

SG4:15 HANDRAILS AND PLAN BRACING ON PLAN OMITTED FOR CLARITY

FACADE BRACING
SWAY BRACE FIXED TO BAYS INDICATED USING DUPLICATION BRACE TO CLIPS OR TUBE BRACE WITH LOAD BEARING COUPLERS

TIES TO EXISTING STRUCTURE
MARKER DENOTES TIE LOCATIONS TO EXISTING STRUCTURE AS PER THE DETAIL IN GENERAL NOTES SECTION

LOAD CLASS 3
1no WORKING LEVEL @ 2.00kN/m²
1no SECONDARY LEVEL @ 1.00kN/m²



H1	H2	H3	H4
H5	H6	H7	H8
H9	M1	M2	M3
M4	M5	M6	M7
L1

DESIGN BASED RESIDUAL HAZARD

THIS DRAWING IS FOR INFORMATION ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION. THE DESIGNER ACCEPTS NO LIABILITY FOR ANY DAMAGE OR LOSS OF LIFE OR PROPERTY ARISING FROM THE USE OF THIS DRAWING.

MAXIMUM INDEPENDENT ACCESS BAY SIZE = 2.00m

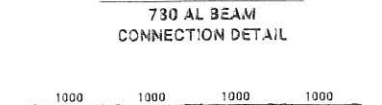
PLAN BRACING
PLAN BRACING FIXED TO BAYS INDICATED USING MINIMUM CLASS 4 LOAD BEARING COUPLERS

SINGLE BOARDS
SINGLE LAYER OF STANDARD SCAFFOLD BOARDS TO BE INSTALLED ON WORKING PLATFORM LEVELS FOR ACCESS AND WORK

TRANSOMS @ 1.20m c/c
TRANSOM CENTRES MUST NOT BE EXCEEDED. ADDITIONAL TRANSOMS REQUIRED AT JOINT LOCATION OF BOARDS

CONNECTION COUPLERS
MINIMUM CLASS 4 LOAD BEARING COUPLERS TO BE USED AT JOINTS OF BEAMS

SUPPLEMENTARY COUPLERS
ADDITIONAL CLASS 4 COUPLERS TO BE USED AT JOINTS OF BEAMS TO MAINTAIN MINIMUM CLASS 4 LOAD BEARING COUPLERS

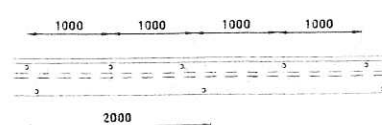


730 AL BEAM LACING & BRACING DETAIL

LEDGER BRACING
LEDGER BRACING FIXED TO BAYS INDICATED USING MINIMUM CLASS 4 LOAD BEARING COUPLERS

CONNECTION COUPLERS
MINIMUM CLASS 4 LOAD BEARING COUPLERS TO BE USED AT JOINTS OF BEAMS TO MAINTAIN MINIMUM CLASS 4 LOAD BEARING COUPLERS

450 AL BEAM CONNECTION DETAIL



450 ALLOY BEAMS
BEAMS TO BE LACED AND PLAN BRACED AND FIXED TO SUPPORT LOCATIONS AS PER THE BEAM DETAILS IN GENERAL NOTES SECTION

