

LOCOMOTIVE WORKSHOP

HERITAGE INTERPRETATION PLAN
STAGE 2
FOR SSD 8517 AND 8449

April 2019

SISSONS / BUCHAN / CURIO



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| Project Name | Locomotive Workshop |
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| Project Number | 16002 |
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| Document Title | Heritage Interpretation Plan Stage 2 |
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| Revision | Date | Comment | Approved |
|----------|----------|------------|----------|
| 1 | 01.04.19 | Submission | CC |

SISSONS ARCHITECTS

Studio 5.01, 53 Berry Street, North Sydney, NSW 2060 Australia
Tel: +61 2 9460 8002
ABN: 31 621 375 129
www.sissonsarchitects.com

THE BUCHAN GROUP

Level 1, 7 Kelly Street, Ultimo, NSW 2007 Australia
Tel: +61 2 9566 1611
buchan.com.au

Nominated architect: Nick Sissons ARB NSW 7210

Nominated architect: Anthony Palamara ARB NSW 7274

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04.40 Amenities Carriage

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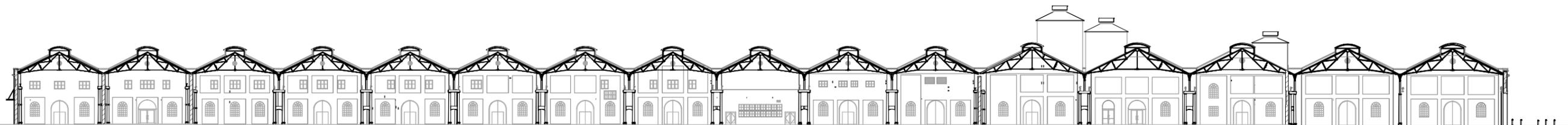
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00.00 INTRODUCTION

00.01 INTRODUCTION

The Locomotive Workshop in Eveleigh is a treasure trove of artefacts, machinery, and stories from the heyday of locomotive manufacturing. Today, we are presented with an opportunity to share these stories through the adoption of industry best practice heritage interpretation strategies and design.

The purpose of this document is to outline the intended heritage interpretation strategies for the refurbishment of the Locomotive Workshops. Working in collaboration, Sissons Architects, Buchan and heritage consultant Curio Projects have developed an extensive catalogue of exciting interpretation design which will include a combination of exhibitions, interactive displays and digital content.

The heritage interpretation design is located throughout the building, but concentrated in Bays 1 and 2, where the majority of the in-situ heritage machinery is located. The blacksmith workshop will continue to operate in this space, allowing visitors to the site to observe and learn about this age old practice.

The sections below are broken up and numbered for reference according to the bay in which they are located. Key plans outlining this heritage overlay are located in the coming pages.



00.02 OVERALL PLAN

GROUND FLOOR

The plan below shows the ground floor of the Locomotive Workshop, which includes hybrid heritage exhibition space in Bays 1 and 2, retail in Bays 3-4A, and commercial in Bays 5-15.

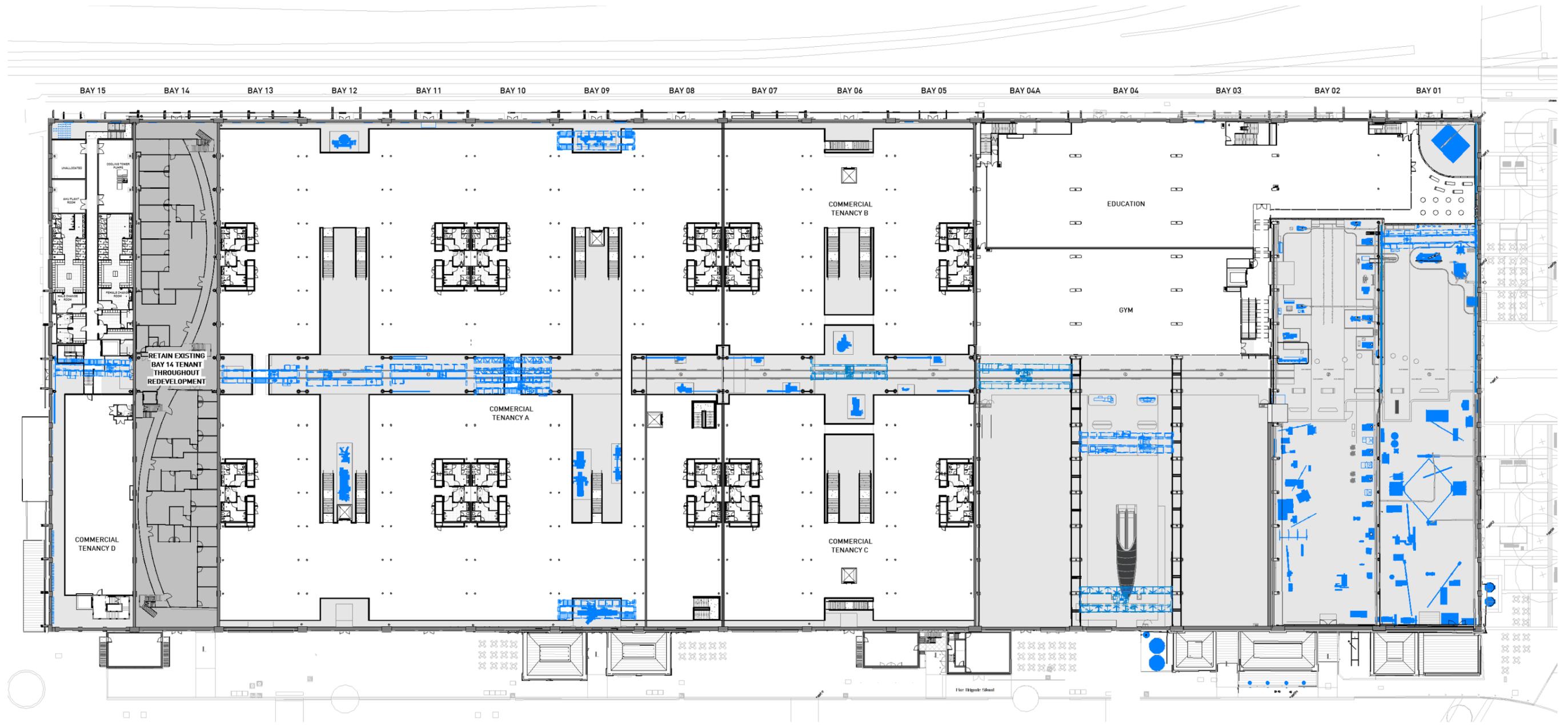


 HERITAGE MACHINERY

00.03 OVERALL PLAN

FIRST FLOOR

The plan below shows the first floor of the Locomotive Workshop, which includes education and exhibition space in Bays 1 and 2 mezzanine, retail in Bays 3-4A, and commercial in Bays 5-15.



 HERITAGE MACHINERY

00.03 KEY PLAN - HERITAGE OVERLAY

GROUND FLOOR

The plan below shows the heritage interpretation items located on the ground floor of the Locomotive Workshop. These are scattered throughout the building and several have been integrated into retail and commercial tenancies.

The heritage interpretation items are located both within the building and externally.

HIS STAGE 2 LEGEND

| No. | Item | No. | Item | No. | Item | No. | Item |
|-------|--|-------|--|-------|---|-------|--|
| 01.10 | The Quillotine Annexure | 01.50 | Davy Loading Dock Details | 03.10 | Boiler Shop Passage | 15.01 | Heritage Beam Colonnade |
| 01.11 | Blacksmith Glances Viewing Room | 01.51 | Davy Furnace Pen | 03.11 | Building Model + Train Display Shelf | 15.02 | End of Trip Change Room Graphics |
| 01.20 | The Blacksmith Workshop | 01.60 | Davy Mezzanine Exhibit Details | 03.20 | Boiler Shop Arches | 15.03 | Bay 15 Atrium Graphics |
| 01.21 | The Blacksmith Public Engagement Portal | 01.61 | Curiosity Cases | 04.10 | The Foundry Tunnel | 16.01 | Machinery Display |
| 01.30 | The Loco Exhibit | 01.62 | Davy Crane and Ladder | 04.11 | Foundry Tunnel Display Case | 16.02 | Central Spine Track Reveals & Bay Numbering |
| 01.31 | The Blacksmith Ribbon - Timeline Wall | 01.63 | Seating | 04.12 | Foundry Tunnel Digital Experience | 16.04 | Illumination Strategy of Artefacts & Machinery |
| 01.32 | Digital Screens | 01.64 | Interpretive Projection | 04.13 | Foundry Tunnel Bay 4 Detail | 17.01 | External Ground Inlays |
| 01.33 | Brace Seating | 02.10 | Bay 2 Hybrid Retail & Exhibition Zone | 04.20 | Spring Shop Lounge | 17.03 | Pumphouse Projection |
| 01.34 | Sutho's Shed - Role Play Audio Experience | 02.11 | Steam Hammer Projections | 04.21 | Spring Shop Lounge, Heritage Floating Display | 17.04 | Red Square Plant Annex |
| 01.35 | Foreign Orders | 02.12 | Quenching Tanks Display | 04.22 | Crane + Beam Seating | 17.05 | Time Card Plant Annexes |
| 01.36 | Equalising Beam Display | 02.13 | The Workshop Display Wall - Gabion Arch | 04.23 | Spring Shop Feature Lighting | 17.06 | Boiler House |
| 01.40 | Bay 1 Hybrid Retail & Exhibition Zone | 02.14 | The Workshop Display Wall - Interactive, Dies & Moulds Exhibit | 04.30 | The Fabrication Collection | 17.07 | Lighting of External Heritage Features |
| 01.41 | Davy Press Projections | 02.15 | The Workshop Display Wall - Tool Rack | 04.40 | Amenities Carriage | 17.08 | The Workers Wall |
| 01.42 | The Workshop Display Wall - Davy Billet Balance Tool Display | 02.16 | Blacksmith Workstations Display | 04.41 | The Tinamith's Wall | 17.09 | The Workers United |
| 01.43 | The Workshop Display Wall - The Davy Tool Box | 02.17 | Floor Track - Inlay Quote | 04.42 | Windows of The Past | | |
| 01.44 | Davy Press Floor Reveal | 02.30 | Davy Mezzanine Interpretive Walkway | 04.43 | Brick Wall Loco Projections | | |



00.03 KEY PLAN - HERITAGE OVERLAY

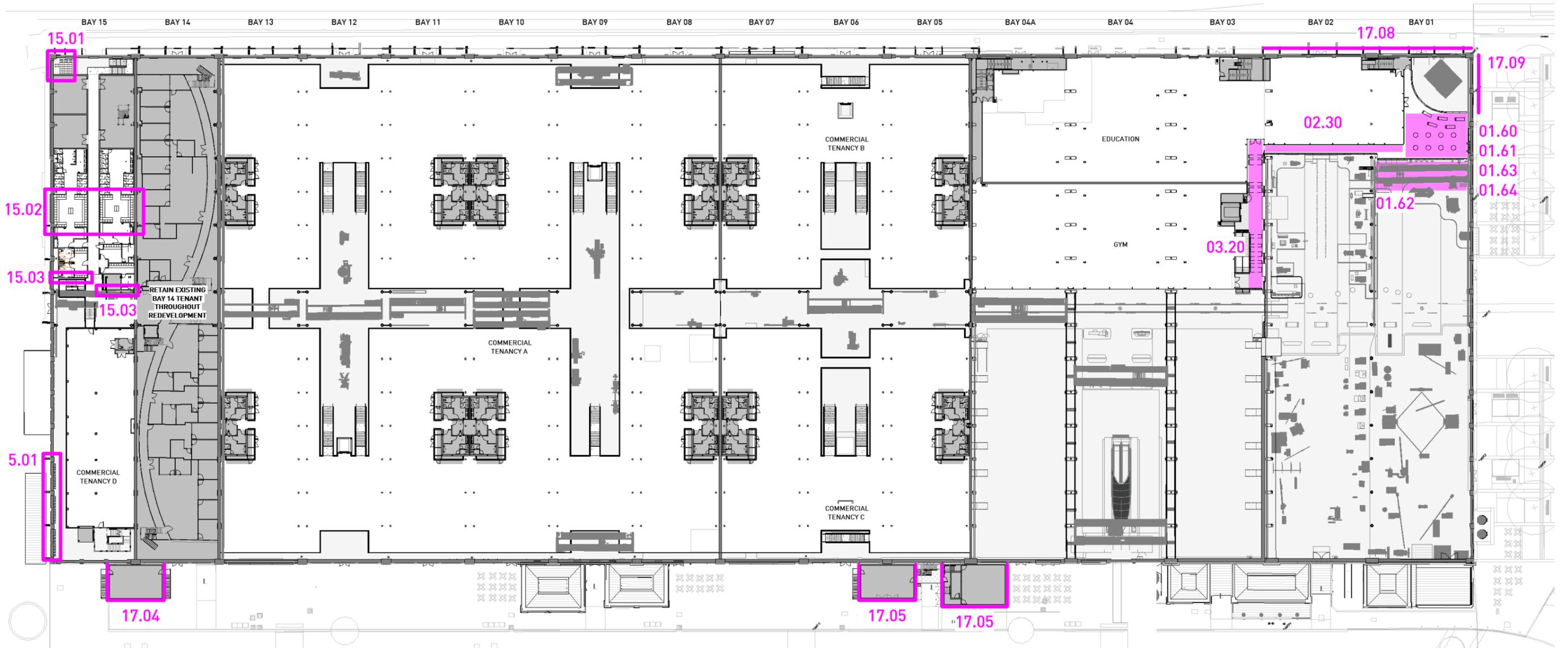
FIRST FLOOR

The plan below shows the heritage interpretation items located on the first floor of the Locomotive Workshop.

The heritage interpretation items are located both within the building and externally.

HIS STAGE 2 LEGEND

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| 01.33 | Brace Seating | 02.10 | Bay 2 Hybrid Retail & Exhibition Zone | 04.20 | Spring Shop Lounge | 17.03 | Pumphouse Projection |
| 01.34 | Sutho's Shed - Role Play Audio Experience | 02.11 | Steam Hammer Projections | 04.21 | Spring Shop Lounge, Heritage Floating Display | 17.04 | Red Square Plant Annex |
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| 01.36 | Equalising Beam Display | 02.13 | The Workshop Display Wall - Gabion Arch | 04.23 | Spring Shop Feature Lighting | 17.06 | Boiler House |
| 01.40 | Bay 1 Hybrid Retail & Exhibition Zone | 02.14 | The Workshop Display Wall - Interactive, Dies & Moulds Exhibit | 04.30 | The Fabrication Collection | 17.07 | Lighting of External Heritage Features |
| 01.41 | Davy Press Projections | 02.15 | The Workshop Display Wall - Tool Rack | 04.40 | Amenities Carriage | 17.08 | The Workers Wall |
| 01.42 | The Workshop Display Wall - Davy Billet Balance Tool Display | 02.16 | Blacksmith Workstations Display | 04.41 | The Tinsmith's Wall | 17.09 | The Workers United |
| 01.43 | The Workshop Display Wall - The Davy Tool Box | 02.17 | Floor Track - Inlay Quote | 04.42 | Windows of The Past | | |
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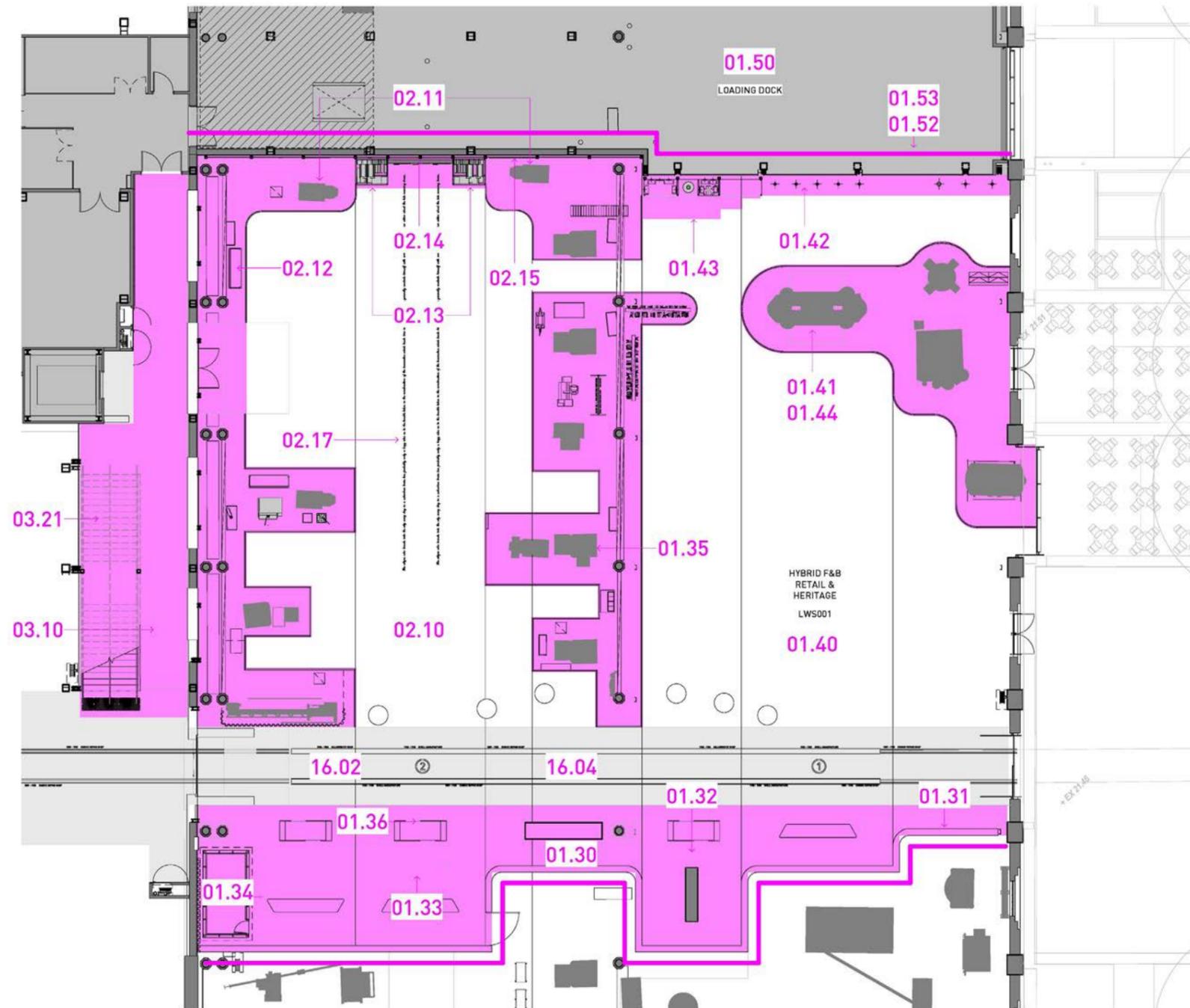


00.03 HERITAGE OVERLAY

BAYS 1 + 2 GROUND FLOOR

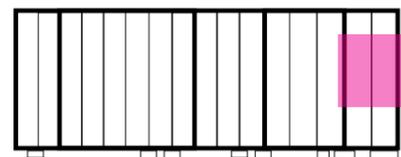
The adjacent plan shows a callout of the Hybrid Retail and Exhibition space in Bays 1 and 2, which comprises a carefully curated collection of heritage interpretation elements in one space.

The elements identified on this plan are outlined in detail in the following sections.



HIS STAGE 2 LEGEND

- | No. | Item |
|-------|--|
| 01.10 | The Guillotine Annexure |
| 01.11 | Blacksmith Glimpses Viewing Room |
| 01.20 | The Blacksmith Workshop |
| 01.21 | The Blacksmith Public Engagement Portal |
| 01.30 | The Loco Exhibit |
| 01.31 | The Blacksmith Ribbon - Timeline Wall |
| 01.32 | Digital Screens |
| 01.33 | Brace Seating |
| 01.34 | Sutho's Shed - Role Play audio Experience |
| 01.35 | Foreign Orders |
| 01.36 | Equalising Beam Display |
| 01.40 | Bay 1 Hybrid Retail & Exhibition Zone Bay |
| 01.41 | Davy Press Projections |
| 01.42 | The Workshop Display Wall - Davy Billet Balance Tool Display |
| 01.43 | The Workshop Display Wall - The Davy Tool Box |
| 01.44 | Davy Press Floor Reveal |
| | |
| No. | Item |
| 01.50 | Davy Loading Dock Details |
| 01.51 | Davy Furnace Pen |
| 01.60 | Davy Mezzanine Exhibition Zone |
| 01.61 | Curiosity Cases |
| 01.62 | Davy Crane and Ladder |
| 01.63 | Seating |
| 01.64 | Interpretive Projection |
| 02.10 | Hybrid Retail & Exhibition Zone Bay - 2 |
| 02.11 | Steam Hammer Projections |
| 02.12 | Quenching Tanks Display |
| 02.13 | The Workshop Display Wall - Gabion Arch |
| 02.14 | The Workshop Display Wall - Interactive, Dies & Moulds Arch |
| 02.15 | The Workshop Display Wall - Tool Rack |
| 02.16 | Blacksmith Workstations Display |
| 02.17 | Floor Track - Inlay Quote |
| 02.30 | Davy Mezzanine Interpretive Walkway |
| | |
| No. | Item |
| 03.10 | Boiler Shop Passage |
| 03.11 | Building Model + Train Display Shelf |
| 03.20 | Boiler Shop Arches |
| 04.10 | The Foundry Tunnel |
| 04.11 | Foundry Tunnel Display Case |
| 04.12 | Foundry Tunnel Digital Experience |
| 04.13 | Foundry Tunnel Bay 4 Detail |
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| 04.40 | Amenities Carriage |
| 04.41 | The Tinsmith's Wall |
| 04.42 | Windows of The Past |
| 02.30 | Brick Wall Loco Projections |
| | |
| No. | Item |
| 15.01 | Heritage Beam Colonnade |
| 15.02 | End of Trip Change Room Graphics |
| 15.03 | Bay 15 Atrium Graphics |
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| 17.03 | Pumphouse Projection |
| 17.04 | Red Square Plant Annex |
| 17.05 | Time Card Plant Annexes |
| 17.06 | Boiler House |
| 17.07 | Lighting of External Heritage Features |
| 17.08 | The Workers Wall |
| 17.09 | The Workers United |



KEY PLAN



00.04 SITE WIDE STORIES

THEME MAPPING

The adjacent site map has been prepared by Curio to outline the heritage themes and stories which are to be explored throughout the wider South Eveleigh site.

The stories have been colour coded to tie in with the overarching themes in the key below. The themes pertain to the stories that shaped the site as it is today, from Aboriginal connections to industrial and social heritage.

The stories which will be interpreted within the Locomotive Workshop are outlined in the following pages.



SITE WIDE STORIES - THEMES

- | | | |
|--|---|--|
| ● INDUSTRIAL REVOLUTION | ● BEFORE THE TRAINS | ● CREATING A NEIGHBOURHOOD |
| ● UNIONISM + THE WORKERS | ● ABORIGINAL CONNECTIONS | ● EVELEIGH AT WAR |

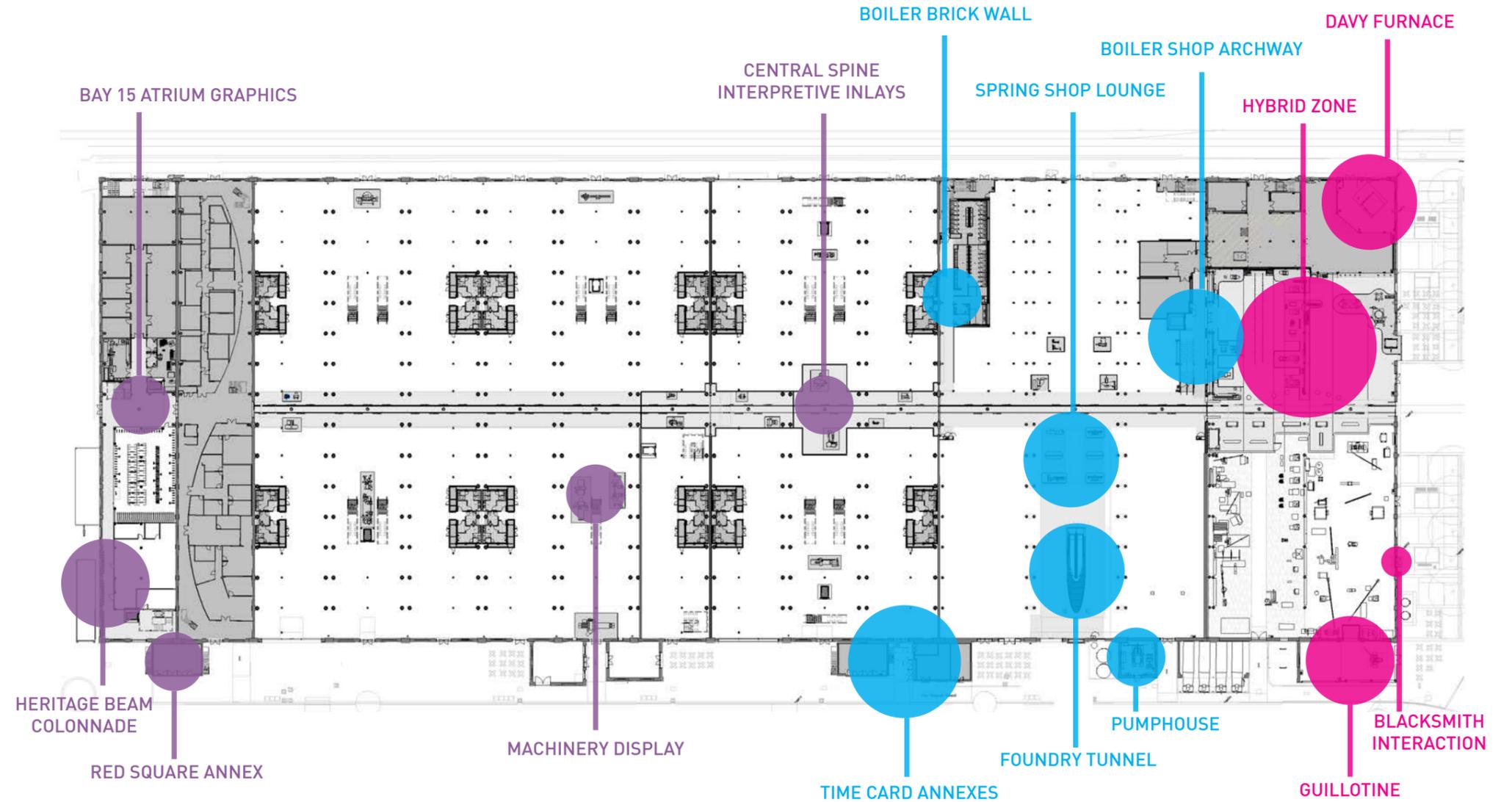
00.05 LOCO HERITAGE INTERPRETATION ITEMS

GROUND FLOOR

Heritage interpretation design is spread throughout the floor plate of the Locomotive Workshop and items are located both inside and out. Interpretive items are generally located in high traffic public areas, where they can be easily accessed and enjoyed by visitors to the site.

The stories highlighted on this plan will be explained in detail in the body of this document.

A more detailed plan extract of Bays 1 and 2 is provided on the following pages.



HERITAGE INTERPRETATION ITEMS KEY

● BAYS 1 + 2

● BAYS 3-4A

● BAYS 5-15

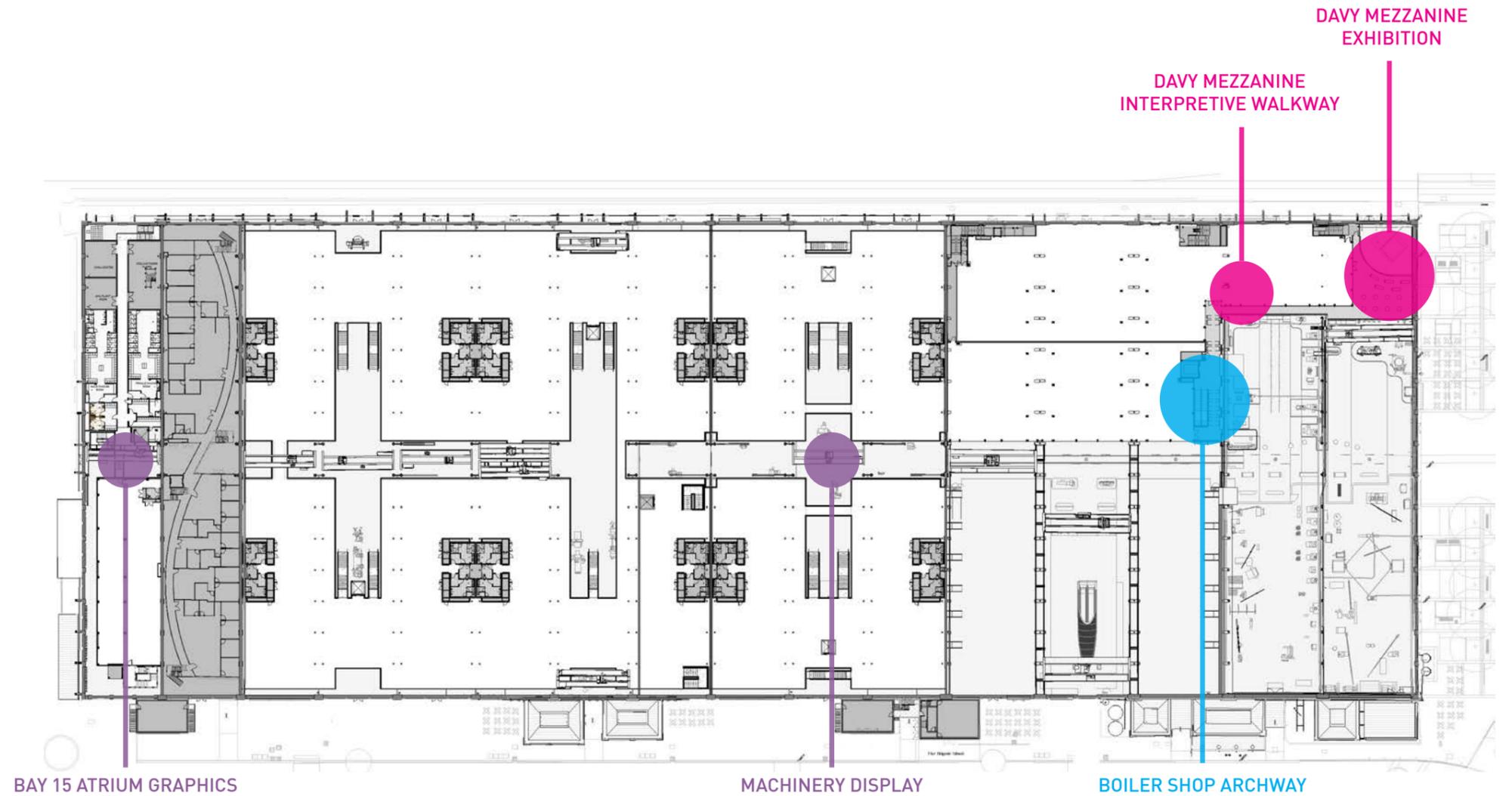
00.05 LOCO HERITAGE INTERPRETATION ITEMS

FIRST FLOOR

Heritage interpretation design items on the first floor are intended to celebrate the vast volumes of the building, utilising mezzanines, atria and double height spaces.

The stories highlighted on this plan will be explained in detail in the body of this document.

A more detailed plan extract of Bays 1 and 2 is provided on the following pages.



HERITAGE INTERPRETATION ITEMS KEY

 BAYS 1 + 2

 BAYS 3-4A

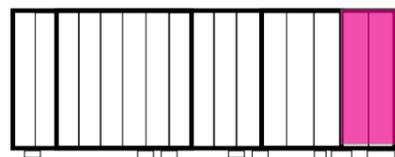
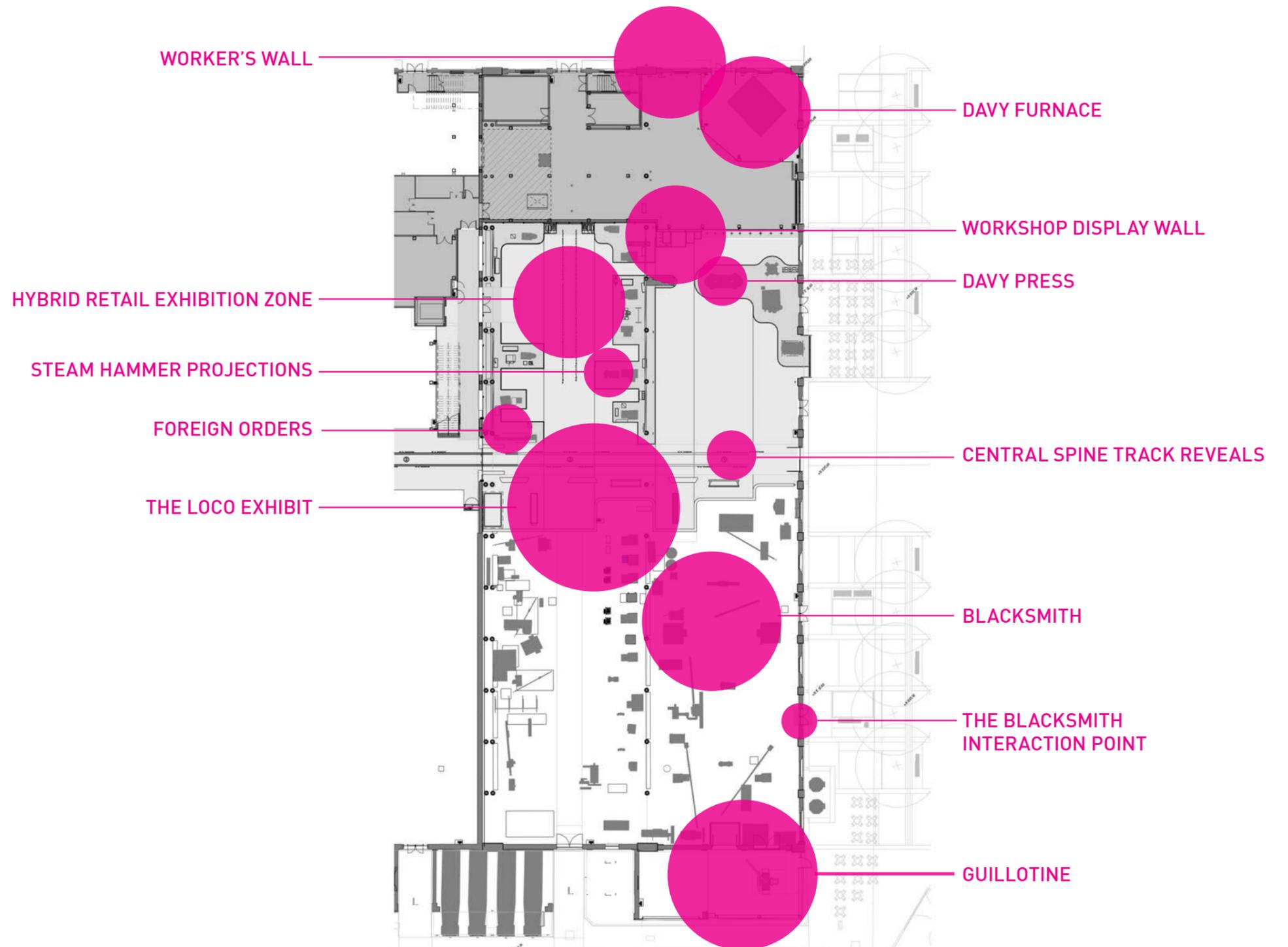
 BAYS 5-15

00.05 LOCO HERITAGE INTERPRETATION ITEMS

BAYS 1 + 2 GROUND FLOOR

The stories explored in Bays 1 and 2 relate to the impressive collection of in-situ machinery which is retained in the space, and the adjacent working blacksmith workshop.

For most visitors approaching from Redfern station, Bays 1 and 2 will be their first introduction to the Locomotive Workshop. This space is proposed to be an impactful heritage space where large pieces of machinery and colourful characters from the Workshop's past are brought to life.



