

**Oxford Humanities**

**Operation & Maintenance Manual**

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**ORCHESTRA PIT RAIL  
& MIXER POSITION RAIL**

Document No. : 4334-11-OM-0001

Revision : B

Date of Issue : 28/10/2025

Project Code : 4334

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## 1. Document Control

### 1.1. Identification

Client: Laing O'Rourke

Project Name: Oxford Humanities

J&C Joel Project Reference: 4334

Document Name: Orchestra Pit & Mixer Rails – Operation & Maintenance Manual

Document Reference: 4334-19-OM-0001

### 1.2. Document History

| Rev | Date       | Description                        | Author | Checked |
|-----|------------|------------------------------------|--------|---------|
| A   | 13/08/2025 | First Issue                        | JC     | SS      |
| B   | 28/10/2025 | Updated as per consultant comments | JC     | SS      |

### 1.3. Contact Details

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## 1.4. Warranty

Limited warranty is valid for twelve (12) months from the date of practical completion and handover to the client or clients representative (whichever occurs first.)

1. The warranty shall be limited to the free supply of replacement materials and workmanship for the faulty materials or workmanship and shall not cover other damage or defects how so ever caused.
2. It shall be the client's responsibility to notify J&C Joel Ltd for any defects in the machinery and the warranty shall be void if repairs or other works were carried out by third parties.
3. This warranty shall only apply to the areas where J&C Joel Ltd have been applied and completed the works.
4. The supply of replacement materials and workmanship under this warranty shall in no event exceed the quantity specified and supplied and shall only be applied to proven defective areas by checking and tests conducted under the control of the owner, the consultant or its representative and J&C Joel Ltd or its representatives.
5. This warrantee shall be interpreted according to the laws of the United Kingdom.

## 1.5. Copyright

This document contains material that is proprietary to J&C Joel Ltd. This information is provided on the understanding that it is used solely for the purpose of information, installing and maintaining the equipment described, and that it will not be revealed to third parties or otherwise disposed of without the prior written consent of J&C Joel Ltd.

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## 2. How To Use This Manual

Read the instructions carefully before use and follow them accordingly. Keep this document safe for future reference. Non-observance of these instructions may lead to hazardous situations and / or malfunctions or to failure of the equipment, resulting in damage or injury.

The user is advised not to operate or undertake any work on the system without first reading and understanding the contents of this manual.

All maintenance should be carried out strictly in accordance with the instructions contained in this and the manufacturer's reference manuals attached and undertaken by suitably trained and qualified personnel.

This manual describes the J&C Joel supplied Orchestra Pit and Mixer Rails within the Concert Hall at the Oxford Humanities building. This information is pertinent to both sets of handrails. Servicing or repairs of main fault conditions is not covered; in such cases please contact J&C Joel immediately.

This document is intended to provide the user with sufficient information to allow maintenance of the equipment described.

If in doubt about anything contained in this manual please contact the Projects Department at J&C Joel Ltd. T: +44 (0)1422 833835 – E: [ukprojects@jcjoel.com](mailto:ukprojects@jcjoel.com)

## 3. General

The orchestra pit guardrails are removable steel structures that fit into pre-existing, permanent sockets that are fitted into the concrete of the Concert Hall floor around the orchestra pit. They are designed to prevent falls into the pit when the orchestra lift is lowered. When removed, handrails are stored on a movable trolley for ease of handling.

There are nine handrails for the front of the pit and three handrails for the sides. Each handrail has an identification plate fitted to it to show where the handrail fits. Panels weigh a nominal 50kgs each. Each panel should be handled to two people to avoid potential manual handling problems. Timber panels to the rear can also be removed from the handrails for both load reduction and acoustic purposes.

Once all barriers are installed, the barrier locking system can be deployed. This requires a 10mm A/F Hex Allen key to be inserted into the receiver and then the internal cam is tightened onto the socket tube. Do not overtighten this cam or damage may occur. Repeat this with all stanchions, starting at one end of the handrail run, and working round to the other side.

The mixer position handrails are a similar system, used at the rear of the auditorium to segregate the mixer desk from the audience.

### 3.1. List of Drawings

| DRAWING NO.                   | TITLE   |
|-------------------------------|---|
| UOONHB-JCJ-CH-ZZ-DR-OT-050010 | Concert Hall - Orchestra Lift - Barrier Proposal - Plans            |
| UOONHB-JCJ-CH-ZZ-DR-OT-050011 | Concert Hall - Orchestra Lift - Barrier Proposal - Details          |
| UOONHB-JCJ-CH-ZZ-DR-OT-050012 | Concert Hall - Orchestra Lift - Barrier Proposal - Storage Trolleys |
| UOONHB-JCJ-CH-B1-DR-OT-130001 | Concert Hall Mixer Position Guardrails - General Arrangement        |
| UOONHB-JCJ-CH-B1-DR-OT-130002 | Concert Hall Mixer Position Guardrails - Details                    |

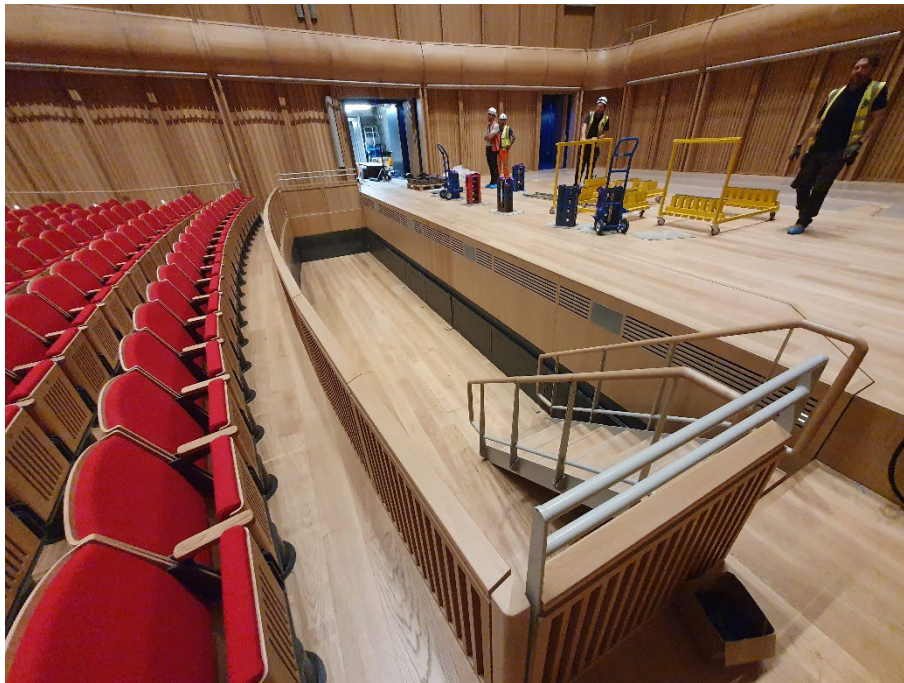
### 3.2. Care When Using

1. It is advised that protective gloves are worn when lifting or moving the barriers.
2. Extra care should be taken when moving of fitting handrails during low light levels such as during a theatre set-up.
3. Care should be taken when lifting and lowering the guardrails into sockets. Be especially aware of potential entrapment when lowering the guardrail to floor level as there is no gap between the finished floor and the bottom of the guardrail.
4. It is advised that prior to first use of the guardrails by new people, training should be offered to ensure they are comfortable and confident in using the guardrails.
5. Be aware that the fully loaded guardrail trolley weighs in the region of 310kgs. They are fitted with locking wheels on the handrail side of the trolley.

## 4. Guard Rails

### 4.1. Orchestra Pit Rails

Handrails installed and the large orchestra lift lowered. There is one “position” that does not have a rail unit, this is because the access steps (see 4334-09-OM-0001) fit into this position, this can be upstage, either stage left or stage right. As there is a fall risk, it is imperative that the steps are in place when the lift is lowered. The order of operations for this are; the steps should be set close to the position without a handrail, approximately 50mm from where the open edge will be. At least two castors should then be locked in position. Once this is complete, and all persons are off of the orchestra lifts, the large orchestra lift should be lowered. Finally, a member of the technical team can use the access steps to gain access to the pit, and reposition the steps into their permanent position with no gap between the edge and the top step.



Two storage trollies are supplied with the orchestra pit handrails. These come with sockets on the base that accept the different length rails. There are more sockets than there are rails.



To install the rails, first start by rolling the storage trolleys into the Concert Hall. The large orchestra lift should be in the up position, allowing the operator to roll the trolleys onto the lift. Ensuring that no personnel are on the lift, lower the lift to the auditorium level.

Remove the floor caps that cover the sockets in the floor.



Ensure that the trolley is adjacent to the position that rail will fit into. With two people, lift the handrail unit out of the trolley and gently place into the sockets in the floor.





Once the rails are in the floor, use a 10mm allen key to actuate the locking mechanism.



Once tightened, check that the guardrail is secure. It is suggested that this could be done by holding the top guardrail and moving it back and forth to check for excess 'play'

Removal of the guardrail is the reverse of the above fitting instructions.

Only once all handrails and the access step units are present should the large orchestra lift be moved to a lower position. For details of the positioning of the access tread unit please read O&M manual 4334-09-OM-0001.

## 4.2. Removable Panel

On the rear of both the mixer and orchestra pit panels there are screws that hold a timber board in place. These are removable, allowing for a lighter load when manual handling the rails and for differing acoustic properties when used in the venue.



To remove the panels a pozidriv screwdriver will be required. Before attempting to remove the panels, ensure that the rails are securely positioned in either the storage trolley or in their floor sockets. Using the screwdriver, remove the four screws that hold the panel in place, storing these in a secure location.





The screws fix into threaded inserts set into the oak. When installing and removing the screws, take care not to damage the head of the screw. Do not over tighten.



The panels are marked with the location and the size of rail that they fit to.



Ensure that the panels are safely stored with their screws when not in use.

### 4.3. Mixer Position Rails

The set up of the mixer rails is the same as the orchestra pit rails. However two rows of seats will need to be removed on one side of the auditorium to enable adequate access to the mixer position. These rails are also supplied with a similar trolley.

Additionally, the mixer position rostra must be removed and safely stored away for access to the space.



### 4.4. Signage

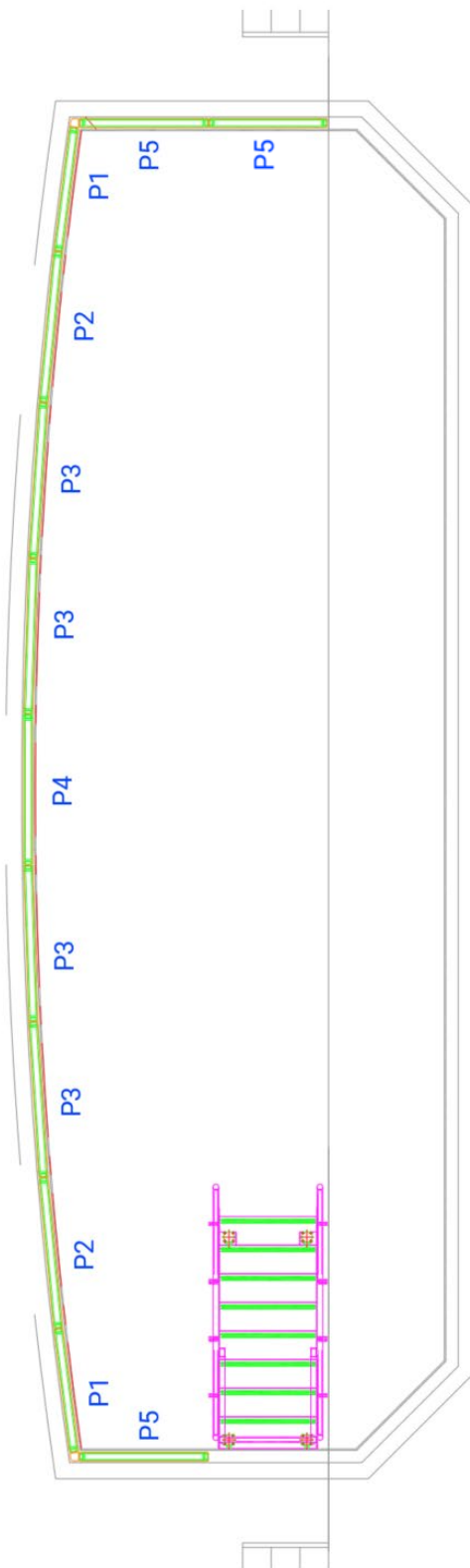
Each panel has a unique panel number on the side. For the Orchestra Pit Rails this starts with a letter “P”. For the Mixer Position Rails this starts with an “M”. Examples are shown below.



## 4.5. Rail Positions

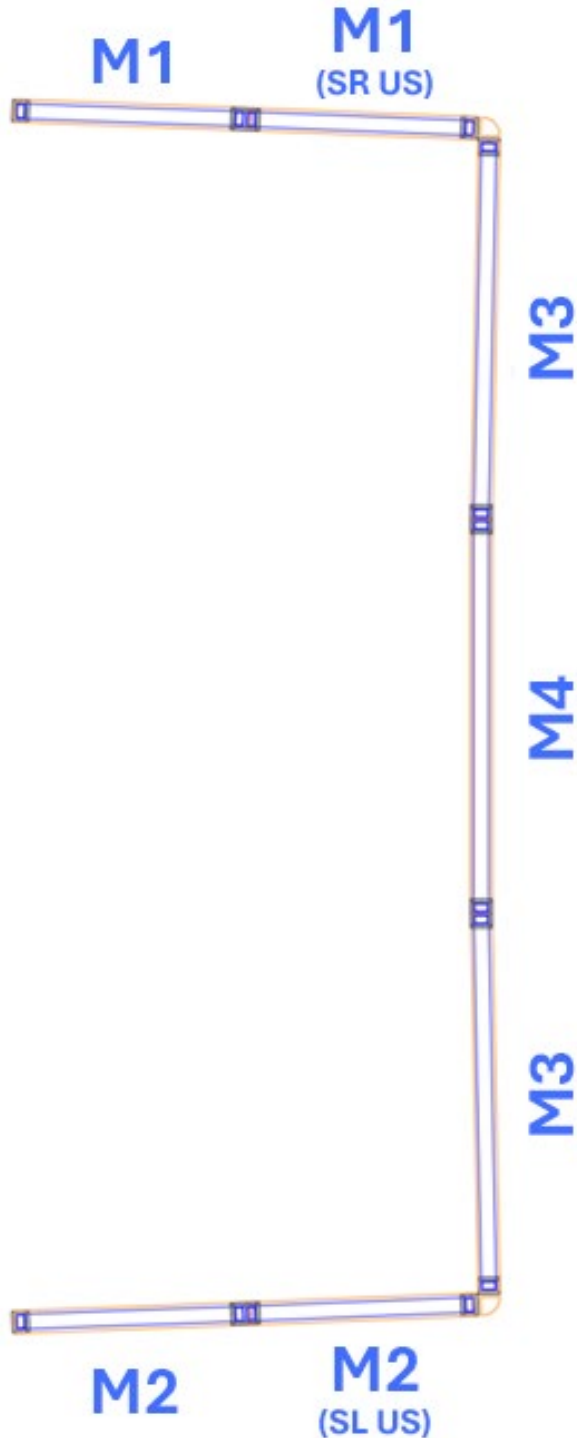
### Orchestra Pit Rails

Auditorium to the left, stage to the right as shown below.