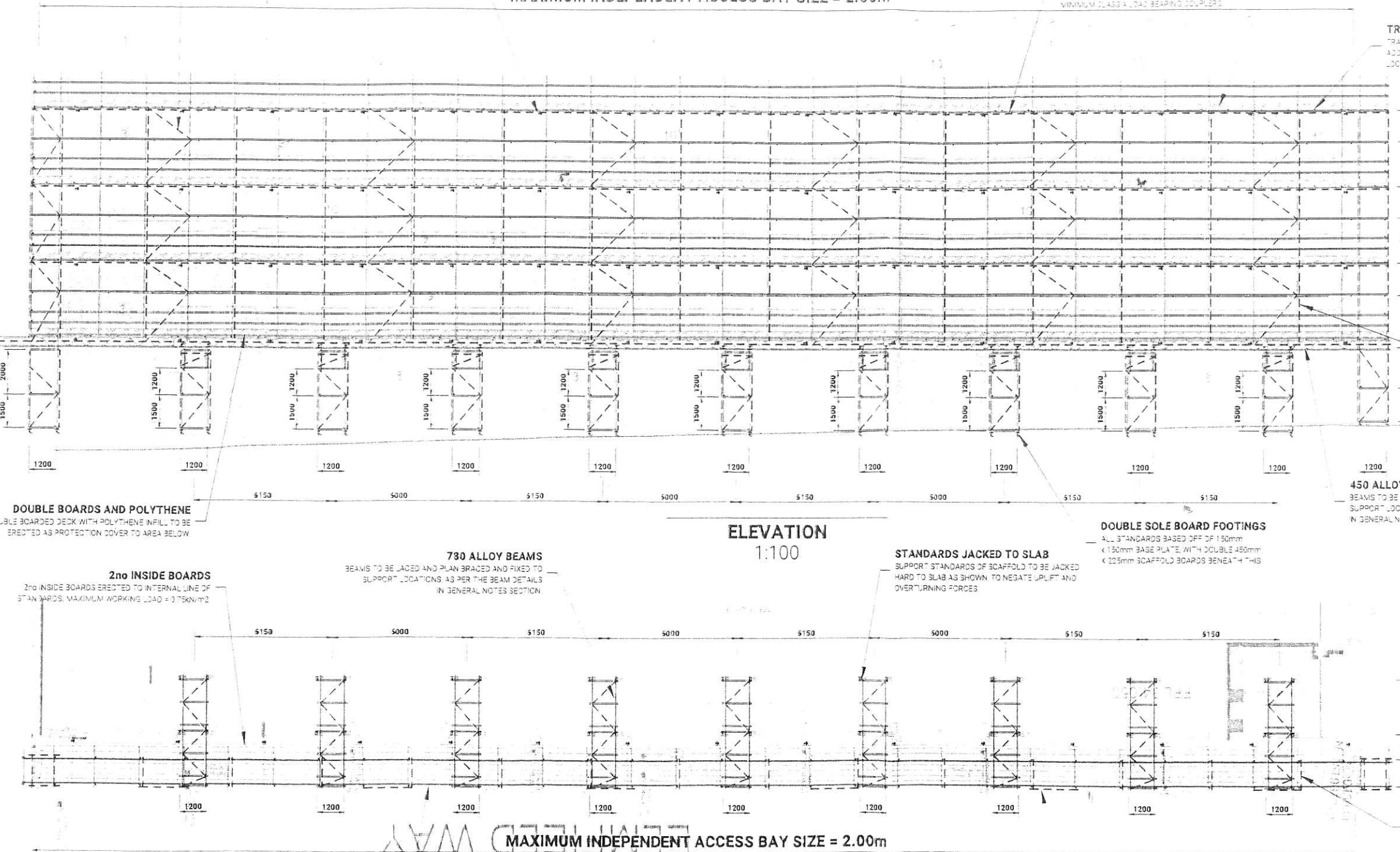
DOUBLE SOLE BOARD FOOTINGS
ALL STANDARDS BASED OFF OF 150mm x 150mm BASE PLATE, WITH DOUBLE 450mm x 125mm SCAFFOLD BOARDS BENEATH THIS

STANDARDS JACKED TO SLAB
SUPPORT STANDARDS OF SCAFFOLD TO BE JACKED HARD TO SLAB AS SHOWN TO NEGATE UPLIFT AND OVERTURNING FORCES

730 ALLOY BEAMS
BEAMS TO BE LACED AND PLAN BRACED AND FIXED TO SUPPORT LOCATIONS AS PER THE BEAM DETAILS IN GENERAL NOTES SECTION