KEY PLAN

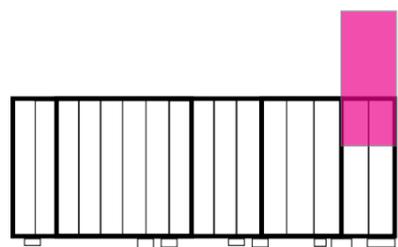
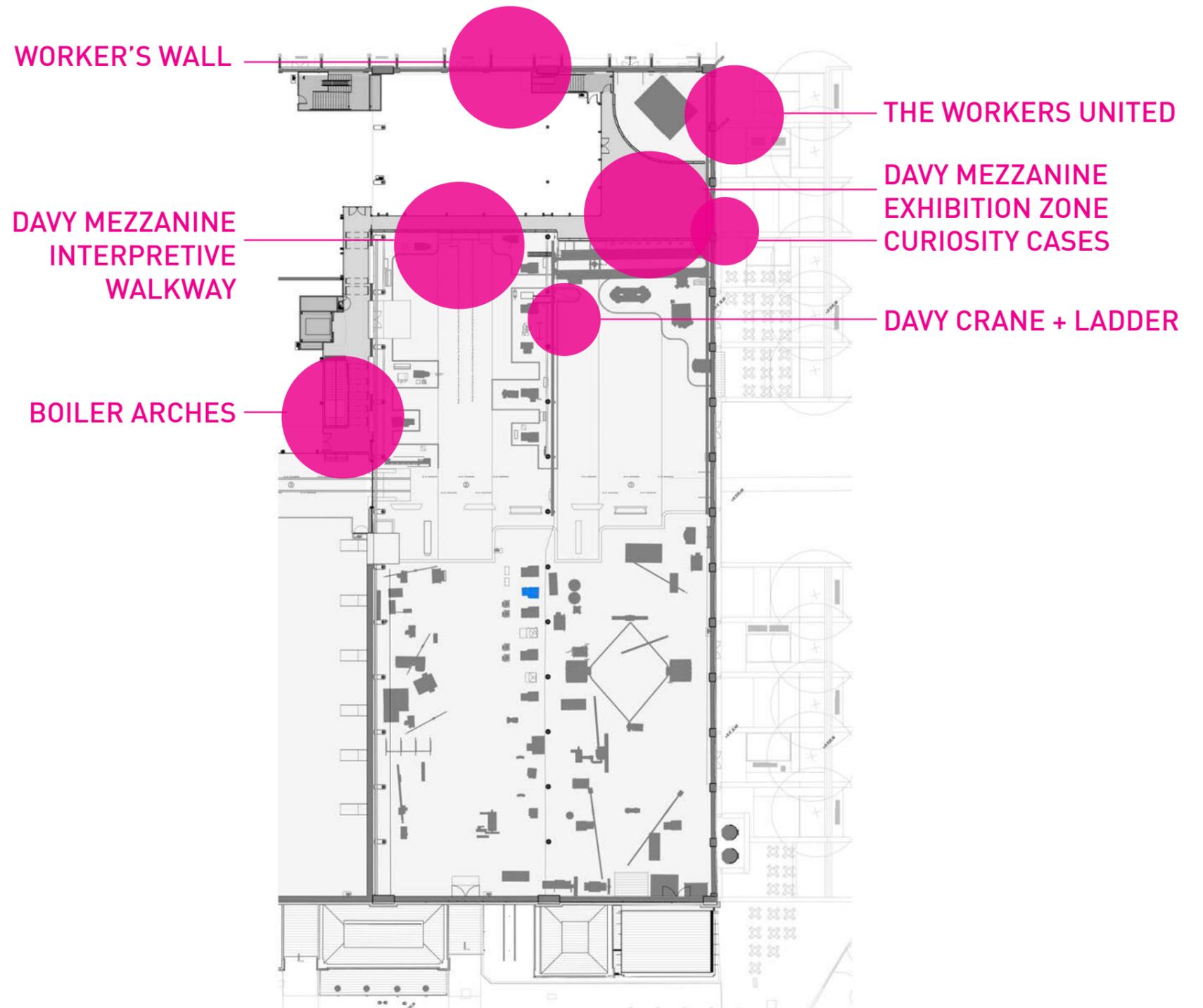


00.05 LOCO HERITAGE INTERPRETATION ITEMS

BAYS 1 + 2 MEZZANINE

The stories and interpretive experiences on the Davy mezzanine of Bays 1 and 2 allow visitors to appreciate the Locomotive Workshop from a different perspective, viewing the heritage machinery and exhibits in the Hybrid Retail and Exhibition Zone from above.

The mezzanine interpretation include a combination of interactive, digital and physical exhibits.

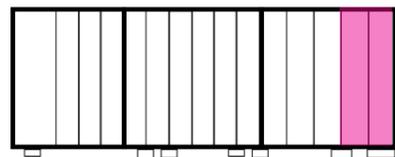
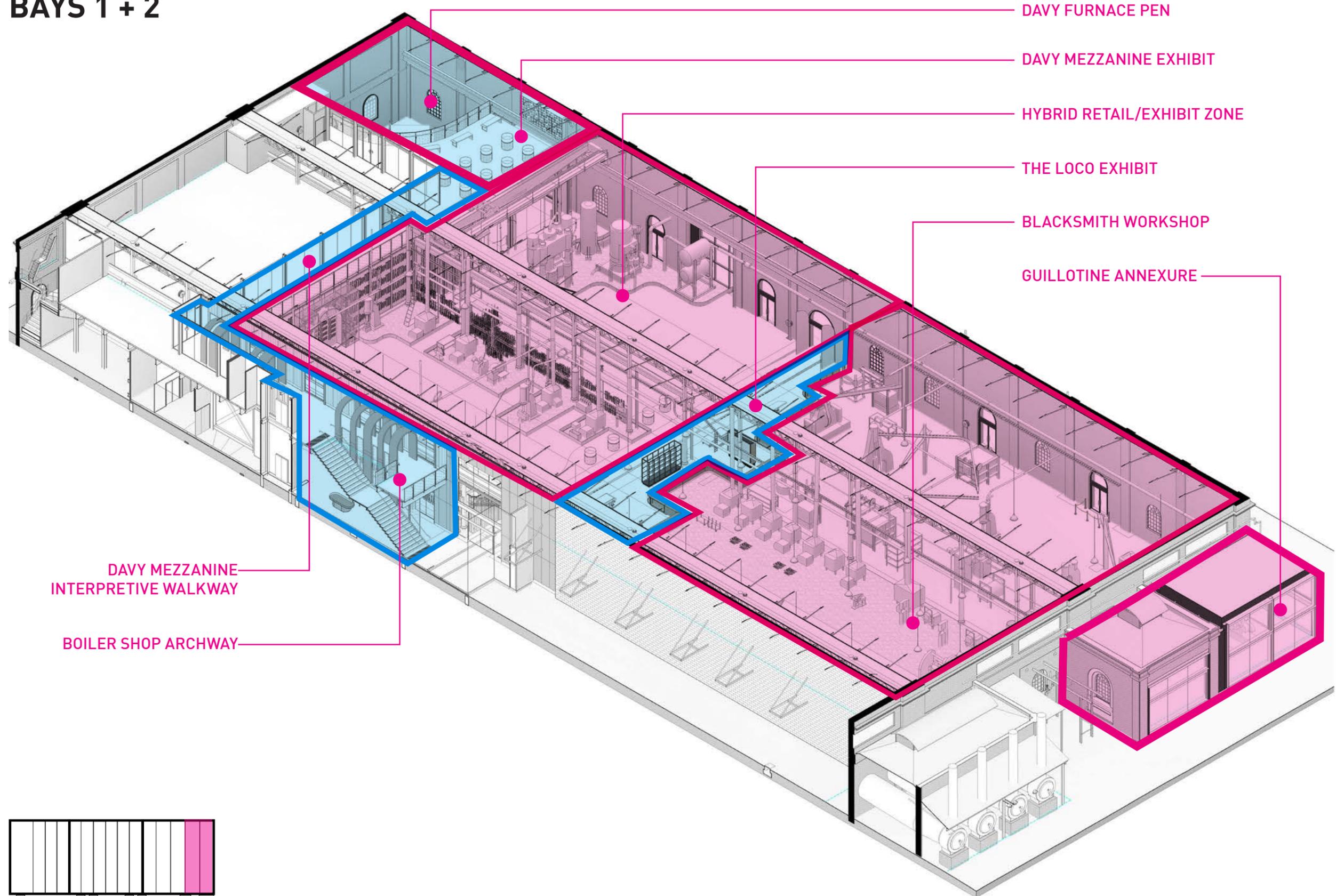


KEY PLAN



00.05 HERITAGE OVERLAY

BAYS 1 + 2



KEY PLAN



00.05 BAY 1 SECTION A

BAYS 1 + 2

This section demonstrates the continuous link that has been maintained from the Guillotine Pavilion on Locomotive Street through the Blacksmith Workshop to the Furnace at the north of Bay 1.

Glazed walls preserve the visual connections between the Davy Press and Furnace while a new mezzanine exhibition space provides visitors with a unique, elevated vantage point from which to experience the Workshops and heritage machinery.



DAVY FURNACE: OIL FURNACE 4745 025



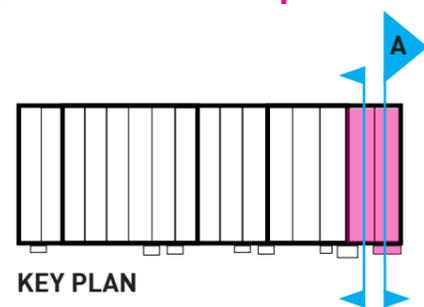
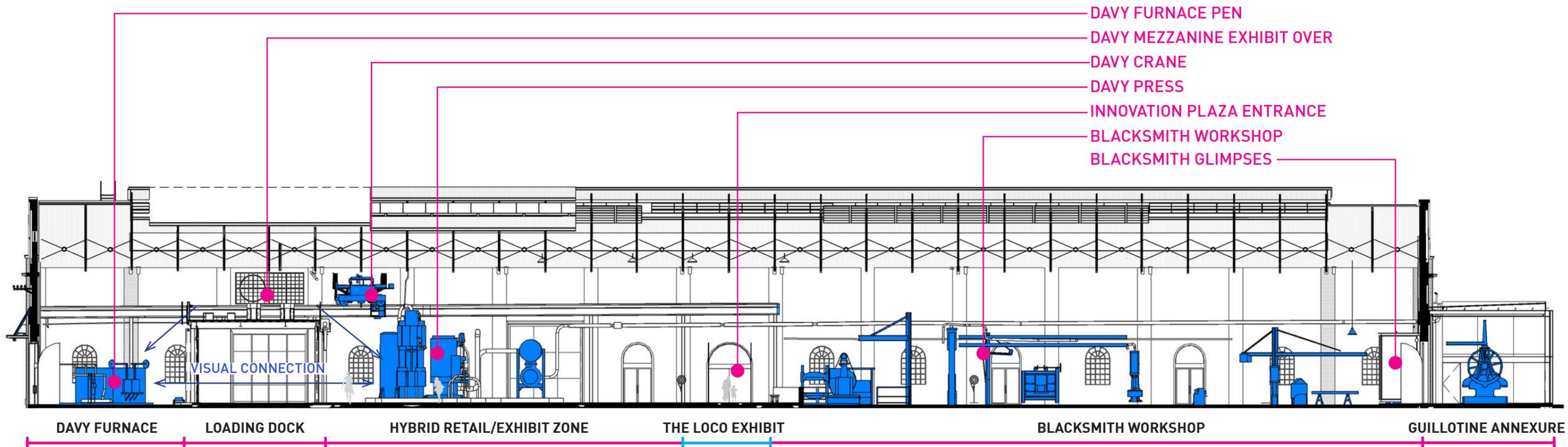
DAVY CRANE: CRAVEN OVERHEAD CRANE 4745 207



DAVY PRESS: 4745 011



GUILLOTINE : DE BURGUE ELECTRIC SHEARS 4745 206



00.05 BAY 2 SECTION B

BAYS 1 + 2

This sections illustrates the connections from Locomotive Street through to the Hybrid retail and exhibition space. New glazed openings restore visual connections into Bays 3 - 4A as a backdrop to the retained tool-racks and Steam hammer displays.

It shows the compact Loading Dock that will sit behind an engaging exhibition display wall of heritage items. Over the Loading Dock is the new public passage to the new mezzanine exhibition space in Bay 1, in front of a full height glazed tenancy.



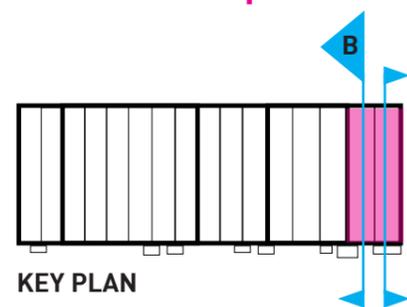
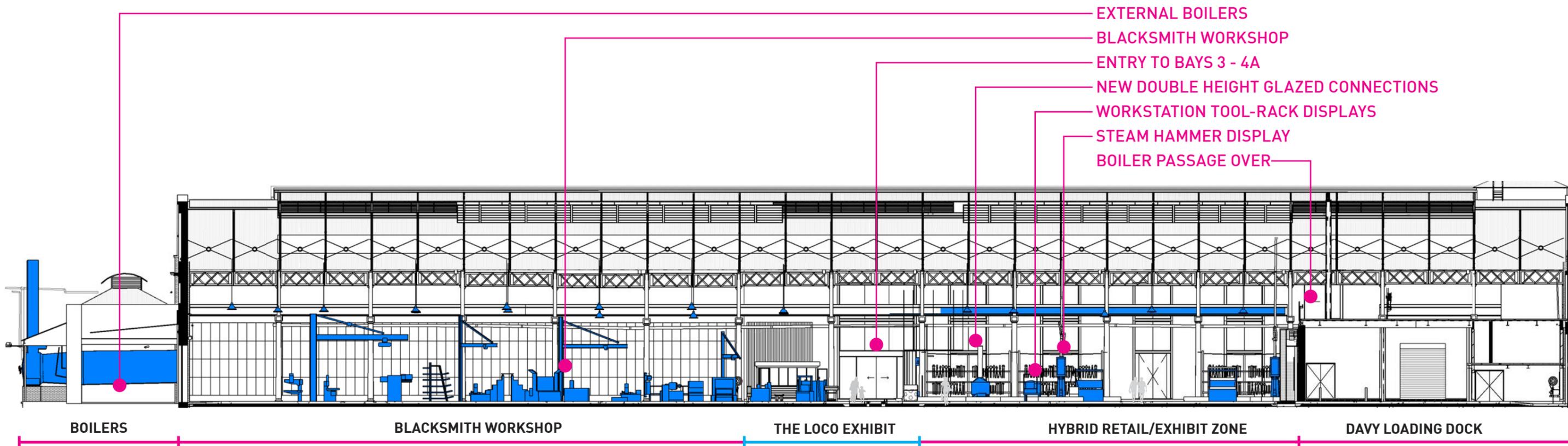
BLACKSMITH WORKSHOP



SUTHO'S OFFICE: DEMOUNTABLE TIMBER OFFICE
4745 268



EXHIBIT ZONE WORKSTATIONS



KEY PLAN



01.10 THE GUILLOTINE ANNEXURE

01.10 THE GUILLOTINE ANNEXURE

LOCATION PLAN - GROUND FLOOR



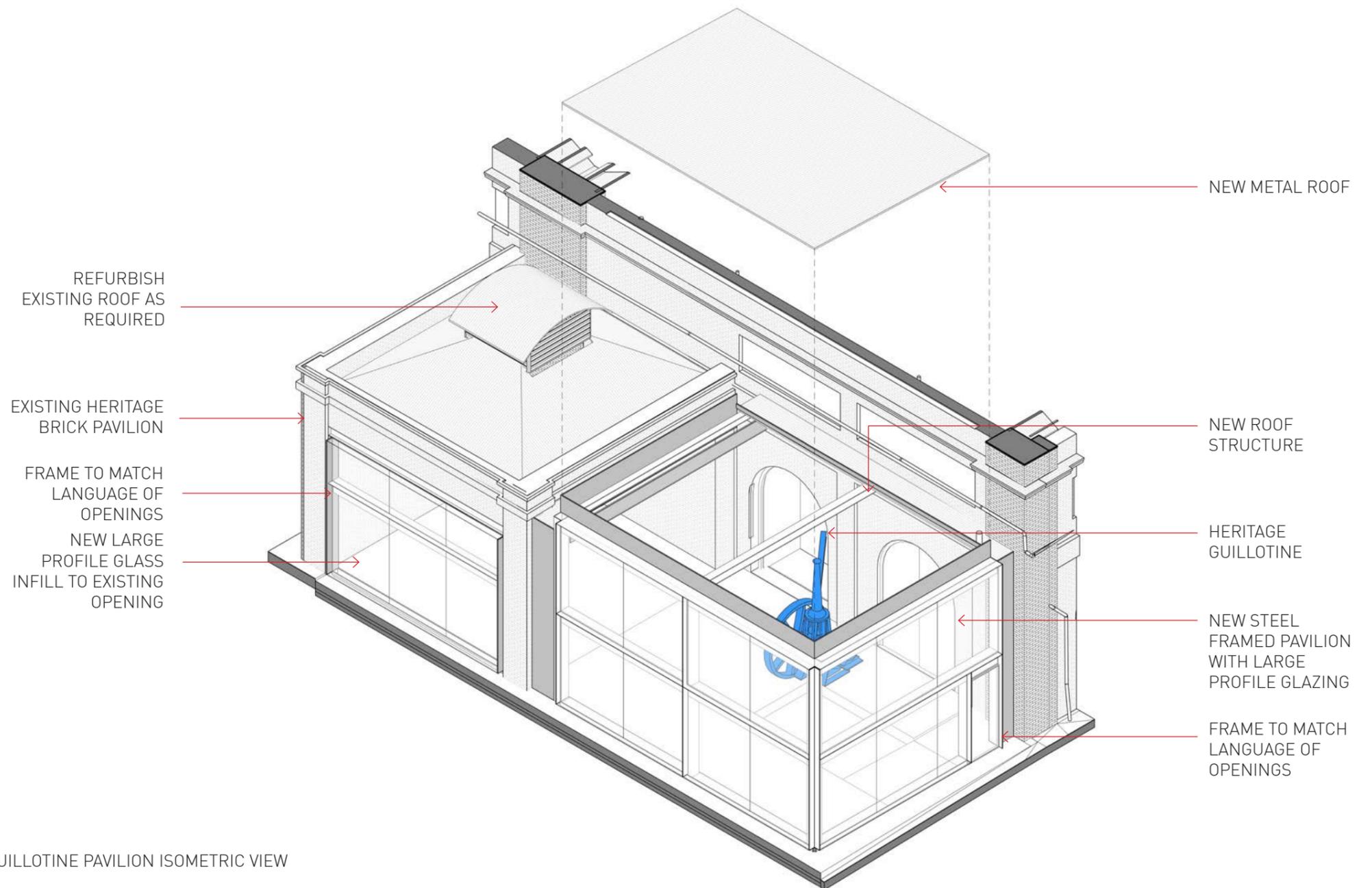
01.10 THE GUILLOTINE ANNEXURE

A NEW INSERTION

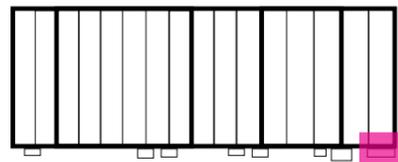
The Guillotine Pavilion will replace the existing lean-to shed which currently exists at the south eastern corner of the Locomotive Workshop. The heritage brick annex to the east of the existing Guillotine enclosure will be retained and combined with a new lightweight, finely detailed steel and glass pavilion.

This pavilion will protect and enhance the impressive piece of heritage machinery within, allowing visitors to the site early glimpses of the heritage wealth of the site. At night, the pavilion will be illuminated, acting as a beacon for the site when viewed from Gardener Street and Innovation Plaza.

A new large format glazed opening will replace the existing sheet metal cladding to the brick enclosure, while the main access to the Pavilion will be via a new access ramp on the eastern facade.



GUILLOTINE PAVILION ISOMETRIC VIEW



KEY PLAN



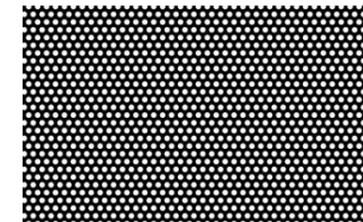
1. CLEAR GLAZED NEW OPENINGS, MINIMAL FRAMING



2. FINELY DETAILED STEEL



3. EXISTING HERITAGE BRICK



4. BLACK PERFORATED METAL



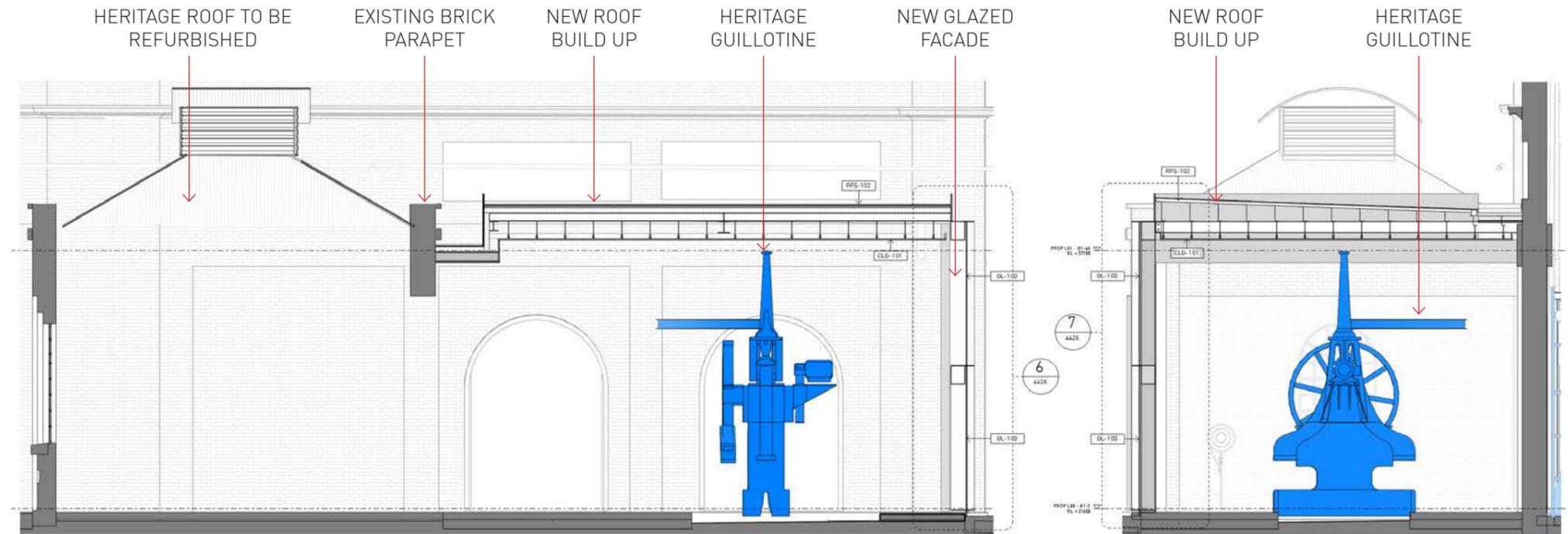
5. BLACK STEEL FRAMES TO OPENINGS



01.10 THE GUILLOTINE ANNEXURE

SECTIONS

The new Guillotine Annex is designed to be highly transparent, allowing clear site lines to the heritage Guillotine within. The steel structure will be finely detailed, taking inspiration from the projects shown below.



EAST-WEST SECTION THROUGH BRICK ANNEX AND NEW GUILLOTINE PAVILION

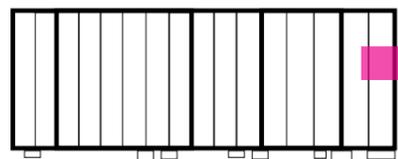
CROSS SECTION SHOWING GUILLOTINE LOCATION



SEAGRAM BUILDING, MIES VAN DER ROHE



GLASS HOUSE, PHILIP JOHNSON



KEY PLAN



1.10 GUILLOTINE ANNEXURE

INTERIOR DETAILS

The Guillotine heritage item will be a central element of this new activated corner that is opened up to both the public realm and the internal workshops.

The full height operable glazing wall will open to the street during trading hours but remain a transparent box that celebrates the heritage machinery and heritage fabric with illumination.

Internally a new concrete slab will be inserted around a set back to the Guillotine where crushed granite flooring will be filled behind the steel plate barrier. This is a consistent detail throughout the workshops.

The exposed heritage masonry walls will remain the primary backdrop to the machinery with the heritage doors fixed open.

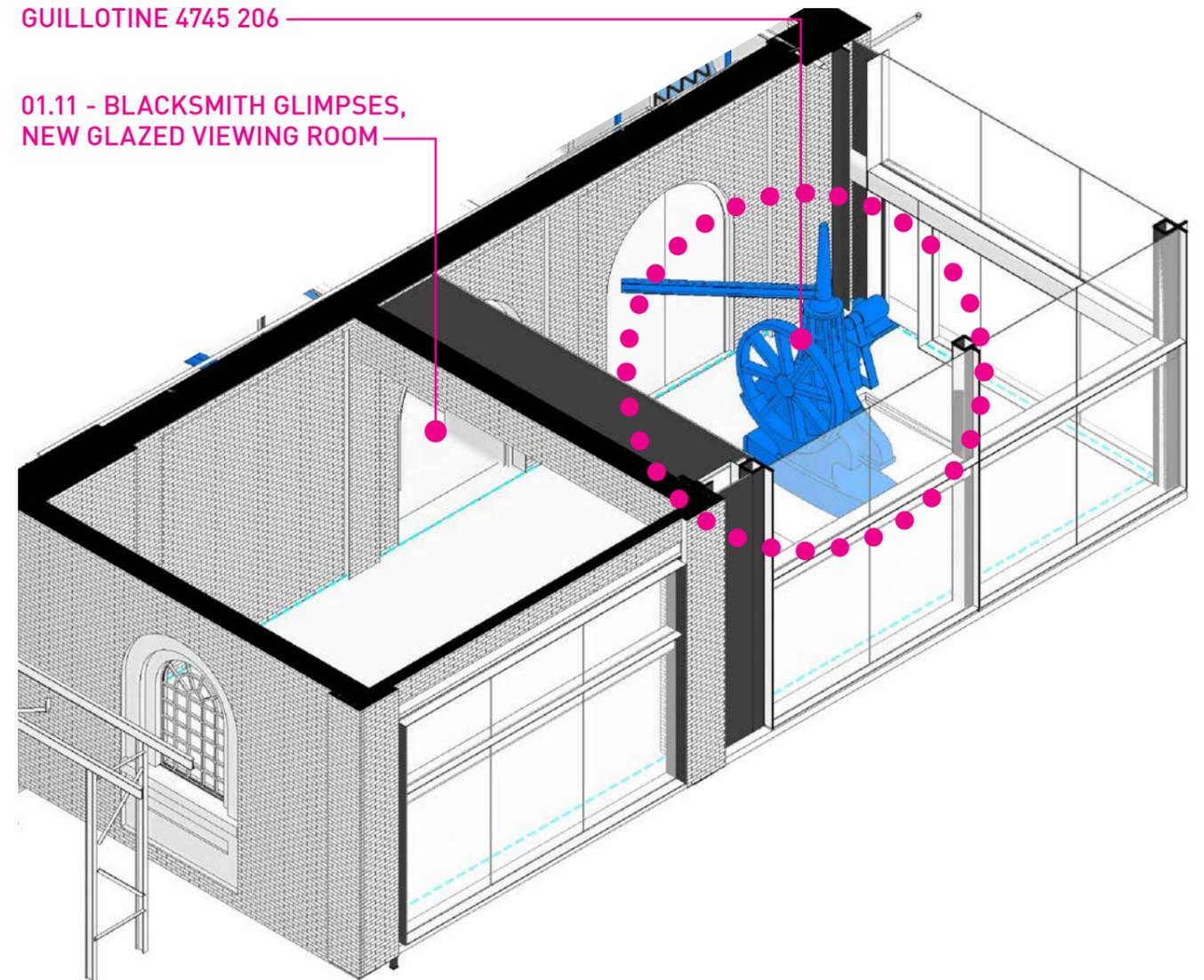
01.11 - BLACKSMITH GLIMPSES VIEWING ROOM

One doorway will be sealed with clear glazing to enhance permeability into the workshop interior and one will have a steel and glass box that pops into the workshop called 'Blacksmith Glimpses'. This creates a unique space for a dining experience that engages with the Blacksmith Workshop.

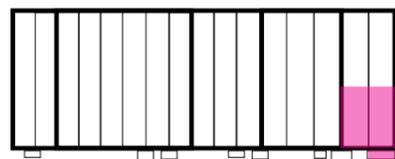
The Guillotine will be illuminated through up and down lighting, expressing the guillotine's features subtly during the day and more dramatically at night.



01.11 - BLACKSMITH GLIMPSES, GLAZED VIEWING ROOM



GUILLOTINE ANNEXURE



KEY PLAN



1. CRUSHED PINK GRANITE FLOORING UNDER GUILLOTINE



2. METAL BARRIER



3. CONCRETE FLOORING



4. EXISTING HERITAGE BRICK



5. FULL HEIGHT GLAZING

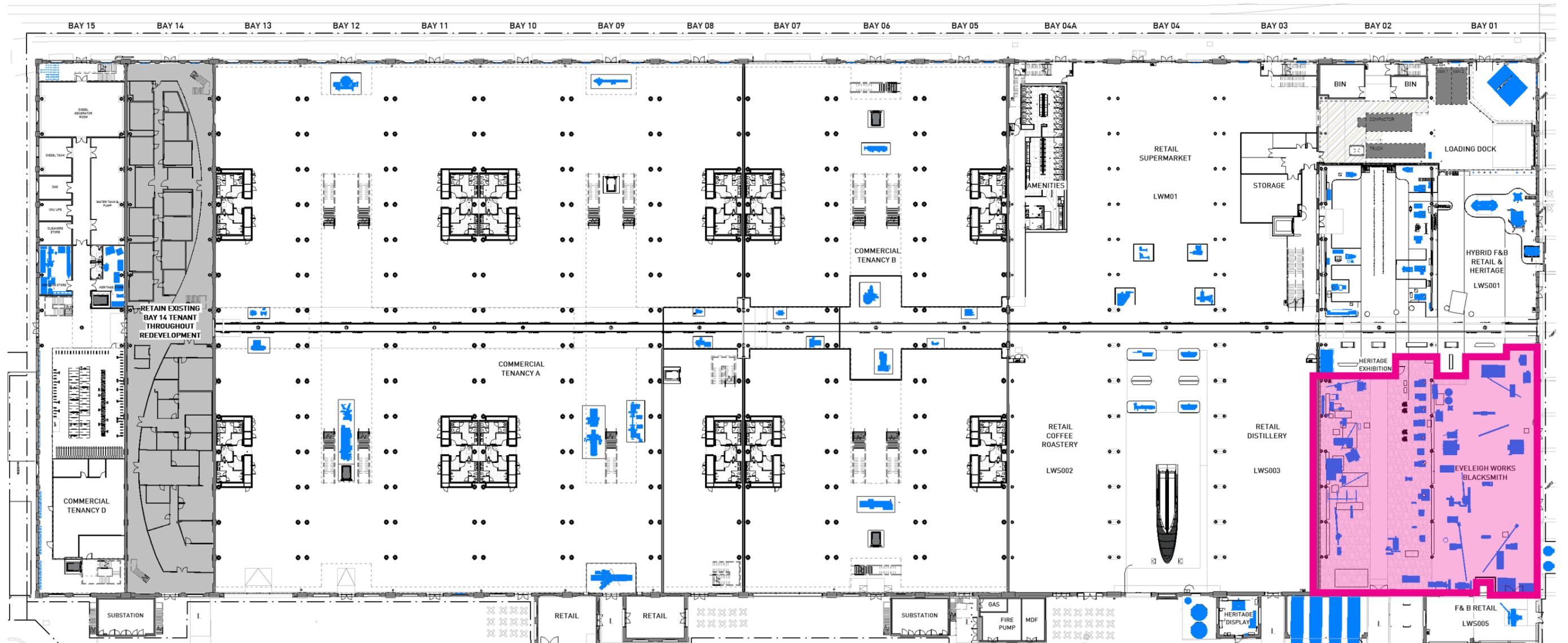
01.10 THE GUILLOTINE ANNEXURE



01.20 THE BLACKSMITH WORKSHOP

01.20 THE BLACKSMITH WORKSHOP

LOCATION PLAN - GROUND FLOOR



01.20 THE BLACKSMITH WORKSHOP

AXONOMETRIC

The Blacksmith Workshop will provide a living exhibit to the world of blacksmithing and its historic techniques.

Key to bringing the broader South Eveleigh site and the Locomotive workshops to life as a celebrated Industrial heritage destination are the Blacksmith Workshops. This is being done by retaining the heritage machinery and maintaining its use as a Blacksmith Workshop.

The Heritage brick walls and roof structure will remain exposed and highlighted with illumination. A range of permeable interventions around the workshop to increase interactions will also form part of the interpretive overlay. They include the 'Blacksmith Glimpses' glazed box at the Guillotine that strengthens the central sightline from south to north and a new 'Blacksmith Ribbon' wall that will interpret the workshops and create spaces for demonstrations and viewings.

Within Bay 2 of the Blacksmith's Workshop the removal of mismatched modern floors will be returned to dirt flooring and a new concrete path that leads from the Bay 2 entry to the Loco Exhibition Zone.

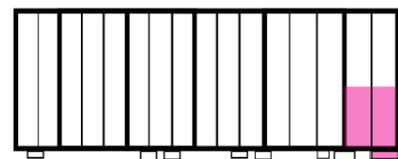
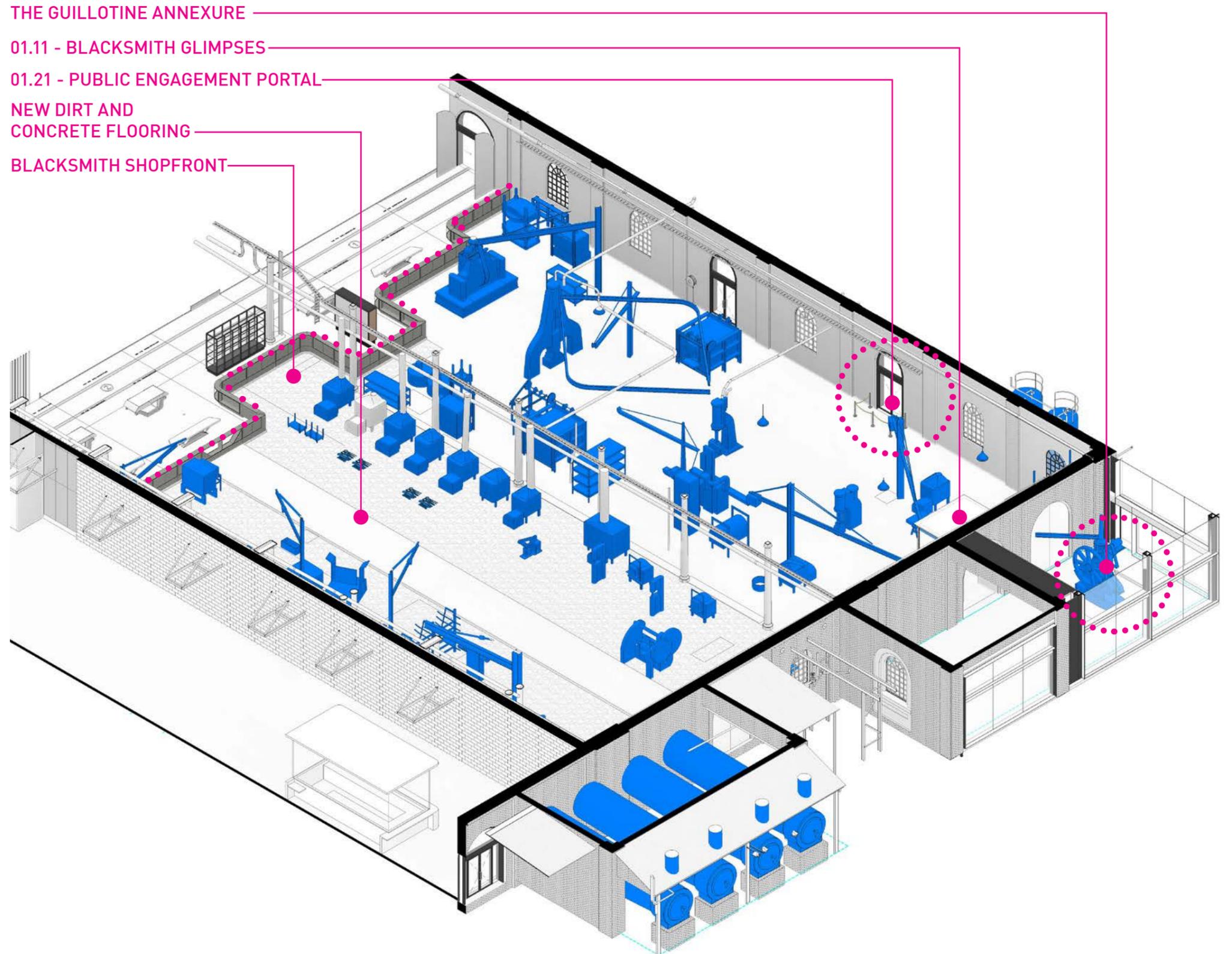
A layer of industrial grade acoustic lining will be fixed over the concrete block work wall to help minimise noise levels within the space.