### Mixer Position Rails

Auditorium to the left, stage to the right as shown below. Some need to be in a specific location, which is marked by a table of either SR US or SL US;



## 5. Maintenance

### 5.1. ML02 Inspection Sheet

**Inspection Notes:**

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**Inspector:**

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Maintenance Manager:**

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Maintenance Inspection**

The Maintenance Manager or Inspection Engineer should check off each item on the **ML01 Inspection Check Sheet** as “Pass, Fail, or N/A” (not applicable to this item).

If any of the items are checked as “Fail”, the Maintenance Manager or Inspection Engineer must compile a separate Snagging Sheet and arrange for immediate rectification of the faults. Once these have all been corrected the relevant “Rectified” box on the ML01 document must be checked off and this page ML02 must be signed and dated by the Inspector or Maintenance Manager.

The section “**Inspection Notes**” above is intended for recording any snag that is found during the inspection that may have not been included in the tick sheets for the item of equipment, these snags must be included on the Snagging Sheet.

As soon as this document has been signed, the relevant section of the Maintenance Inspection Report must be checked off, initialled and dated.

## 5.2. ML01 Check Sheet

### Orchestra Pit Rail

|          |  | Pass                     | Fail                     | Rectified                | N/A                      |
|----------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>1</b> | <b>Appearance</b>  |                          |                          |                          |                          |
| 1.1      | Check guardrails are free from obvious damage, including major finish loss   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.2      | Check guardrails (if removed) are plumb and square   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.3      | Check guardrail (if removed) bottom fixings are not damaged  |                          |                          |                          |                          |
| <b>2</b> | <b>General</b>   |                          |                          |                          |                          |
| 2.1      | Check the guardrail moving trolley moves freely and is undamaged   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.2      | Check guardrail for signs of any other damage  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>3</b> | <b>Mechanical</b>  |                          |                          |                          |                          |
| 3.1      | Inspect guardrails for any sign of damage or misuse, especially from goods being leant against the rails and dragging across the guardrail face. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.2      | Check that the trolley polyurethane wheels are undamaged or have parts missing on the trolley  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.3      | Check that the steel guardrail landing supports on the trolley are sound and un-damaged.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.4      | Check that all fixings are present and secure.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Mixer Position Rail

|          |  | Pass                     | Fail                     | Rectified                | N/A                      |
|----------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>1</b> | <b>Appearance</b>  |                          |                          |                          |                          |
| 1.1      | Check guardrails are free from obvious damage, including major finish loss   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.2      | Check guardrails (if removed) are plumb and square   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.3      | Check guardrail (if removed) bottom fixings are not damaged  |                          |                          |                          |                          |
| <b>2</b> | <b>General</b>   |                          |                          |                          |                          |
| 2.1      | Check the guardrail moving trolley moves freely and is undamaged   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.2      | Check guardrail for signs of any other damage  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>3</b> | <b>Mechanical</b>  |                          |                          |                          |                          |
| 3.1      | Inspect guardrails for any sign of damage or misuse, especially from goods being leant against the rails and dragging across the guardrail face. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.2      | Check that the trolley polyurethane wheels are undamaged or have parts missing on the trolley  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.3      | Check that the steel guardrail landing supports on the trolley are sound and un-damaged.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.4      | Check that all fixings are present and secure.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## 6. Referenced Drawings

Drawings are shown overleaf.

| REVISIONS |    |                              |            |
|-----------|----|------------------------------|------------|
| REV.      | BY | DESCRIPTION                  | DATE       |
| P01       | SC | FIRST ISSUE                  | 19/12/2023 |
| C01       | SC | BACKGROUND & VIEWS CORRECTED | 12/02/2024 |
| C02       | SC | SETTING OUT MODS             | 28/05/2024 |
| C03       | SC | REDESIGN                     | 11/07/2024 |
| C04       | SH | For Record                   | 28/04/2025 |
| -         | -  | -                            | -          |
| -         | -  | -                            | -          |

Notes:

2 OFF PANEL P6 SUPPLIED TO ENABLE FULL BARRIER WHEN ACCESS STEPS NOT USED.

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

|           |          |             |            |
|-----------|----------|-------------|------------|
| DRAWN:    | SH       | DATE:       | 28/04/2025 |
| CHECKED:  | JC       | DATE:       | 28/04/2025 |
| APPROVED: | OS       | DATE:       | 28/04/2025 |
| SCALE:    | ON SHEET | PAPER SIZE: | A1         |

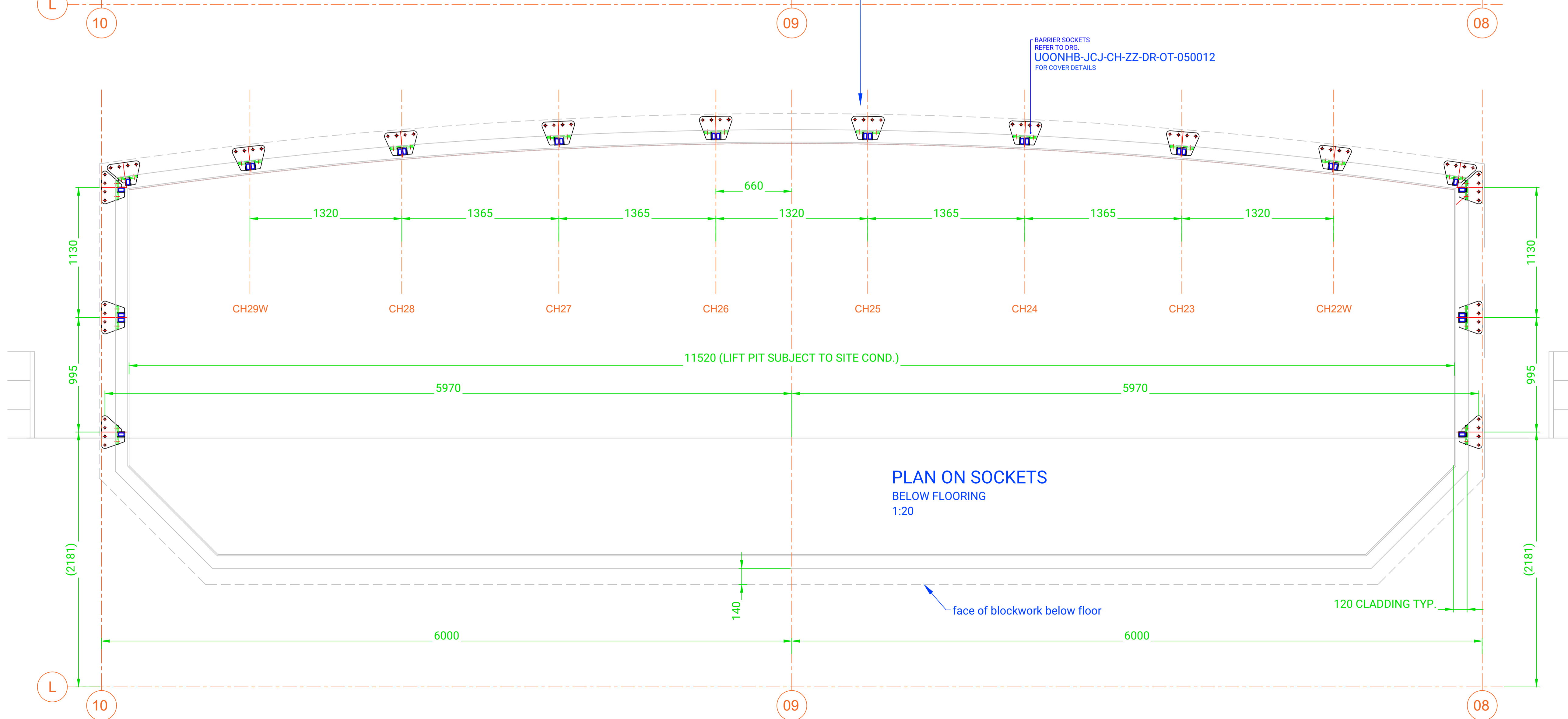
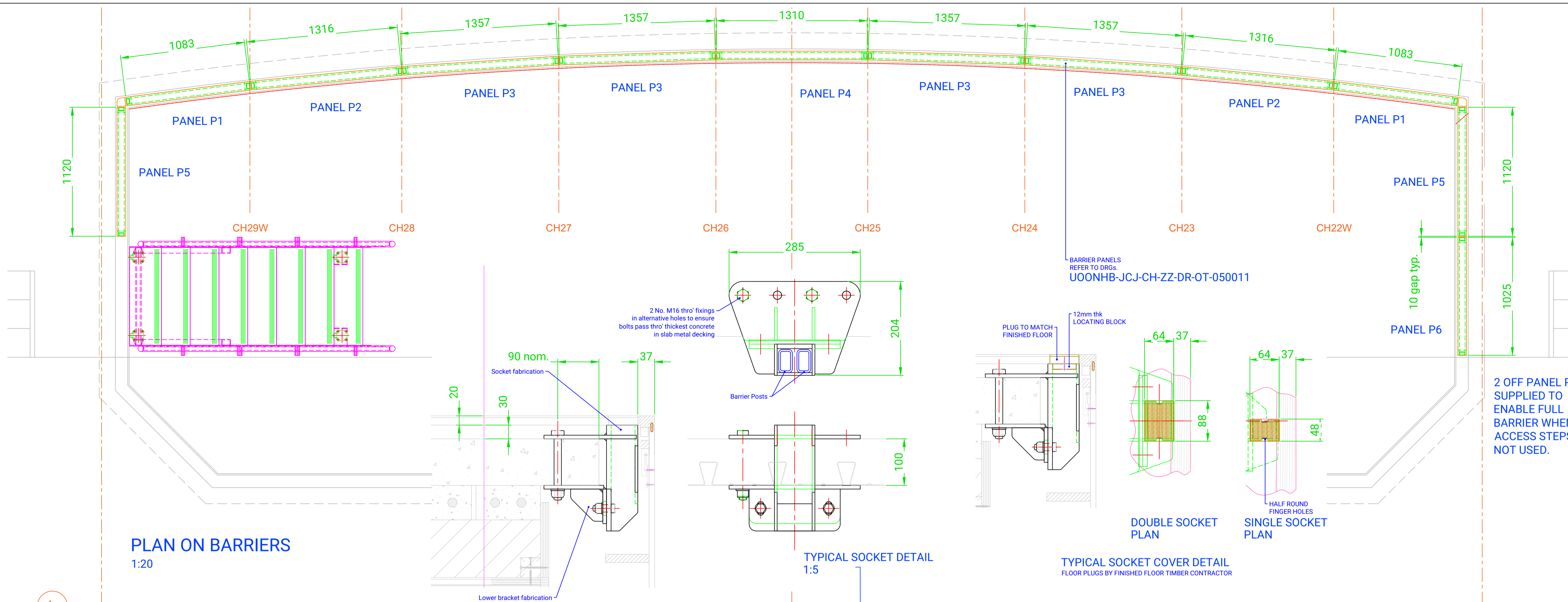
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|         |                               |
|---------|-------------------------------|
| PROJECT | 4334 - Oxford Humanities      |
| JCJ NO. | 4334-GA-05-0010               |
| DRG NO. | UOONHB-JCJ-CH-ZZ-DR-OT-050010 |

TITLE  
CONCERT HALL  
ORCHESTRA LIFT  
BARRIER PROPOSAL  
PLANS & SOCKET DETAIL

PURPOSE  
A5 - Accepted as Suitable for Record

REV C04



| REVISIONS |    |                                |            |
|-----------|----|--------------------------------|------------|
| REV.      | BY | DESCRIPTION                    | DATE       |
| P01       | SC | FIRST ISSUE                    | 19/12/2023 |
| P02       | SC | UPDATE TO CONSULTANT COMMENTS  | 13/02/2024 |
| P03       | SC | REDESIGN                       | 12/07/2024 |
| C01       | JC | DIMENSIONS & COLOUR NOTE ADDED | 20/08/2024 |
| C02       | JC | UPDATE                         | 02/09/2024 |
| C03       | SH | For Record                     | 28/04/2025 |

**Notes:**

Metalwork to be powder coated RAL 7044  
Bolts / fixings that cannot be powder coated will be sprayed RAL 7044 post install.

HSE general guidance for lifting does not state minimum weight for lifting safely.

All panels may be lifted by using slot beneath top timber covered rail, or for taller (side) panels, by any of the 2 tubular rails.

All panels require 2 person lift and to be carried out as per instruction manual requiring the operator to be standing upright and lifting from knuckle to elbow height. This operation passes through the HSE guidance zones of 25 to 15kg male, 16 to 10kg female.  
Maximum panel weight (timber panel removed) = 30kg (15kg per person)

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

|           |      |             |            |
|-----------|------|-------------|------------|
| DRAWN:    | SH   | DATE:       | 28/04/2025 |
| CHECKED:  | JC   | DATE:       | 28/04/2025 |
| APPROVED: | OS   | DATE:       | 28/04/2025 |
| SCALE:    | 1:10 | PAPER SIZE: | A1         |

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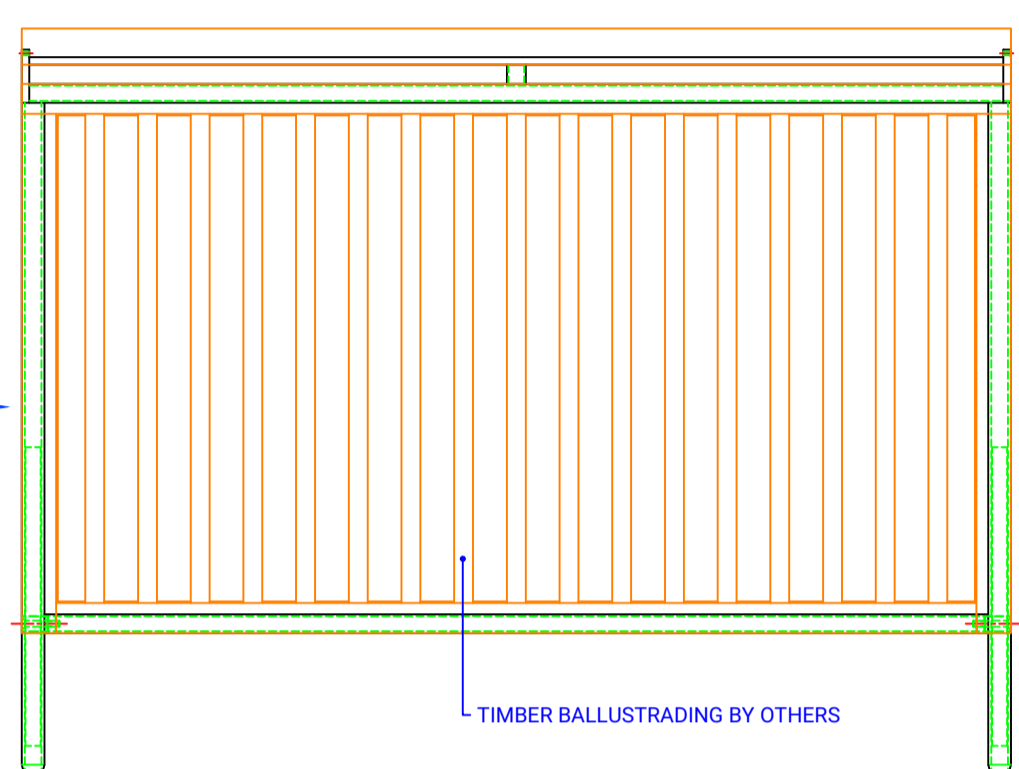
|         |   |
|---------|---|
| PROJECT | 4334 - Oxford Humanities                      |
| JCJ NO. | 4334-GA-05-0011                               |
| DRG NO. | U00NHB-JCJ-CH-ZZ-DR-OT-050011                 |
| TITLE   | ORCHESTRA LIFT<br>BARRIER PROPOSAL<br>DETAILS |
| PURPOSE | A5 - Accepted as<br>Suitable for Record       |
| REV     | C03   |