DOUBLE BOARDS AND POLYTHENE
DOUBLE BOARDED DECK WITH POLYTHENE INFILL TO BE ERECTED AS PROTECTION COVER TO AREA BELOW

2no INSIDE BOARDS
2no INSIDE BOARDS ERECTED TO INTERNAL LINE OF STANDARDS. MAXIMUM WORKING LOAD = 0.75kN/m²



ELEVATION 1:100

PLAN LAYOUT 1:100

MAXIMUM INDEPENDENT ACCESS BAY SIZE = 2.00m

PG:	21/01/19	First issue to client	DC	RB
Revision	Date	Changes	Drawn by	Checked by

PRELIMINARY DRAWING FOR DISCUSSION PURPOSES ONLY

HATHAWAY HOUSE
HORSE AND CANTILEVER SCAFFOLD ACCESS TO EAST ELEVATION

Project	BCM005	Node	DE	DWG	SF	00008
Scale	1:100	1:100	1:100	1:100	1:100	1:100
Sheet	DE	RB	DC	DC	DC	DC
Revision	01	02	03	04	05	06
Author	DC	RB	DC	DC	DC	DC
Check	DC	RB	DC	DC	DC	DC
Drawn	DC	RB	DC	DC	DC	DC
Checked	DC	RB	DC	DC	DC	DC

N O D E

GENERAL NOTES	Design Criteria	Design Loads	Design Details	Design Checks
1. This scaffold is designed in accordance with BS 1139:2015 and BS 5971:2011. It is intended for use as a temporary access structure for the construction of the Hathaway House.	2. The scaffold is designed for a maximum independent access bay size of 2.00m.	3. The scaffold is designed for a maximum working load of 2.00kN/m ² on the working level and 1.00kN/m ² on the secondary level.	4. The scaffold is designed for a maximum height of 10.00m.	5. The scaffold is designed for a maximum length of 100.00m.