Some Movable Heritage Items from the North of Bays 1 and 2 will be relocated into the Blacksmiths workshop where they will be put back to use.

01.21 - PUBLIC ENGAGEMENT PORTAL

The Public Engagement Portal on Innovation Plaza will engage with passers. It is simply defined as an opened heritage door with signage and a steel bollard and chain barrier.

There is opportunity for the Blacksmith to have additional displays or information that supports the business here.



KEY PLAN



01.20 THE BLACKSMITH WORKSHOP

BAYS 1 + 2 SOUTH

Originally used as a Blacksmith workshop in 1887, Bays 1 & 2 South is still in operation as one of the worlds biggest operating blacksmiths.

The Blacksmith Workshop provides visitors a glimpse into the blacksmith operations as a live exhibit. Visitors have the opportunity to get up close and experience the true wonders of blacksmithing and works will assist in it's ongoing endurance within inner Sydney.

The interface at the central circulation path that runs from east to west of the entire building has been designed to create an interactive shop front to the Blacksmith workshop. Creating spaces where the public can meander in and out of the workshop, where the blacksmith can demonstrate to the public. A low height wall divides the space and creates an exhibition display to the public and a functioning separation wall for the blacksmith.

In addition to the new material interventions within Bay 2 of the workshop, new plumbing and electrical wiring will replace the dated non heritage services.

Heritage pendant lighting with be restored and new lighting will be installed to exhibit the heritage workshop when not in use. New exhaust ventilation will be installed to improve the working environment.



BLACKSMITH WORKSHOPS- EVELEIGH.WORKS.COM



BLACKSMITH WORKSHOPS- EVELEIGH.WORKS.COM



CRUSHED PINK GRANITE FLOORING



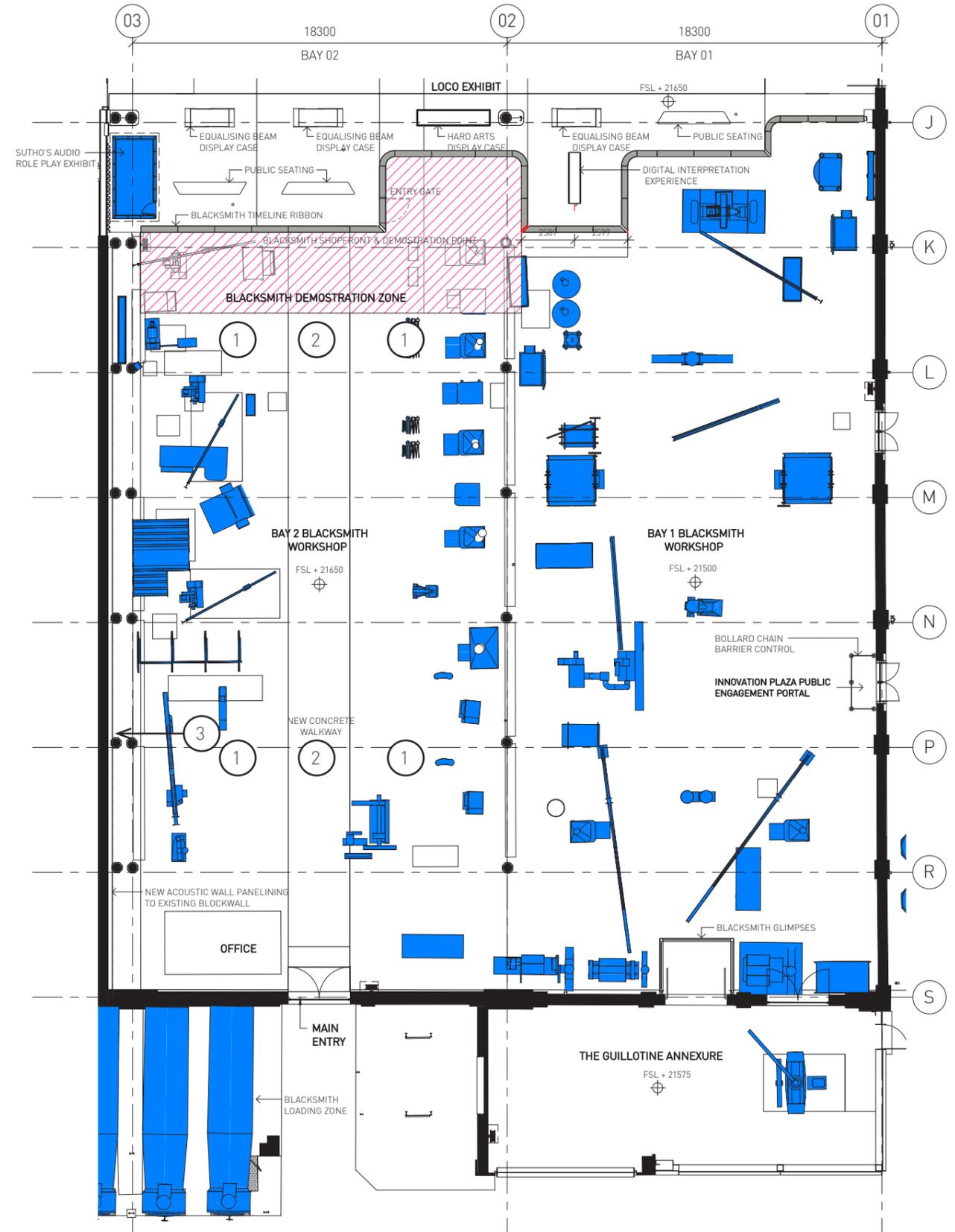
CONCRETE FLOORING



ACOUSTIC PANELING



KEY PLAN



01.30 THE LOCO EXHIBIT

01.30 LOCO EXHIBIT

LOCATION PLAN - GROUND FLOOR



01.30 THE LOCO EXHIBIT

AXONOMETRIC

The Loco Exhibit will captivate both visitors and workers visiting the Locomotive Workshops. Its location places it as the first point of entry off Innovation Plaza and immerses all that enter in to a one of a kind hybrid cultural experience. This will be a public space to meet, orient and navigate the heritage trail.

01.31 - THE BLACKSMITH RIBBON WALL

The Ribbon is a low-height continuous horizontal display case separates the Blacksmith Workshop and creating an engaging curated heritage exhibition display.

01.32 - DIGITAL INTERPRETATION SCREEN

Large digital screen for audio visual content and site navigation that is an integral part of the interpretation story told across the precinct.

01.33 - BRACE SEATING

Adaptive reuse of gantry crane beam braces into plinths for public indoor seating.

01.34 - SUTHO'S SHED AUDIO ROLE PLAY EXHIBIT

Sensorial experience inside the shed with audio role play.

01.35 - FOREIGN ORDERS

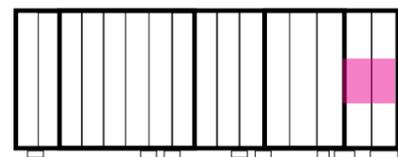
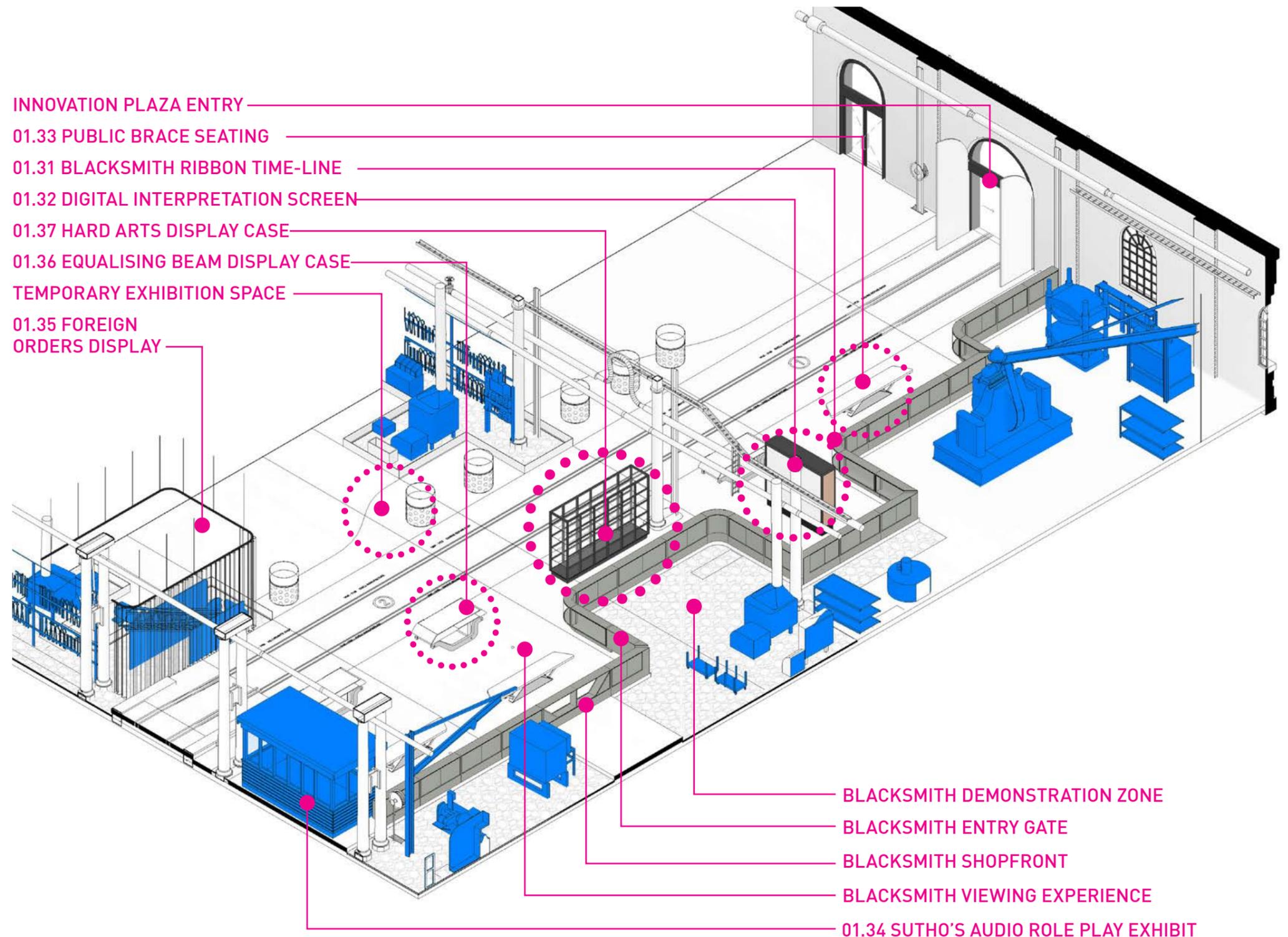
Dramatic interpretation of the secret lives of workshop workers when out of sight.

01.36 - EQUALISING BEAM DISPLAY CASE

Adaptive reuse of remaining parts made by the Davy Press. All fixings will minimise impact on the heritage fabric whilst allowing them to be put back to work supporting display cases and inform the overall aesthetic of the exhibition zone.

01.37 - HARD ARTS DISPLAY CASE

Glazed merchandise display that showcases blacksmith's products from the broader Australian blacksmithing community.



KEY PLAN



01.30 LOCO EXHIBIT

REFERENCE IMAGES

The Loco exhibit offers a dynamic and tangible space combining tactile, digital and audio experiences.

1. 01.34 SUTHO'S SHED - AUDIO ROLE PLAY

Sutho's will be relocated to the Loco exhibit in Bay 2 and will have new lighting, power and digital content carefully wired in. This will allow for audio role play interpretation within.

Where possible all fabric will be left as is but made safe and clean where necessary.

2. 16.02 - TRACK INTERPRETATION

Bays 1 & 2 feature machinery that will be enhanced with metal floor inlays. Attention has been made to align slab joints in a way that subtly guide the eye to the machine through a metal inlay.

Existing tracks will also be interpreted with inlays of linear stories.

3. 01.35 - FOREIGN ORDERS SUSPENDED DRAPERY

Backdrop for projections and story telling interpretation reference to "foreign orders".

Any fixings for the track, lighting and projection will be carefully clamped to the existing trusses over.

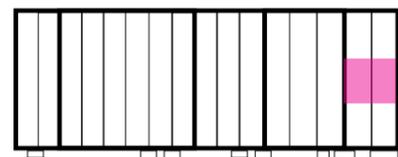
Final location is to be determined.

4. ARCHIVE PHOTOGRAPH

All about the people of the Locomotive workshops and their stories and personalities. Manifested as floor inlays, projections and plaques.

5. MACHINE SIGNAGE

Existing safety signage in this location will be enhanced with lighting and some signage will be relocated from around the workshop to the Loco Exhibition for display.



KEY PLAN

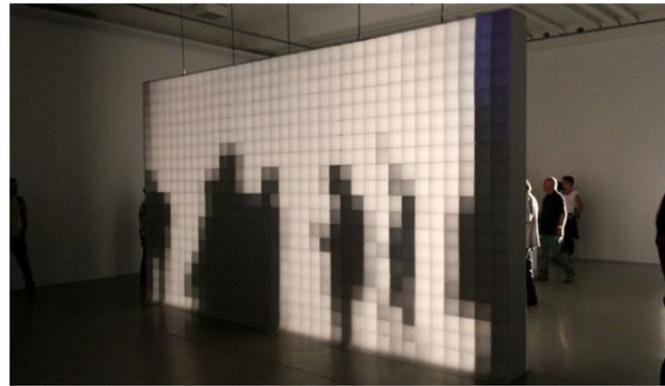


01.30 LOCO EXHIBIT

EXHIBIT DETAILS

Low height cases are introduced to preserve views to the blacksmith workshop and not crowd the entry space. Seating for blacksmith demonstrations.

Some are located in the floor and some reveal heritage objects in-situ beneath the floor.



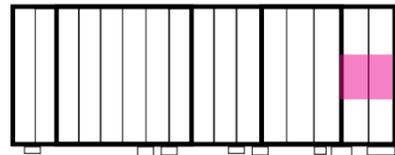
01.32 - DIGITAL INTERPRETATION EXPERIENCE



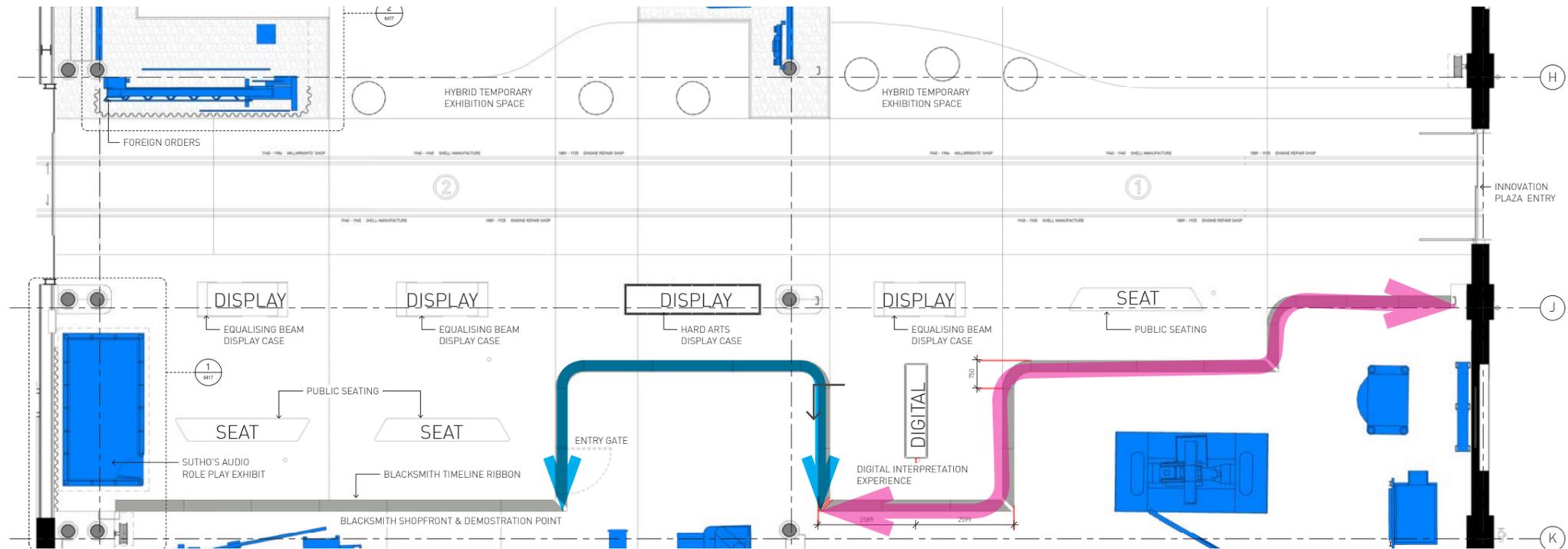
01.36 - EQUALISING BEAM DISPLAY CASE



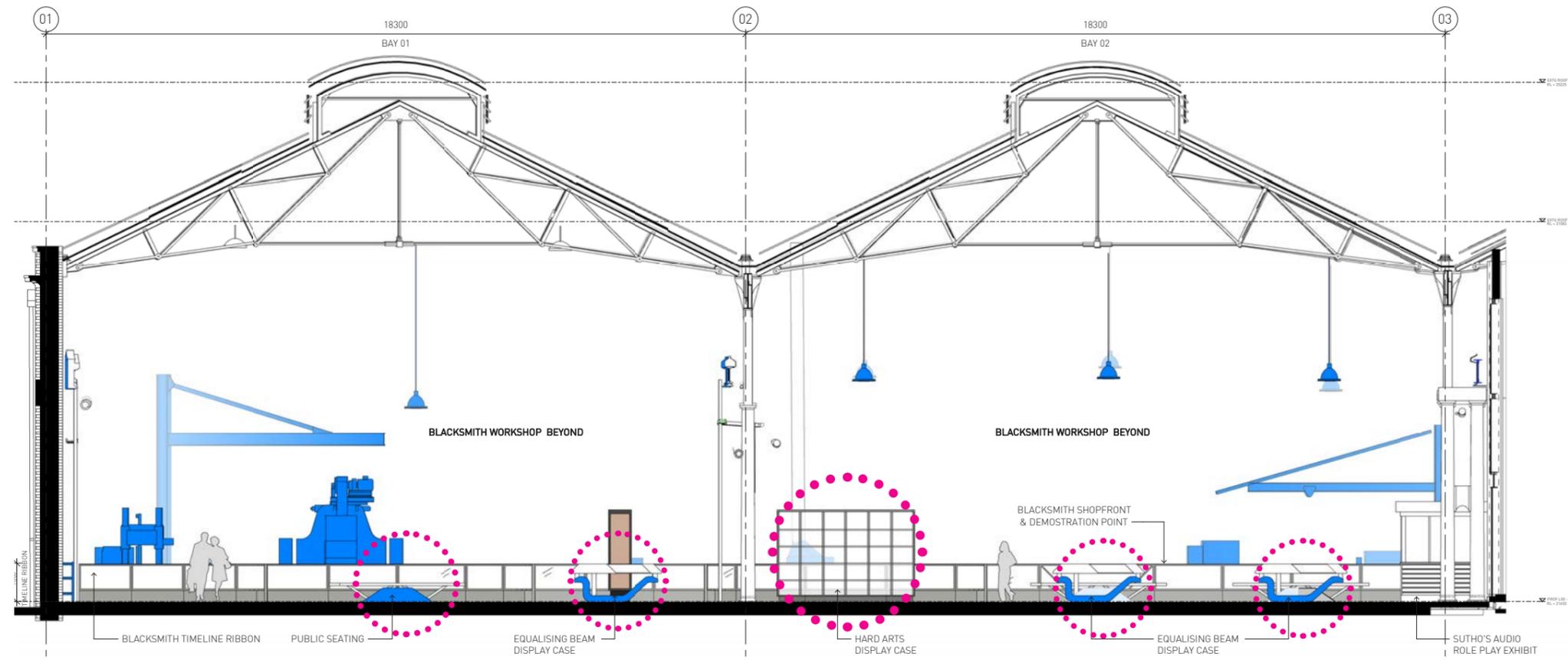
01.37 - HARD ARTS DISPLAY CASE - REF IMAGE



KEY PLAN



LOCO EXHIBIT PLAN DETAIL



HISTORY & RAW PROCESS

HERITAGE DISPLAY

SHOPFRONT DISPLAY

LOCO EXHIBIT ELEVATION

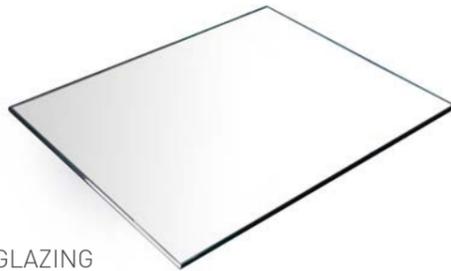
01.31 BLACKSMITH RIBBON TIME-LINE

DESIGN DETAILS

The ribbon encompasses the rich history of blacksmithing techniques and materiality. From raw process to final product.

The ribbon takes visitors on a journey through millennia of the manipulation of natural resources. It is made up of a steel plate, steel frame and glass case with access doors from behind. Internally aged timber veneer lining and LED illumination will highlight displayed items.

1.



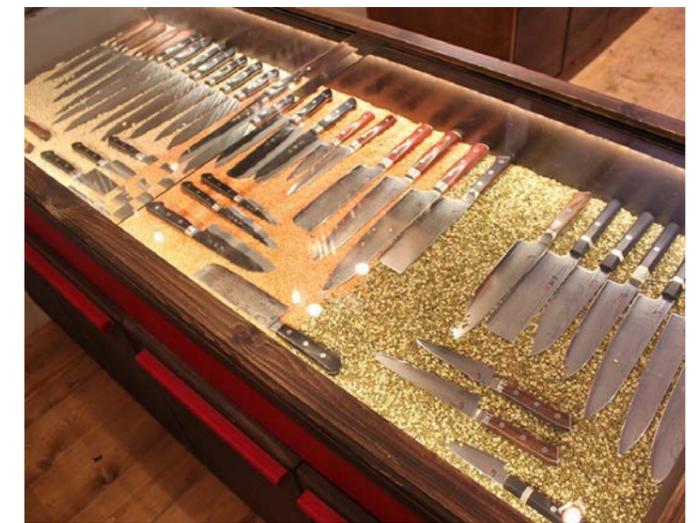
CLEAR GLAZING



RAW MATERIAL EXHIBIT DISPLAY



ARTEFACT DISPLAY



KNIFE DISPLAY

2.



STEEL SUPPORT FRAMING



PROCESS DISPLAY



SITE DISPLAY ITEMS

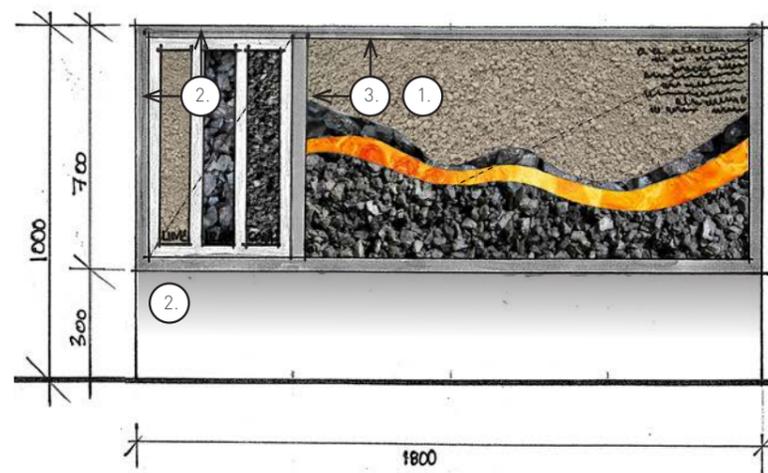


BLACKSMITH MERCHANDISE

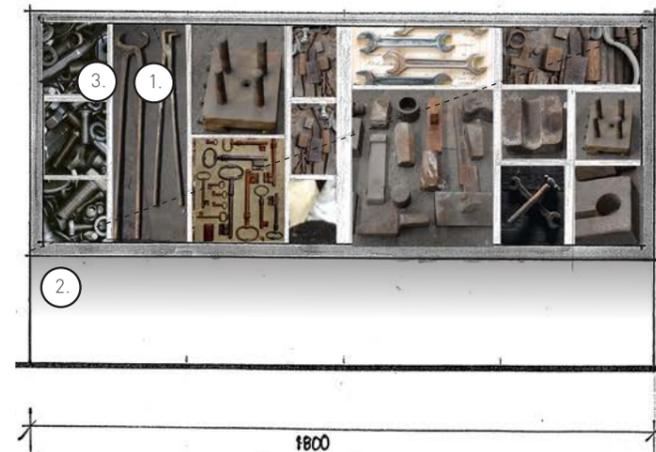
3.



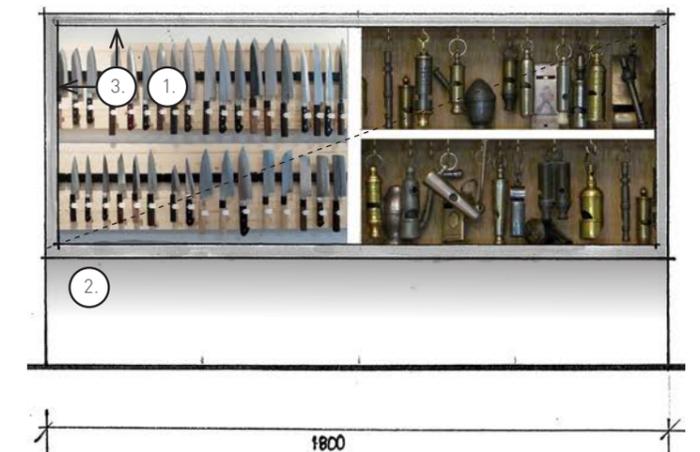
AGED TIMBER VENEER LINING



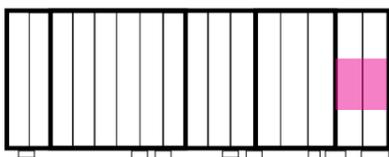
DETAIL: RAW PROCESS DISPLAY



HERITAGE DISPLAY



SHOP FRONT DISPLAY



KEY PLAN



01.30 LOCO EXHIBIT & BLACKSMITH WORKSHOP

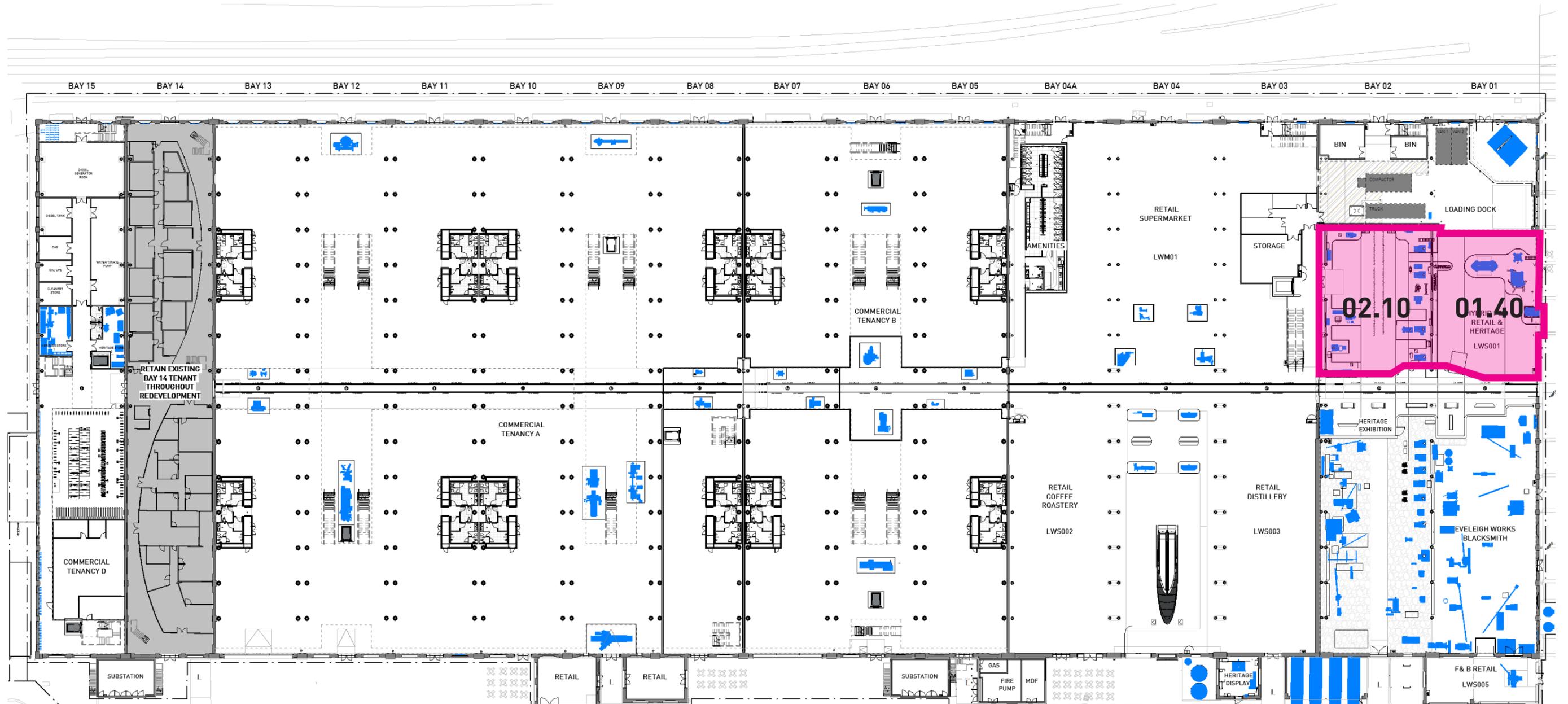


01.40 - BAY 1 HYBRID RETAIL + EXHIBITION ZONE

02.10 - BAY 2 HYBRID RETAIL + EXHIBITION ZONE

01.40 + 02.10 HYBRID RETAIL + EXHIBITION ZONES

LOCATION PLAN - GROUND FLOOR



01.40 HYBRID RETAIL + EXHIBITION ZONES

AXONOMETRIC

Interpretation zones are aligned to the Hybrid 'Cultural Heritage Tourism' Strategy.

Storytelling and sensorial experiences connect the interpretation to the hybrid food & beverage zone.

The meandering layout echoes the dynamic side to side interactions between workers on opposite workstations when the workshop was in operation. This encourages guests to slow down, engage with the heritage elements, and provides clear views through to smaller areas within.

01.40 - BAY1 HYBRID RETAIL + EXHIBITION

The Davy Press is the feature element within this space. The large machinery that forms part of its assemblage will remain in-situ. The tools that belong to this assemblage will be grouped, ordered and displayed around its perimeter and will be displayed in ways that interpret their stories and scale.

The walls that separate the space from the loading dock are full height glazing maintaining sight lines through to the Furnace and larger tools that will be displayed along this wall.

01.41 - DAVY PRESS PROJECTIONS

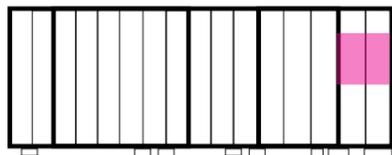
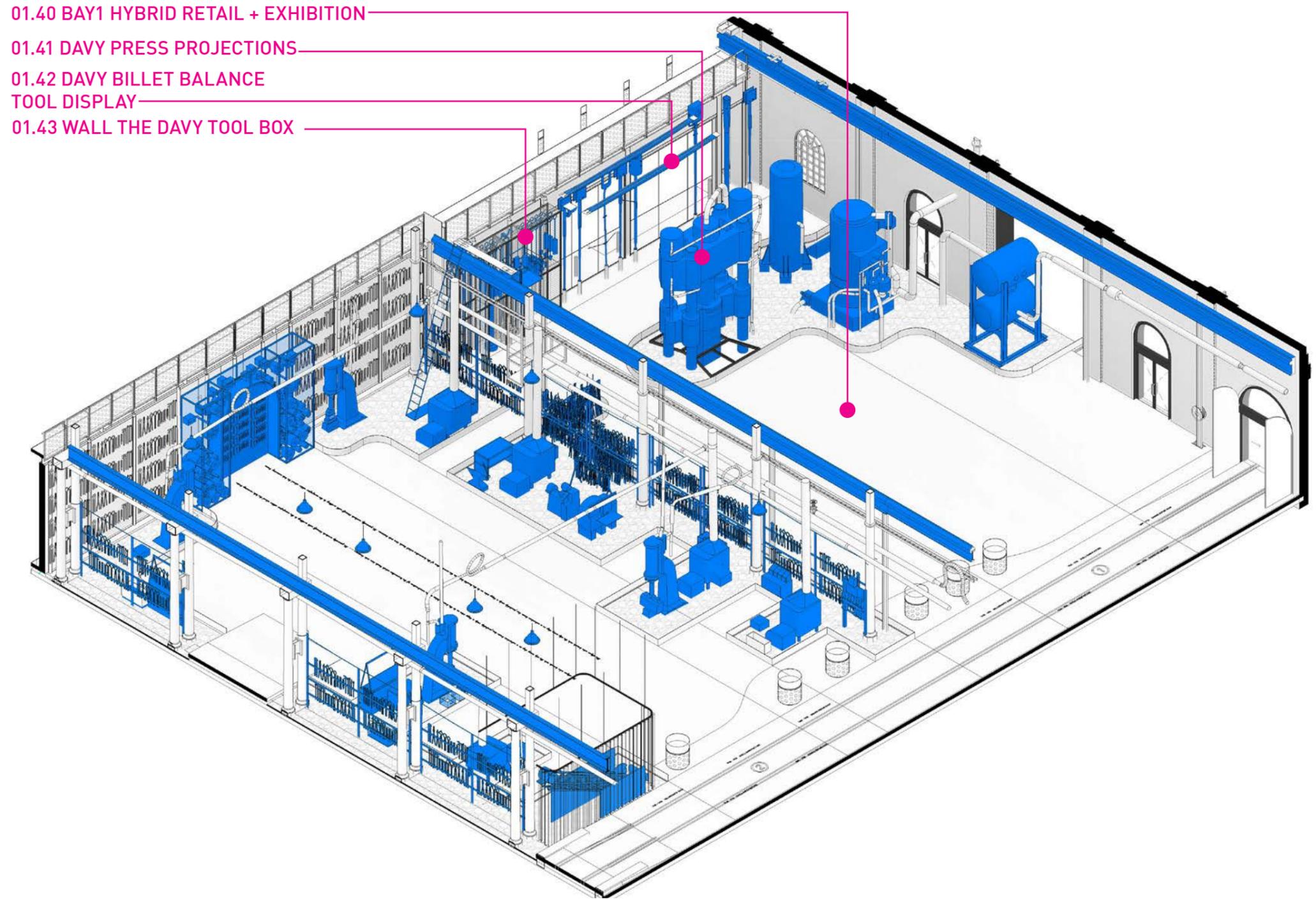
Projections onto the Davy press will include internal imagery of how the machine operates.

01.42 - DAVY BILLET BALANCE TOOL DISPLAY

Collection of billet balance holders displayed in a totem pole like exhibit.

01.43 - WALL THE DAVY TOOL BOX

Collection of tools displayed in contemporary tool box exhibit.



KEY PLAN



02.10 HYBRID RETAIL + EXHIBITION ZONES

AXONOMETRIC

02.10 - BAY 2 HYBRID RETAIL EXHIBIT

The Steam Hammer and Forge workstations are the feature of this space and the tooling is of a smaller scale.