**BARRIER PANELS P1 TO P4 INCL. DETAIL**

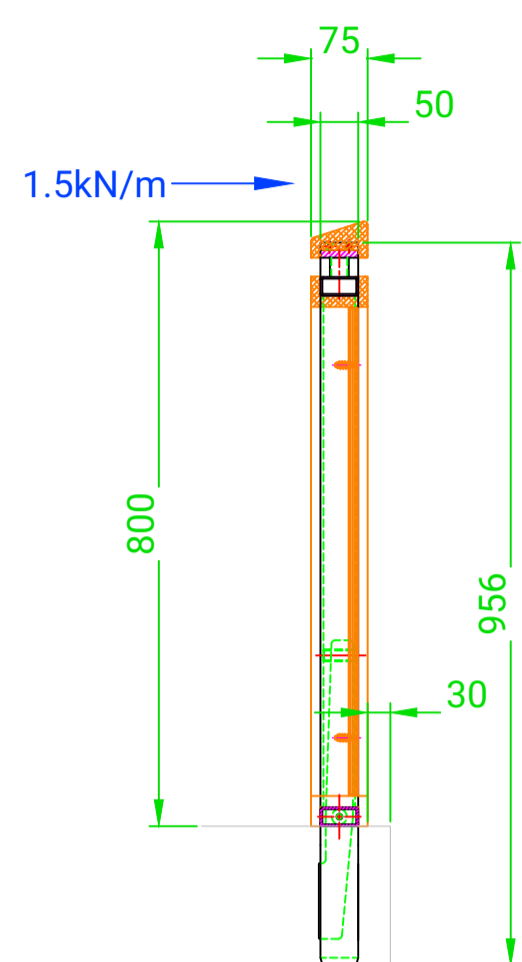
1:10  
2 off P1 at 1083mm lg  
2 off P2 at 1316mm lg  
4 off P3 at 1357mm lg  
1 off P4 at 1310mm lg

BARRIER WEIGHT:  
(LARGEST BARRIER = PANEL 3)  
FRAME 25kg  
FIXED TIMBER 18kg  
REM. PANEL 7kg  
TOTAL 50kg

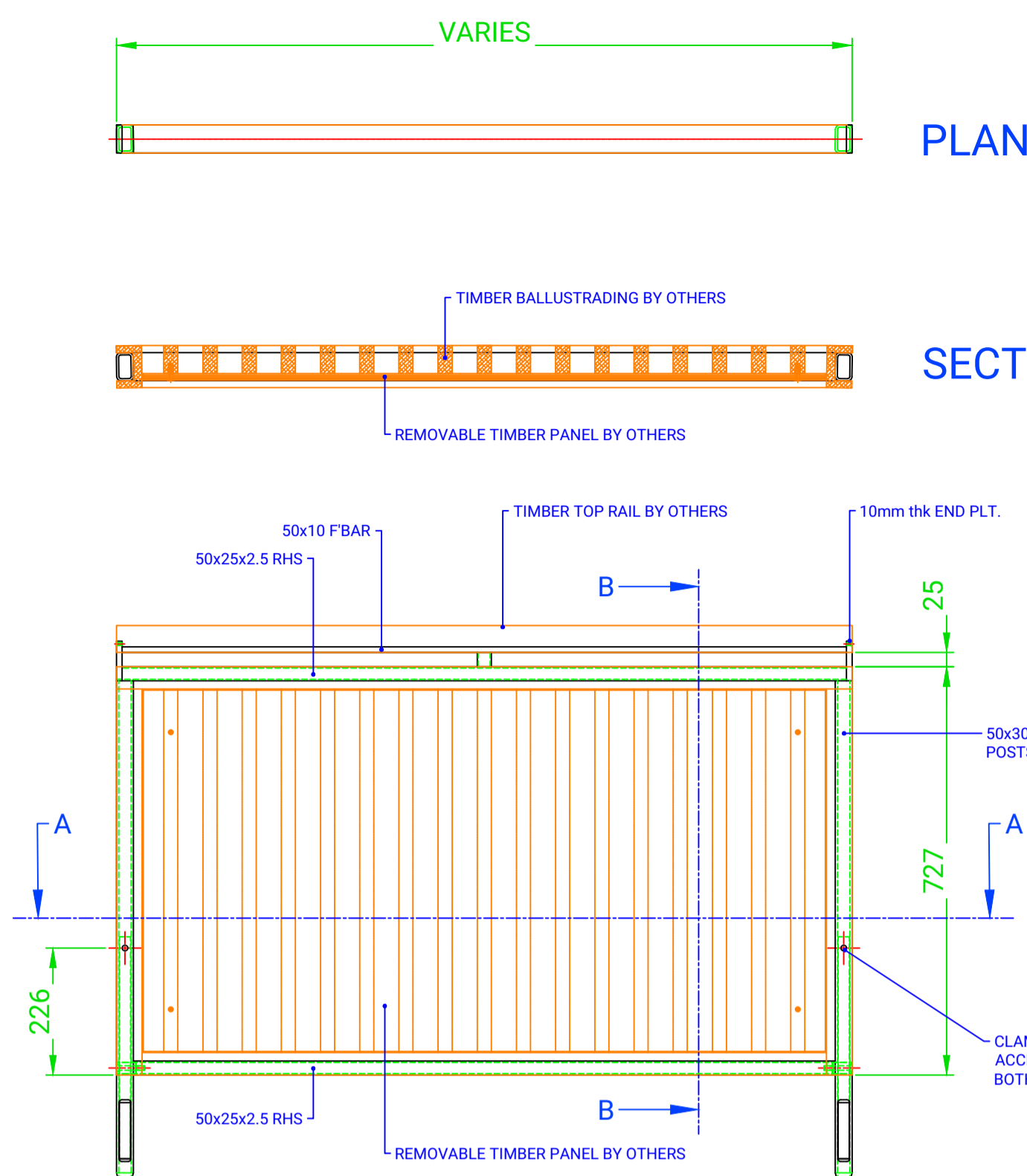
SEE MARKING DETAIL



AUDITORIUM FACE

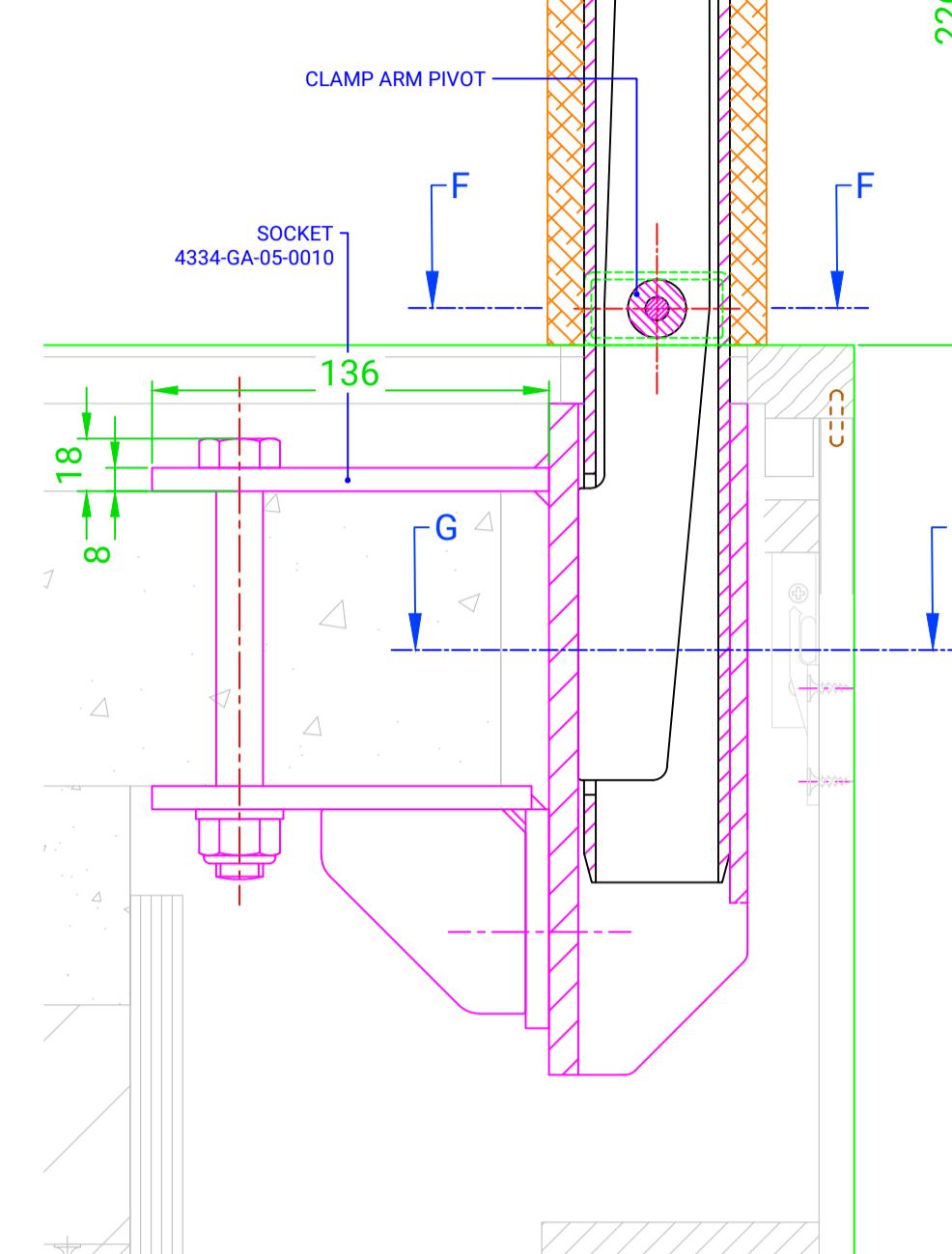


SECTION A-A

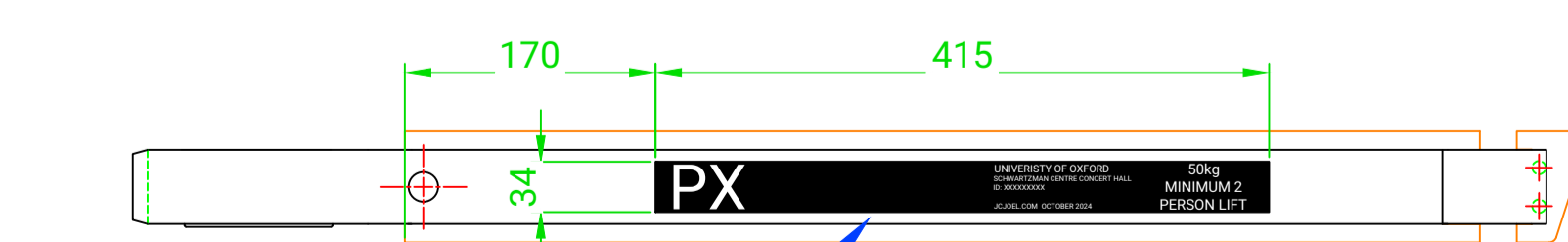
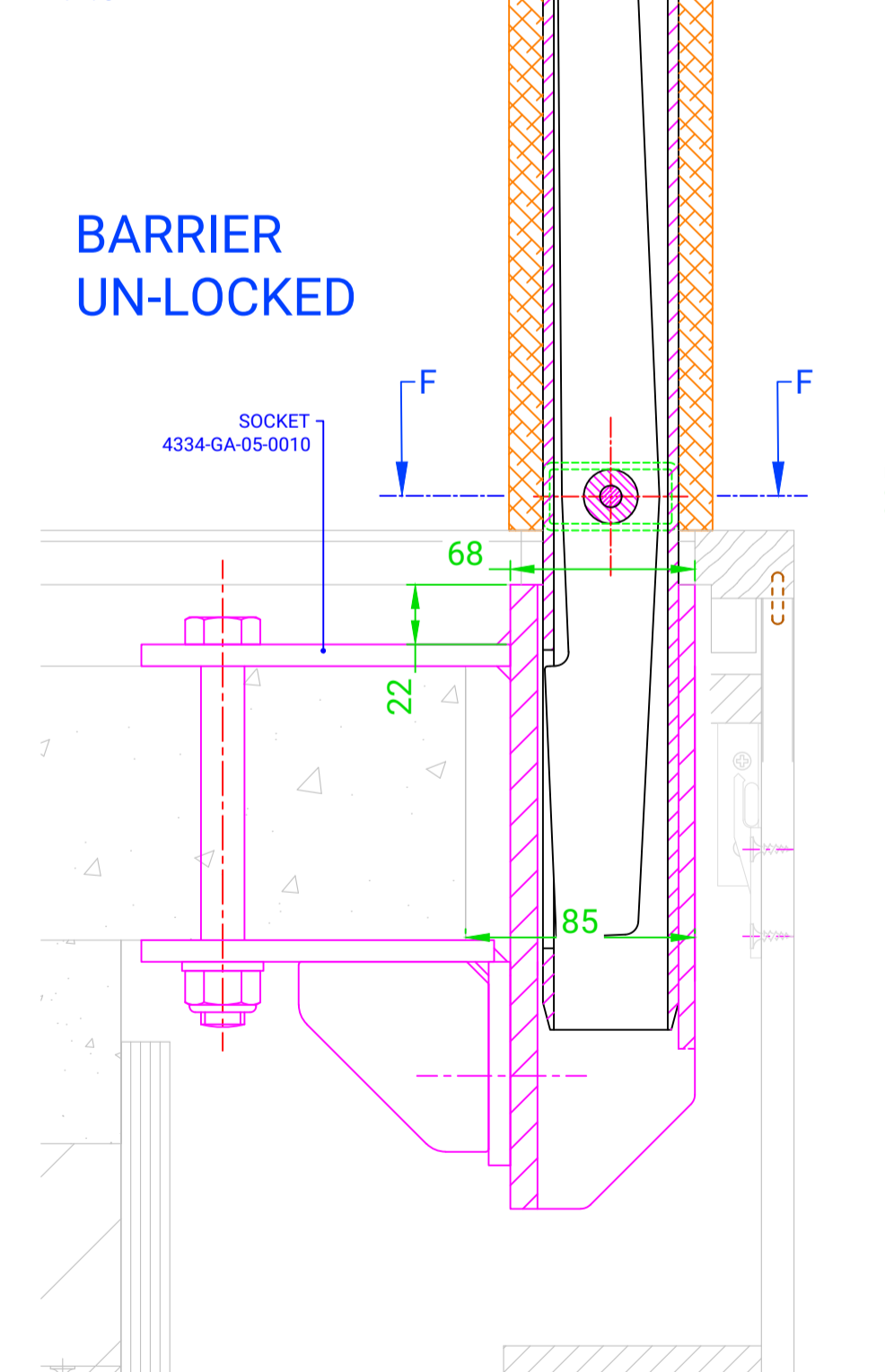


