLATFORM**

Scale **1:50 @ A2** | Date **02/05/07** | Drawing Number **07/MSD/565/2**

Drawn **D Carden**