Tools will primarily be displayed on existing tool racks, grouped in ways that interpret the relationship between the functions of the workstation they rest in.

Tools relocated from the northern end of Bay 2 will be displayed on the Workshop Display Wall that separates the space from the loading dock behind.

A low treated steel plate barrier with laser cut text will name and describe the heritage machinery. This also divides the new honed concrete slab from the crushed granite dirt flooring that will be placed around the heritage items must be placed around the heritage items.

02.11 - STEAM HAMMER PROJECTIONS

Projections onto steam hammer showing the movement and operation of the machinery.

02.13 - GABION ARCH

Collection of moulds, dies and tools displayed in gabion wall.

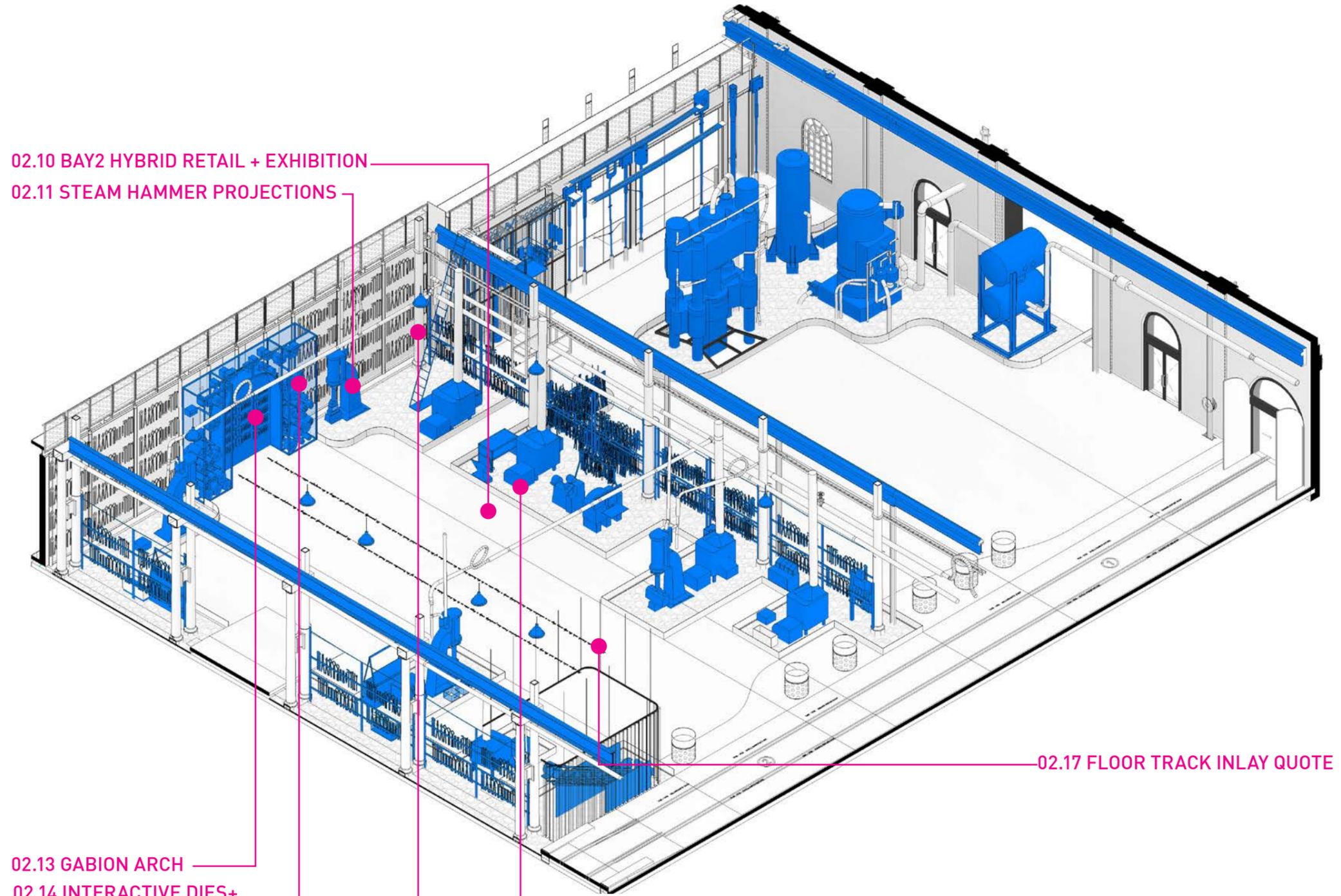
02.14 - INTERACTIVE DIES, MOULDS EXHIBIT

Replica of dies and moulds used as an interactive puzzle.

02.15 - WORKSHOP DISPLAY WALL TOOL RACKS

Collection of tools displayed along wall on mesh racks exhibit.

02.16 - FORGE WORKSTATIONS



02.10 BAY2 HYBRID RETAIL + EXHIBITION

02.11 STEAM HAMMER PROJECTIONS

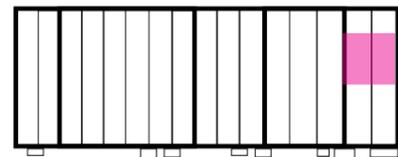
02.17 FLOOR TRACK INLAY QUOTE

02.13 GABION ARCH

02.14 INTERACTIVE DIES+
MOULDS EXHIBIT

02.15 WORKSHOP DISPLAY
WALL TOOL RACKS

02.16 FORGE WORKSTATIONS



KEY PLAN



01.40 + 02.10 HYBRID RETAIL + EXHIBITION ZONES

GROUND PLAN

The primary materials used throughout the space are the new honed concrete slab to the circulation spaces, crushed granite coating to the flooring around and under in-situ machinery.

A low height steel plate barrier that creates a set back from the machinery will also include laser cut text and aged brass metal inlays. Floor inlays include stories and lineal guides to heritage items.



METAL BARRIER



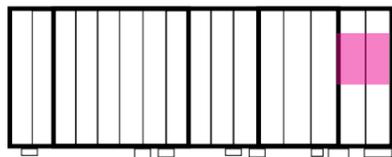
METAL INLAY



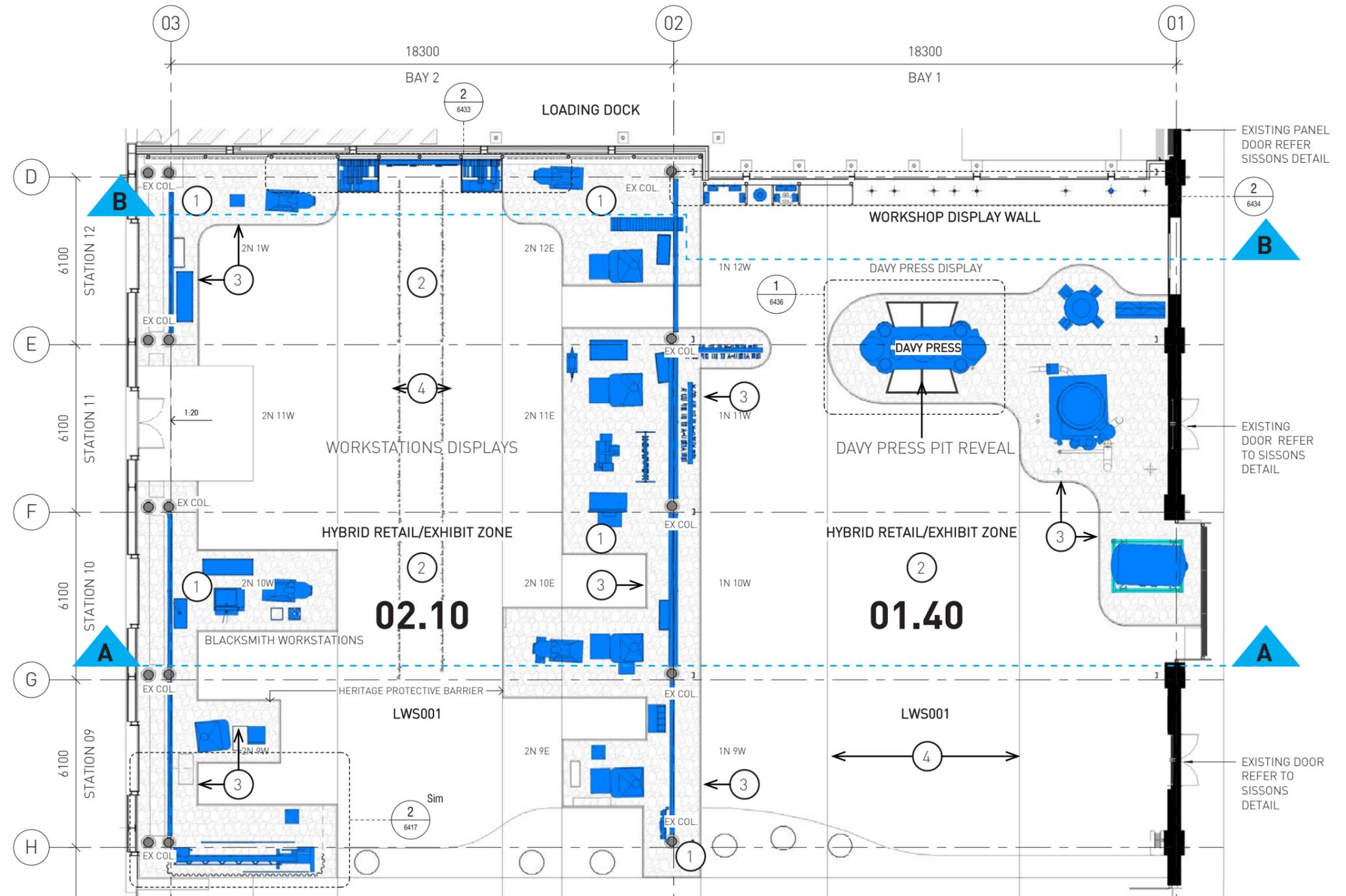
CONCRETE FLOORING



CRUSHED PINK GRANITE FLOORING



KEY PLAN



01.40 + 02.10 HYBRID RETAIL & EXHIBITION ZONES

SECTION A

This section illustrates the relationship of the new structural insertion behind the large heritage machinery that will remain in-situ.

At ground floor the Workshop Display wall dividing the space from the Loading Dock transitions from clear to semi-transparent in Bay 1 then to solid in Bay 2. This is a design gesture that performs a screening function and plays a large role in the interpretation of the space, creating intrigue and interest.

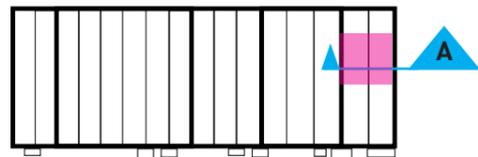
Glazing is clear and transparent with minimal framing, supported by the new steel structure that is finished with a micaceous paint contrasting from the heritage steel trusses and paint finish of the iron columns.

The balustrade over is constructed of steel stanchions and perforated steel panels. Creating a semi-transparent horizontal band across the space.

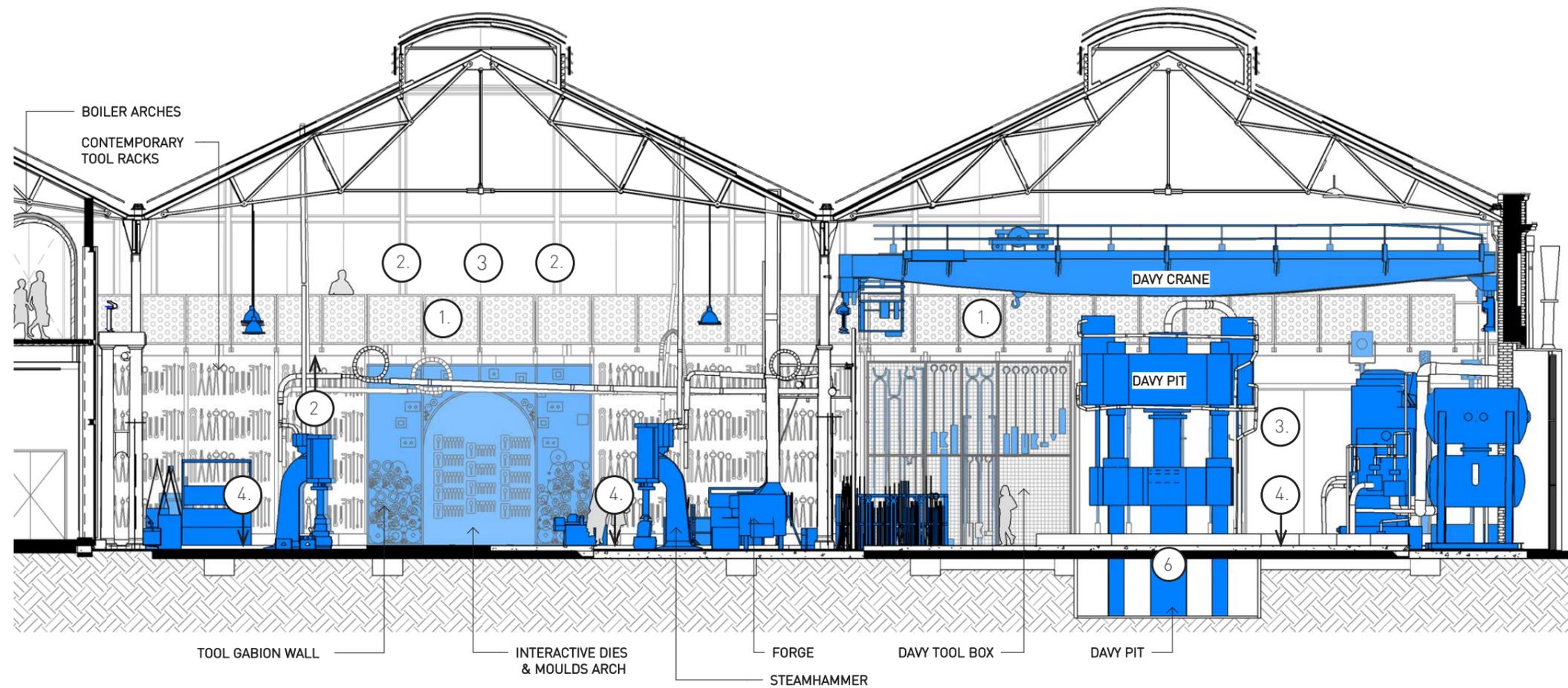


01.44 DAVY PRESS PIT REVEALS - GLAZING INTENT

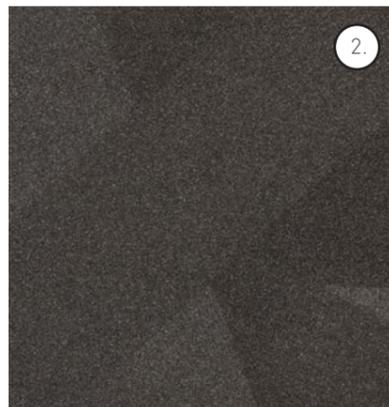
The pits surrounding the Davy Press will be revealed with steel framed glazing. Diffused light will illuminate the space and supporting text will describe the use and function of the pits.



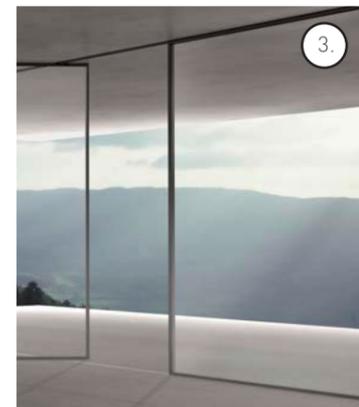
KEY PLAN



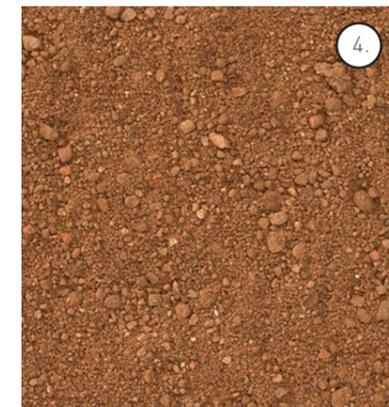
BALUSTRADE PERFORATED PANEL



NEW STEEL MICACEOUS PAINT FINISH



CLEAR FULL HEIGHT GLAZING



PINK GRANITE FLOORING - AROUND HERITAGE ITEMS



WOODWOOL ACOUSTIC PANEL - BEHIND BAY 2 TOOL DISPLAY

THE WORKSHOP DISPLAY WALL

SECTION B

This section of the Workshop Display Wall describes the different approaches to the design narrative that has a gradation from transparent to opaque from Bay 1 to Bay 2.

BAY 1 - Workshop Display Wall

The tools used in Bay 1 are of an immense scale and are displayed to inspire a sense of awe in their original handling and use. Two methods have been used to interpret these tools.

First is the 'totem display' of the largest Billet holders have been erected as a colonnade in steel sleeves which embedded into the new concrete slab with uplighting. Their placement helps to frame the furnace beyond.

Secondly, as the display transitions toward Bay 2, special screened framing with welded steel mesh called the 'tool box display' will house the large but smaller operable tools. This begins to screen out the Loading dock beyond.

This sits below the newly positioned gantry crane and is illuminated from spot lighting that is clamped to the trusses over.

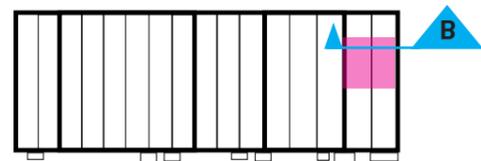
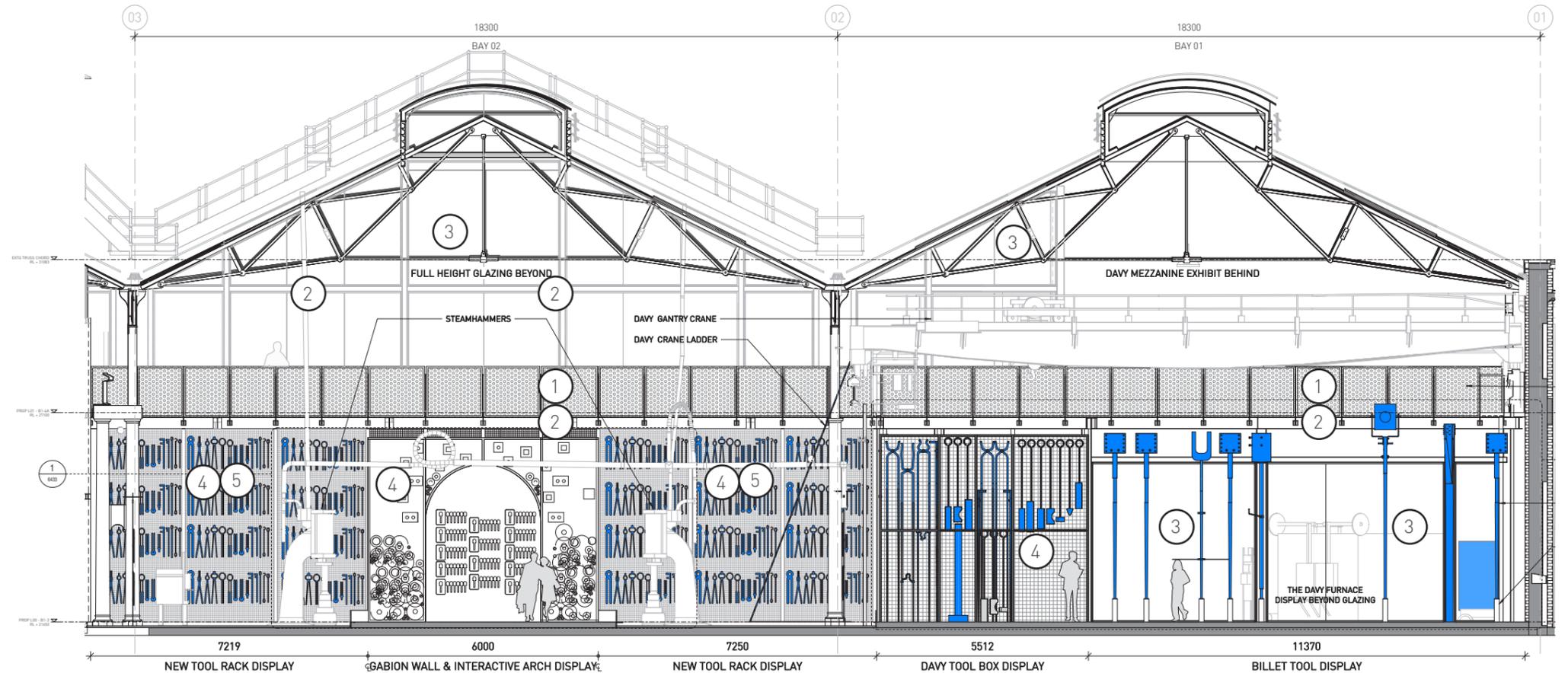
BAY 2 - Workshop Display Wall

Three methods have been used to interpret the historic use of tooling found within Bay 2. This wall has a simple symmetry to provide a strong but sympathetic backdrop to the workshop and the steam hammers that rest in front of it. The arch echoes the size and form of the arched door concealed behind the wall.

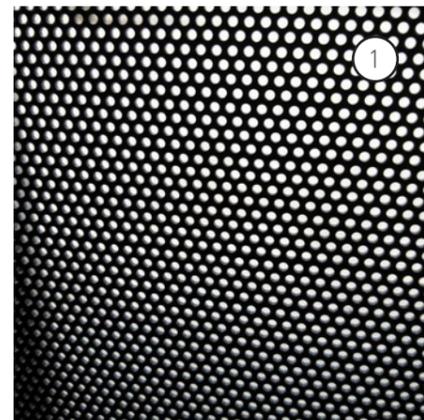
First is the contemporary tool racking for the medium sized tooling.

Second is the Gabion wall tool display, displaying moulds and dies.

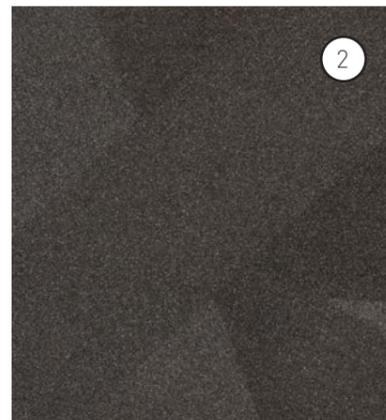
Third is the interactive arch where a tangible experience explains the workings of moulds and dies.



KEY PLAN



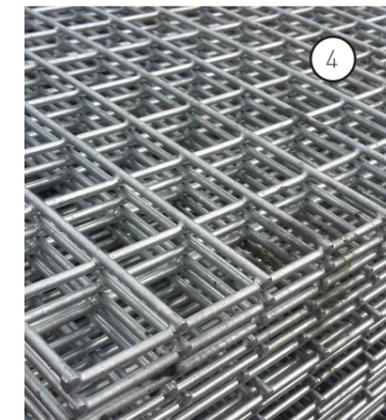
NEW PERFORATED METAL



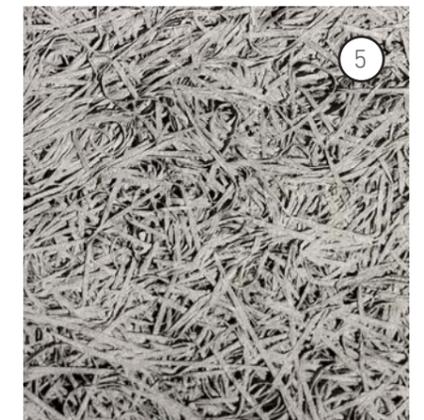
NEW STEEL MICACEOUS PAINT FINISH



CLEAR FULL HEIGHT GLAZING



WELDED STEEL MESH



WOODWOOL ACOUSTIC PANEL

01.51 THE WORKSHOP DISPLAY WALL

LIGHTING + PROJECTION DETAILS

Lighting and projection plays a critical role in the interpretation of building fabric, machinery, and objects.

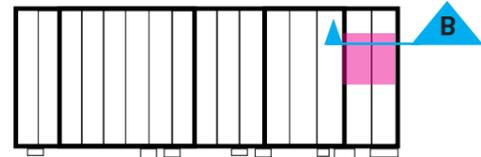
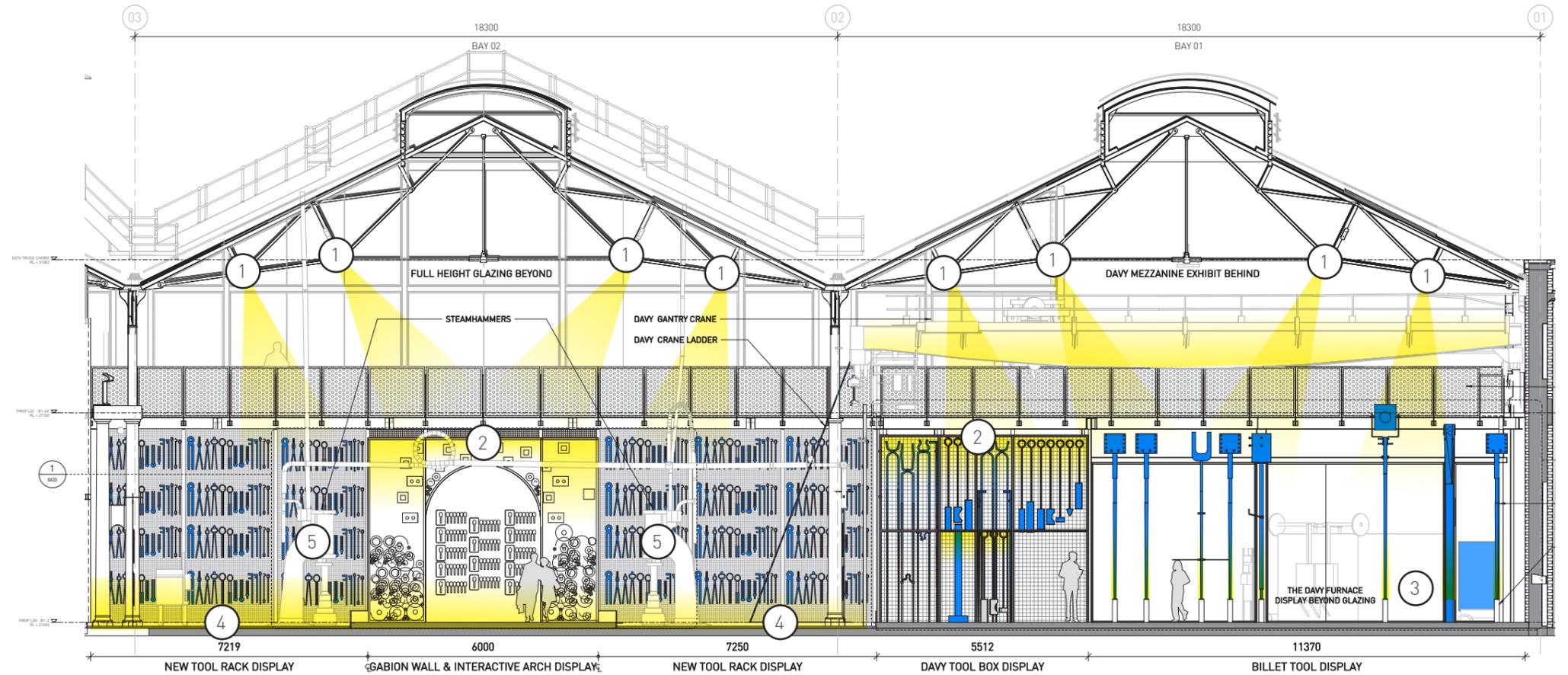
The Steam Hammers and Davy Press are to be brought to life with projections that give the audience a view of the original internal workings of the machines. Dissecting the machines and expressing the power of steam and energy that once operated their components.

The Workshop Display Wall and general strategy will be illuminated from a continuous LED strip light concealed within the metal barrier at ground level. Special directional spot lighting will target the featured elements to bring focus to these and their descriptions.

Any lighting or projection equipment that is supported from heritage structure will be fixed with a clamping techniques to protect the heritage fabric.



DAVY PRESS DIGITAL ACTIVATION - REFERENCE IMAGE



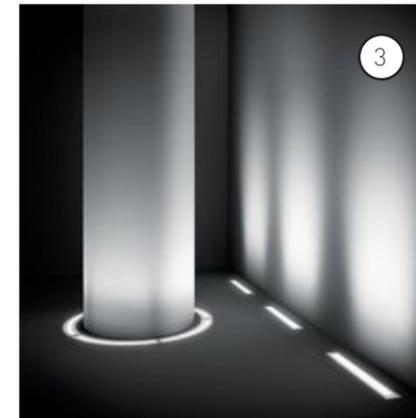
KEY PLAN



DIRECTIONAL SPOT LIGHTING



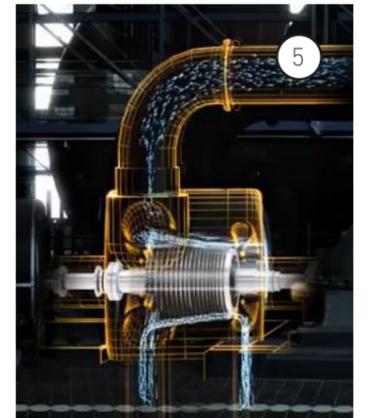
TOOL BOX LIGHTING CONCEPT



BILLET LIGHTING CONCEPT



STRIP LIGHTING



INTERPRETIVE PROJECTION

01.43 + 01.44 THE WORKSHOP DISPLAY WALL

BAY 1 DESIGN DETAILS

The immense scale of the Balance Billet holders are showcased in a totem like display. Being an important component of the Davy Press assemblage, these items demonstrate the complex nature of the system required to operate the press and the diversity of parts produced. The interpretation of these tools highlights the man-power that was required to move and operate these tools.

01.42 - DAVY BILLET BALANCE TOOL DISPLAY;

Metal sleeves embedded into the new concrete slab support the weight of the Billet holders. This will have perforated tops with back lighting to describe and illuminate the objects. They are held from above with U-Bolt clamps fixed into the new structural steel behind.

This arrangement frames the furnace beyond symbolising the important relationship they hold to each other.

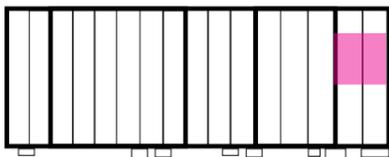
01.43 - THE DAVY TOOL BOX ;

A large steel and mesh display box house the operable tools from the Davy assemblage. The welded mesh acts as a subtle screening to the loading dock beyond. Custom U-bolts hold the tools in place without causing damage to their heritage fabric.

These tool vary in height from 1800mm to 4000mm in length and are grouped as such. Visitors can enter one area of this box to gain a unique perspective of their volume.



BALANCE BILLET HOLDERS TO DISPLAY

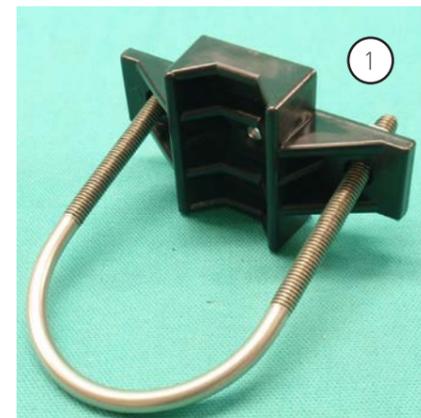
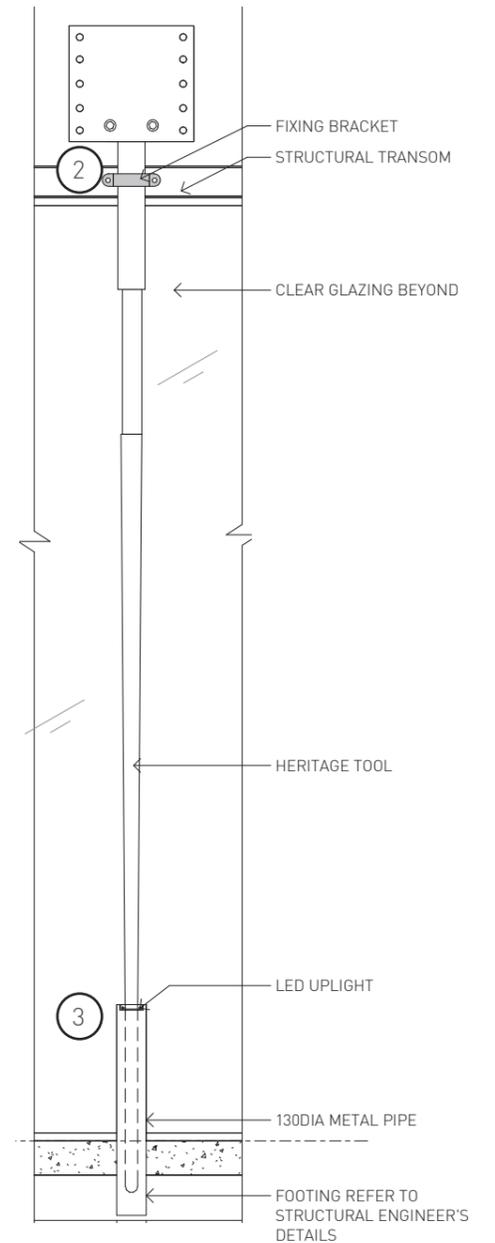
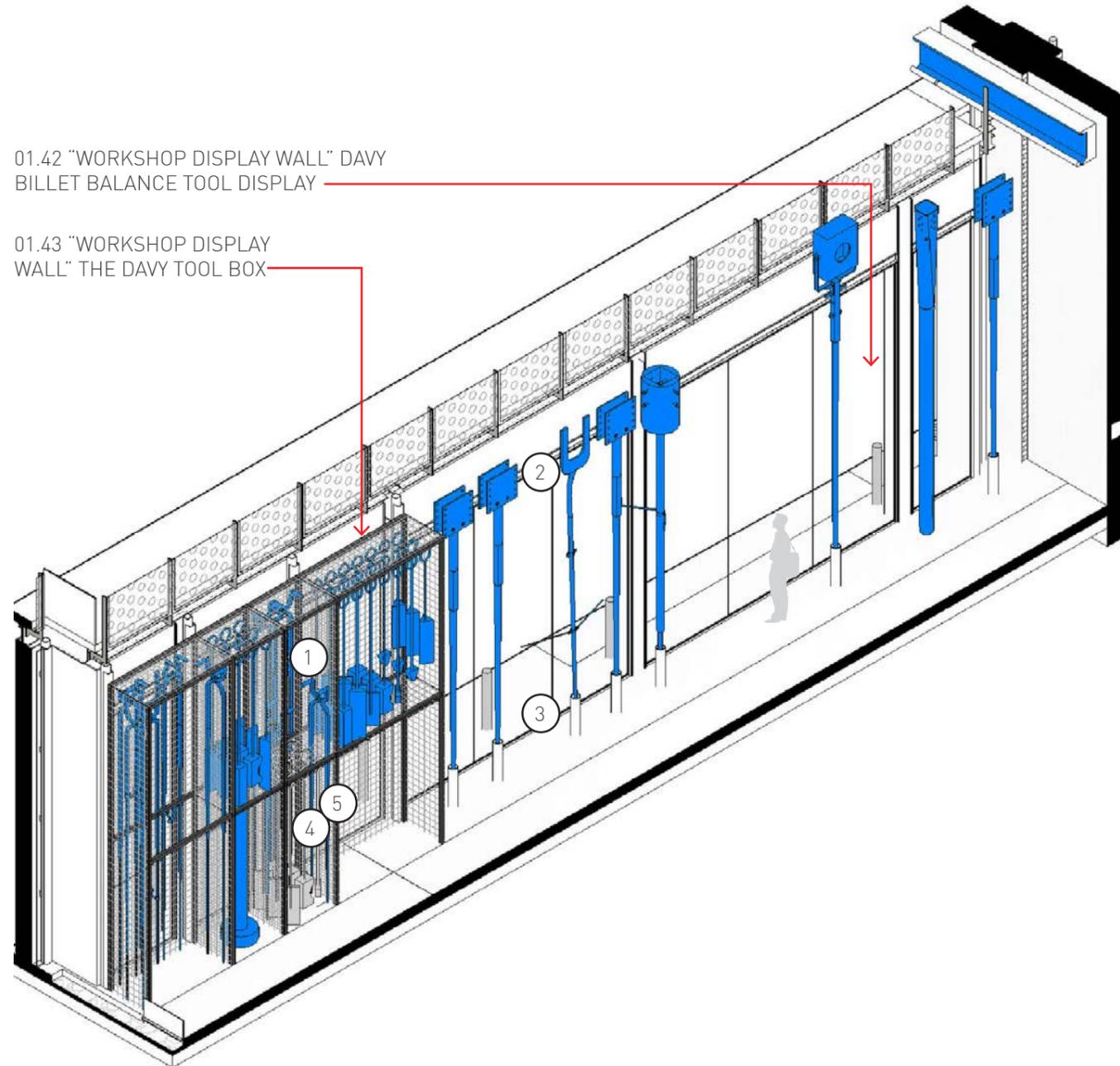


KEY PLAN



01.42 "WORKSHOP DISPLAY WALL" DAVY BILLET BALANCE TOOL DISPLAY

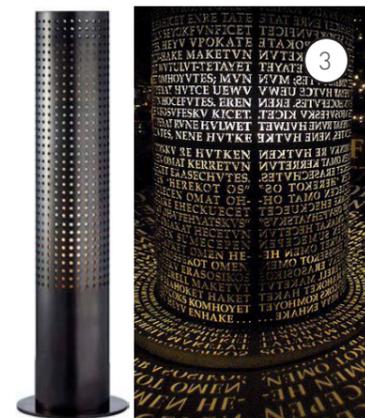
01.43 "WORKSHOP DISPLAY WALL" THE DAVY TOOL BOX



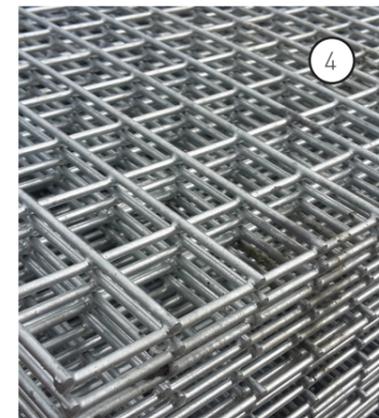
CUSTOM U-BOLT FIXINGS TO OPERABLE TOOLS



CUSTOM U-BOLT CLAMP FIXING FOR LARGE BILLET HOLDERS



BILLET SLEEVE HOLDER WITH LIGHTING AND PERFORATION



WELDED STEEL MESH



STEEL FRAMING - TOOL BOX

01.43 + 01.44 THE WORKSHOP DISPLAY WALL

TOOL BOX DETAILS

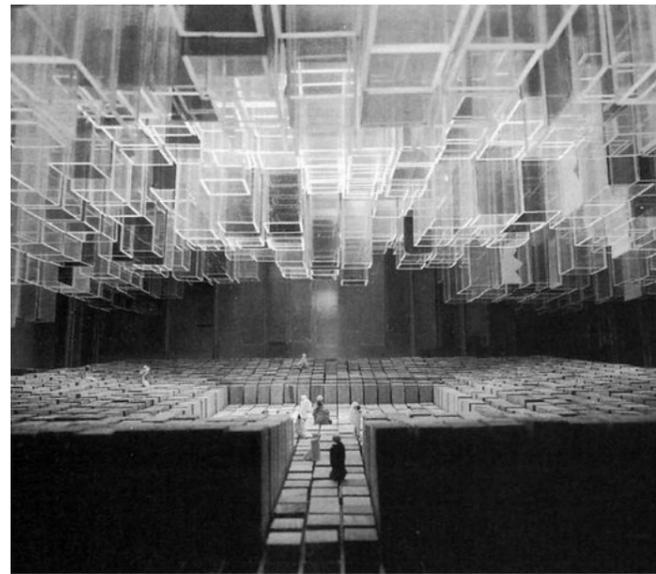
The Davy tool box expresses the variety and enormity of the tools displayed and the diversity of tasks undertaken within the workshop. They include hand-held tongs and a furnace rake and hoe with some of these measuring up to 6000mm in length.