PIT FACE

**BARRIER LOCKED**



**BARRIER LOCKING DETAIL 1:2.5**



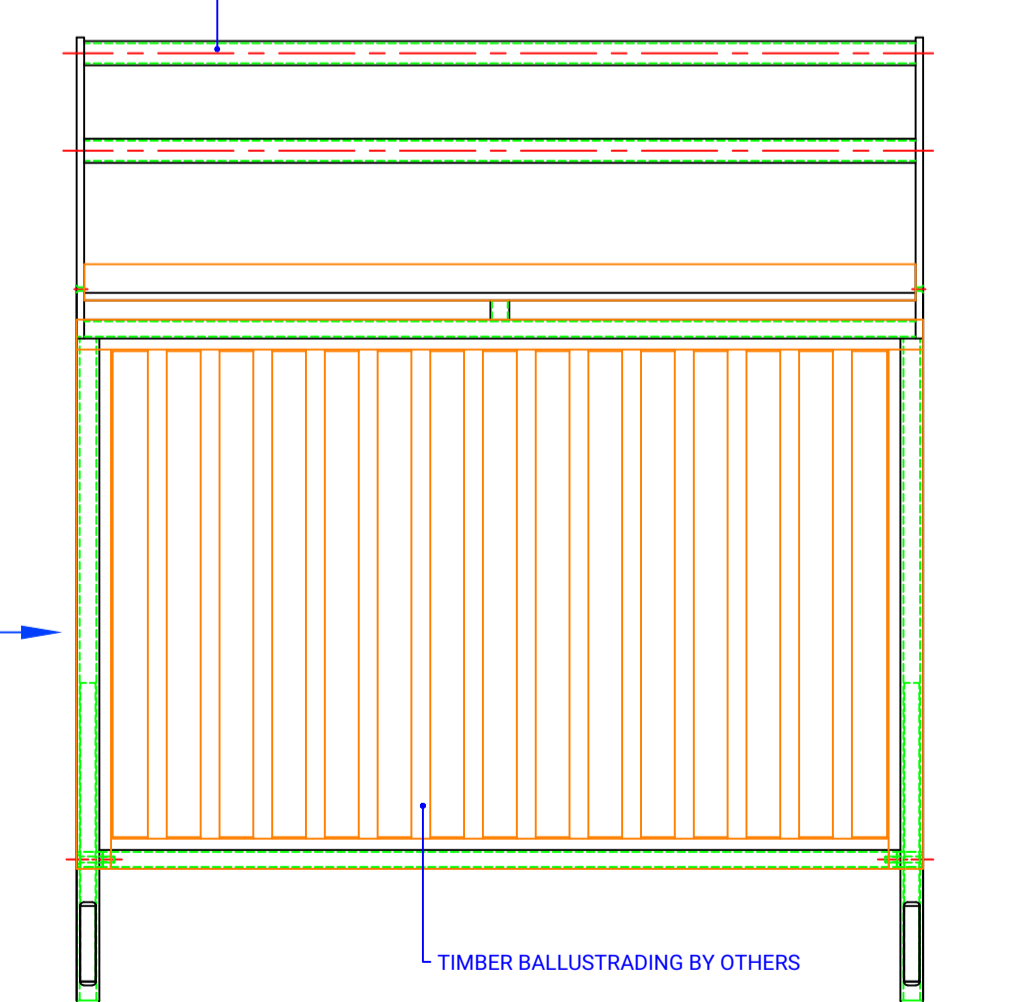
MARKING DETAIL

**BARRIER PANELS P5 & P6 INCL. DETAIL**

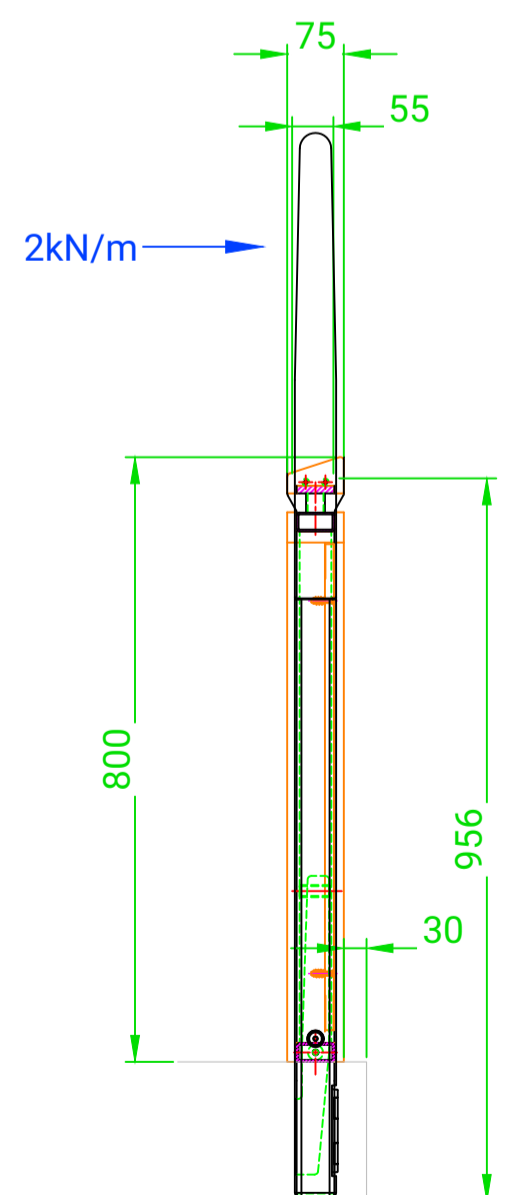
1:10  
2 off P5 at 1120mm lg  
2 off P6 at 1025mm lg

BARRIER WEIGHT:  
(LARGEST BARRIER = PANEL 5)  
FRAME 30kg  
FIXED TIMBER 14.5kg  
REM. PANEL 5.5kg  
TOTAL 50kg

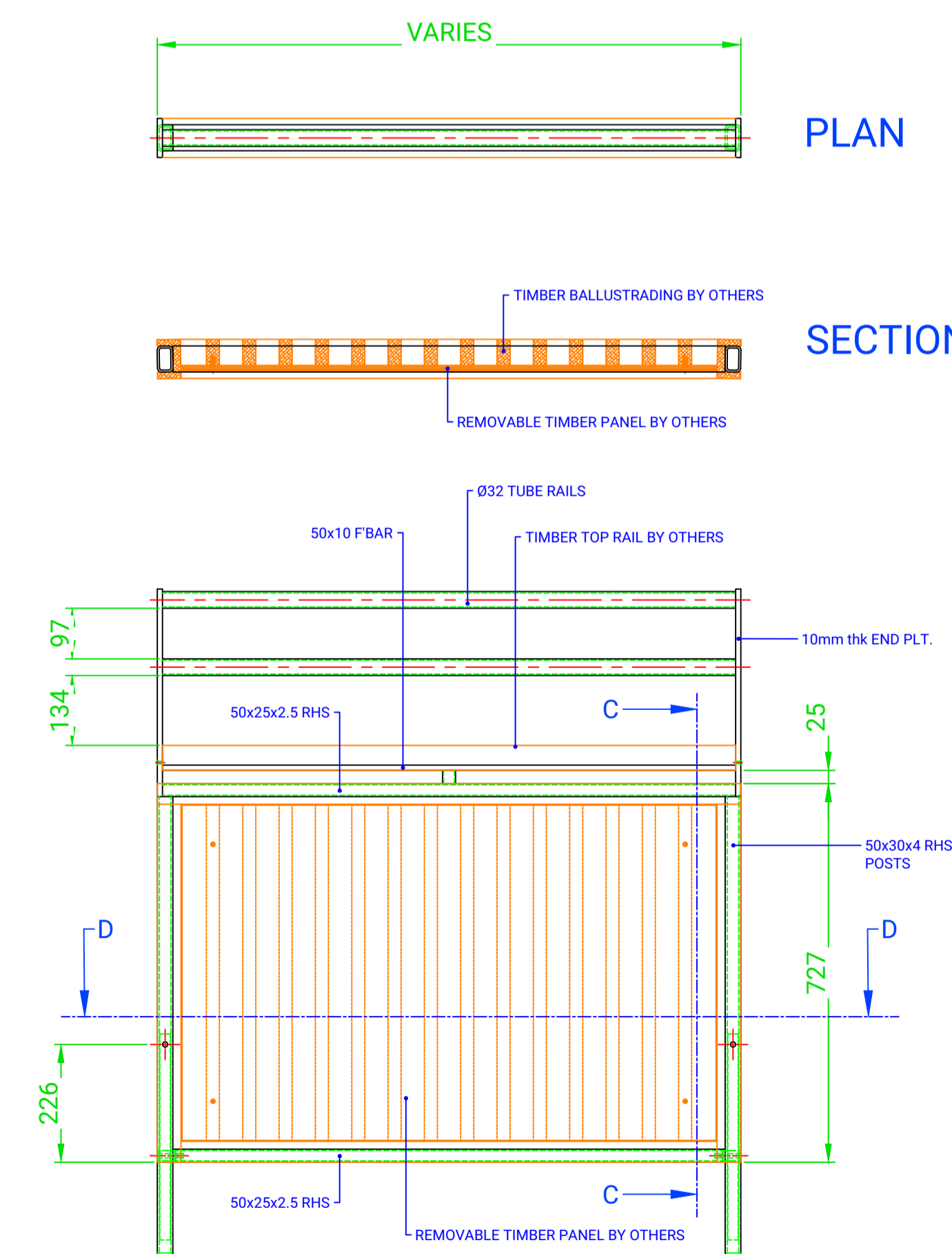
SEE MARKING DETAIL



AUDITORIUM FACE



SECTION C-C



PIT FACE

PANEL IDENTIFICATION No.

**PX**  
UNIVERSITY OF OXFORD  
SCHWARTZMAN CENTRE CONCERT HALL  
© 2024 J&C JOEL  
50kg  
MINIMUM 2  
PERSON LIFT  
J&C JOEL.COM OCTOBER 2024

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| REVISIONS |    |             |            |
|-----------|----|-------------|------------|
| REV.      | BY | DESCRIPTION | DATE       |
| P01       | SC | FIRST ISSUE | 19/12/2023 |
| C01       | SC | APPROVAL    | 21/08/2024 |
| C02       | SH | For Record  | 12/05/2025 |
| -         | -  | -           | -          |
| -         | -  | -           | -          |
| -         | -  | -           | -          |
| -         | -  | -           | -          |

**Notes:**

START/MOVING LOADS BASED ON POLYURETHANE TYRED WHEEL ON HARD SMOOTH LEVEL SURFACE  
0.8% START, 0.5% CONSTANT SPEED.

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN: SH DATE: 12/05/2025

CHECKED: JC DATE: 12/05/2025

APPROVED: OS DATE: 12/05/2025

SCALE: ON SHEET PAPER SIZE: A1

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PROJECT 4334 - Oxford Humanities