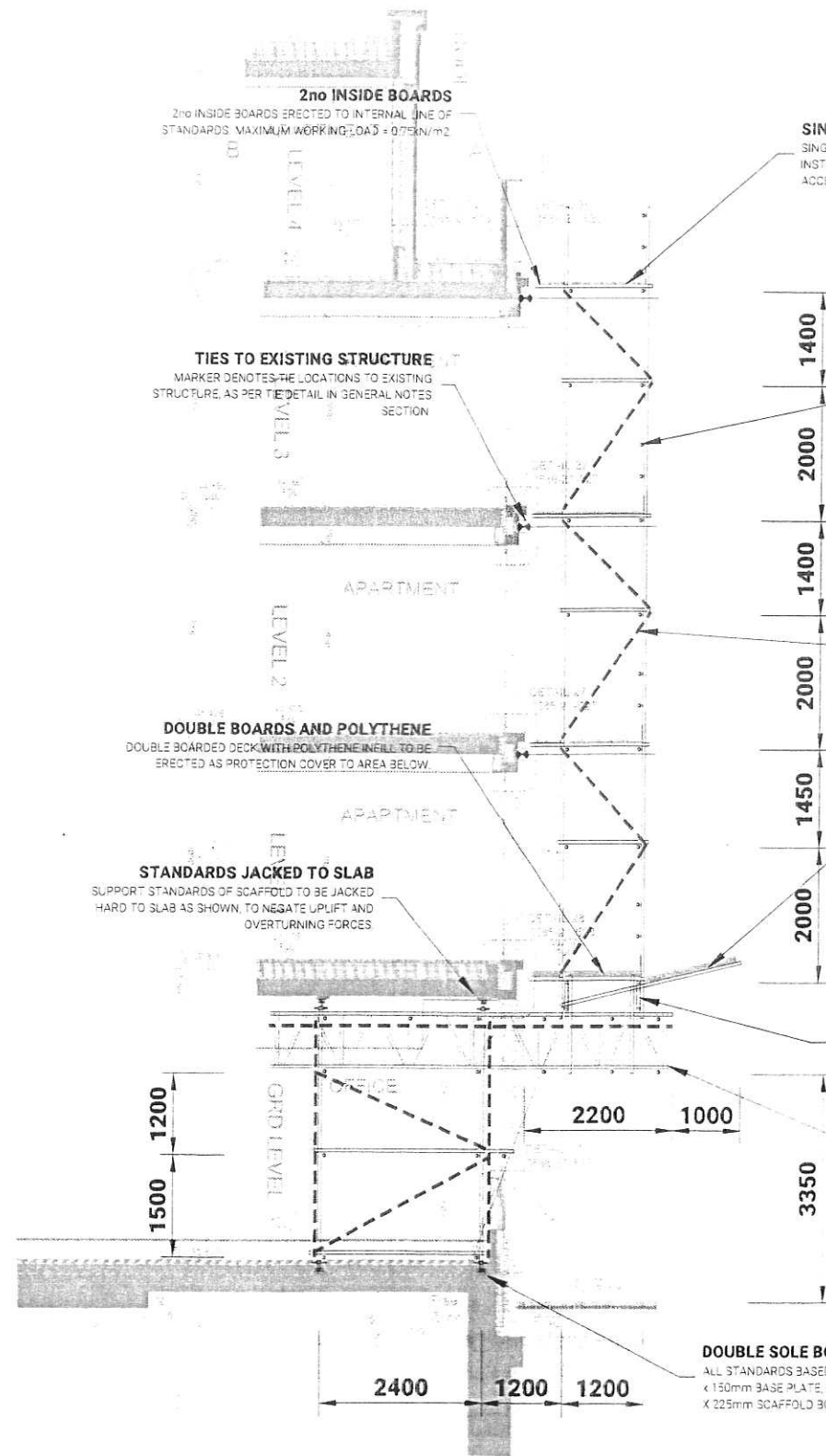
SG4:15 HANDRAILS OMITTED FOR CLARITY

LOAD CLASS 3
 1no WORKING LEVEL @ 2.00kN/m²
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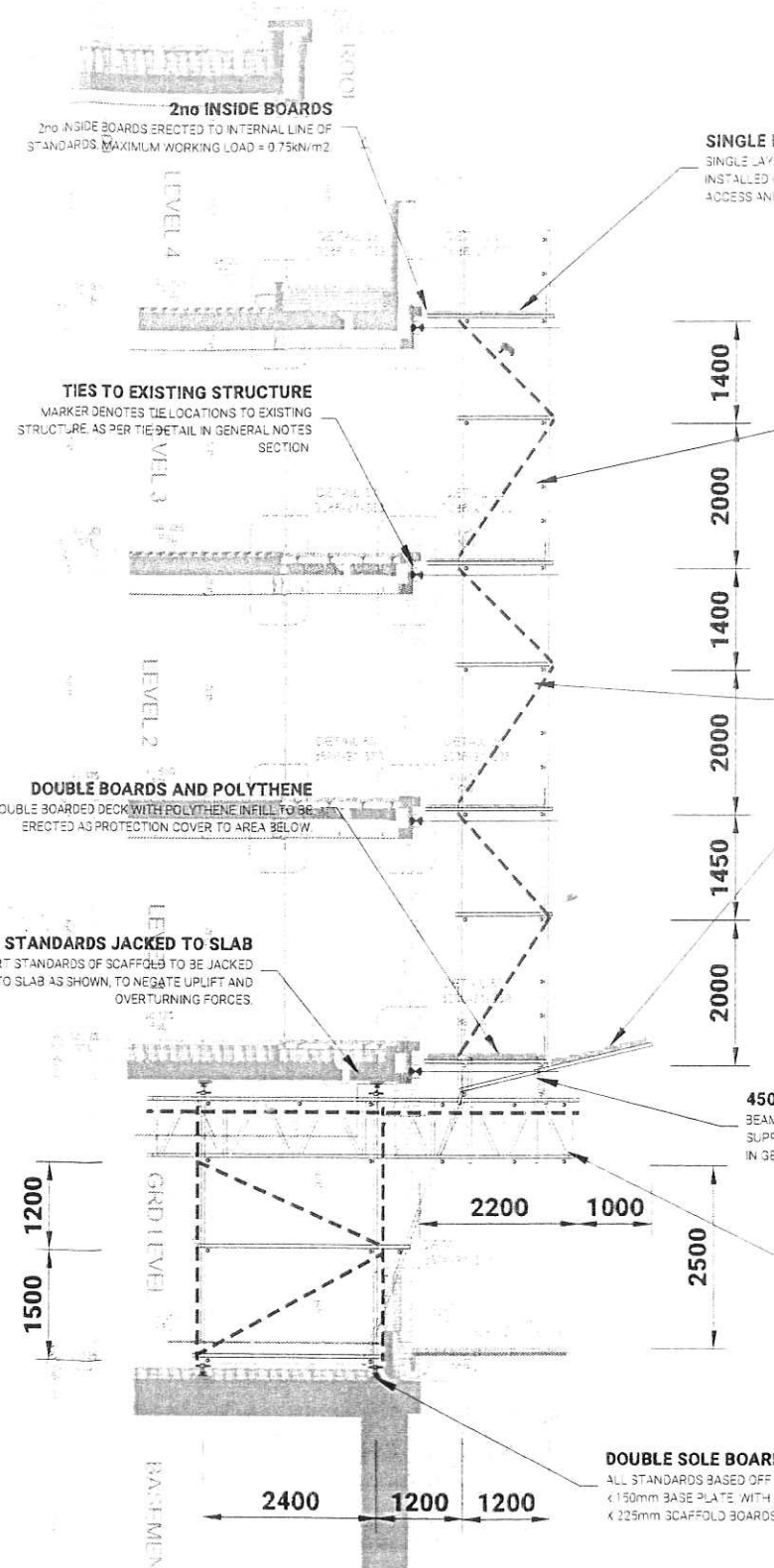
H1	H2	H3	H4
H5	H6	H7	H8
H9	M1	M2	M3
M4	M5	M6	M7
L1	--	--	--

DESIGN BASED RESIDUAL HAZARD
 THIS DESIGN HAS BEEN REVIEWED AND APPROVED BY THE DESIGNER AND THE CLIENT. THE DESIGNER ACCEPTS RESPONSIBILITY FOR THE DESIGN AND THE CLIENT ACCEPTS RESPONSIBILITY FOR THE CONSTRUCTION OF THE WORK.