The tool box is constructed from a steel frame with a welded mesh skin that helps to support the tools. This also begins to screen the glazing and loading dock behind which is part of the overall gradient concept for the Workshop Display wall.

The smaller Swages and Fullers measuring at 2000mm in length, will be suspended from both the top and mid-point of the tool box. This allows to view the tools from different perspectives and create an immersive interactive space that visitors can walk under and observe.

Fixings will hold and suspend so as to prevent damage to the heritage fabric.

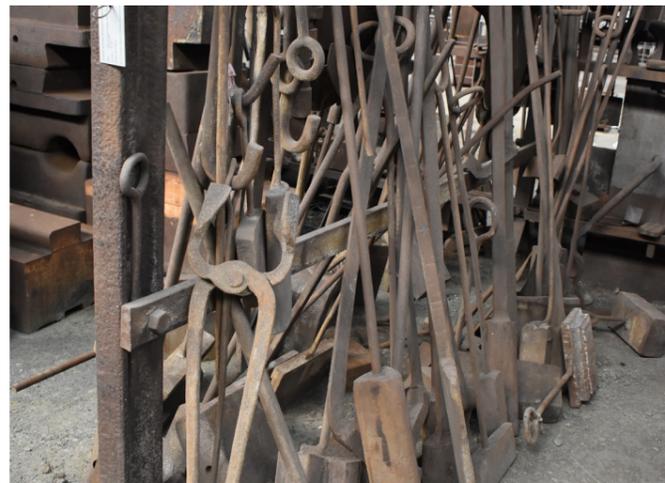
Diffused lighting is integrated into the frame structure and additional spot lighting will be implemented from above where needed.



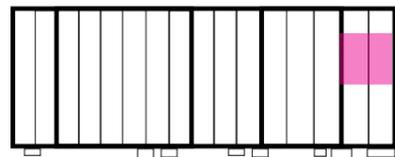
SUSPENDED BOX DISPLAY



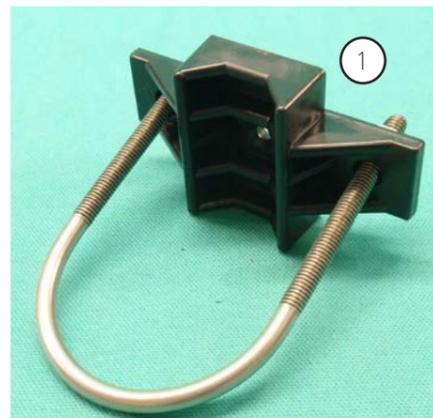
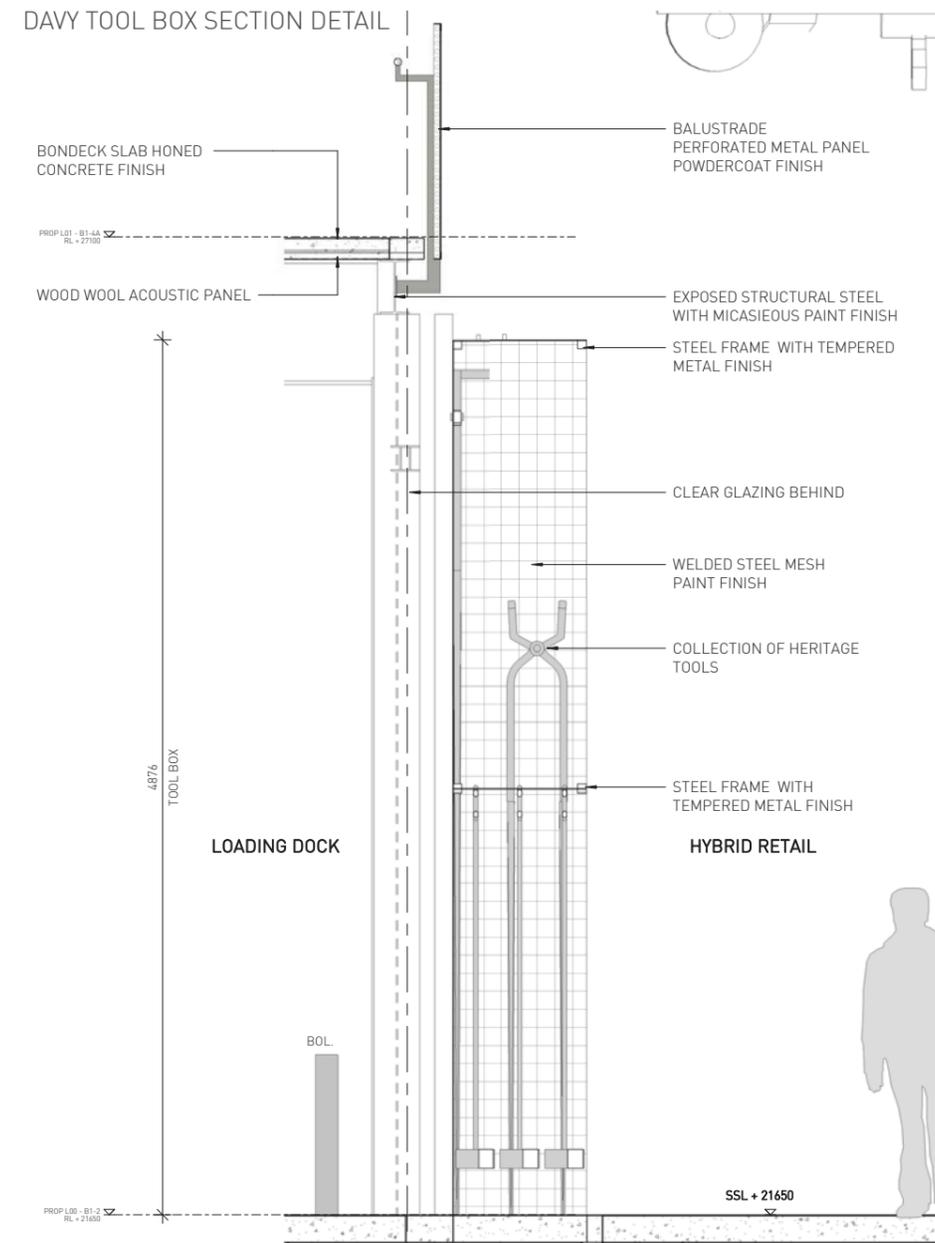
SUSPENDED BOX DISPLAY



COLLECTION OF HERITAGE SWAGES & FULLERS



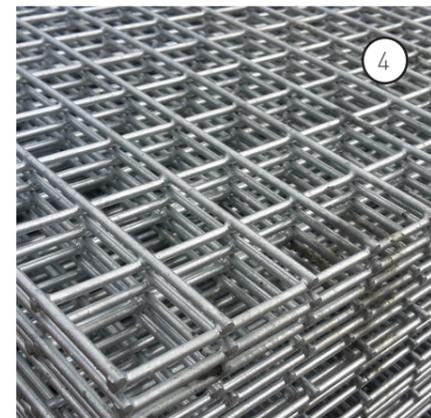
KEY PLAN



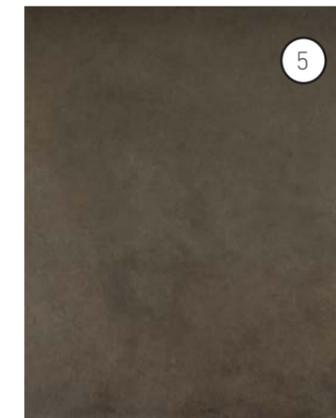
CUSTOM U-BOLT FIXINGS TO OPERABLE TOOLS



MICACEOUS PAINT FINISH



WELDED STEEL MESH



STEEL FRAMING - TOOL BOX



BALUSTRADE PERFORATED PANEL

02.13 + 02.15 WORKSHOP GABION WALL

BAY 2 DESIGN DETAILS

The surviving tool racks describe the former work flow of the original users. In appreciation of these facts a contemporary interpretation of these functional racks is employed on this wall. Each item is respectfully suspended in a categorised ordered to provide understanding to their uses.

The walls make-up consists of a solid substrate, then a layer of acoustic panelling that help to reduce noise levels within the space. Then the structural support for the tools is a skin of welded steel mesh. Custom U-bolts hold the tools in place preventing theft and damage.

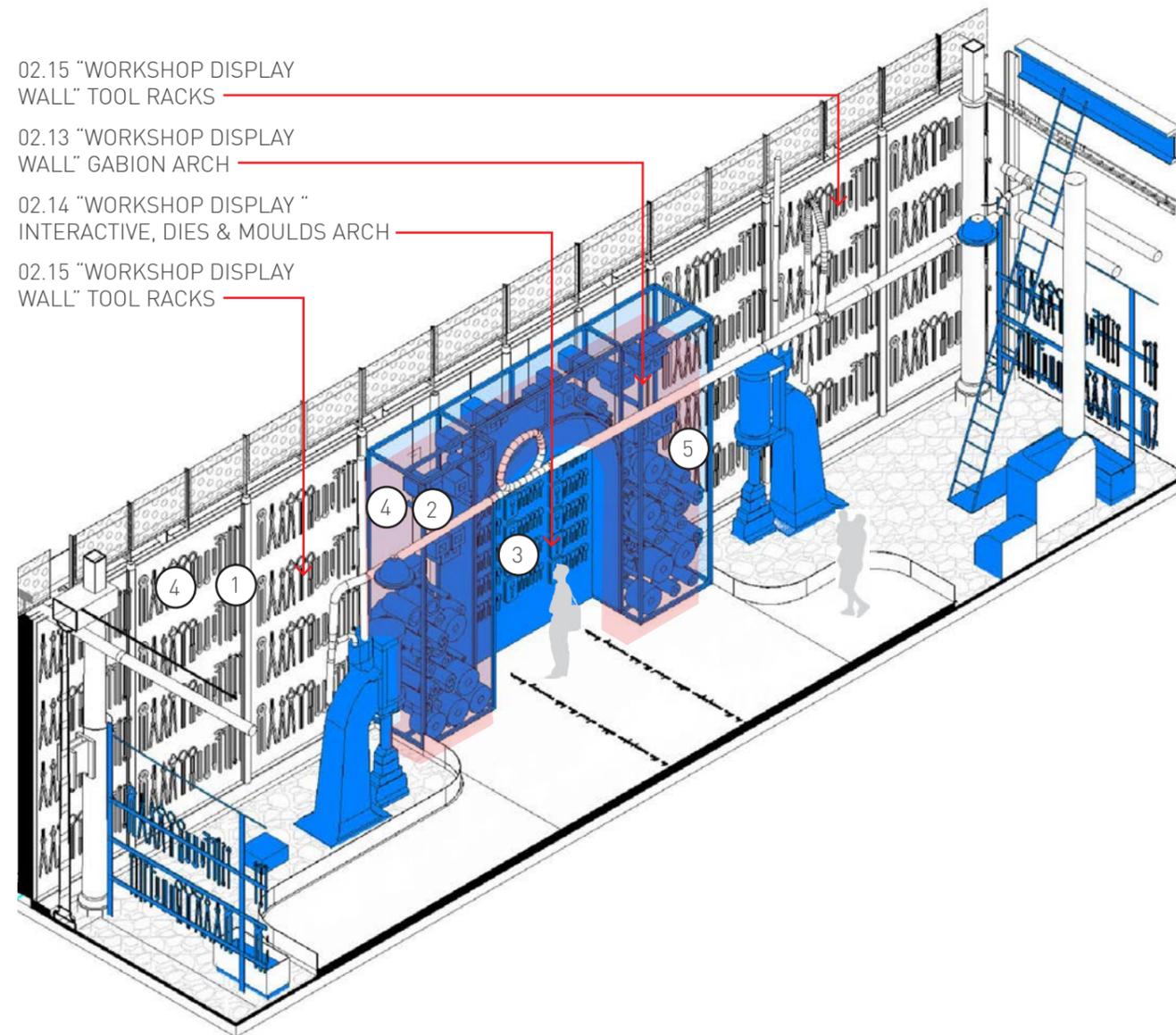
Three methods of display have been used to interpret the historic use of the tooling found within Bay 2. This wall has a simple symmetry to provide a strong but sympathetic backdrop to the workshop and the steam hammers that rest in front of it. The arch echoes the size and form of the arched door concealed behind the wall.

First is the contemporary tool racking for the medium sized tooling. Ordering the objects into groups that convey their use.

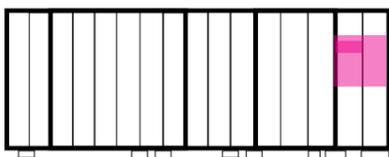
Second is the Gabion arch wall, displaying moulds and dies. Creating an intriguing display of repeated and suspended forms.

Third is the interactive arch where a tangible experience explains the workings of moulds and dies. Here visitors can touch and discover the forms, moulds and objects they created with their hands.

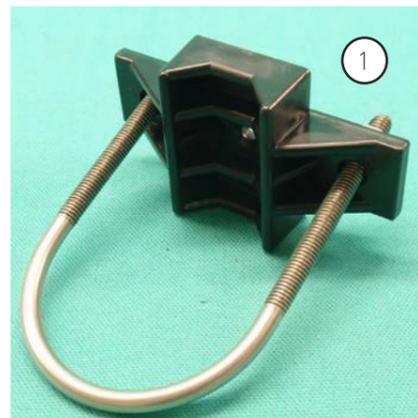
Fixings for all tooling will be with U-bolts, clamps and suspension to preserve and protect the heritage objects.



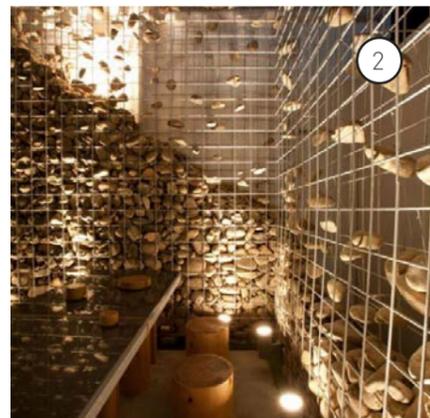
DIES, MOULDS AND TOOLS TO BE DISPLAYED



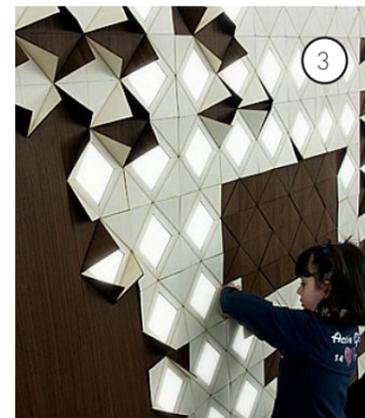
KEY PLAN



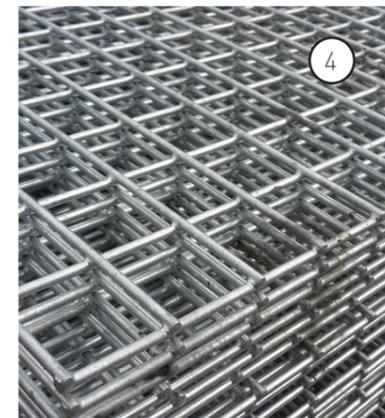
CUSTOM U-BOLT FIXINGS TO OPERABLE TOOLS



GABION WALL REFERENCE IMAGERY



INTERACTIVE WALL - REFERENCE IMAGE



WELDED STEEL MESH



STEEL FRAMING - GABION



02.13 + 02.15 WORKSHOP GABION WALL

SECTION DETAILS

02.13 - GABION WALL ARCH

The Gabion wall arch echoes the original arched opening behind.

The design is both a backdrop and a strong form that references the architecture of the building. This wall holds a large quantity of items used in the workshop that require explanation to understand. Displaying the permanence of these items in an aesthetic that is sympathetic to the workshop.

The framing is fixed back into the new structure supporting the mezzanine over. Power and data for lighting and projection will be concealed within.

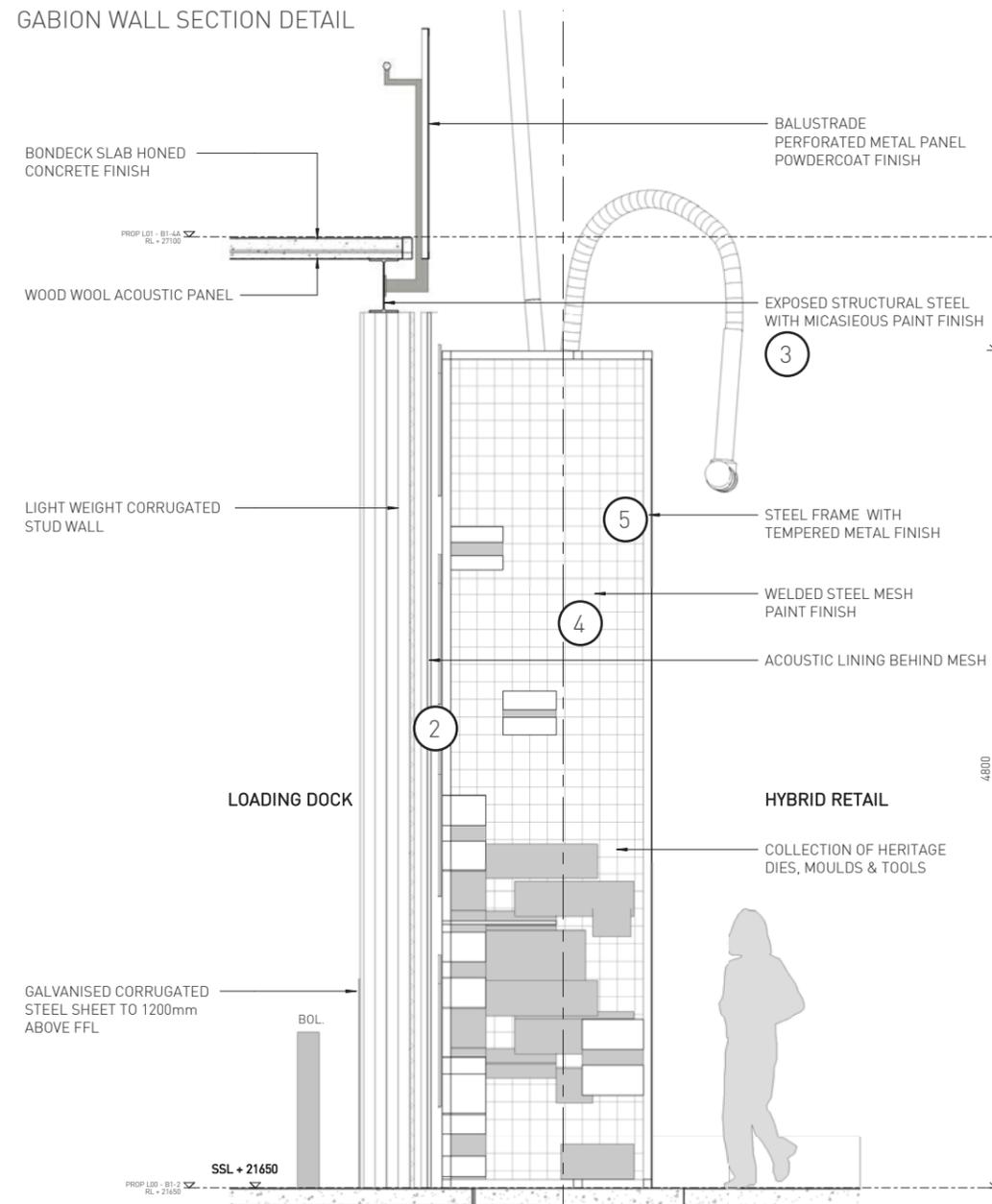
The welded mesh functions as structural support for the heavy tools, protects smaller objects from theft and supports the industrial aesthetic whilst being a contrasting material.

02.14 INTERACTIVE DIES + MOULDS EXHIBIT

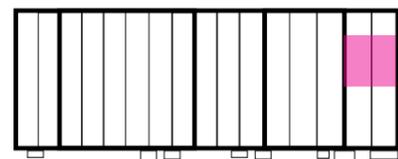
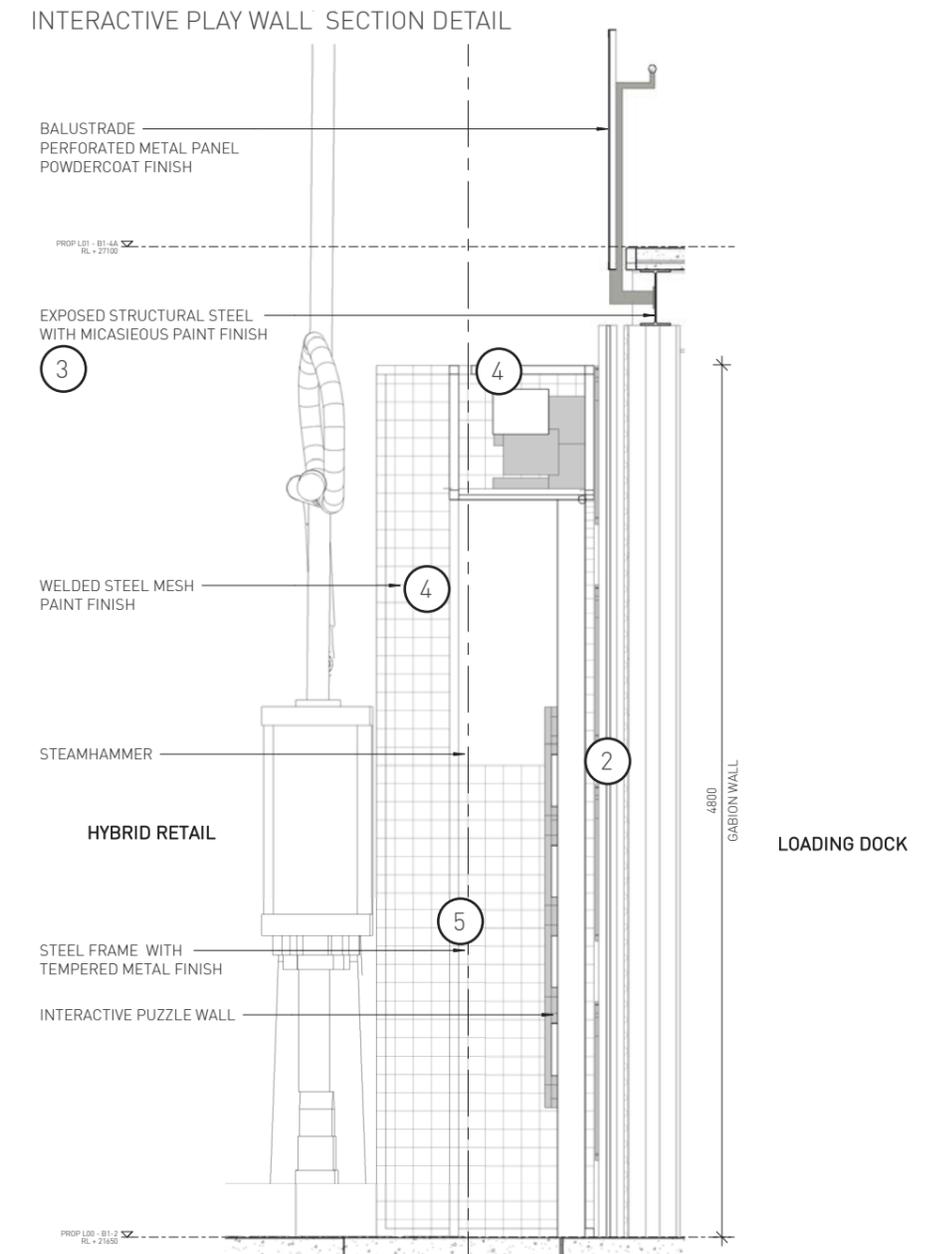
The centre of the arched wall acts as an interaction point for uses to engage and explore how dies, moulds and tools were formed and were used.

This is done with replica pieces that can be handled. It is a playful puzzle of positive and negative forms uniquely made in the workshop. Physical plaques describe the object and further descriptive content will be digitally available.

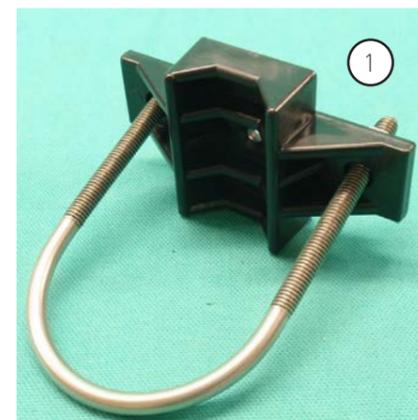
GABION WALL SECTION DETAIL



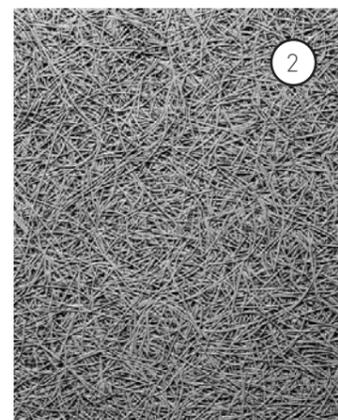
INTERACTIVE PLAY WALL SECTION DETAIL



KEY PLAN



CUSTOM U-BOLT FIXINGS TO OPERABLE TOOLS



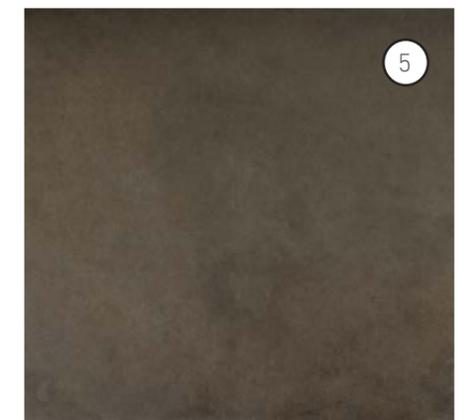
WOOD WOOL ACOUSTIC PANEL



NEW STEEL - MICACEOUS PAINT FINISH



WELDED STEEL MESH



STEEL FRAMING - GABION

02.10 HYBRID RETAIL & EXHIBITION ZONE

BAY 2 WORKSTATIONS

Heritage items and significant historical fabric is celebrated and showcased in this space. Many of the items remain in-situ and the tooling on racks will be returned to workstations resembling their workflow.

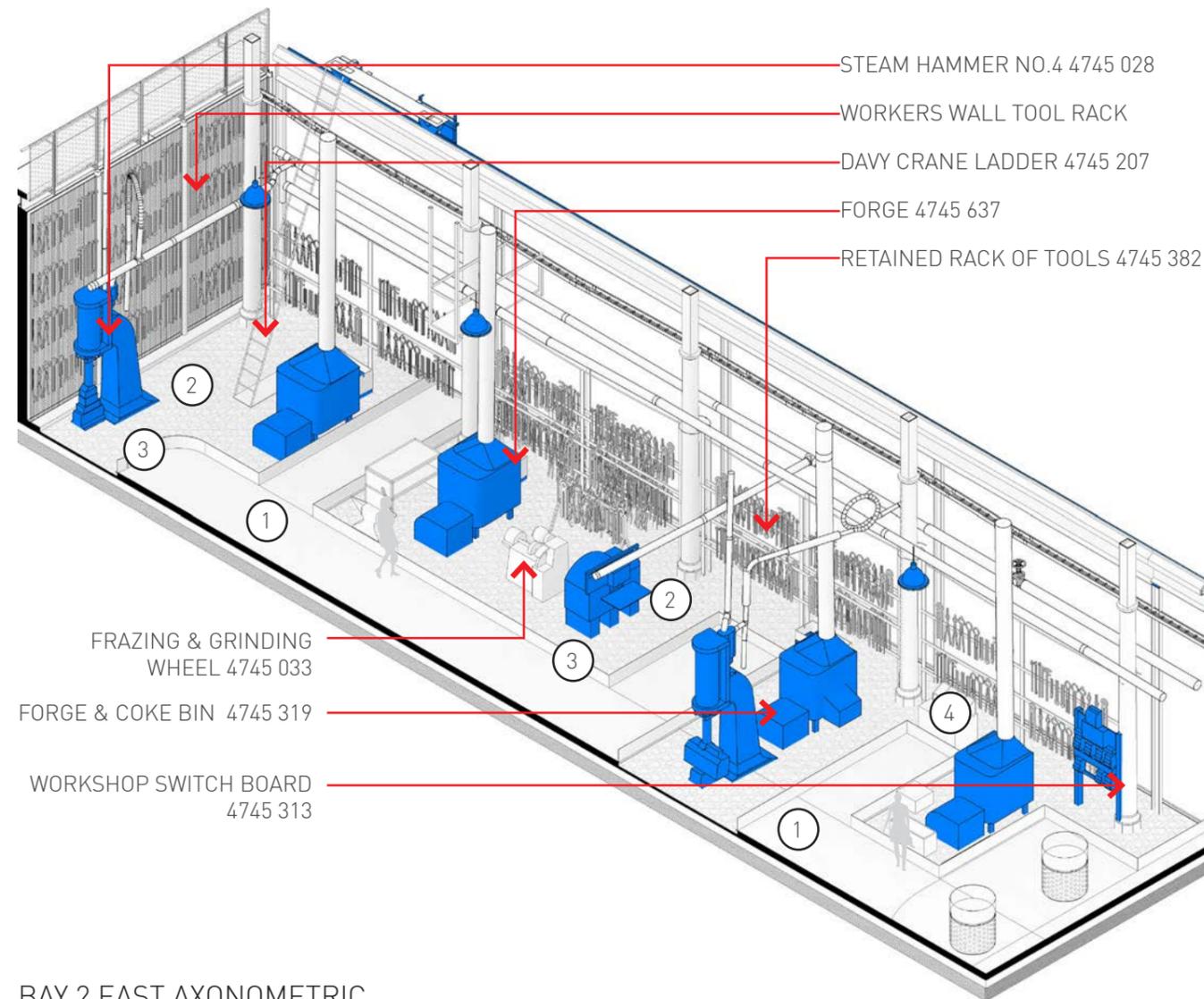
Proposed new insertions will contain minimal, sharp, crisp lines with refined detailing to contrast with the rough, exposed, raw and weathered nature of the existing heritage look.

The Bay 2 workstations will be defined and protected by a low steel plate barrier with laser cut text describing the machinery. This is illuminated by a constant LED strip of light. Additional spot lighting will be mounted on the ground surface.

The flooring around and under the machinery will be returned to dirt, using a crushed granite. The main circulation space is a honed concrete with specific lines relating to the geometry and machinery of the space enhanced with aged brass inlays. Some of which will be historic quotes and statements referencing the rail tracks below the new honed concrete slab.

Tool racks will be retained and made good where needed to preserve and celebrate the special character of this industrial workshop.

Personal stories of the former workers will be interpreted as elements of surprise to create an exhibit that delivers time and time again.