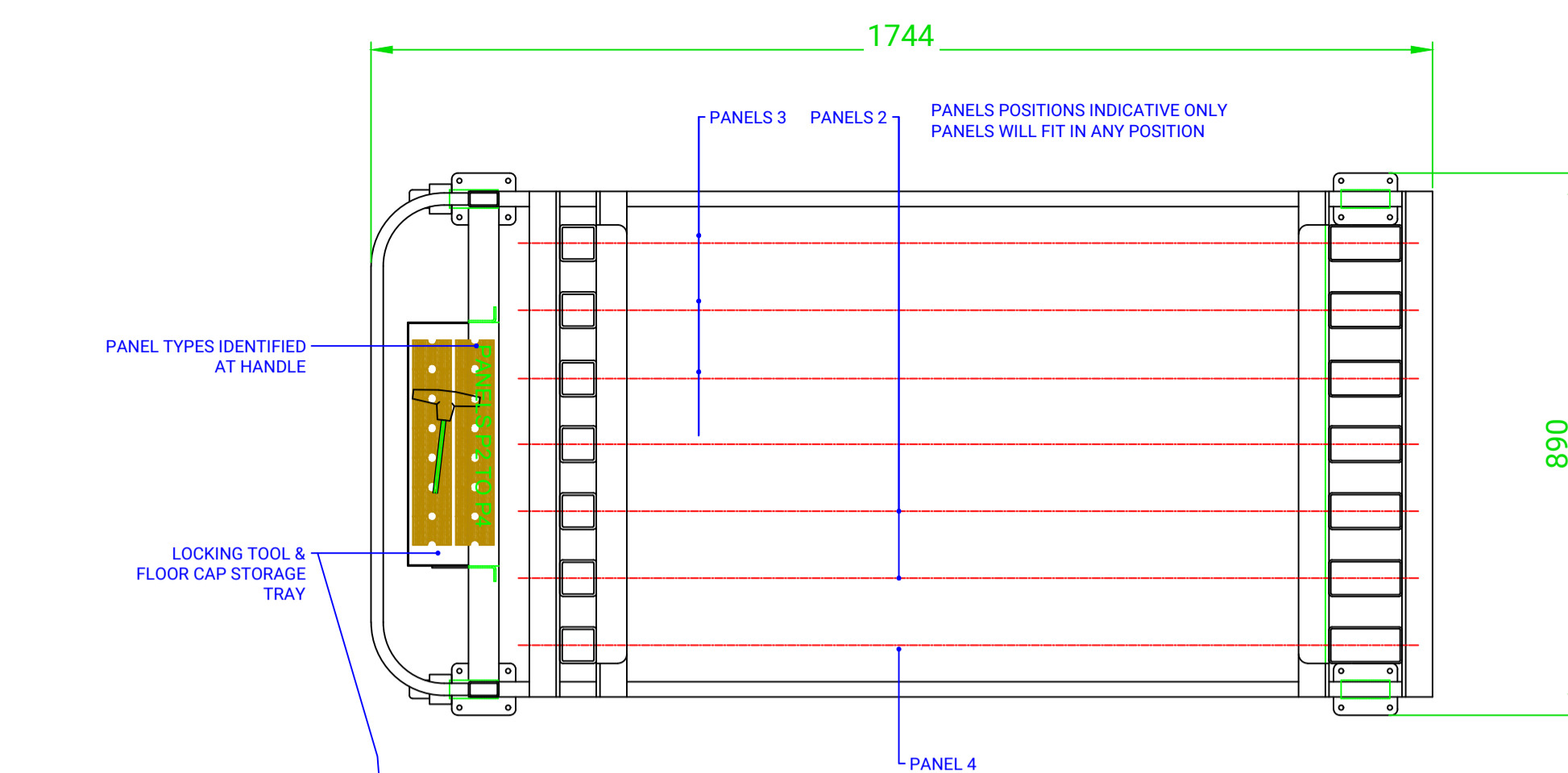
JCJ NO. 4334-GA-05-0012

DRG NO. U00NHB-JCJ-CH-ZZ-DR-OT-050012

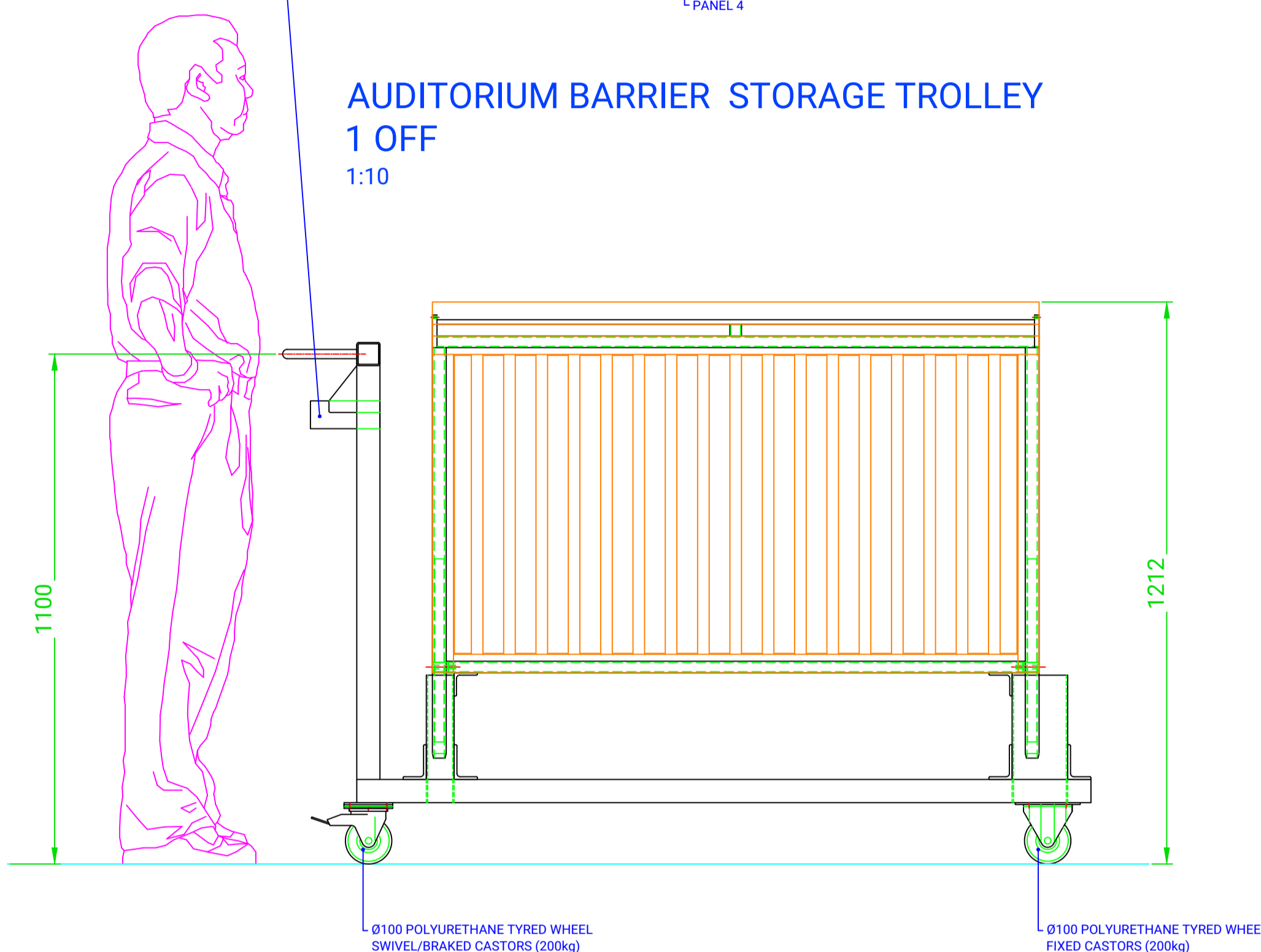
TITLE ORCHESTRA LIFT  
BARRIER PROPOSAL  
STORAGE TROLLIES

PURPOSE A5 - Accepted as  
Suitable for Record

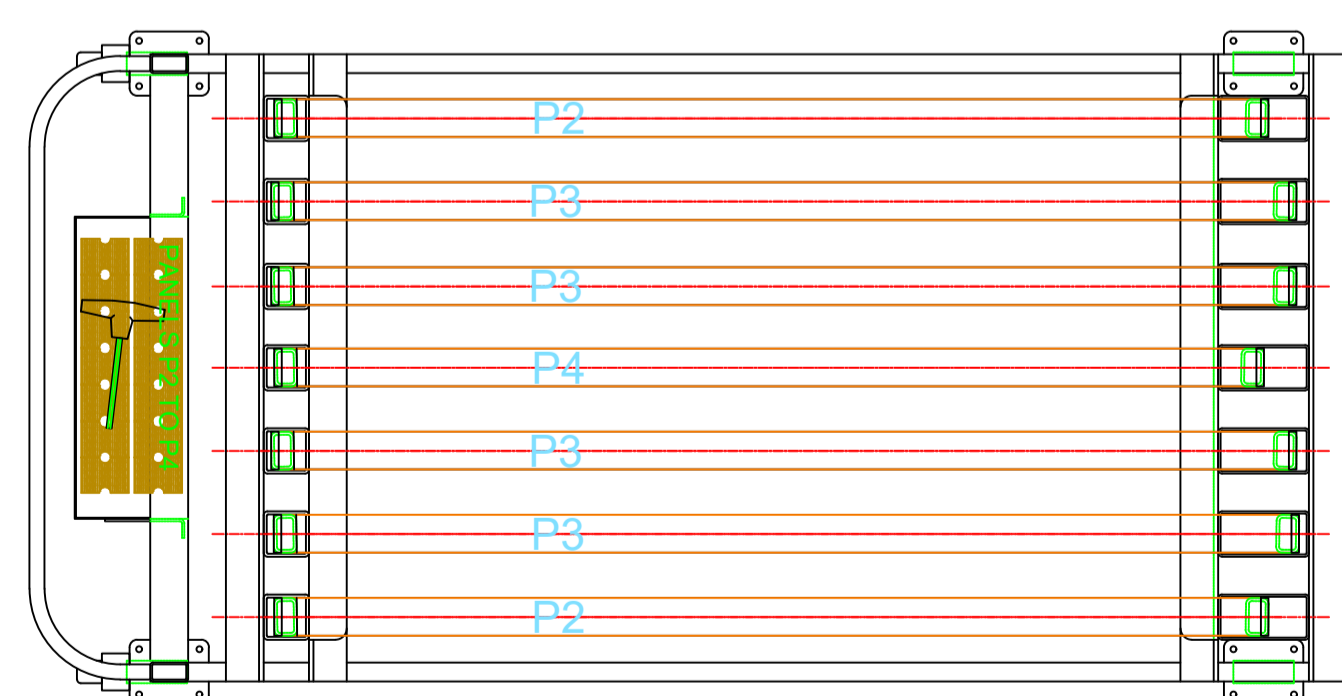
REV C02



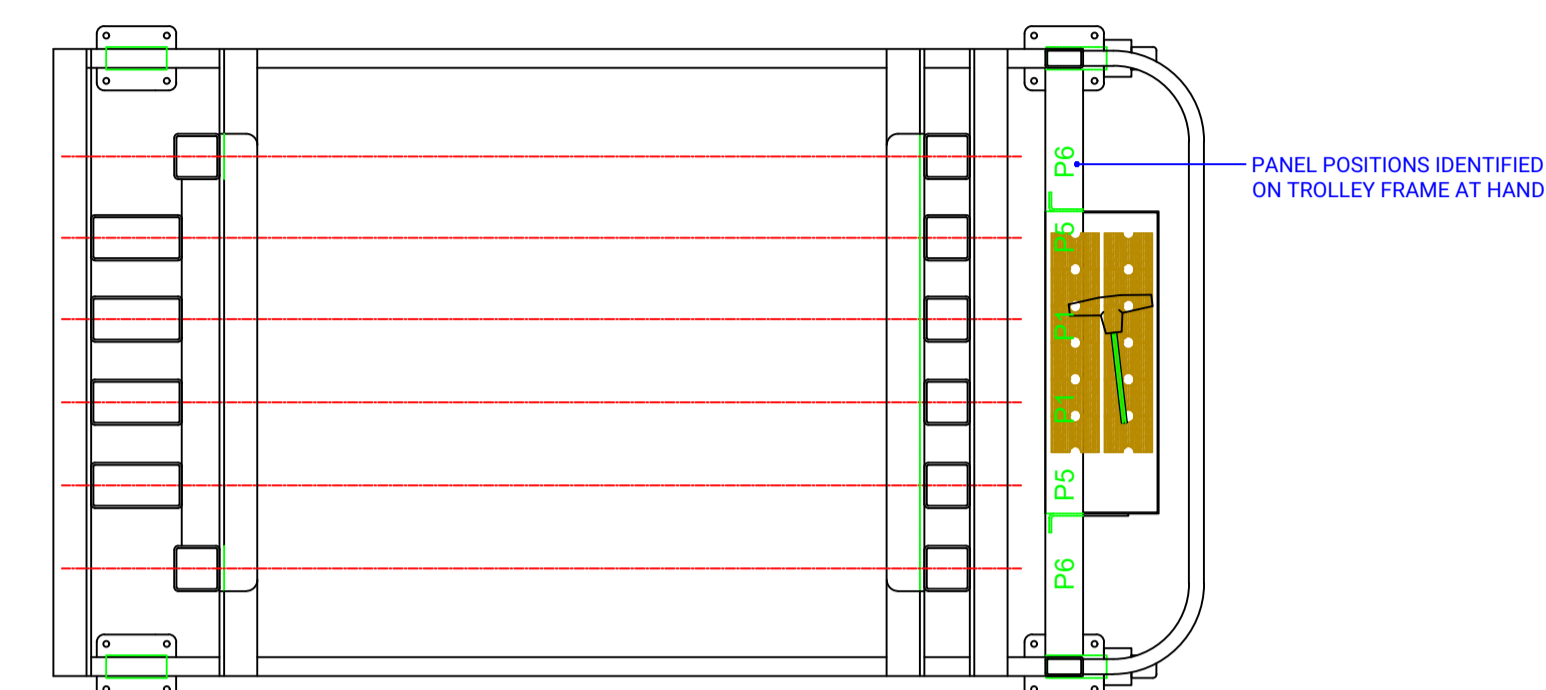
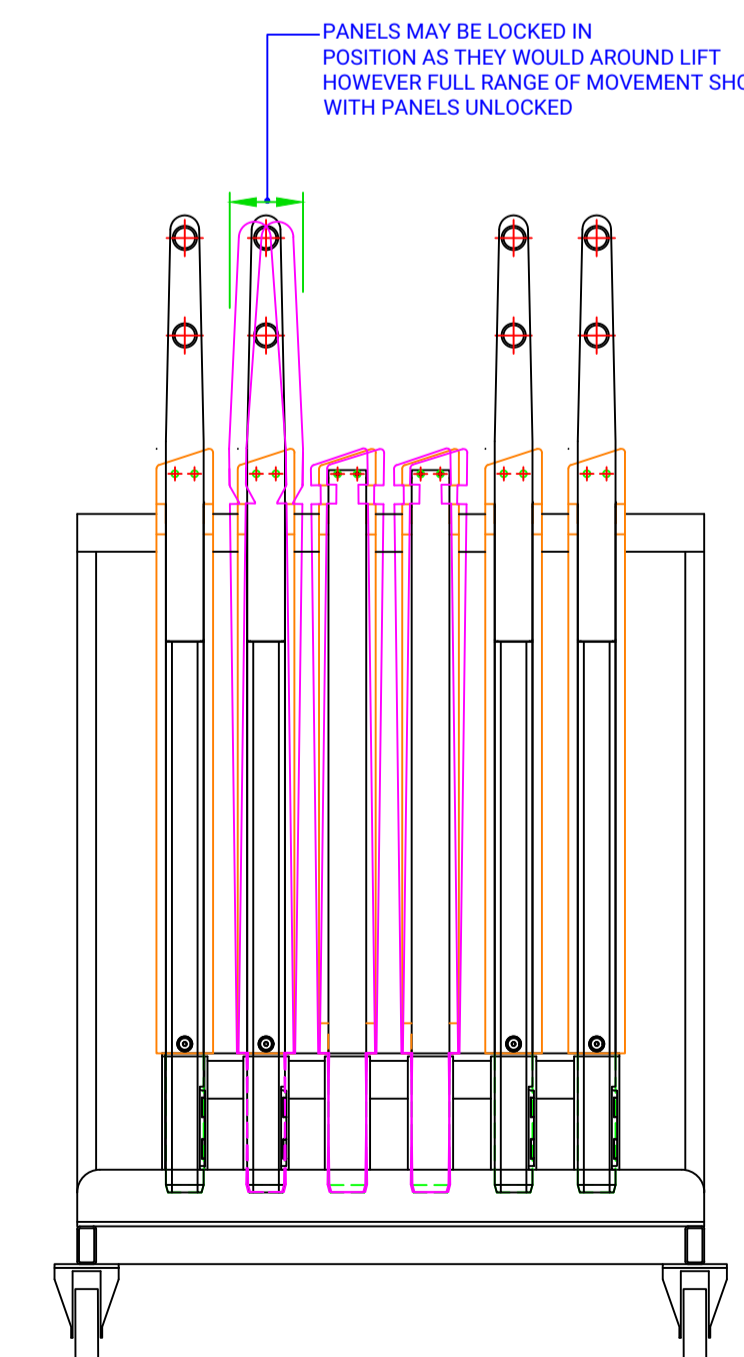
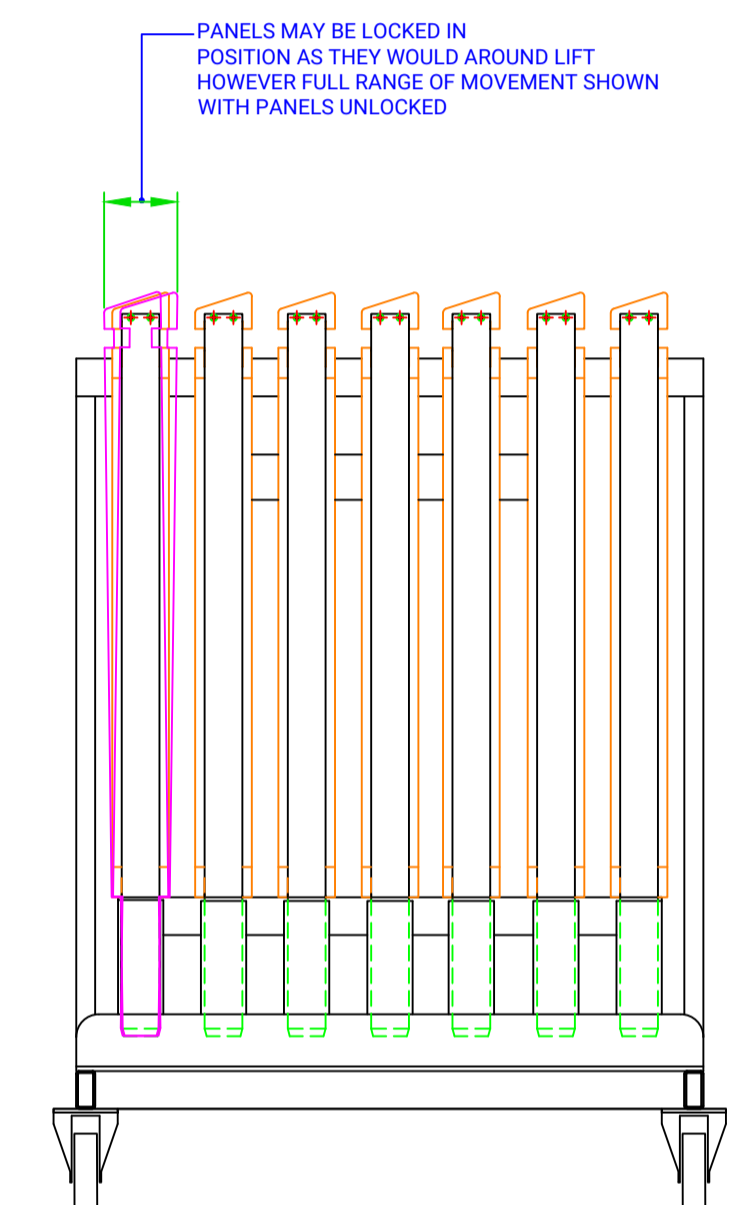
**AUDITORIUM BARRIER STORAGE TROLLEY**  
1 OFF  
1:10