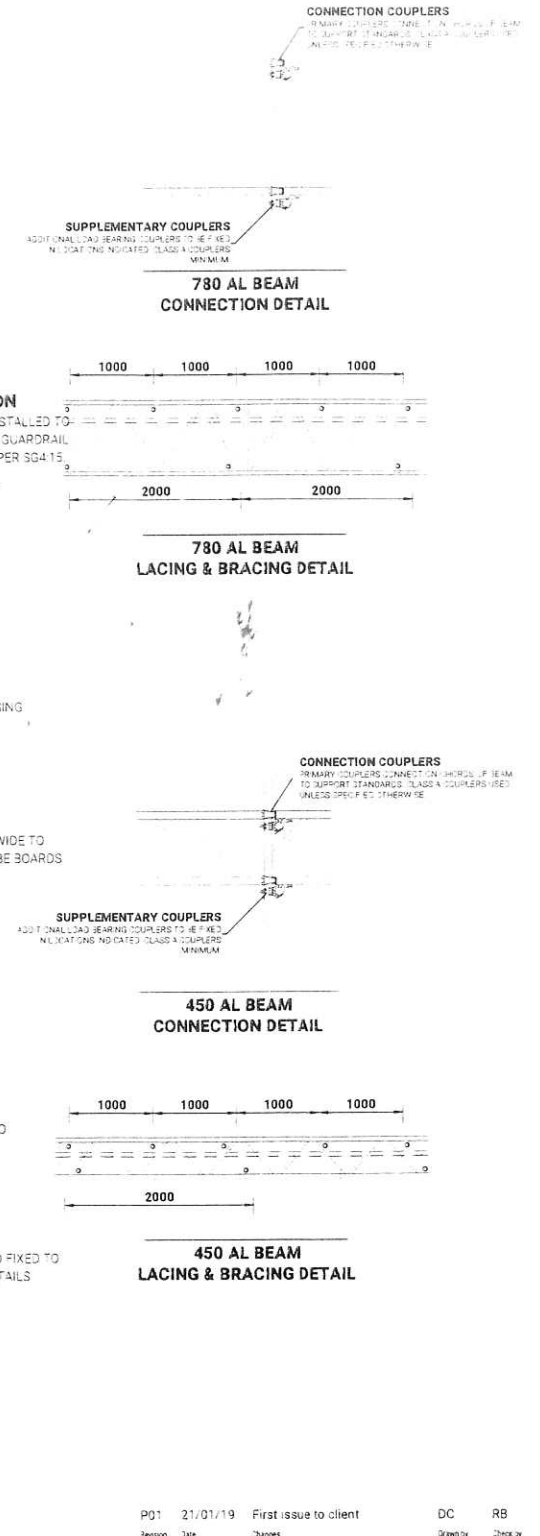
SECTION A-A
1:50

- 2no INSIDE BOARDS**
2no INSIDE BOARDS ERECTED TO INTERNAL LINE OF STANDARDS. MAXIMUM WORKING LOAD = 0.75kN/m²
- SINGLE BOARDS**
SINGLE LAYER OF STANDARD SCAFFOLD BOARDS TO BE INSTALLED ON WORKING PLATFORM LEVELS FOR ACCESS AND WORKS
- TIES TO EXISTING STRUCTURE**
MARKER DENOTES THE LOCATIONS TO EXISTING STRUCTURE, AS PER THE DETAIL IN GENERAL NOTES SECTION
- EXTERNAL EDGE PROTECTION**
TOE BOARD AND DOUBLE GUARDRAIL INSTALLED TO ALL WORKING PLATFORMS AND SINGLE GUARDRAIL ON ALL INTERMEDIATE PLATFORMS AS PER SG4:15
- LEDGER BRACING**
LEDGER BRACING FIXED TO BAYS INDICATED USING MINIMUM CLASS A LOAD BEARING COUPLERS
- DOUBLE BOARDS AND POLYTHENE**
DOUBLE BOARDED DECK WITH POLYTHENE INFILL TO BE ERECTED AS PROTECTION COVER TO AREA BELOW.
- STANDARDS JACKED TO SLAB**
SUPPORT STANDARDS OF SCAFFOLD TO BE JACKED HARD TO SLAB AS SHOWN, TO NEGATE UPLIFT AND OVERTURNING FORCES
- 6no BOARD PROTECTION FAN**
PROTECTION FAN 6no SCAFFOLD BOARDS WIDE TO BE INSTALLED IN LOCATION SHOWN. DOUBLE BOARDS AND POLYTHENE INFILL TO FORM FAN.
- 450 ALLOY BEAMS**
BEAMS TO BE LACED AND PLAN BRACED AND FIXED TO SUPPORT LOCATIONS, AS PER THE BEAM DETAILS IN GENERAL NOTES SECTION
- 780 ALLOY BEAMS**
BEAMS TO BE LACED AND PLAN BRACED AND FIXED TO SUPPORT LOCATIONS, AS PER THE BEAM DETAILS IN GENERAL NOTES SECTION
- DOUBLE SOLE BOARD FOOTINGS**
ALL STANDARDS BASED OFF OF 150mm x 150mm BASE PLATE, WITH DOUBLE 450mm x 225mm SCAFFOLD BOARDS BENEATH THIS