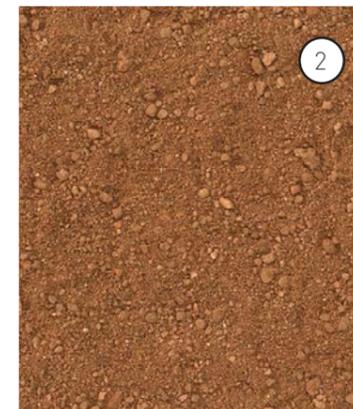
BAY 2 EAST AXONOMETRIC



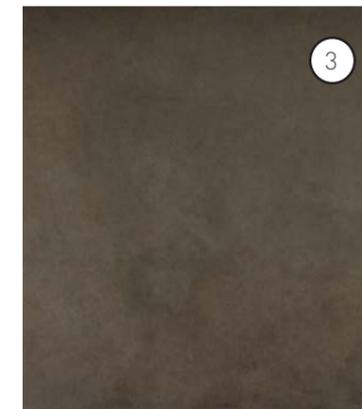
KEY PLAN



CONCRETE FLOOR WITH INLAYS



CRUSHED PINK GRANITE



METAL BARRIERS



COLLECTION OF HERITAGE ITEMS TO BE DISPLAYED



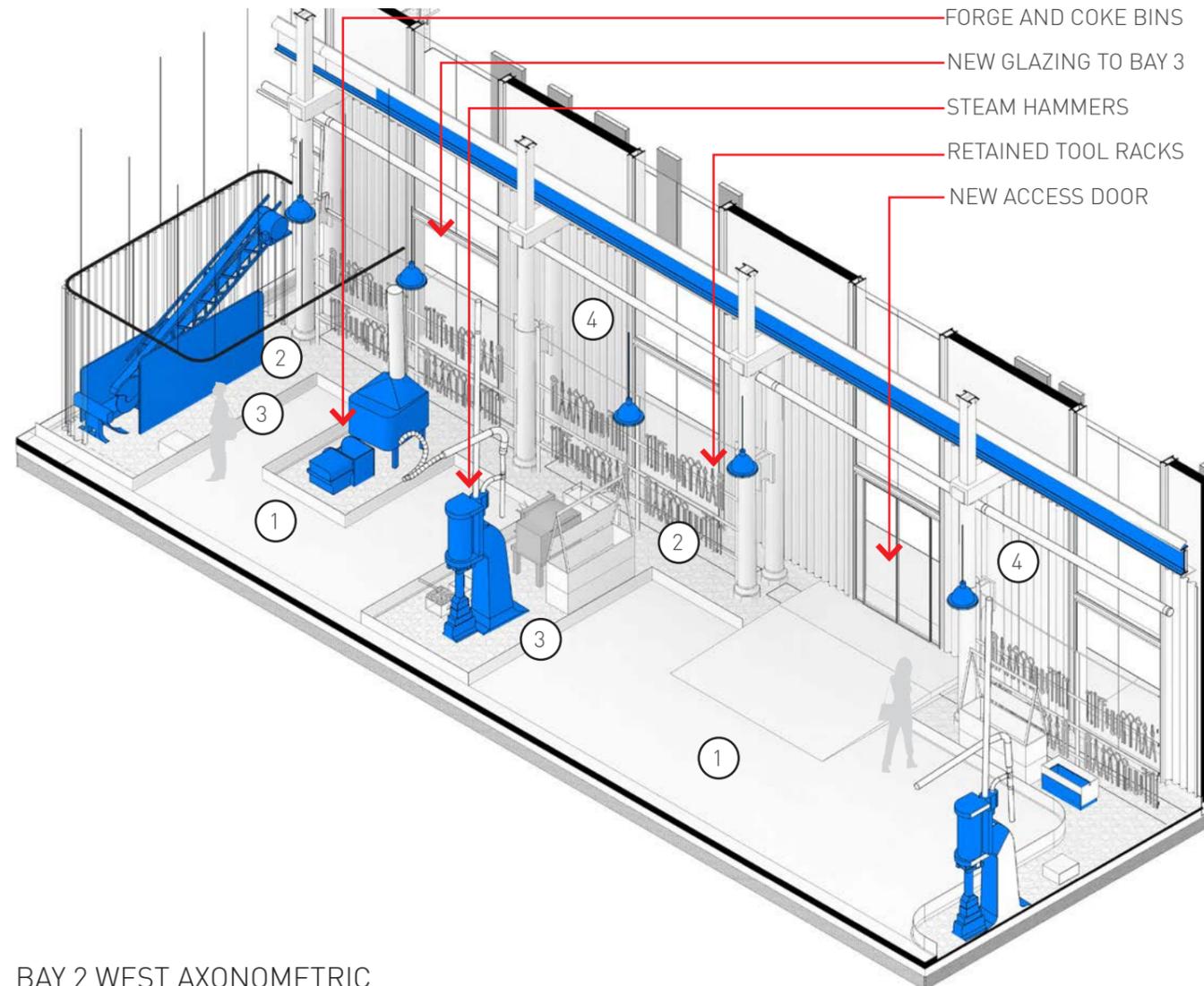
02.30 HYBRID RETAIL & EXHIBITION ZONE

BAY 2 WORKSTATIONS

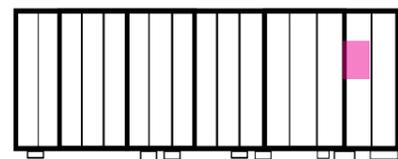
Integrated display design of each workstation showcases the key stories of each workstation. Low steel barriers act as protection to the machinery but do not interfere with the machinery display.

Large suspended drapery around the Hot metal circular saw creates a sense of surprise of "what's behind the curtain". Drawing reference to the canvas covers used by workers to conceal 'foreign orders'.

Up lighting to all machines- a distinct illumination that shows the raw materiality of each item.



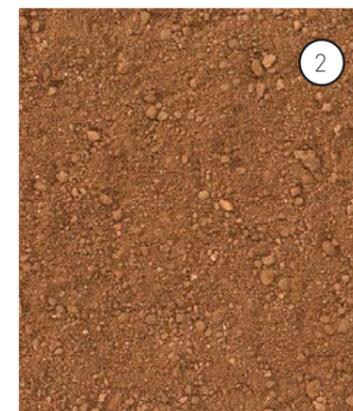
BAY 2 WEST AXONOMETRIC



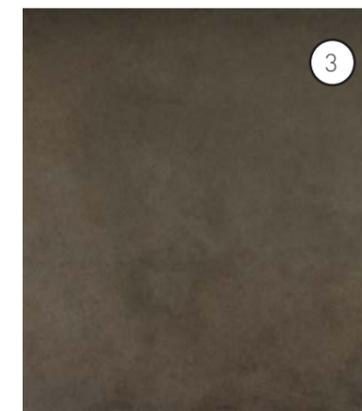
KEY PLAN



CONCRETE FLOOR WITH INLAYS



CRUSHED PINK GRANITE



METAL BARRIERS



CORRUGATED ACOUSTIC PANEL



01.40 HYBRID RETAIL & EXHIBITION ZONE BAY 1

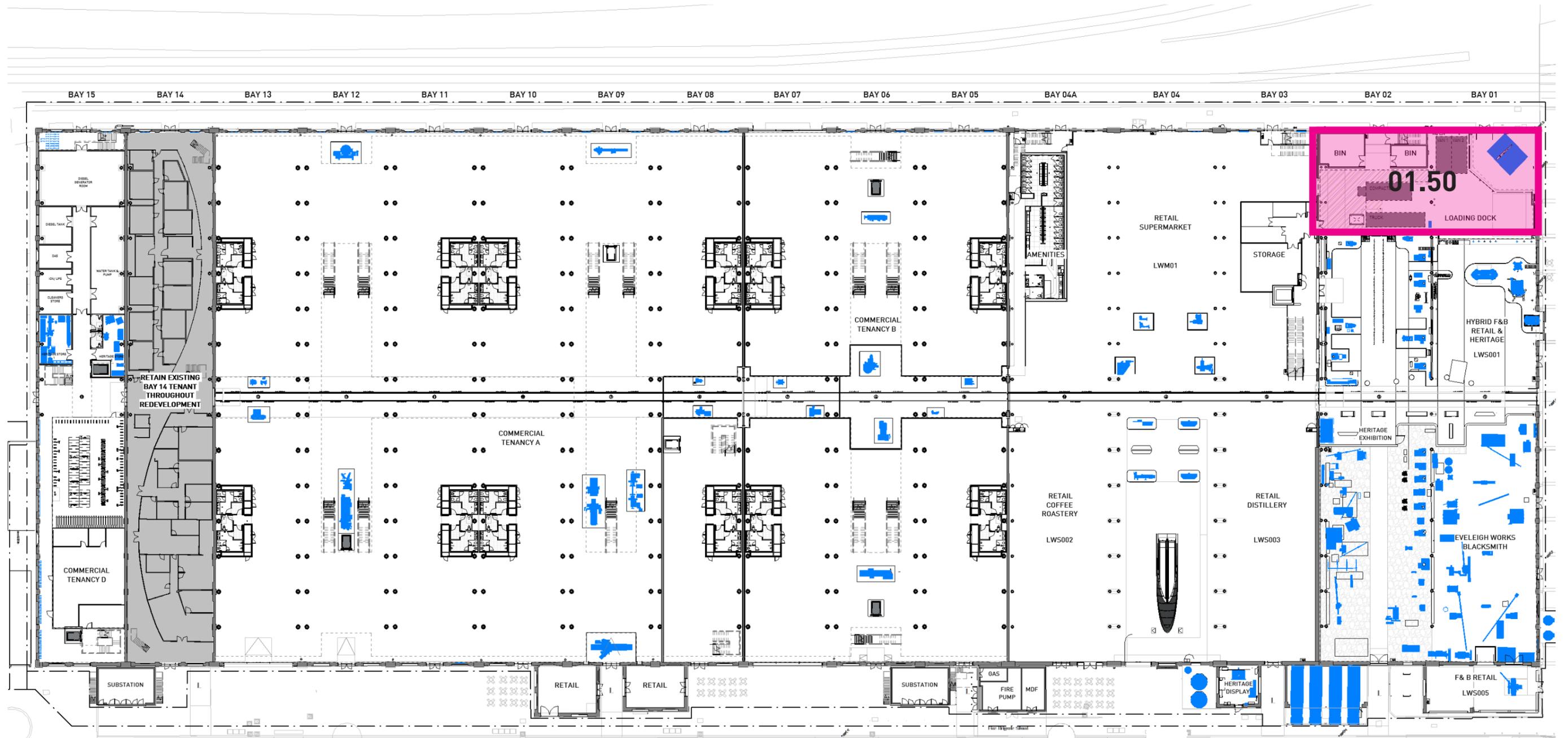


02.10 HYBRID RETAIL & EXHIBITION ZONE BAY 2

01.50 DAVY LOADING DOCK

1.50 DAVY LOADING DOCK

LOCATION PLAN - GROUND FLOOR



01.50 DAVY LOADING DOCK

AXONOMETRIC

The Loading Dock is a critical aspect to the functioning of the retail and exhibition Bays 1 - 4a. The Loading Dock's location reduces traffic access to Locomotive Street, creating a pedestrian friendly environment for visitors to the Workshops. Also having a short distance to the Cornwallis Street means delivery vehicles can quickly get in and out of the site.

It has been carefully planned to have a compact and efficient layout, reducing the overall footprint and impact to the public realm.

The new steel structure supporting the mezzanine over is set back from the Heritage masonry walls with critical junctions controlling acoustic and odour leakage into public spaces infilled with lightweight structure and sealants.

A significant heritage item the Davy Furnace, remains in-situ within the Loading Dock. A generous area surrounds it, which will be a unique display for it and select heritage items, clearly visible from the Hybrid retail zone and Davy Mezzanine exhibit zone over.

Deliberate design choices have been made to maintain a physical and conceptual connection to the rest of the Davy assemblage that it belongs to.

01.50 GLAZED CONNECTION FROM DAVY PRESS FURNACE

Glazing showing clear connection to the Davy furnace from Bay 1.

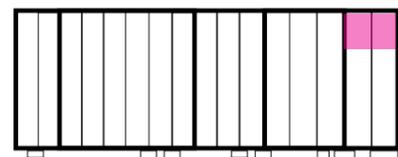
01.51 DAVY FURNACE PEN

Clear glazing protection around the Davy Furnace.

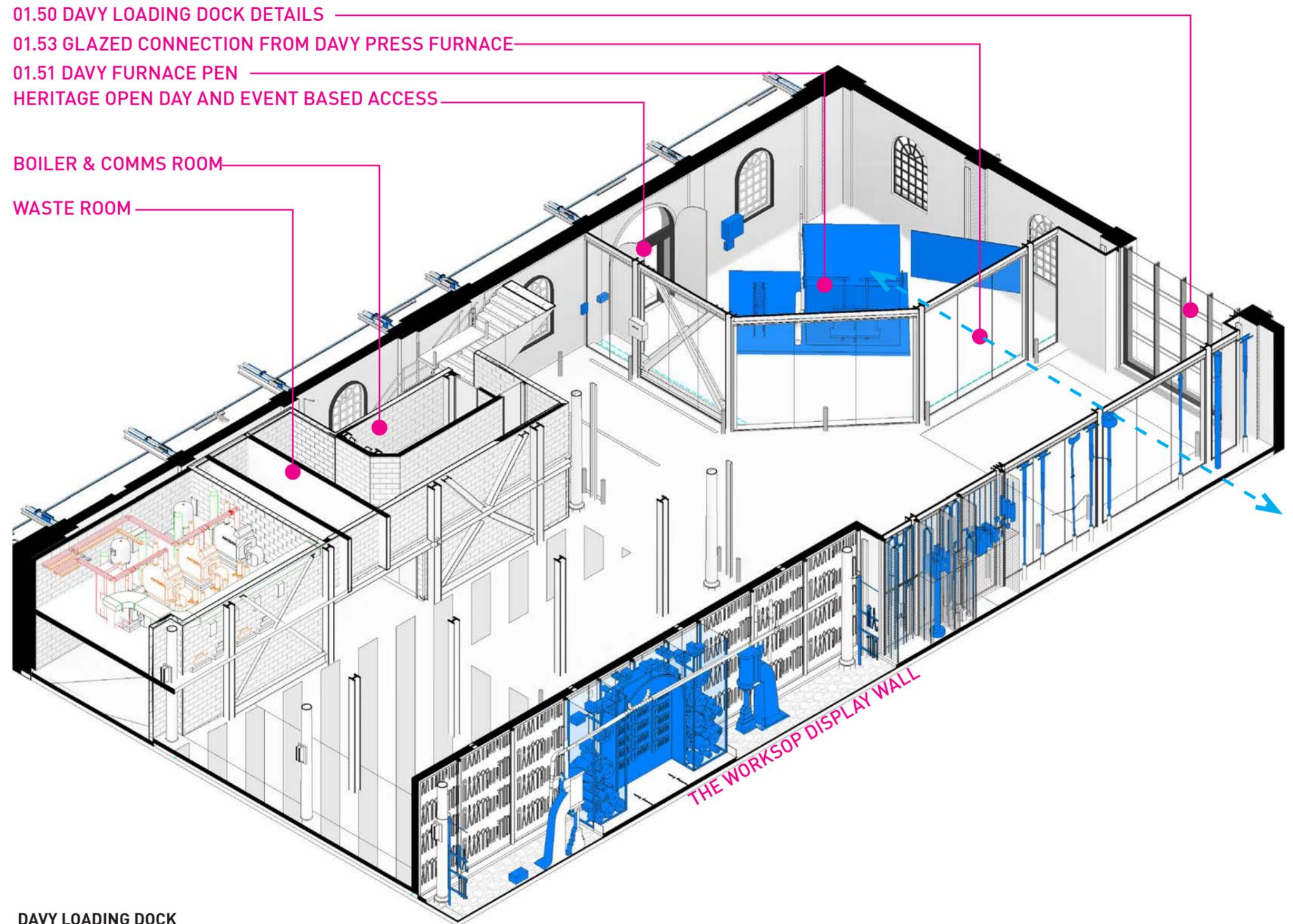
01.52 DAVY DOCK ACOUSTIC + LIGHTING PLAN

Controlled lighting will be used so as to create minimal visible impact and focus shall be on the Davy furnace. Illumination will be controlled when Bay 1 loading dock is not in use slowly illuminating when access is required.

Walls and ceilings are lined with acoustic panelling to assist with noise control from the loading dock.



KEY PLAN



DAVY LOADING DOCK

01.50 DAVY LOADING DOCK DETAILS

PLAN DETAILS

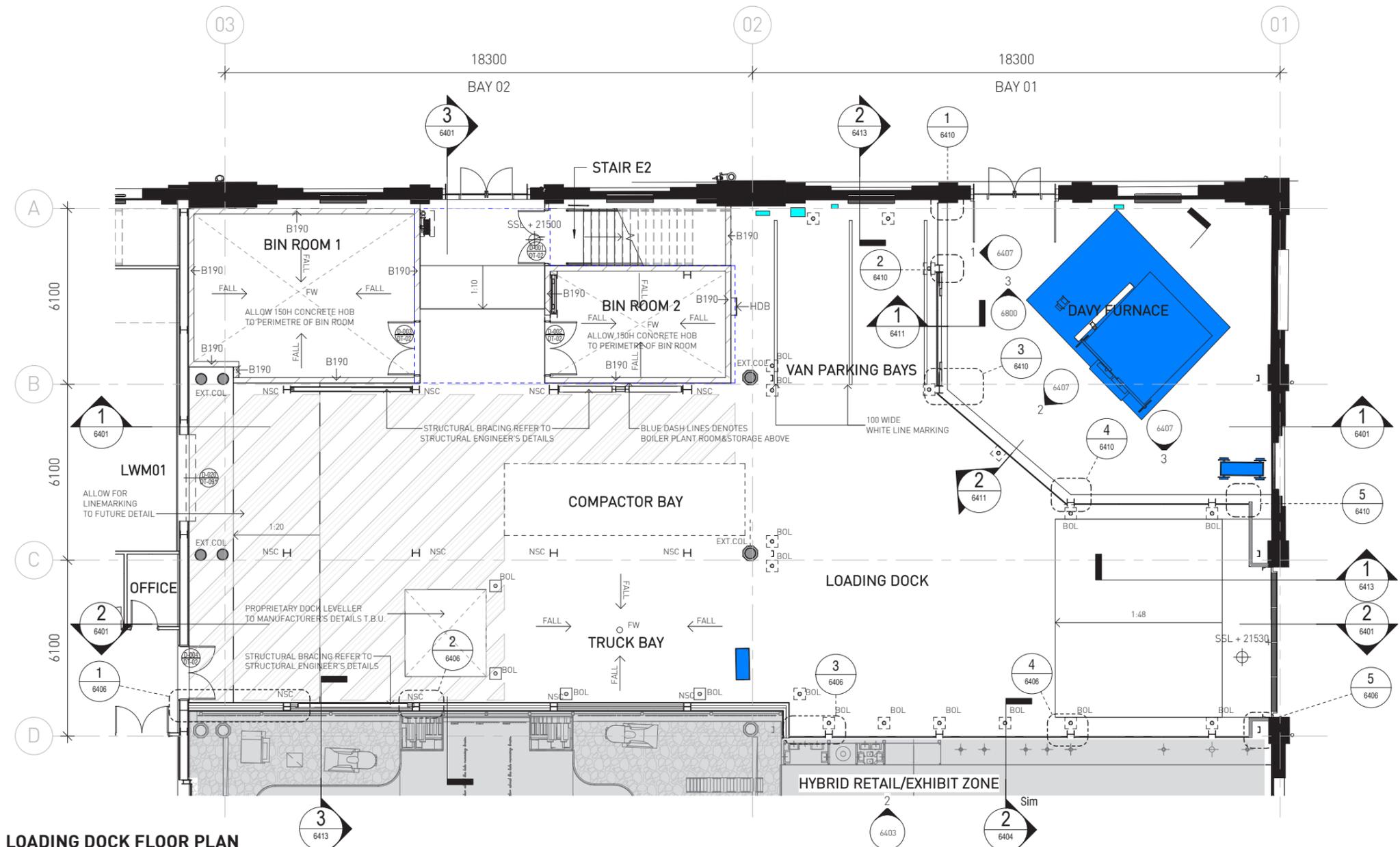
INTERNAL FINISHES

The Davy furnace Display will receive a new topping of crushed granite. The visible flooring from the Bays 1 & 2 Hybrid retail zone will be a honed concrete finish with clear sealant. Within the waste rooms an epoxy coating will be applied over the concrete slab.

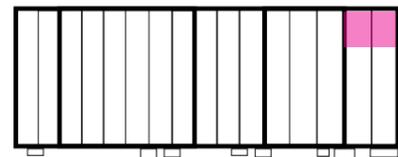
Within Bay 1 full height glazing walls with silicon joints, supported from the mezzanine structure enable the clear visible connection at ground level. All new structural steel has been left honestly exposed with a micaceous paint finish. Much effort has been made to locate any bracing elements out of sightlines. Bollards where possible align to structure or glazing joints to enhance the design aesthetic.

Within Bay 2 there is a combination of concrete block walls around waste rooms and with and light-weight structural walls dividing the Hybrid retail and Bays 3 - 4A from the Loading Dock. These will have a painted finish and galvanised corrugated steel sheet at low level where required as protection.

The structure over is exposed and painted with woodwool acoustic panels direct stuck to the underside of the slab to assist in controlling noise levels.



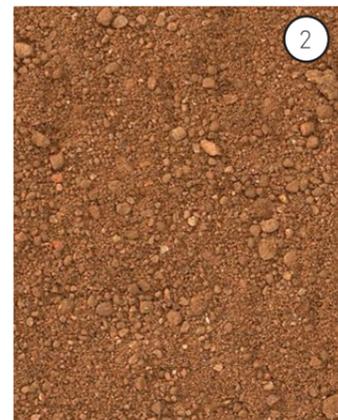
LOADING DOCK FLOOR PLAN



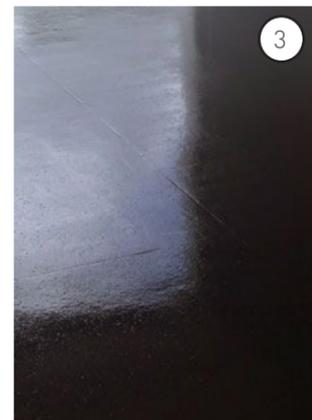
KEY PLAN



1 HONED CONCRETE FLOOR FINISH



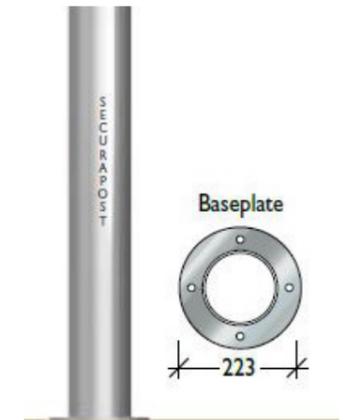
2 CRUSHED GRANITE FLOORING



3 WASTE ROOM EPOXY FLOORING



4 GALVANISED CORRUGATED STEEL SHEETING WALL PROTECTION

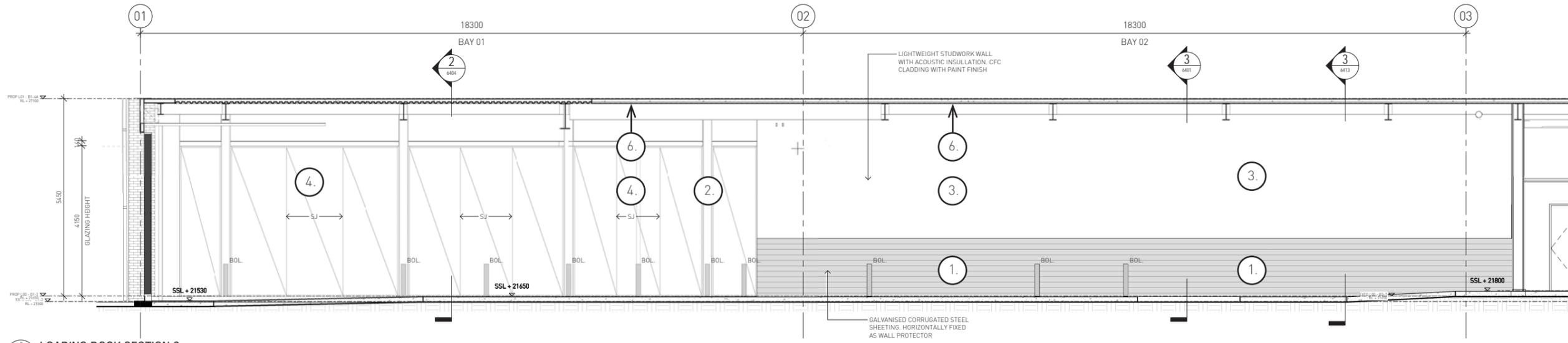


BOLLARD

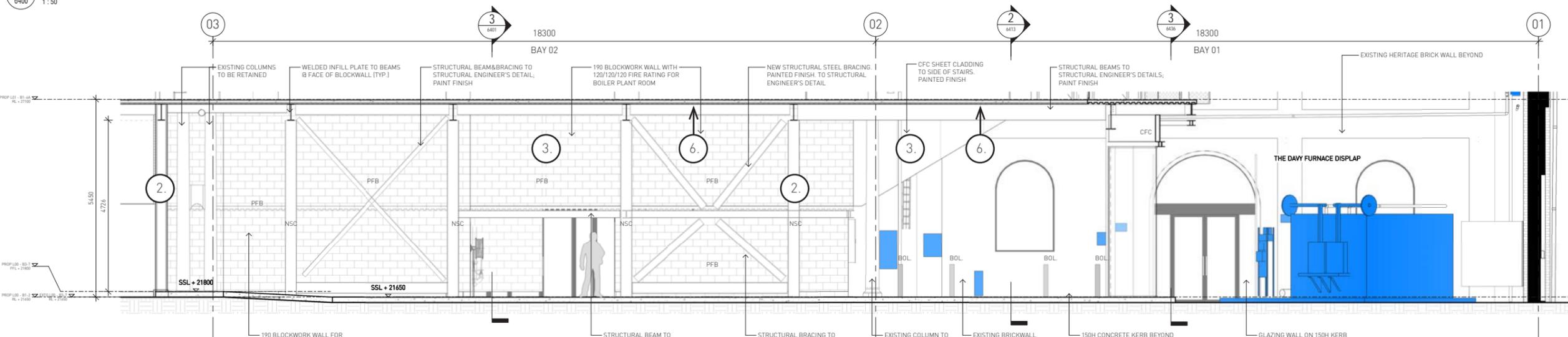


01.50 DAVY LOADING DOCK DETAILS

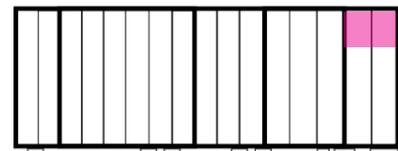
SECTION DETAILS



2 LOADING DOCK SECTION 2
6400 1:50



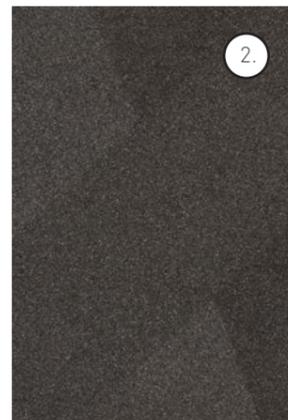
1 LOADING DOCK SECTION 1
6400 1:50



KEY PLAN



1. GALVANISED CORRUGATED STEEL SHEETING WALL PROTECTION



2. NEW STEEL MICACEOUS PAINT FINISH



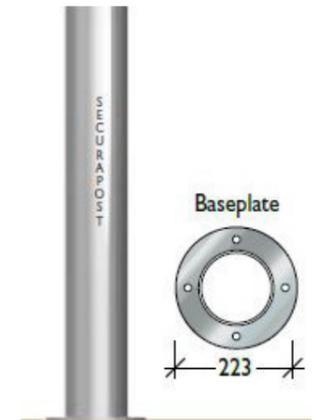
3. WALL PAINT FINISH



4. CLEAR FULL HEIGHT GLAZING



6. WOODWOOL ACOUSTIC PANEL



BOLLARDS

01.50 DAVY LOADING DOCK DETAILS

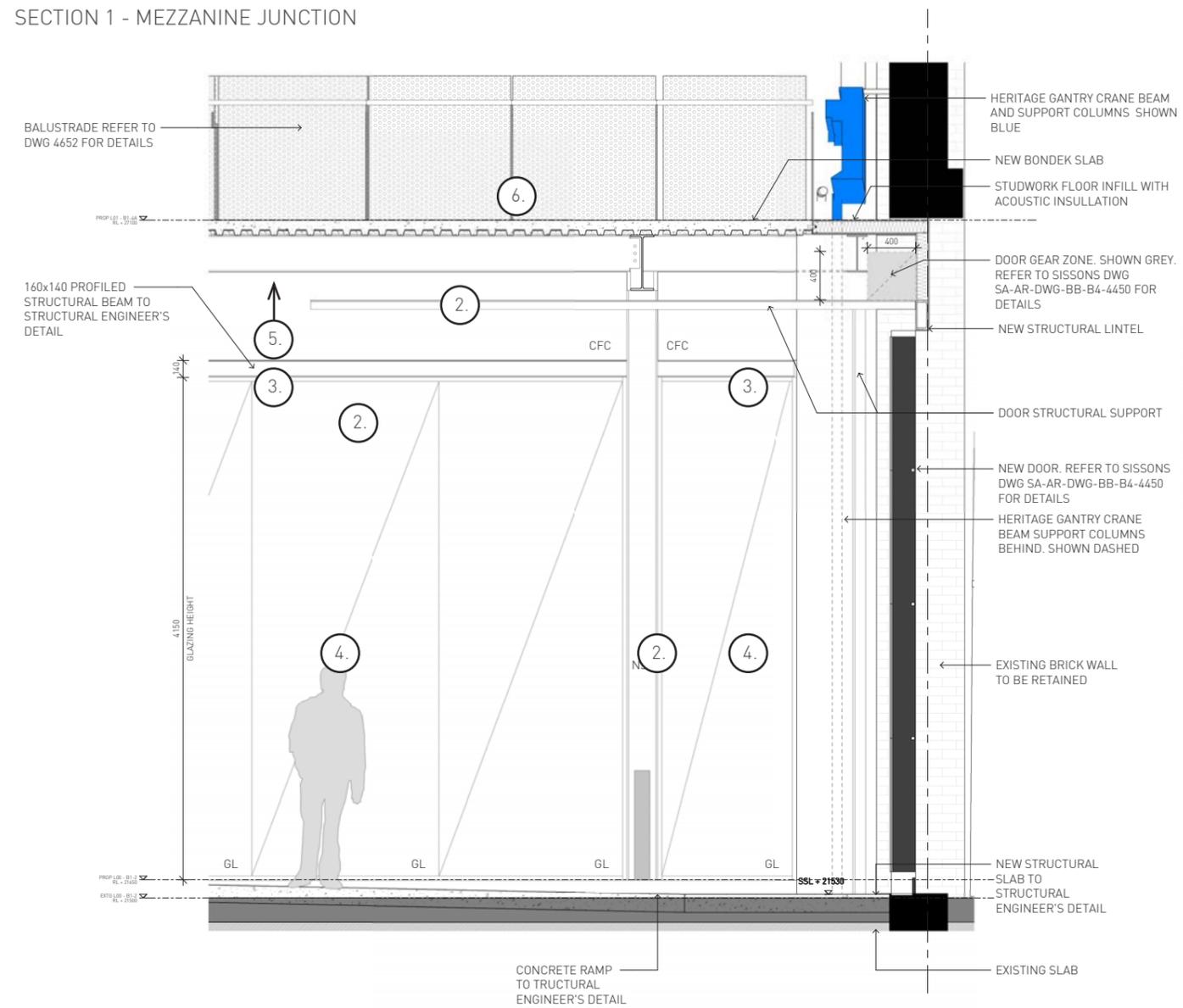
SECTION DETAILS

Section 1 describes the junction of the new structure of the Mezzanine over with the existing building and truck access point in Bay 1.

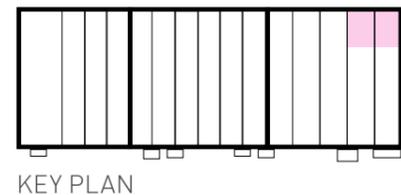
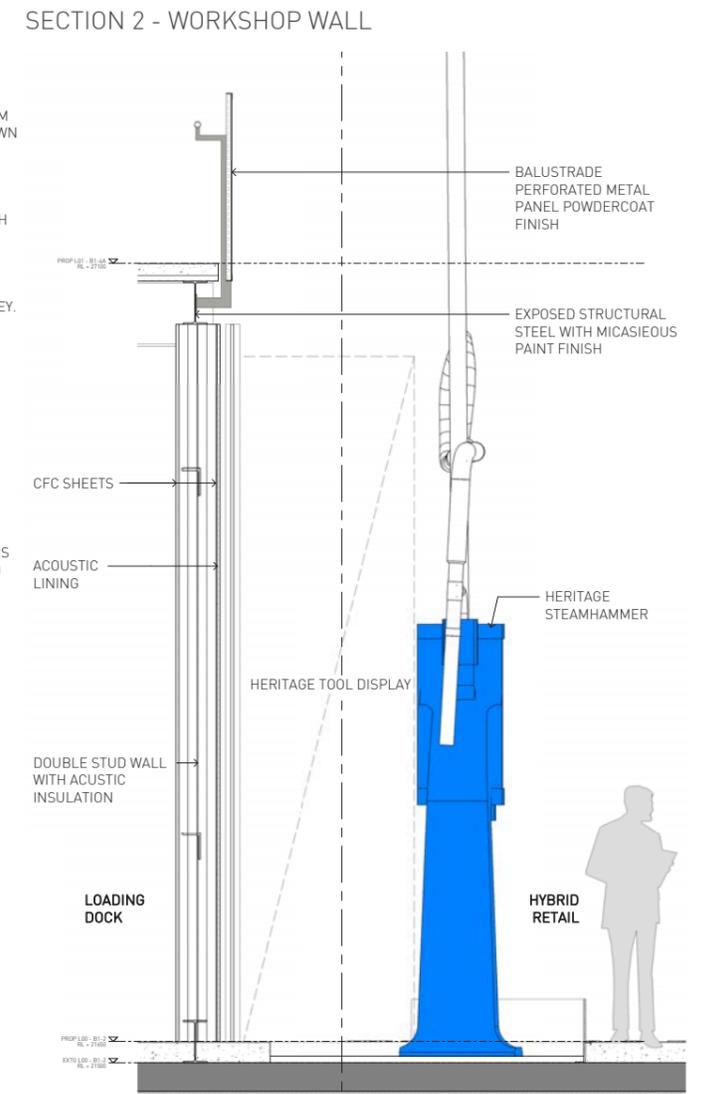
Light-weight stud walls carefully skirt the heritage columns and seal off the loading dock with removable elements. The structure is set below the heritage elements such as the gantry crane beam so that it can continue past the mezzanine to over the furnace as it is currently.

Section 2 describes the wall make up of the Workshop Display wall in Bay 2. It is a light-weight stud work wall with acoustic insulation. Set well clear of the heritage steam hammers. Structural elements that will support the tool display fix back into the mezzanine structure over.

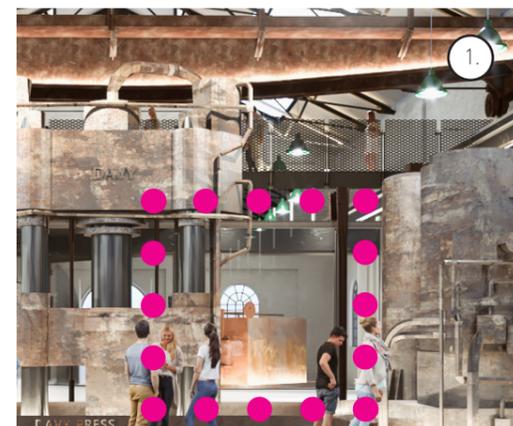
SECTION 1 - MEZZANINE JUNCTION



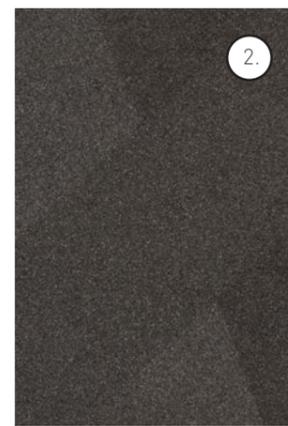
SECTION 2 - WORKSHOP WALL



KEY PLAN



GLAZED CONNECTION FROM DAVY PRESS



NEW STEEL MICACEOUS PAINT FINISH



WALL PAINT FINISH



CLEAR FULL HEIGHT GLAZING



WOODWOOL ACOUSTIC PANEL



PERFORATED STEEL BALUSTRADE

01.51 DAVY FURNACE PEN

AXONOMETRIC

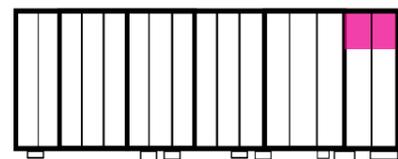
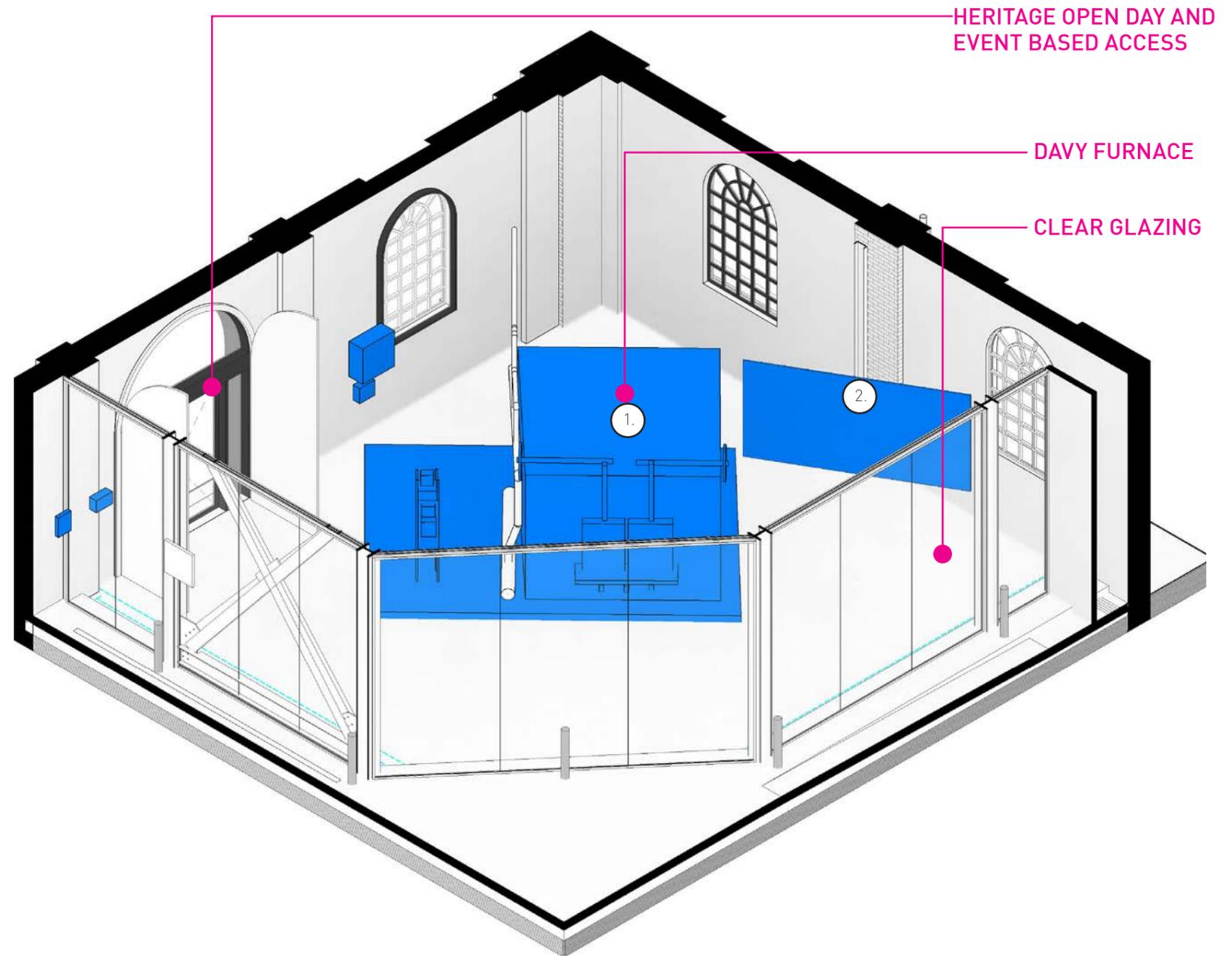
The Davy Furnace will be displayed along with other selected heritage items within the Davy Pen.