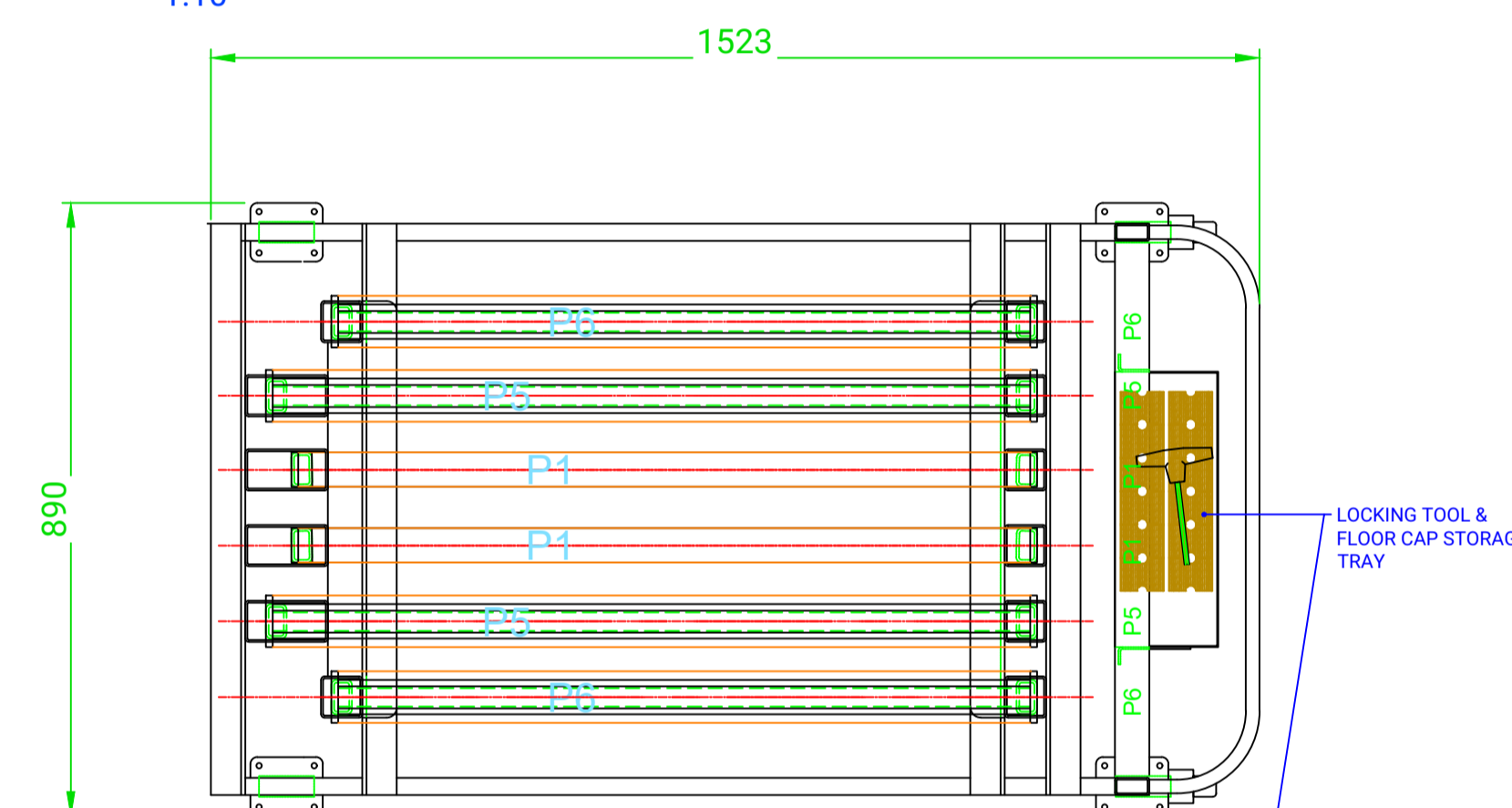
330kg FULLY LADEN  
PUSH/PULL FORCE: 35N Start, 23N Running



**PLAN ON TROLLEY WITH BARRIERS REMOVED**  
1:10

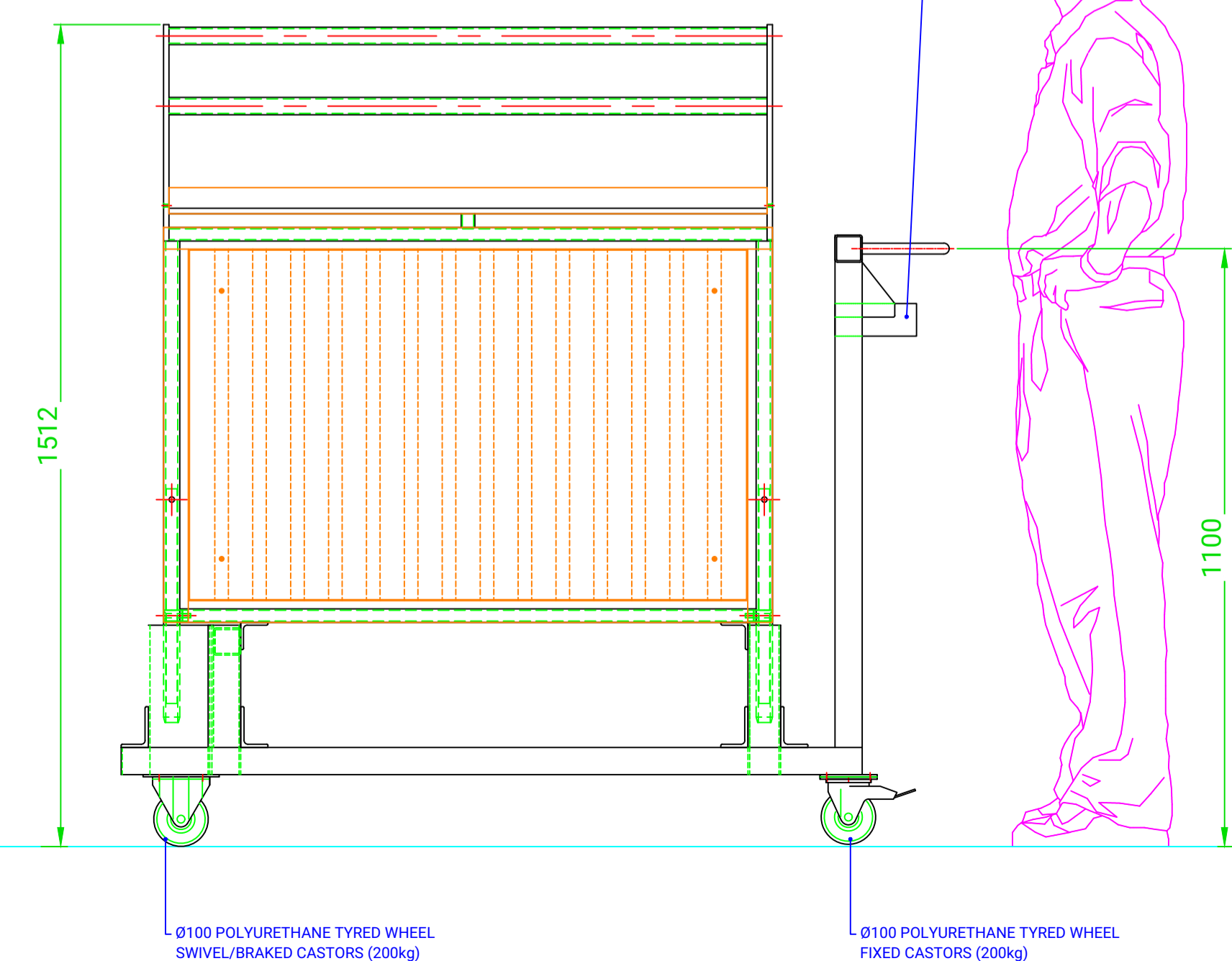


**PLAN ON TROLLEY WITH BARRIERS REMOVED**  
1:10



**AUDITORIUM BARRIER STORAGE TROLLEY**  
1 OFF  
1:10

285kg FULLY LADEN  
PUSH/PULL FORCE: 23N Start, 15N Running



REFER TO DRGs; U00NHB-JCJ-CH-B1-DR-OT-050010 & 050011  
FOR BARRIER PANELS

| REVISIONS |    |                                   |            |
|-----------|----|-----------------------------------|------------|
| REV.      | BY | DESCRIPTION                       | DATE       |
| P01       | SH | FIRST ISSUE                       | 24/07/2024 |
| C01       | SH | REVISED                           | 02/09/2024 |
| C02       | SH | REVISED - SIDE RAILS OF EQ LENGTH | 24/09/2024 |
| C03       | SH | For Record                        | 28/04/2025 |

Notes:

To be read in conjunction with;  
UOONHB-JCJ-CH-B1-DR-OT-130002

Equipments set out in room as per ;  
UOONHB-CBL-CH-B1-DR-OT-000302  
UOONHB-HAL-CH-ZZ-DR-A-005760\_Ver2  
UOONHB-JAJ-CH-B1-DR-O-000570

Mild Steel RHS Frames Coated PPC RAL 7044

Position of Sockets to be marked and verified by surveying team.

HSE general guidance for lifting does not state minimum weight for lifting safely.

All panels may be lifted by using slot beneath top timber covered rail, or for taller (side) panels.

All panels require 2 person lift and to be carried out as per instruction manual requiring the operator to be standing upright and lifting from knuckle to elbow height

This operation passes through the HSE guidance zones of 25 to 15kg male, 16 to 10kg female.  
Maximum panel weight (timber panel removed) = 26.5kg (13.25kg per person)

Status:  
A -  B -  C -

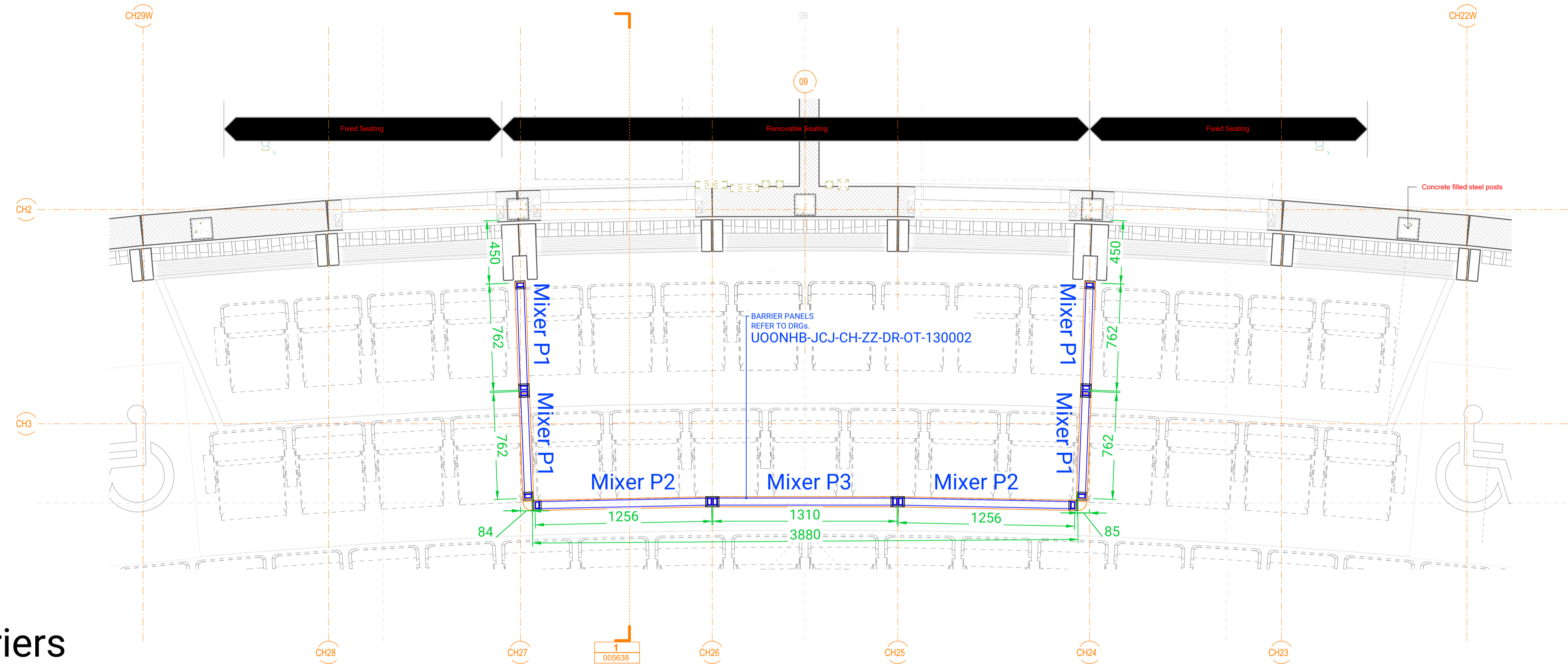
All dimensions in mm unless otherwise stated. Do not scale.

|           |          |             |            |
|-----------|----------|-------------|------------|
| DRAWN:    | SH       | DATE:       | 28/04/2025 |
| CHECKED:  | JC       | DATE:       | 28/04/2025 |
| APPROVED: | OS       | DATE:       | 28/04/2025 |
| SCALE:    | ON SHEET | PAPER SIZE: | A1         |

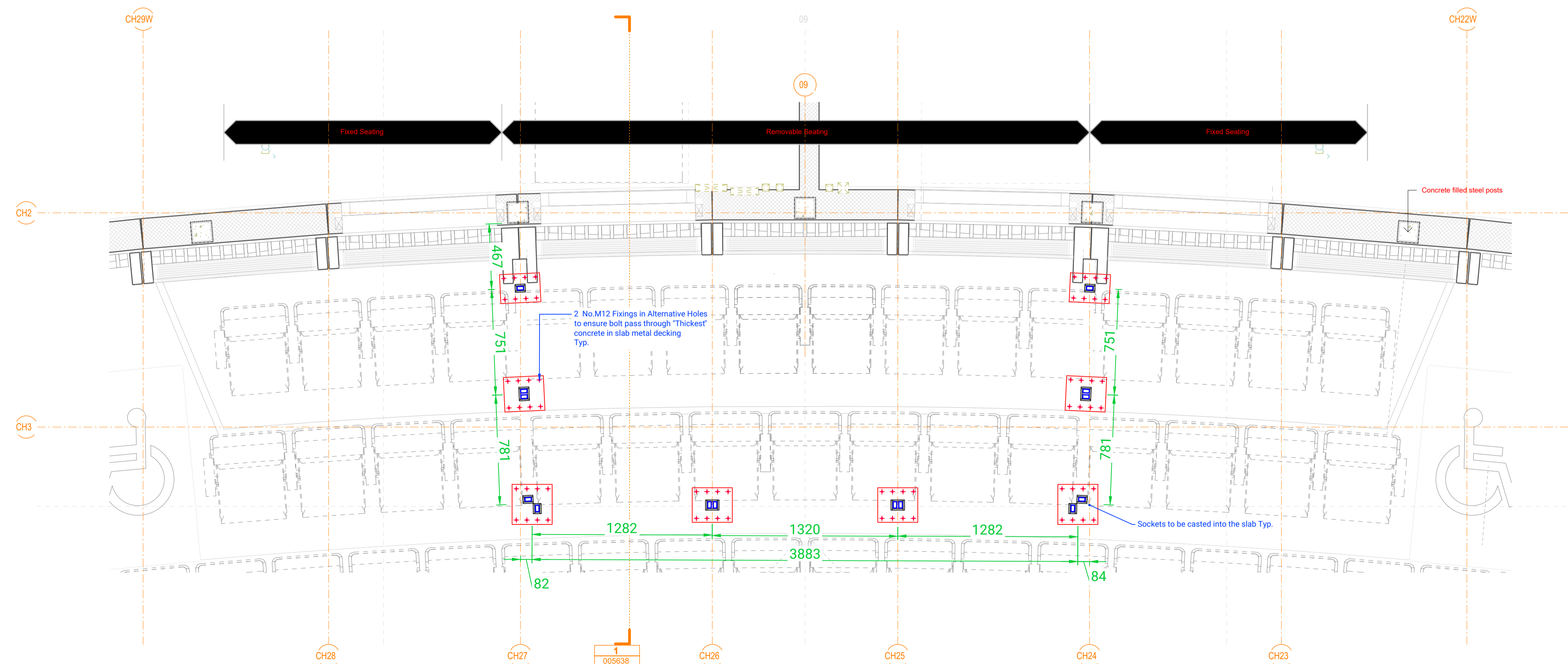
**J&C Joel**  
Inspiration in every performance

|         |                               |
|---------|-------------------------------|
| PROJECT | 4334 - Oxford Humanities      |
| JCJ NO. | 4334-GA-13-0001               |
| DRG NO. | UOONHB-JCJ-CH-B1-DR-OT-130001 |

|         |  |
|---------|--|
| TITLE   | Concert Hall<br>Mixer Position Guardrails<br>General Arrangement |
| PURPOSE | A5 - Accepted as Suitable for Record                             |