SECTION B-B
1:50

- 2no INSIDE BOARDS**
2no INSIDE BOARDS ERECTED TO INTERNAL LINE OF STANDARDS. MAXIMUM WORKING LOAD = 0.75kN/m²
- SINGLE BOARDS**
SINGLE LAYER OF STANDARD SCAFFOLD BOARDS TO BE INSTALLED ON WORKING PLATFORM LEVELS FOR ACCESS AND WORKS
- TIES TO EXISTING STRUCTURE**
MARKER DENOTES THE LOCATIONS TO EXISTING STRUCTURE, AS PER THE DETAIL IN GENERAL NOTES SECTION
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ALL STANDARDS BASED OFF OF 150mm x 150mm BASE PLATE, WITH DOUBLE 450mm x 225mm SCAFFOLD BOARDS BENEATH THIS



PO1	21/01/19	First issue to client	DC	RB
Person	Date	Changes	Drawn By	Check By

PRELIMINARY DRAWING
FOR DISCUSSION PURPOSES ONLY

HATHAWAY HOUSE
HORSE AND CANTILEVER SCAFFOLD
ACCESS TO EAST ELEVATION SECTIONS

Project	Origin	Dest	Type	Trade	Number
BCM005	NODE	DE	DWG	SF	00009

Date	21/01/19	Drawn By	DC	Check By	RB	Scale	1:100 @ A1	Revision	P01
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N O D E

GENERAL NOTES

1. Scope of Work
The scope of work is to provide a scaffolding design for the access to the east elevation of the Hathaway House. The scaffolding shall be erected on the existing concrete slab and shall be used for the construction of the horse and cantilever scaffolding.

2. Design Assumptions
The scaffolding shall be designed in accordance with the following assumptions:
 - The scaffolding shall be designed for a maximum working load of 2.00kN/m² on the working level and 1.00kN/m² on the secondary level.
 - The scaffolding shall be designed for a maximum height of 10.00m above the existing ground level.
 - The scaffolding shall be designed for a maximum span of 3.00m between bays.

3. Materials
The scaffolding shall be constructed using the following materials:
 - Standards: 48.3mm x 48.3mm x 3.0mm galvanized steel.
 - Beams: 450mm x 780mm x 6mm galvanized steel.
 - Decking: 225mm x 450mm x 18mm scaffold boards.
 - Bracing: 48.3mm x 48.3mm x 3.0mm galvanized steel.

4. Connections
The scaffolding shall be connected to the existing structure using the following connections:
 - Standards shall be jacked to the existing slab using 150mm x 150mm base plates and 450mm x 225mm scaffold boards.
 - Beams shall be laced and plan braced to the standards.
 - Bracing shall be fixed to the standards using minimum class A load bearing couplers.

5. Safety
The scaffolding shall be erected in accordance with the following safety requirements:
 - The scaffolding shall be erected by a competent person.
 - The scaffolding shall be inspected by a competent person before use.
 - The scaffolding shall be dismantled by a competent person.

6. Notes
The scaffolding shall be erected in accordance with the following notes:
 - The scaffolding shall be erected on the existing concrete slab.
 - The scaffolding shall be used for the construction of the horse and cantilever scaffolding.
 - The scaffolding shall be dismantled after the construction is complete.

7. References
The scaffolding shall be designed in accordance with the following references:
 - BS 5973:2011 Code of practice for the erection and use of open end steel tube scaffolding.
 - BS 5975:2011 Code of practice for the erection and use of tube and coupler scaffolding.
 - BS 5976:2011 Code of practice for the erection and use of tube and coupler scaffolding with internal bracing.

8. Approval
The scaffolding design has been approved by the design engineer and the client.

9. Revision History

Revision	Description
P01	First issue to client