Access is provided through an original arched entry on the northern facade for maintenance and open day tours.

Clear full height glazing provides a strong visual connection back to the Davy Press and a large viewing void over gives users a unique Loco experience. Where they are elevated to a crane workers height to engage with the workshop in an immersive journey.

The surrounding heritage fabric will remain untouched as a softly illuminated backdrop to the celebrated Davy Furnace.

The furnace will be lit from below and above with the internal oven interpreted with a curated lighting installation that can be soft and en-flame to red at key moments during the day.



KEY PLAN



VOID CONNECTION



DAVY FURNACE: OIL FURNACE 4745 025



SAFETY SCREEN: 4745 271



01.51 DAVY FURNACE PEN

DESIGN DETAILS

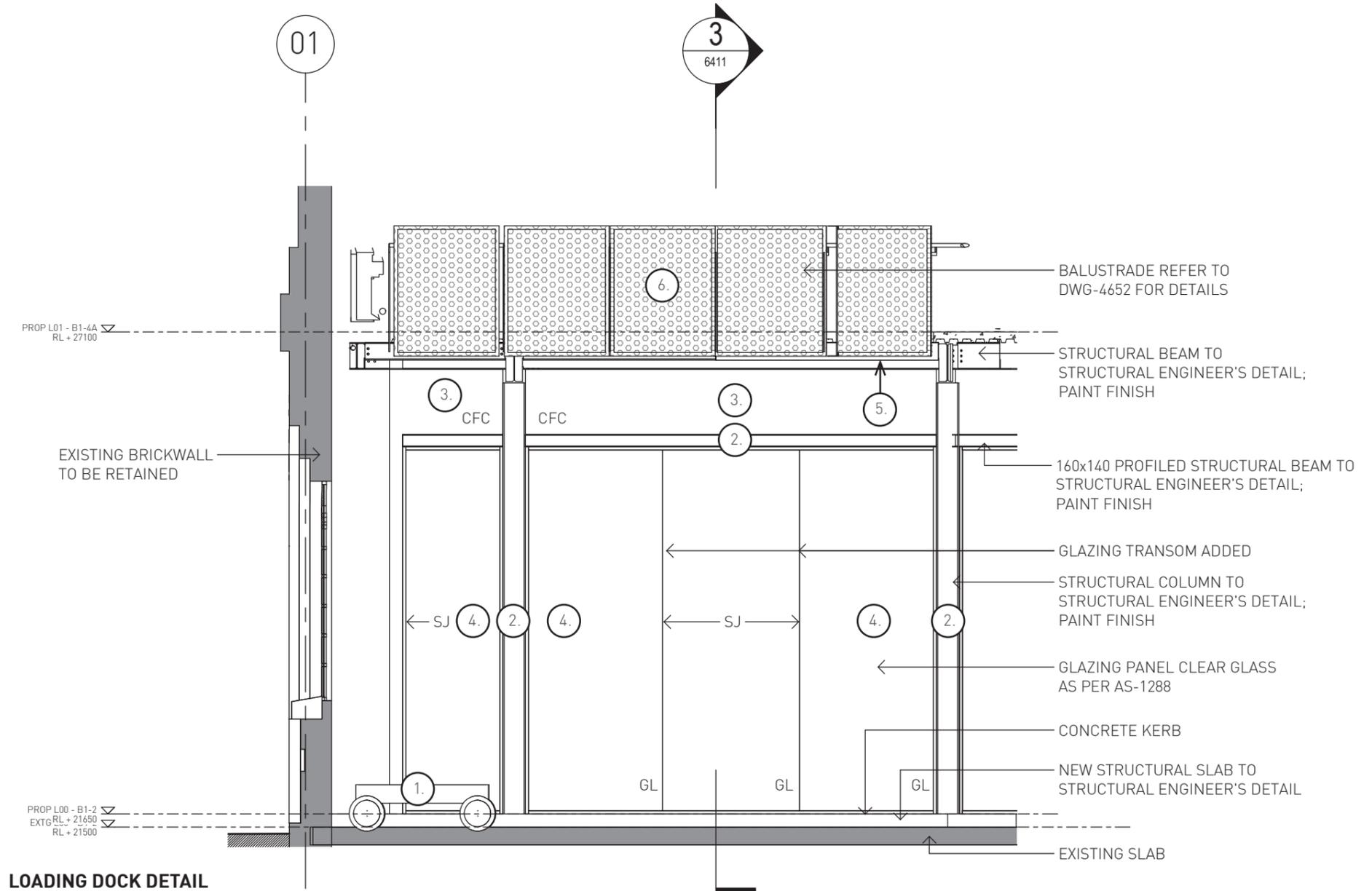
The Davy Furnace Pen is designed to maintain strong visual connections to the Davy Press. It also seals off odours and sound from the loading dock.

The plan responds to the furnace's location and building. Three new glass and steel walls that are slightly set back from the heritage brick walls, connected with light-weight infill.

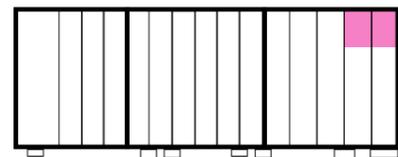
01.52 DAVY DOCK ACOUSTIC + LIGHTING PLAN

Controlled lighting will be used so as to create minimal visible impact and focus shall be on the Davy furnace. Illumination will be controlled when Bay 1 loading dock is not in use slowly illuminating when access is required.

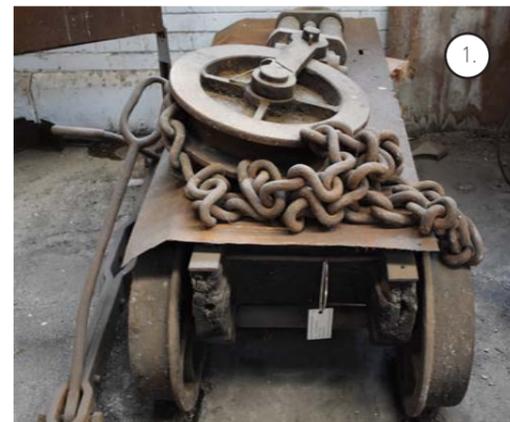
Walls and ceilings are lined with acoustic panelling to assist with noise control from the loading dock.



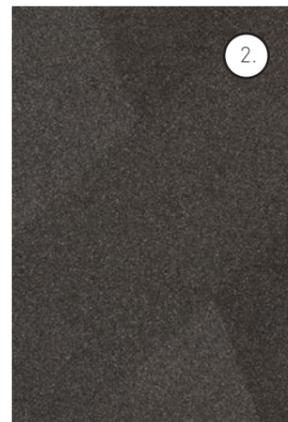
LOADING DOCK DETAIL



KEY PLAN



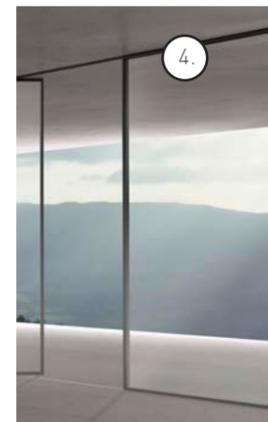
FOUR WHEELED TROLLEY 4745115



NEW STEEL MICACEOUS PAINT FINISH



WALL PAINT FINISH



CLEAR FULL HEIGHT GLAZING



WOODWOOL ACOUSTIC PANEL



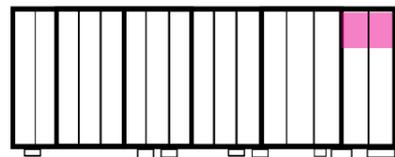
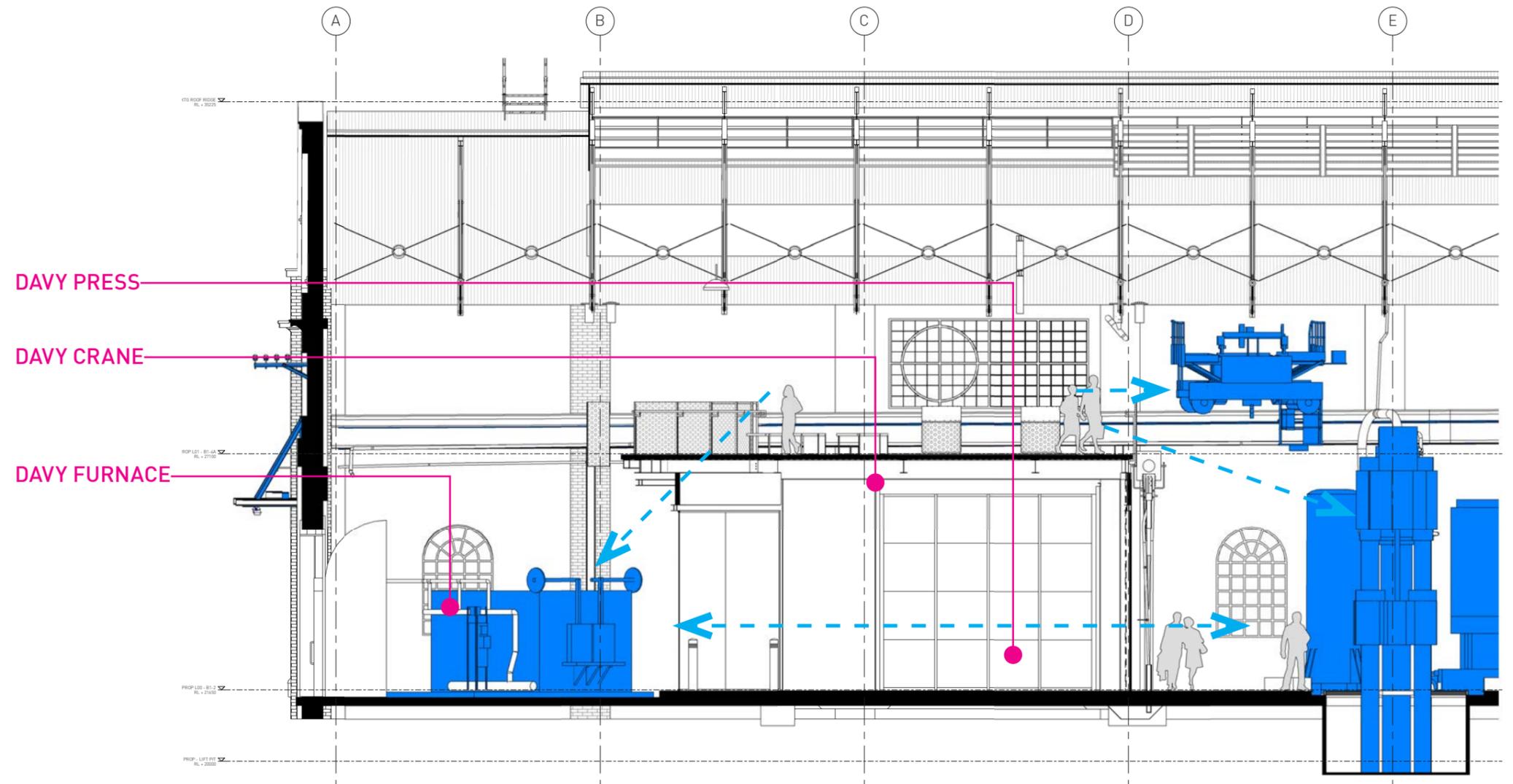
PERFORATED STEEL BALUSTRADE

01.53 GLAZED CONNECTION FROM DAVY PRESS TO FURNACE

STRENGTHENED CONNECTIONS

Connection of all three Davy items is maintained through the use of voids and clear glazing.

The mezzanine optimises this and creates a unique exhibition space with clear views to all of the Davy items.



KEY PLAN



DAVY PRESS



DAVY FURNACE



DAVY CRANE

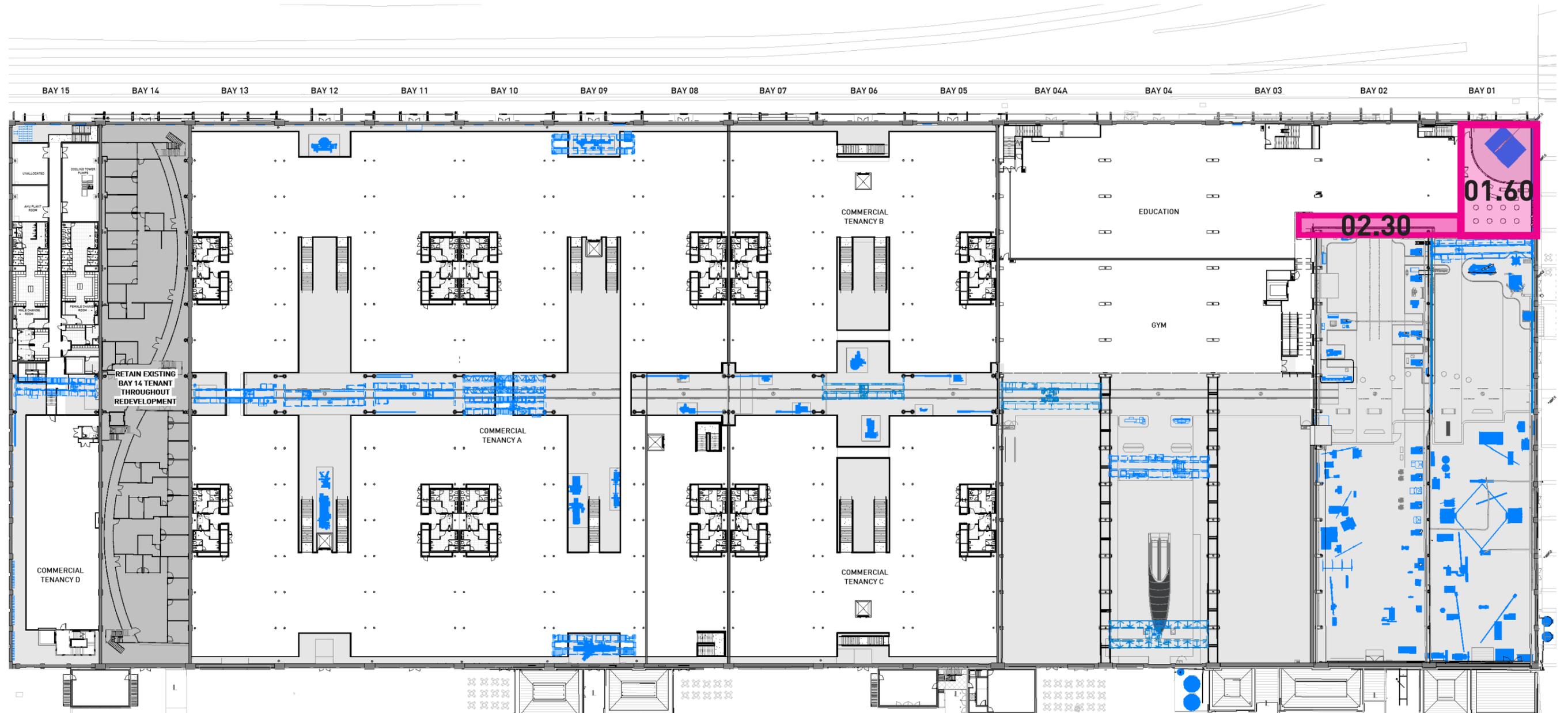


01.60 THE DAVY MEZZANINE EXHIBITION ZONE

02.30 MEZZANINE INTERPRETIVE WALKWAY

01.60 DAVY MEZZANINE EXHIBITION + 02.30 INTERPRETIVE WALKWAY

LOCATION PLAN - LEVEL ONE



01.60 DAVY MEZZANINE EXHIBITION + 02.30 INTERPRETIVE WALKWAY

AXONOMETRIC

01.60 - THE DAVY MEZZANINE EXHIBITION ZONE

This is an elevated experience in the Locomotive Workshops. The Davy Furnace Pen can be explored visually from a void that generously frames original heritage fabric, machinery and objects below.

The gantry crane has been repositioned between the Davy Press and the Mezzanine to provide an up close and personal encounter with this impressive example of industrial technology.

02.30 - THE MEZZANINE INTERPRETIVE WALKWAY

Access to the exhibit is made via the interpretive walkway that has touch-points both physical and digital such as VR goggles.

The walkway is accessed via the 'Boiler Shop Arches' creating a sense of suspense encouraging visitors to wonder "what is around the corner?" and "what's up there?".

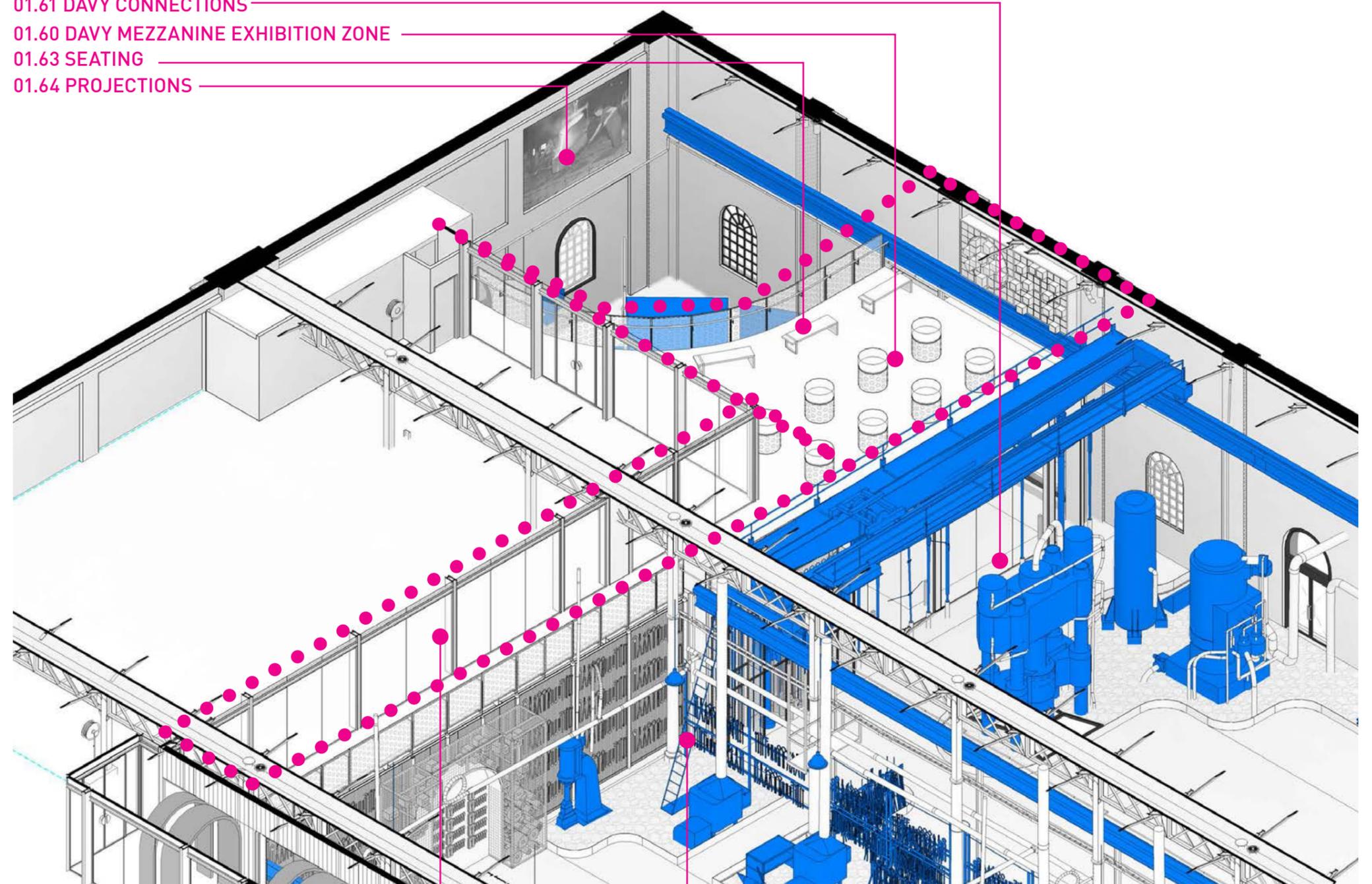
A horizontal band of perforated metal balustrade is also used to display plaques and have digital interaction points describing the workshops below.

01.61 DAVY CONNECTIONS

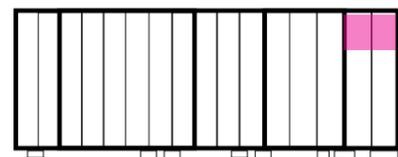
01.60 DAVY MEZZANINE EXHIBITION ZONE

01.63 SEATING

01.64 PROJECTIONS



INTERPRETIVE WALKWAY - VR GOGGLES AND AUDIO EXPERIENCES



KEY PLAN



01.62 DAVY CRANE LADDER
02.30 MEZZANINE INTERPRETIVE WALKWAY

01.60 DAVY MEZZANINE EXHIBITION ZONE

EXPERIENCES

A permanent display called the 'Curiosity Cases' is a series of draw like interactive boxes that will include the stories of individuals that represent the unique history of the Locomotive Workshops.

The exposed heritage brick wall will include audio-visual projections that can be tailored to the curated exhibits. With seating provided to sit and observe or admire the spaces large volume.



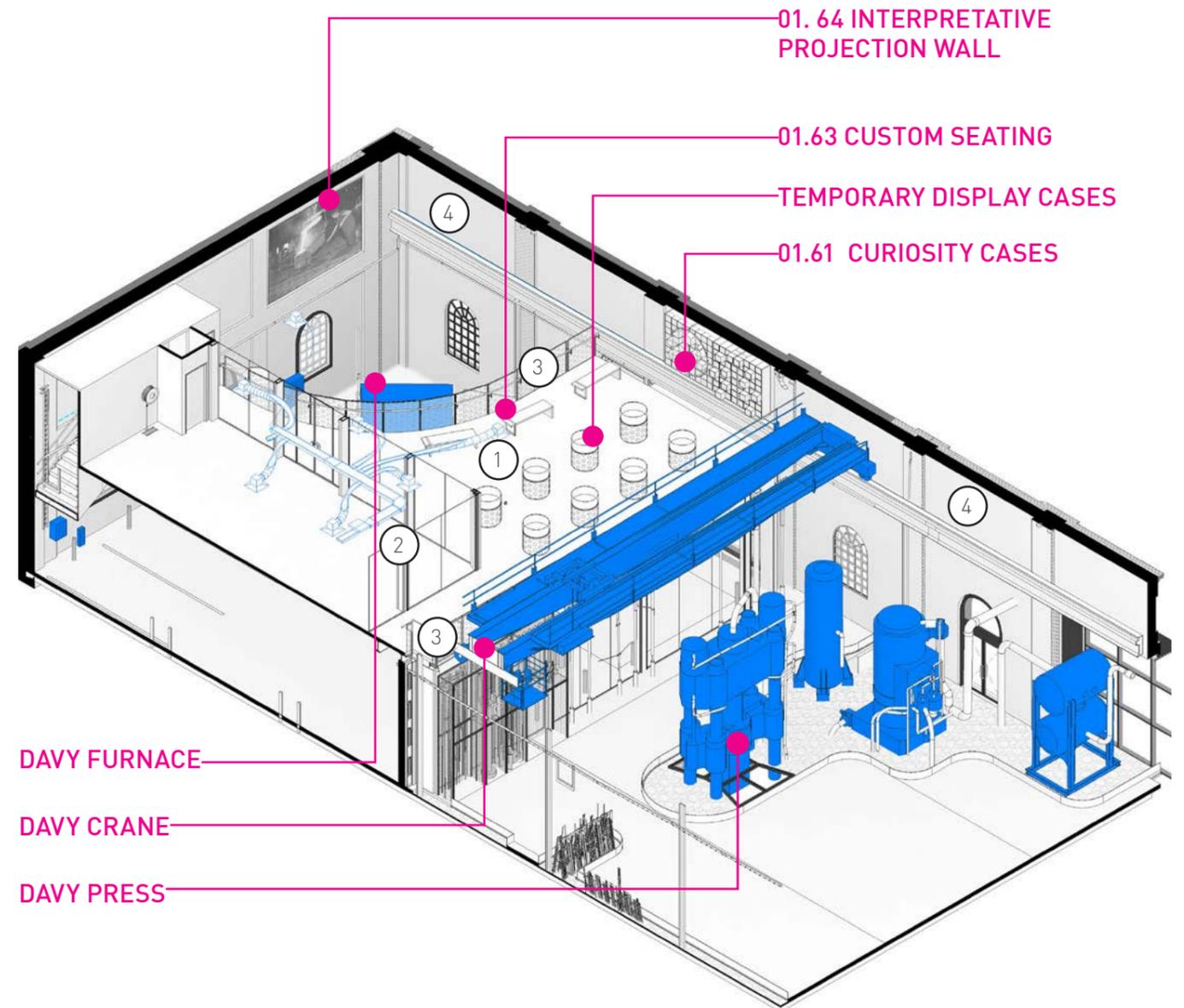
CURIOSITY CASES - REFERENCE IMAGE



TRAVELLING EXHIBITS - REFERENCE IMAGE



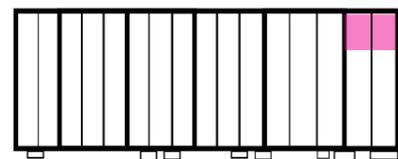
TEMPORARY EXHIBIT DISPLAY - REFERENCE IMAGE



DAVY FURNACE

DAVY CRANE

DAVY PRESS



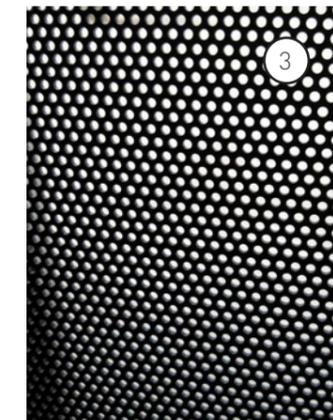
KEY PLAN



HONED CONCRETE FLOORING



NEW STEEL MICACEOUS PAINT FINISH



PERFORATED BALUSTRADE



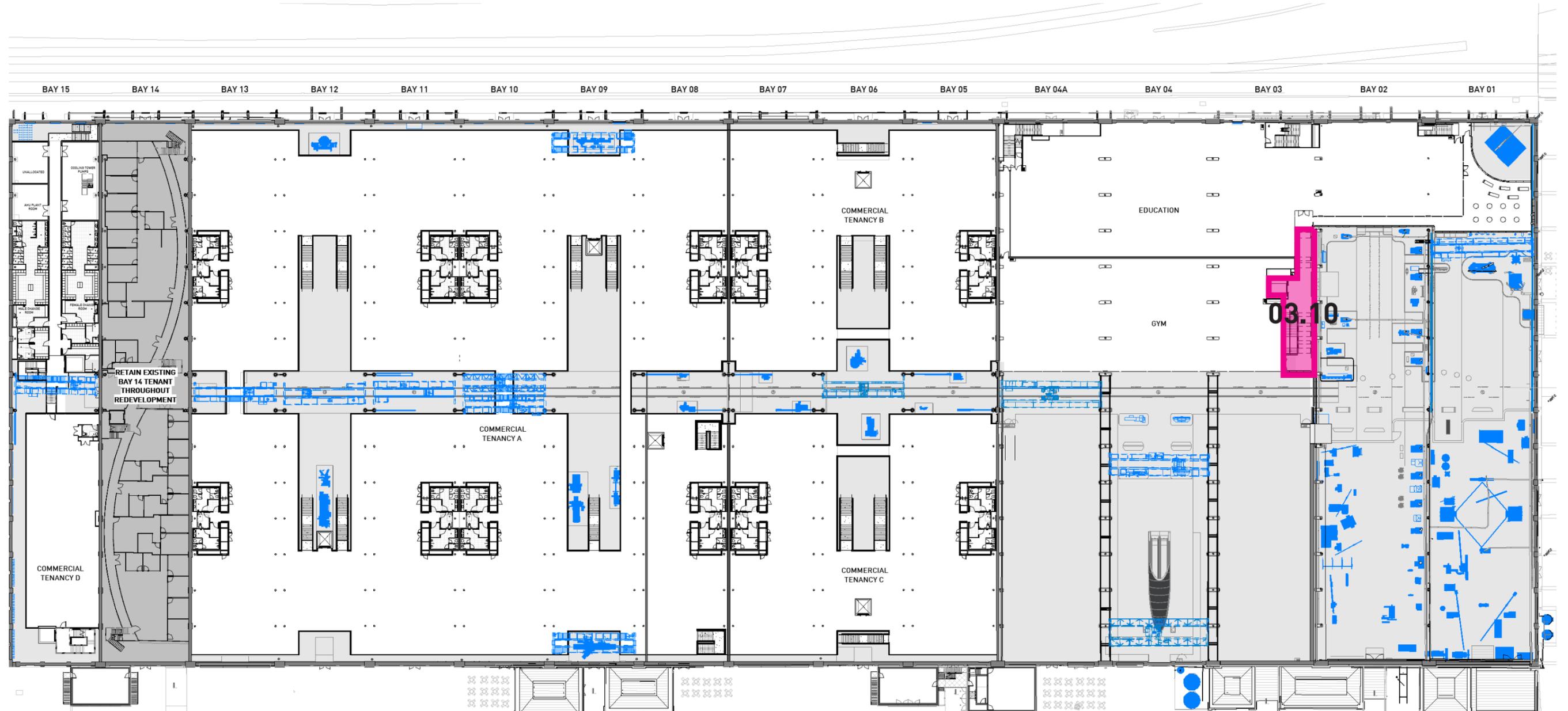
EXISTING HERITAGE BRICK

03.10 BOILER SHOP PASSAGE

03.20 BOILER SHOP ARCHES

03.10 - BOILER SHOP PASSAGE + 3.20 - BOILER SHOP ARCHES

LOCATION PLAN - LEVEL ONE



03.10 - BOILER SHOP PASSAGE + 3.20 - BOILER SHOP ARCHES

AXONOMETRIC

THE BOILER SHOP PASSAGE

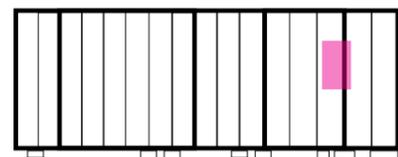
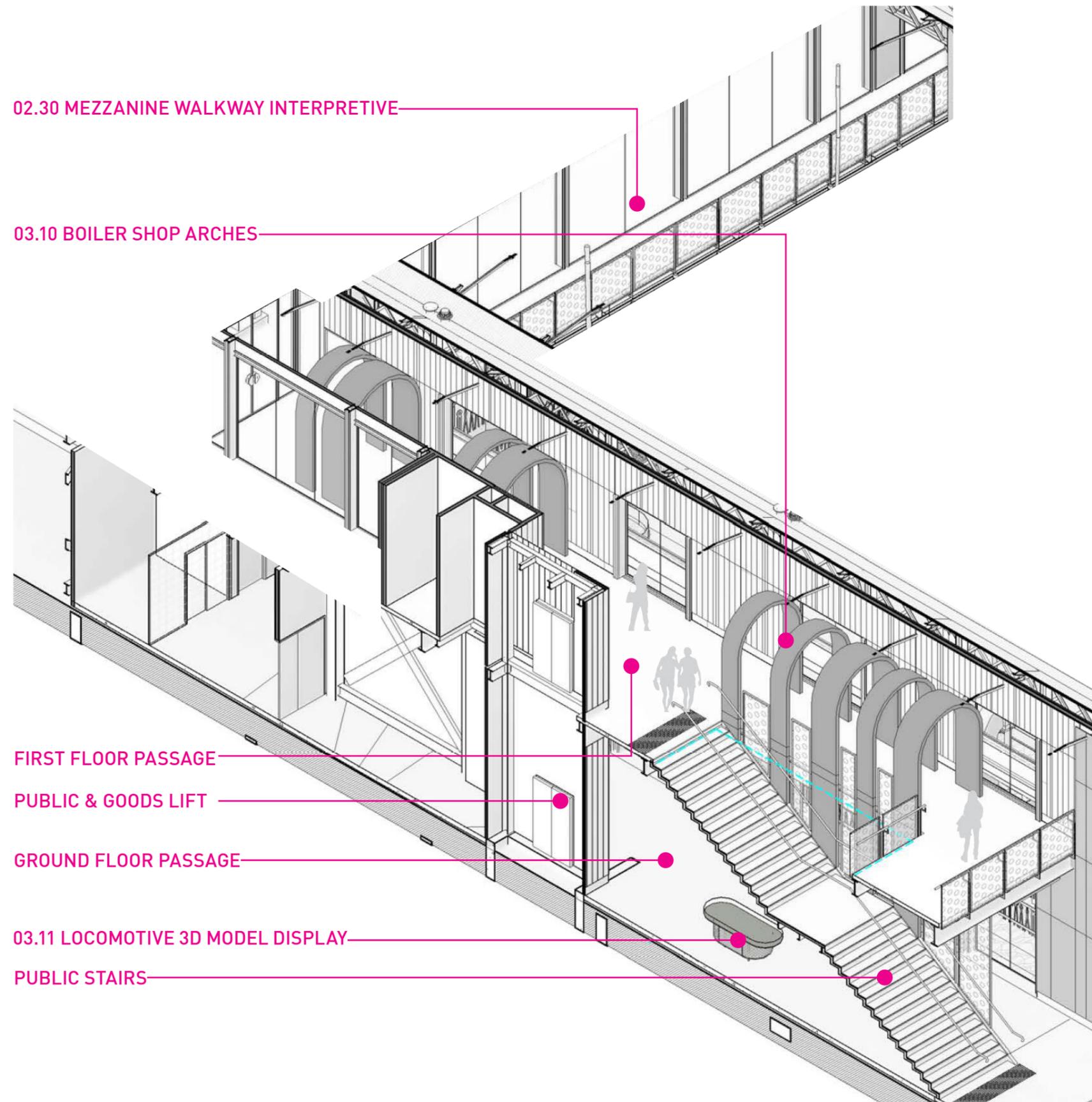
Double height glazed fenestrations provide framed views between Bays 1 and 2 into Bays 3 - 4A. Reinstating the formally lost visual connection between bays and creating a sense of permeability.