Plan on Barriers  
Scale 1:20



Plan on Sockets - Below Flooring  
Scale 1:20

REVISIONS

| REV. | BY | DESCRIPTION | DATE       |
|------|----|-------------|------------|
| P01  | SH | FIRST ISSUE | 24/07/2024 |
| C01  | SH | REVISED     | 02/09/2024 |
| C02  | SH | For Record  | 28/04/2025 |

Notes:

To be read in conjunction with;  
UOONHB-JCJ-CH-B1-DR-OT-130002

Equipments set out in room as per ;  
UOONHB-CBL-CH-B1-DR-OT-000302  
UOONHB-HAL-CH-ZZ-DR-A-005760\_Ver2  
UOONHB-JAJ-CH-B1-DR-O-000570

Mild Steel RHS Frames Coated PPC RAL 7044

Position of Sockets to be marked and verified by surveying team.

HSE general guidance for lifting does not state minimum weight for lifting safely.

All panels may be lifted by using slot beneath top timber covered rail, or for taller (side) panels.

All panels require 2 person lift and to be carried out as per instruction manual requiring the operator to be standing upright and lifting from knuckle to elbow height

This operation passes through the HSE guidance zones of 25 to 15kg male, 16 to 10kg female.  
Maximum panel weight (timber panel removed) = 26.5kg (13.25kg per person)

Status:

A -  B -  C -

All dimensions in mm unless otherwise stated. Do not scale.

DRAWN: SH DATE: 28/04/2025

CHECKED: JC DATE: 28/04/2025

APPROVED: OS DATE: 28/04/2025

SCALE: ON SHEET PAPER SIZE: A1



PROJECT 4334 - Oxford Humanities

JCJ NO. 4334-GA-13-0002

DRG NO. UOONHB-JCJ-CH-B1-DR-OT-130002

TITLE Concert Hall Mixer Position Guardrails Details

PURPOSE A5 - Accepted as Suitable for Record

REV C02

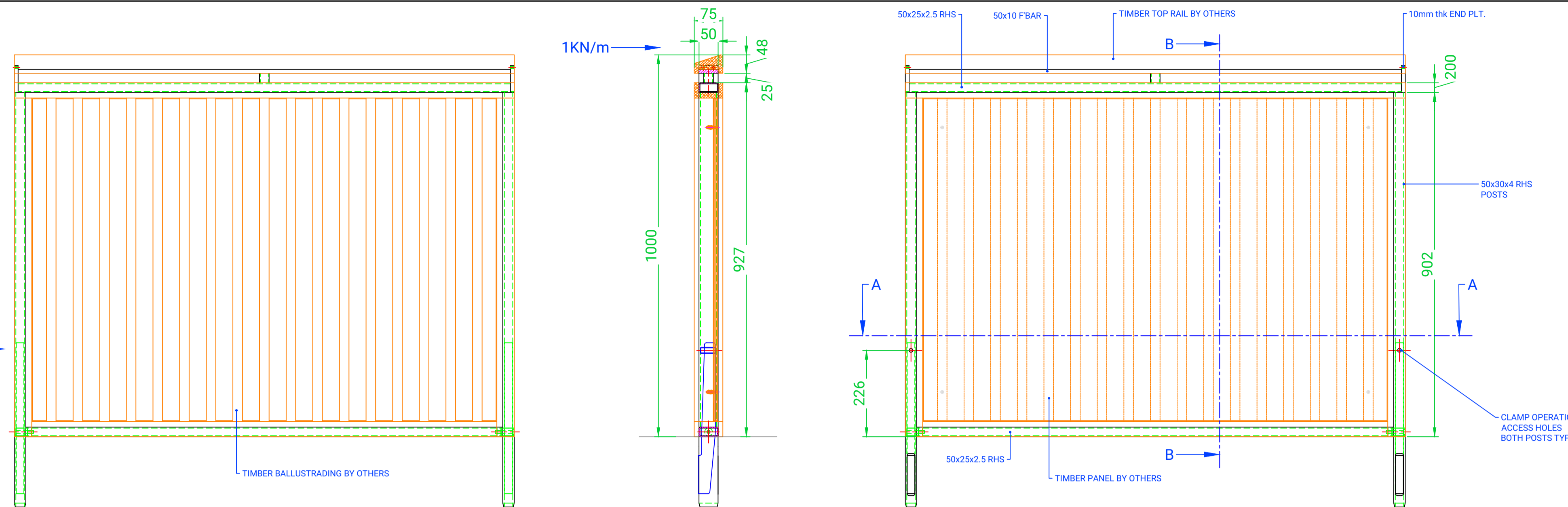
BARRIER PANELS P1 TO P4 INCL. DETAIL

1:8  
4 of M1 at 792mm Long  
2 of M2 at 1280mm Long  
1 of M3 at 1320mm Long

BARRIER WEIGHT:  
[LARGEST BARRIER = M3]  
FRAME 26.5Kg  
FIXED TIMBER 17 Kg

**TOTAL 43.5kg**

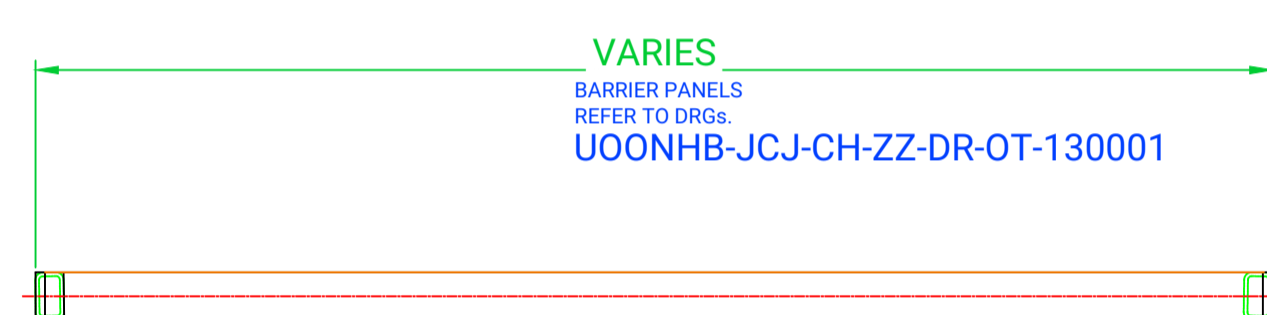
SEE MARKING DETAIL



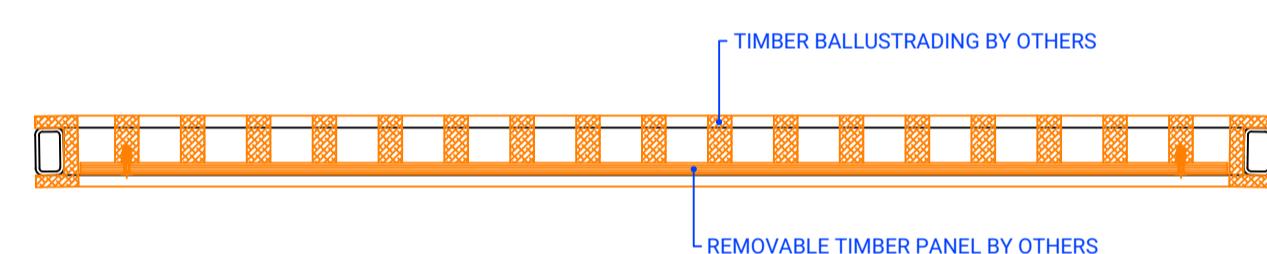
AUDITORIUM FACE

SECTION B-B

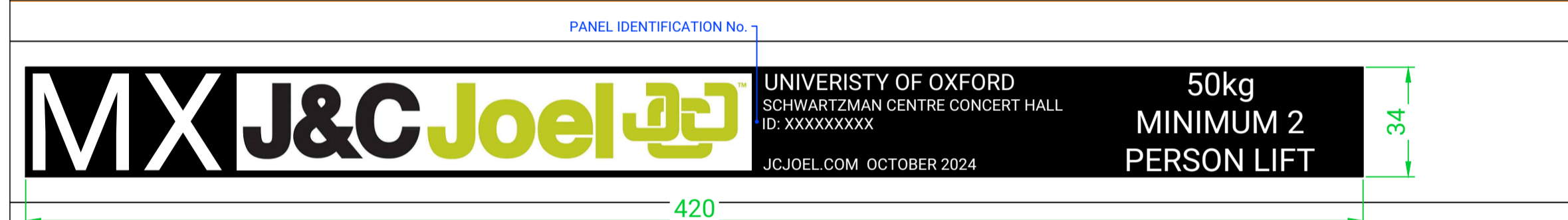
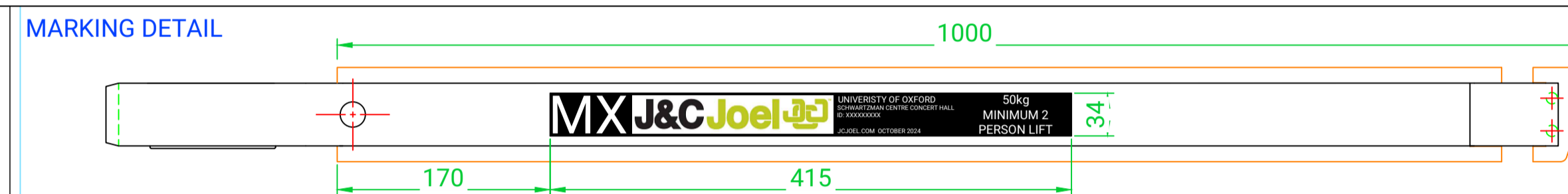
MIXER FACE



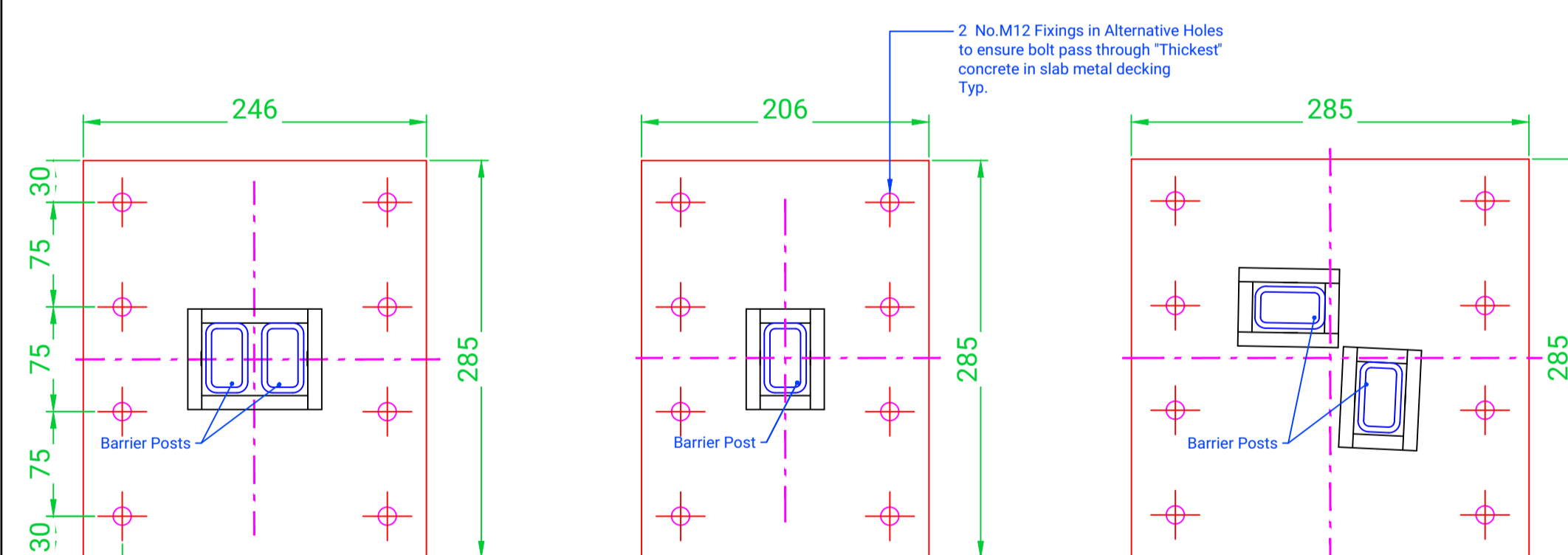
PLAN



SECTION A-A



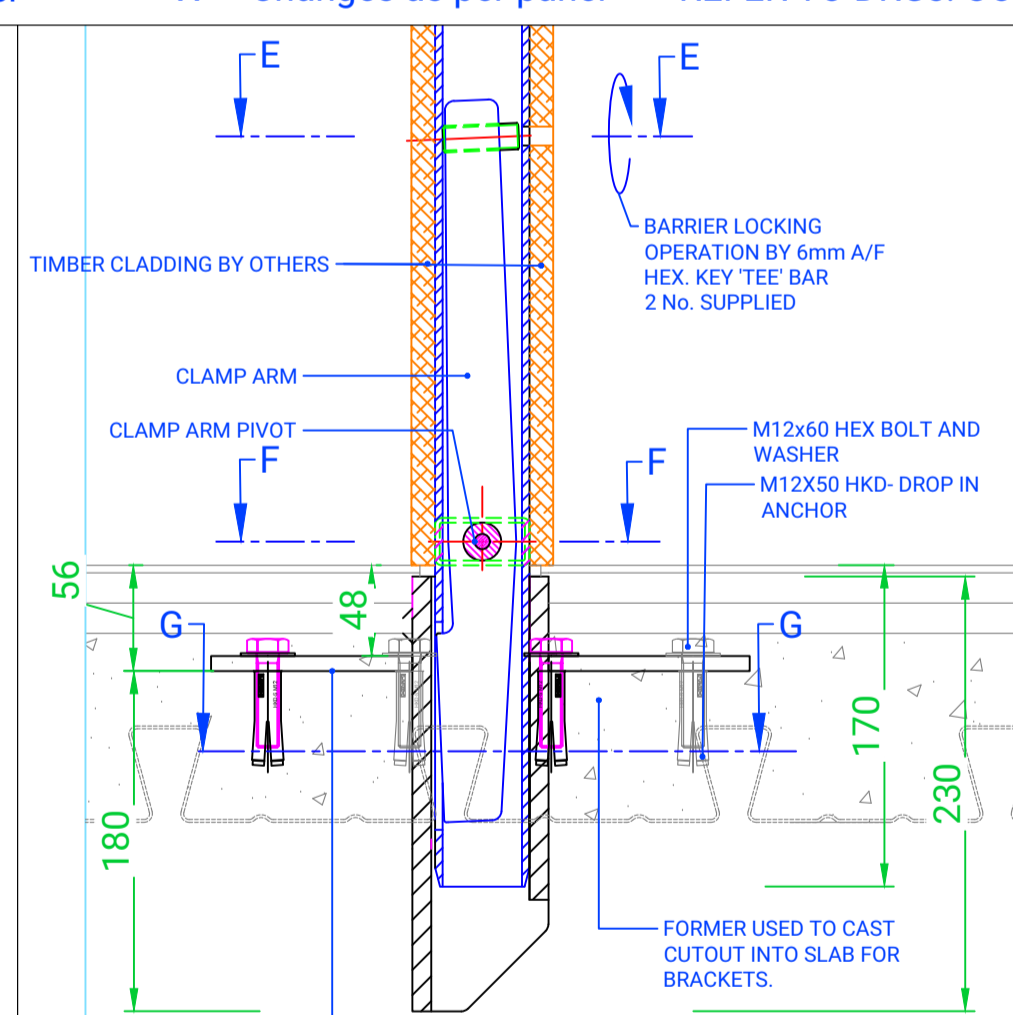
"M" - for Mixer "X" - Changes as per panel REFER TO DRGs. UOONHB-JCJ-CH-ZZ-DR-OT-130001 For Values



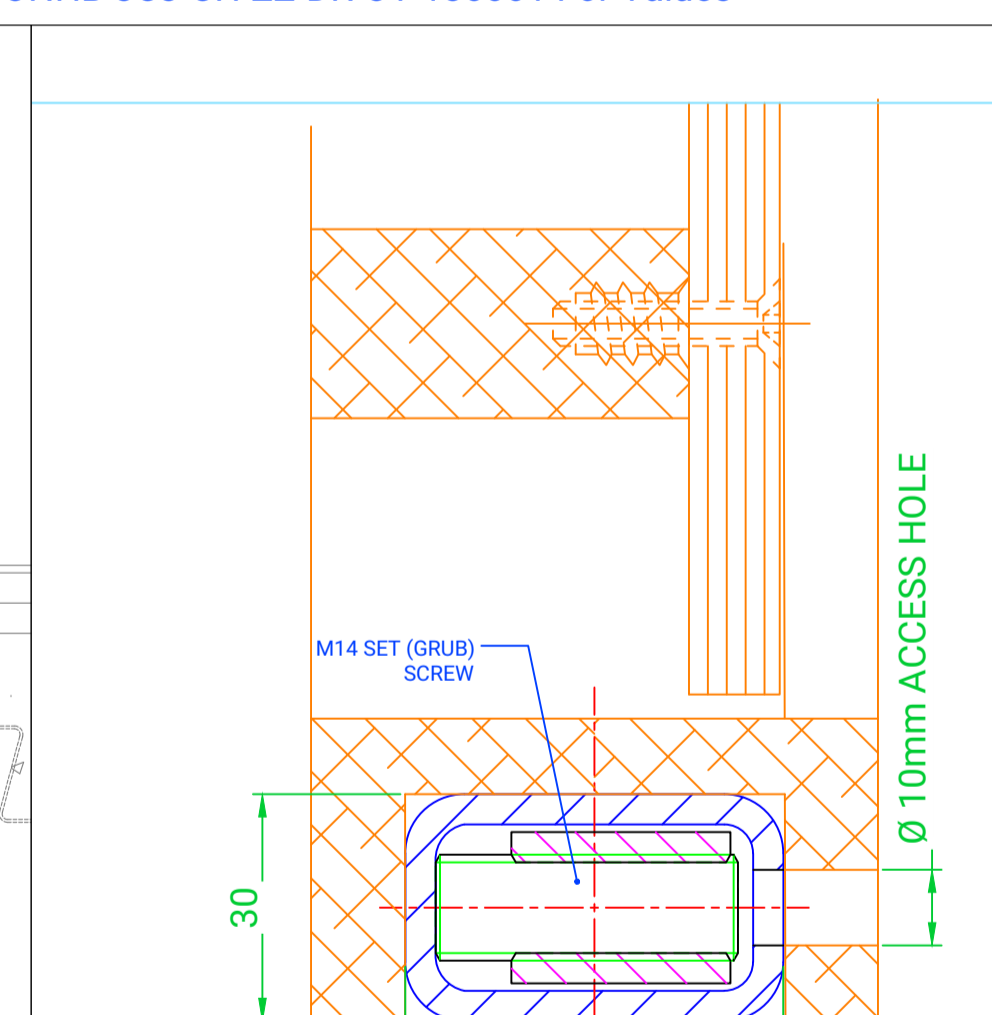
DOUBLE SOCKET PLAN

SINGLE SOCKET PLAN

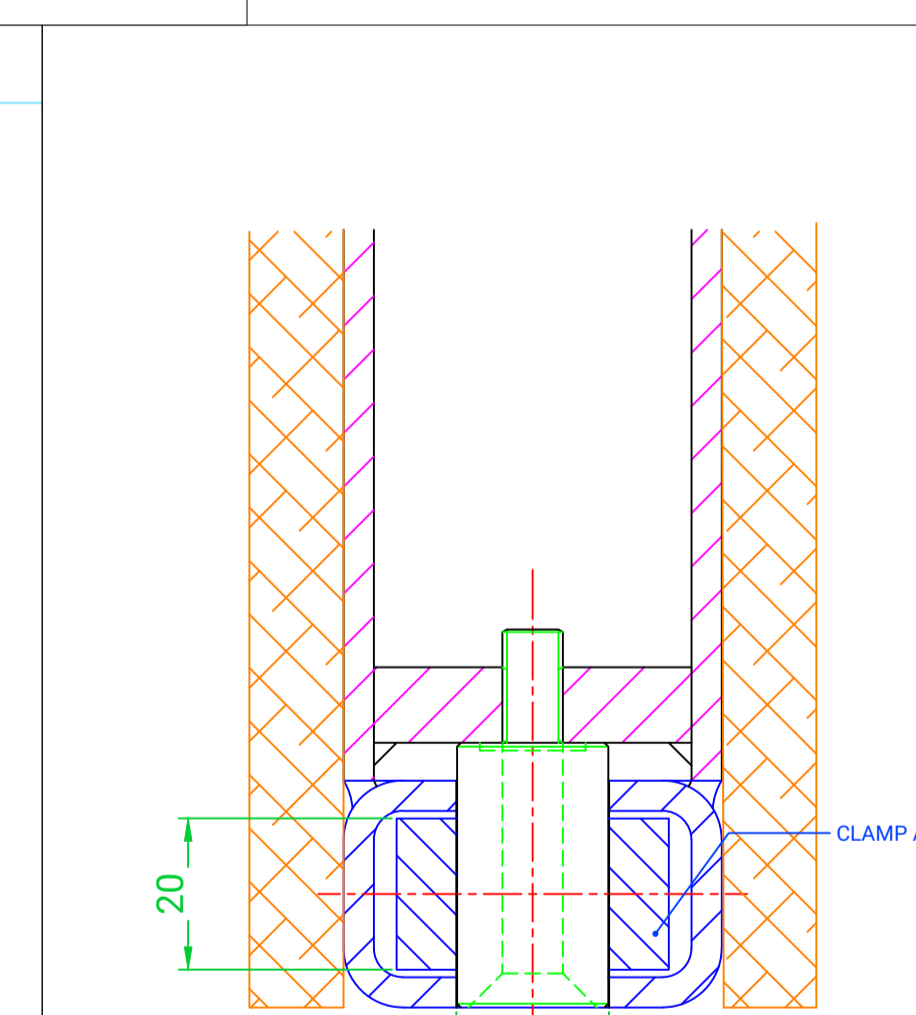
DOUBLE(CORNER) SOCKET PLAN



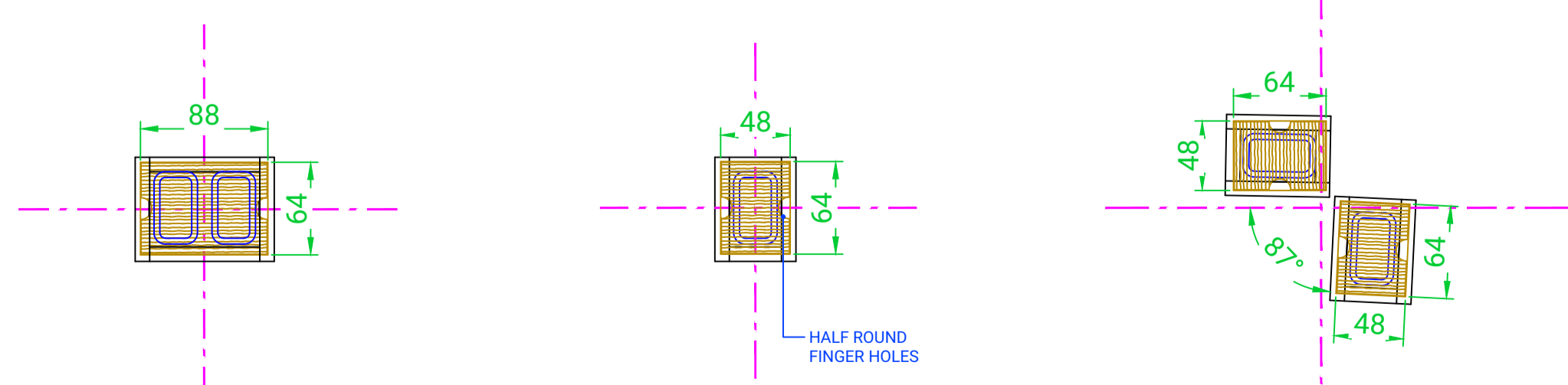
BARRIER LOCKING DETAIL



SECTION E-E



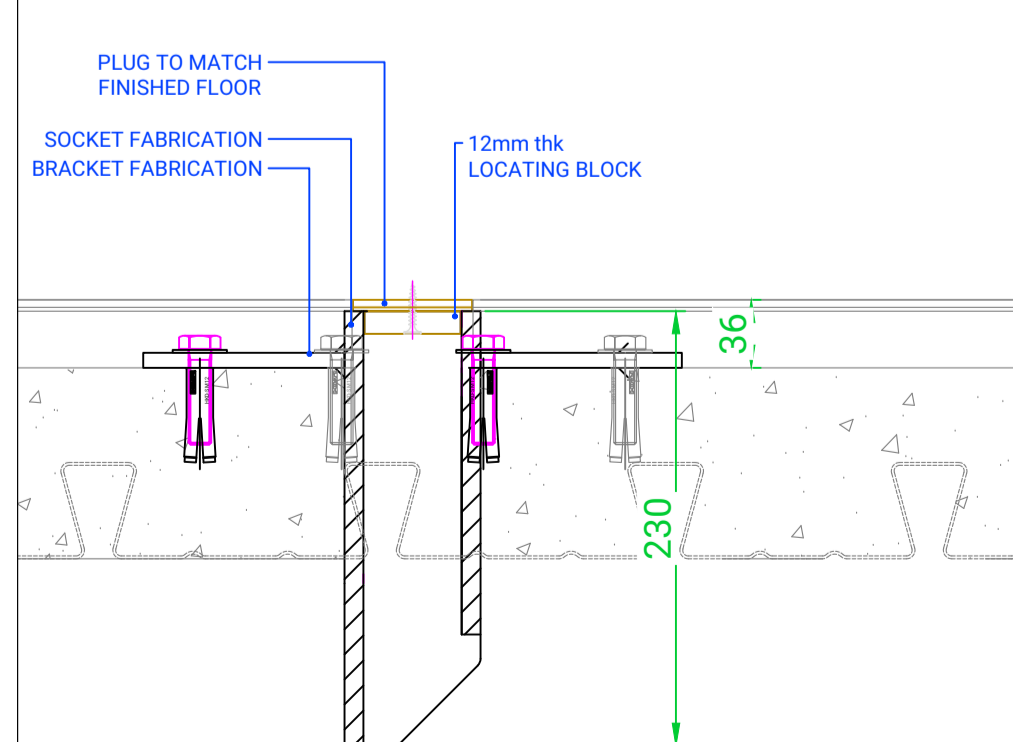
SECTION F-F



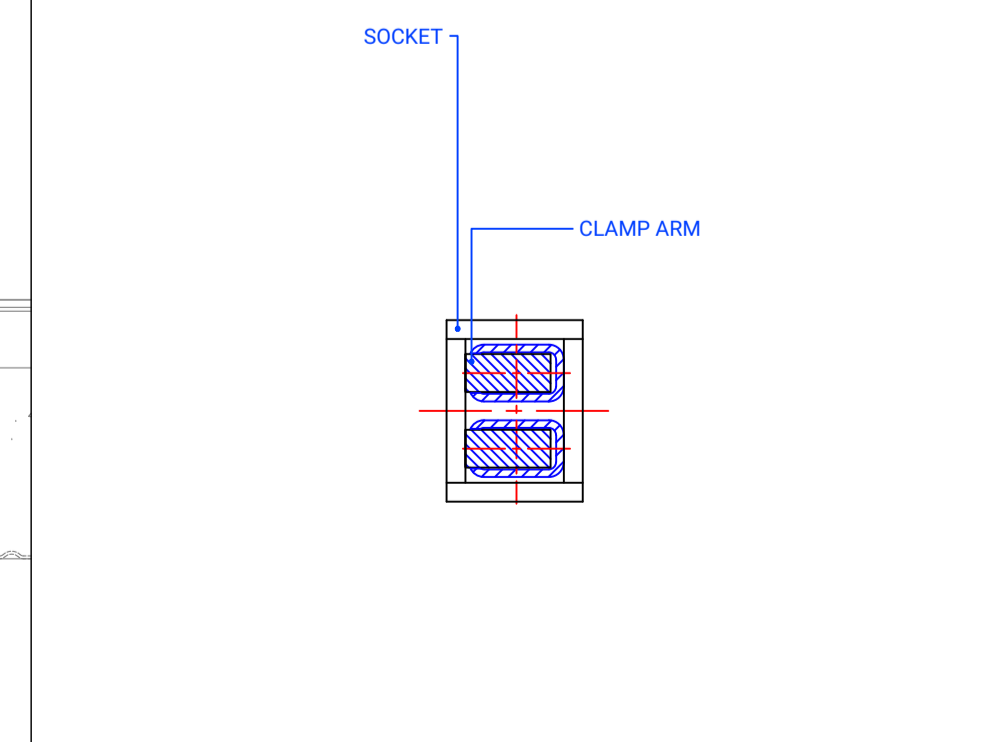
DOUBLE SOCKET COVER

SINGLE SOCKET COVER

DOUBLE(CORNER) SOCKET COVER



TYPICAL SOCKET COVER DETAIL  
FLOOR PLUGS BY FINISHED FLOOR CONTRACTOR



SECTION G-G