The passage covers both ground floor and level one. At ground, under the stairs a large area will house a 3D model display of a locomotive and have material that helps users discover the history of the building through its many uses.

On first floor an interpretive tunnel will have a combination of digital and replaceable historic content.

THE BOILER SHOP ARCHES

The form of the arches is taken from the heritage neoclassical arched windows and doors of Locomotive workshops. It has been extruded and repeated to form an interpretive tunnel that connects the public stairs up to the Mezzanine retail and exhibition zone. They are visible through the new glazed fenestrations in Bays 1 and 2 so as to evoke intrigue. Inviting the public up to the mezzanine to explore.



KEY PLAN



03.10 - BOILER SHOP PASSAGE + 3.20 - BOILER SHOP ARCHES

GROUND PLAN

This passage serves as the retail bays vertical circulation and as such, the design supports the overall interpretation plan by capturing visitors to the site.

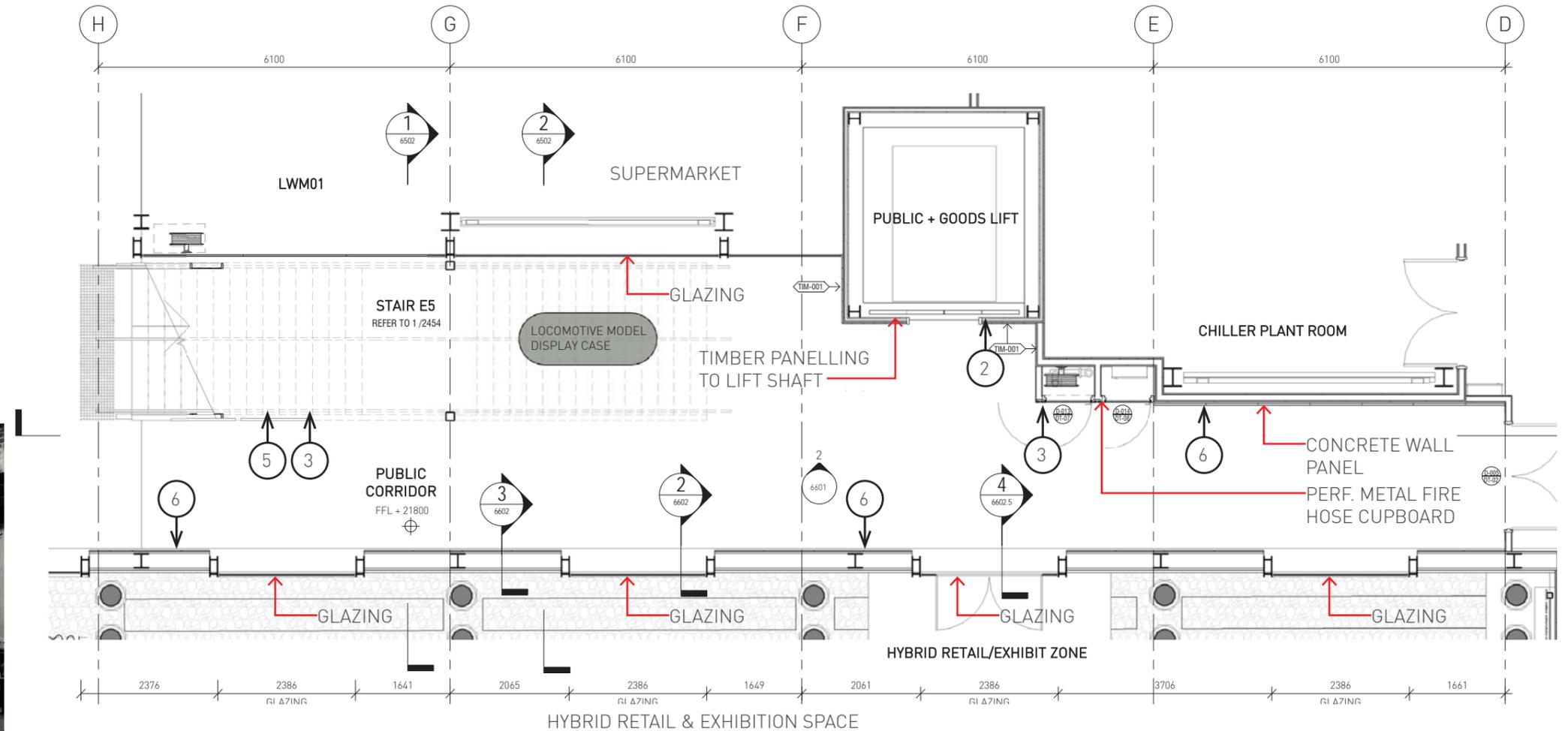
A display under the stairs will include a 3D locomotive model demonstrating the components made and repaired at the Locomotive Workshops.

The wall dividing Bays 2 and 3 steps in and out to allow for interpretation text to be placed on the glazing looking into Bays 1 and 2. The steps in provide a invitation to step out of the circulation zone and take the workshops history in.

Full height glazing into the supermarket encourages customers to engage with the heritage displays within sight.



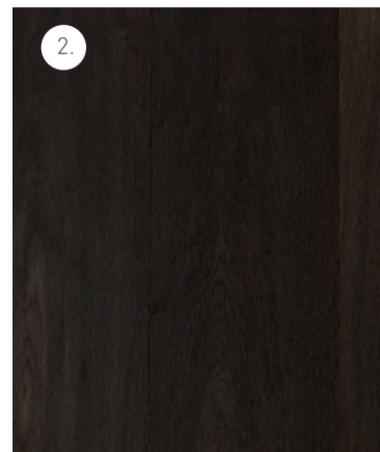
LOCOMOTIVE REFERENCE IMAGE



KEY PLAN



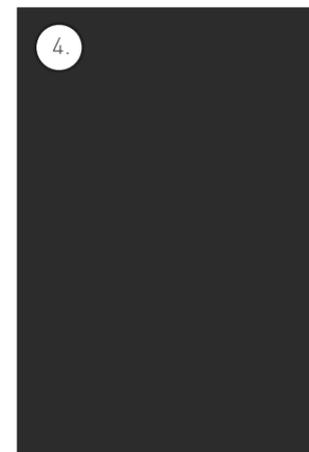
1. AGED BRASS



2. TIMBER PANELLING OTTA



3. PERFORATED METAL SHEET



4. DULUX BLACK ACE POWDER COAT



5. ARCHES - PIGMENTO ZINC



6. CONCRETE WALL PANEL

03.10 - BOILER SHOP PASSAGE + 3.20 - BOILER SHOP ARCHES

DESIGN + DETAILS

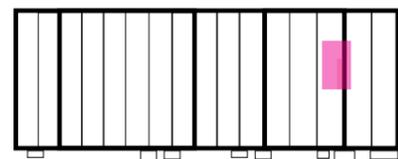
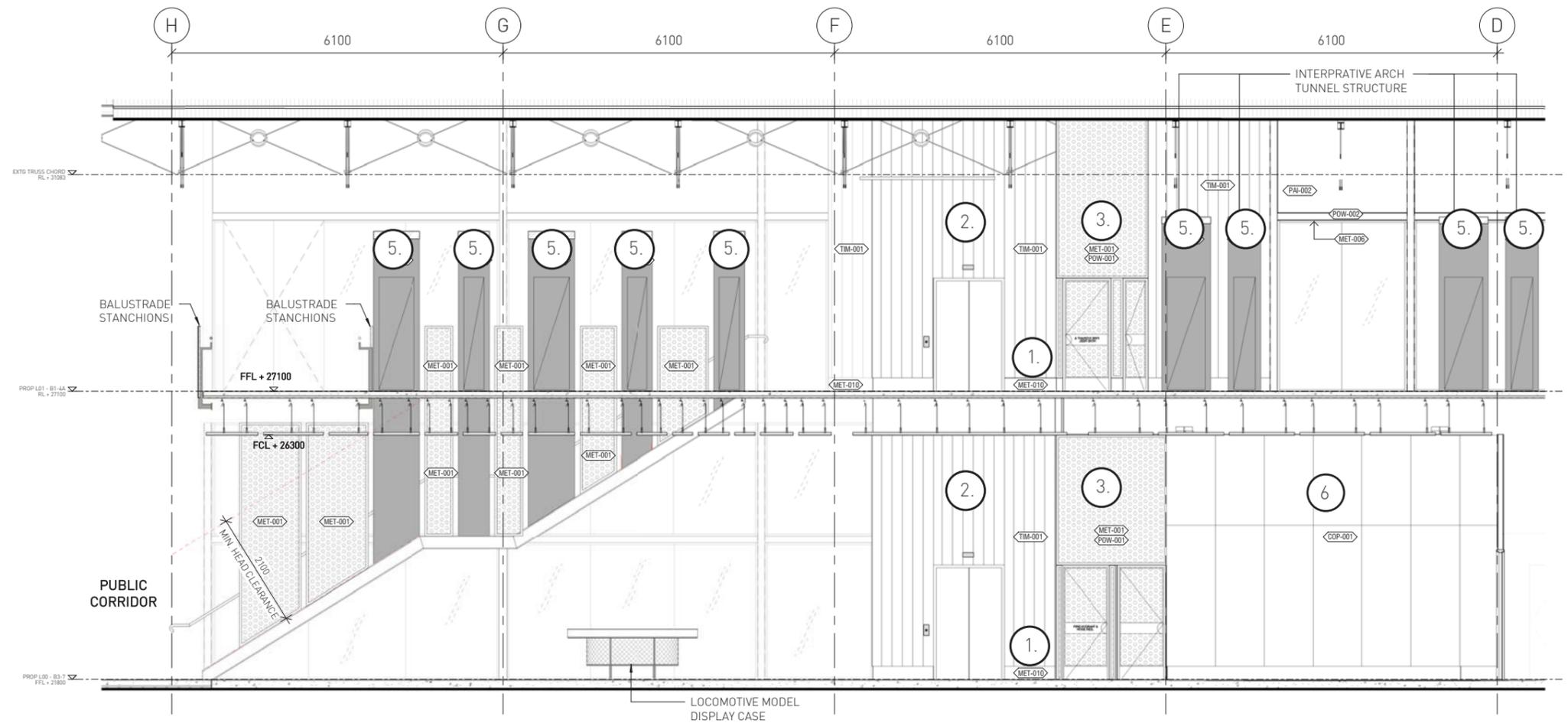
The strong form of the arches helps to create moments of smaller human scale exhibition spaces along the passage.

Simple, refined lines and detailing interacts with the heritage roof and trusses over as the repeated forms break rhythmically.

Timber panelling along the first floor wall evokes the senses and creates a contrasting depth and warm to the heritage fabric.



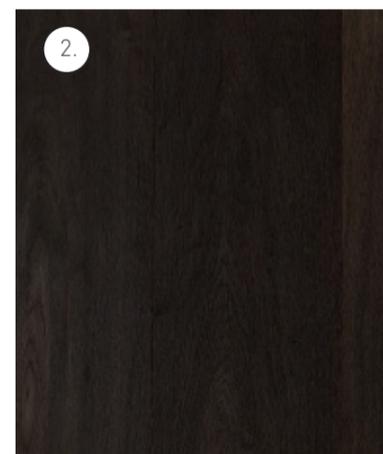
DAMIÃO DE GÓIS MUSEUM AND THE VICTIMS OF THE INQUISITION, PORTUGAL



KEY PLAN



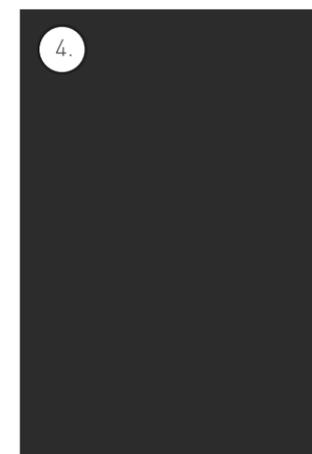
1. AGED BRASS



2. TIMBER PANELLING OTTA



3. PERFORATED METAL SHEET



4. DULUX BLACK ACE POWDER COAT



5. ARCHES - PIGMENTO ZINC

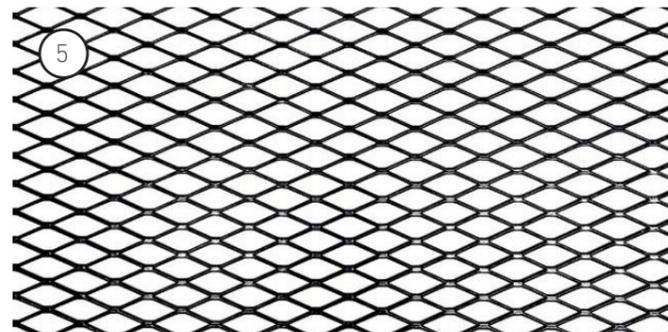


6. CONCRETE WALL PANEL

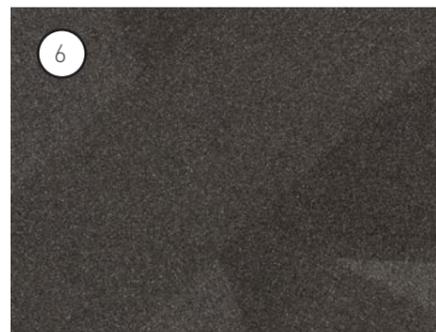
03.20 BOILER SHOP ARCHES

DESIGN + DETAILS

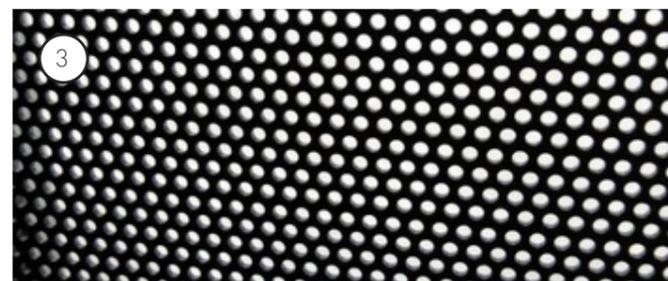
The stair to level one is carefully finished with contemporary, industrial, materiality. The transition from ground to level one forms an immersive experience as guests move through the passage way of the arches.



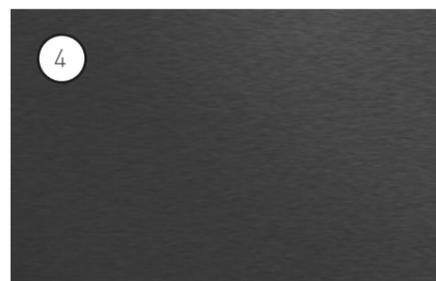
EXPANDED STEEL CEILING PANEL



MICACEOUS PAINT - NEW STEEL



PERFORATED METAL SHEET BALUSTRADES



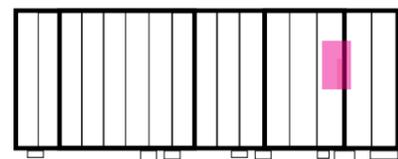
PIGMENTO - ZINC ARCHES



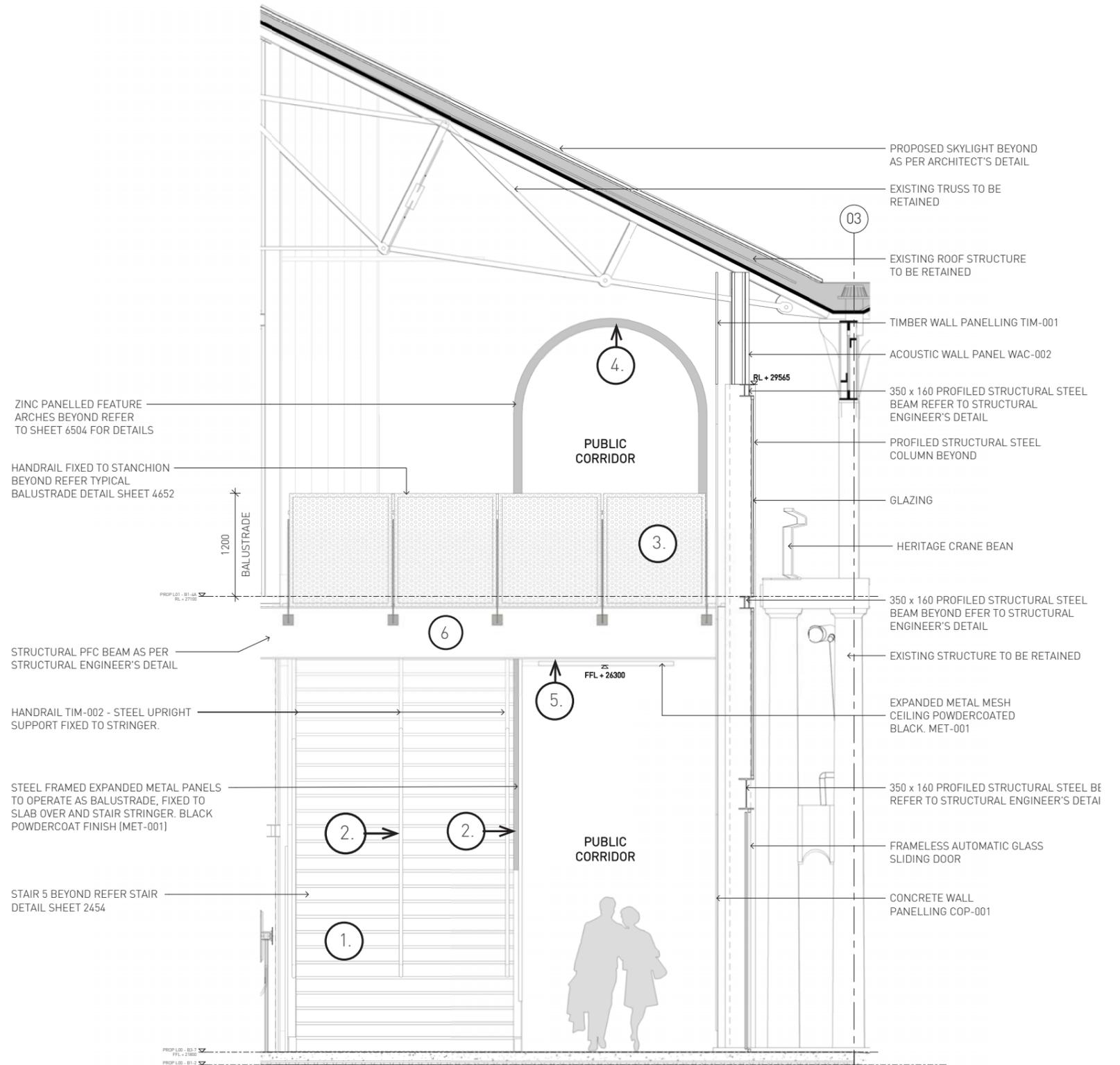
CONCRETE FLOOR STEPS



TIMBER HANDRAIL



KEY PLAN



FEATURE ARCH DETAIL SECTION - THROUGH THE ARCH RETURN

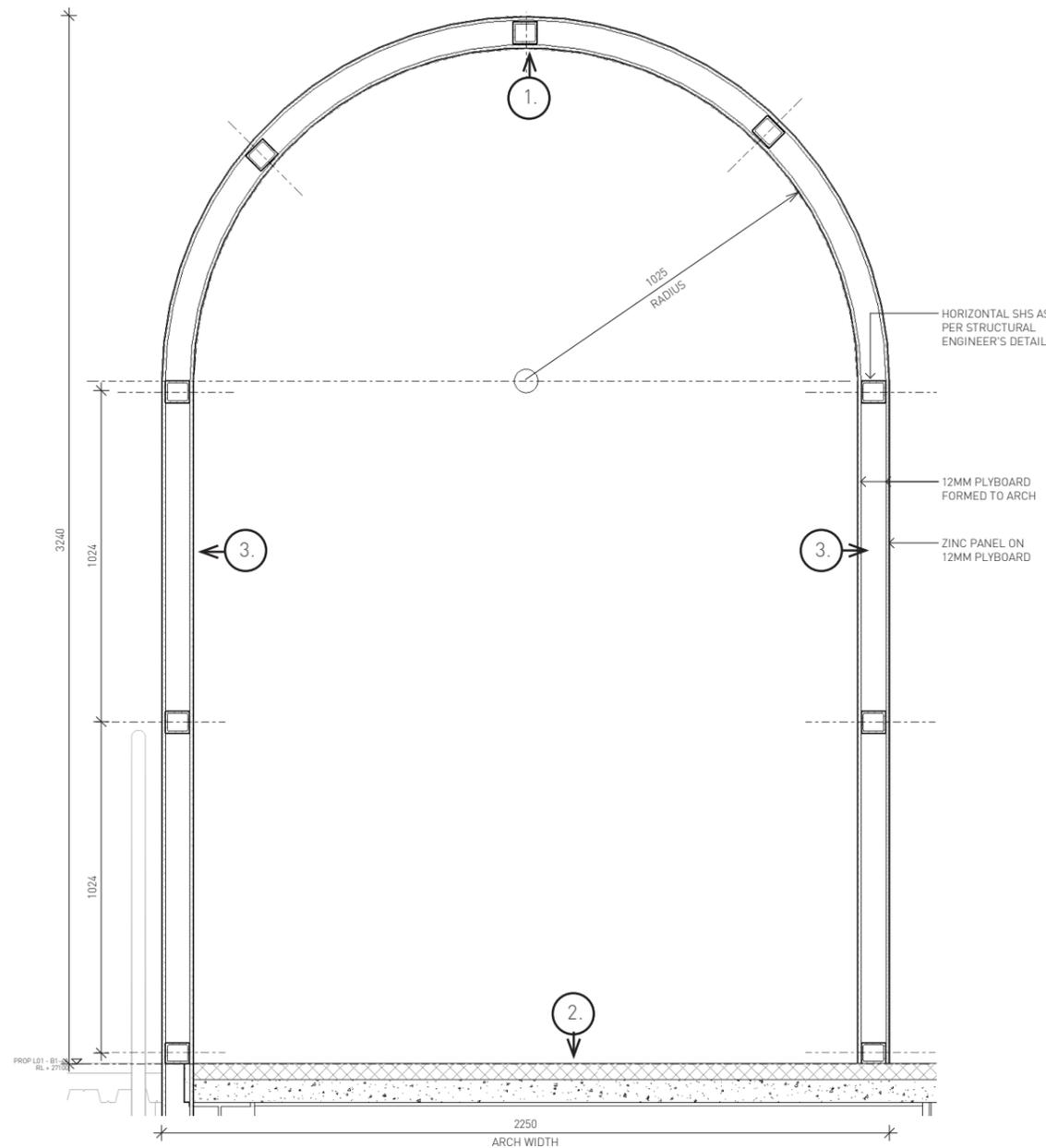
03.20 BOILER SHOP ARCHES

DESIGN + DETAILS

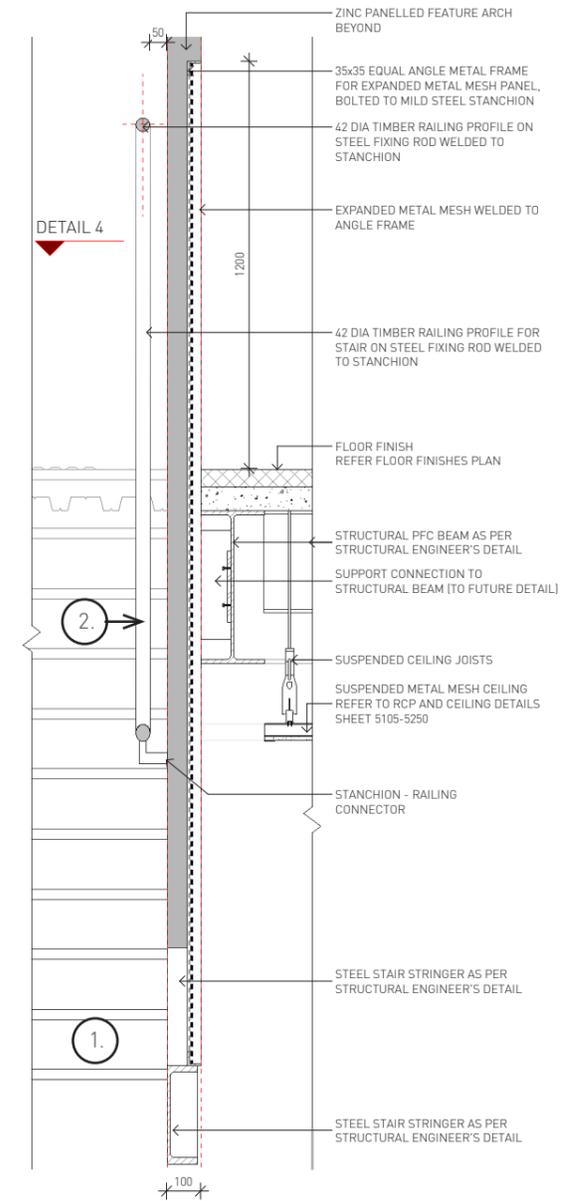
The archways are lined with zinc and plaques, photographs and audio is fixed to the lineal supports. Offering an encounter which encourages audio, digital and visual content. The arch design has strong reference to the original building. The zinc linings clearly distinguish the new materiality of new elements whilst blending with the raw and historic fabrications of the building.



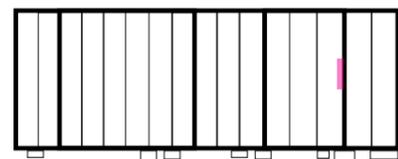
ARCHWAY INTENTION



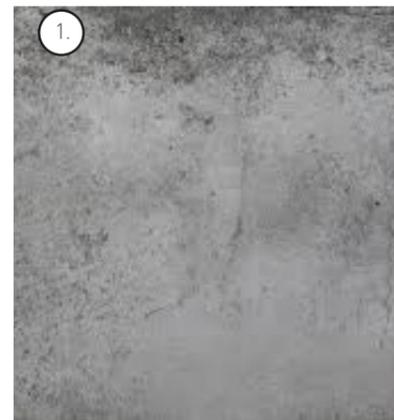
FEATURE ARCH DETAIL SECTION



STAIR & MESH BALUSTRADE DETAIL SECTION



KEY PLAN



CONCRETE FLOOR



PIGMENTO ZINC



CONTENT DISPLAY



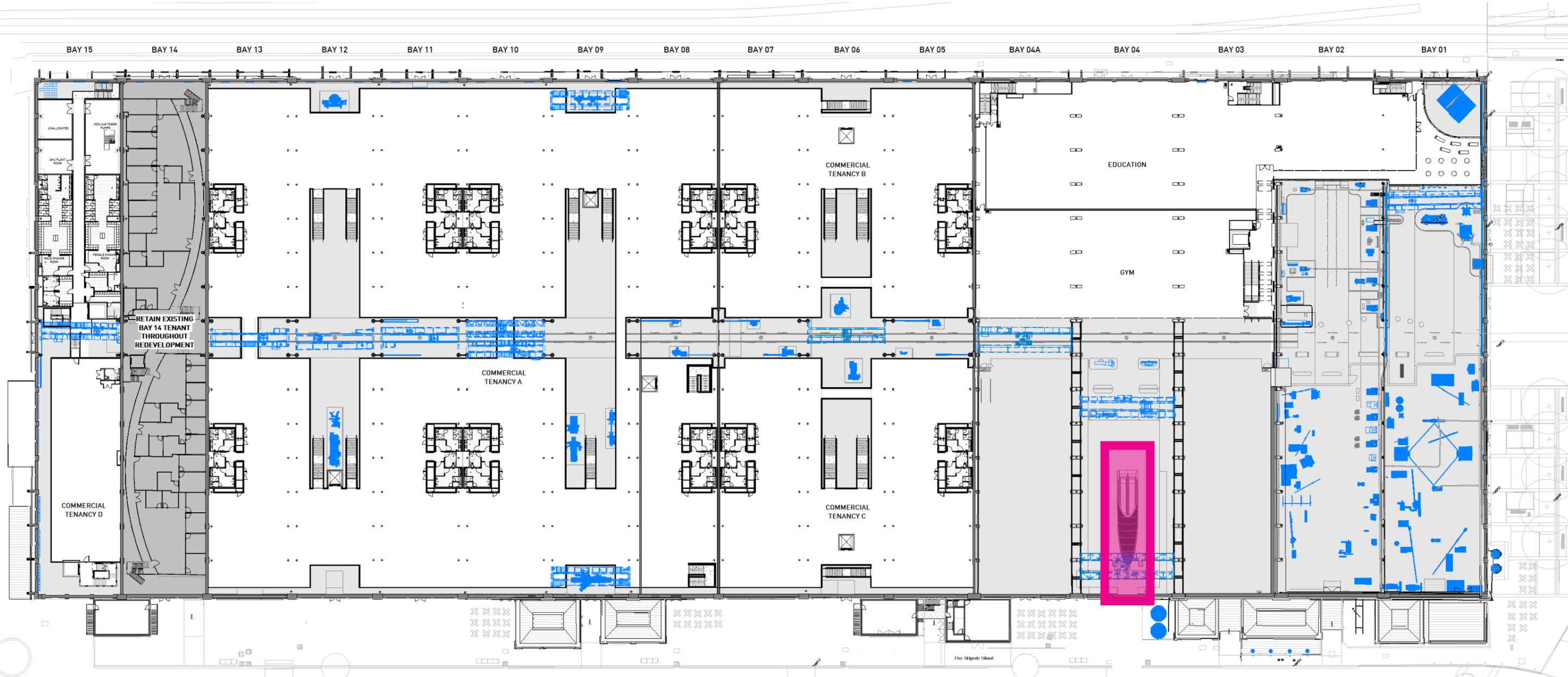
03.20 BOILER SHOP ARCHWAY



04.10 THE FOUNDRY TUNNEL

04.10 FOUNDRY TUNNEL

LOCATION PLAN - LEVEL ONE



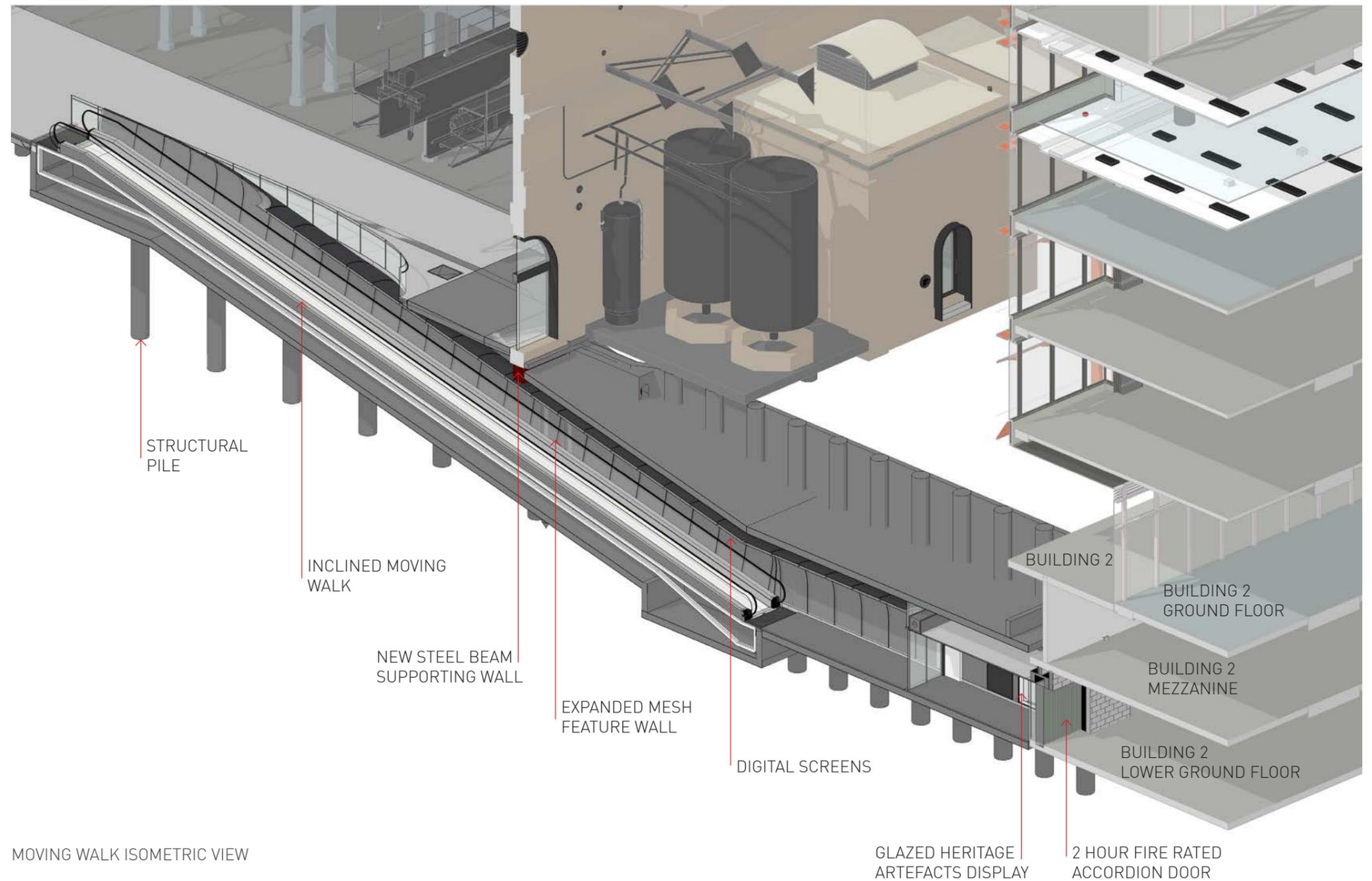
04.13 FOUNDRY TUNNEL TECHNICAL DETAIL

AXONOMETRIC

The Foundry Tunnel will connect the car parking in Building 2 lower ground floor with Bay 4 of the Workshop, passing beneath Locomotive Street.

Building 2 sits on the site of the former foundry building, and as such this new subterranean connection has been named the Foundry Tunnel.

The tunnel provides opportunities for creative heritage interpretation



KEY PLAN



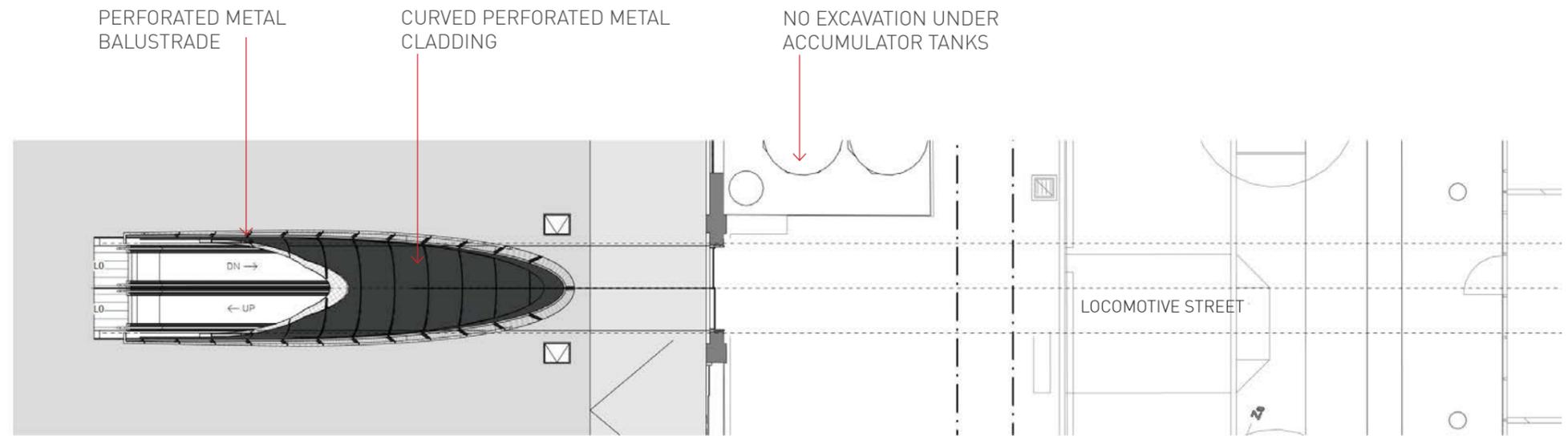
04.13 FOUNDRY TUNNEL TECHNICAL DETAIL

TECHNICAL DETAIL

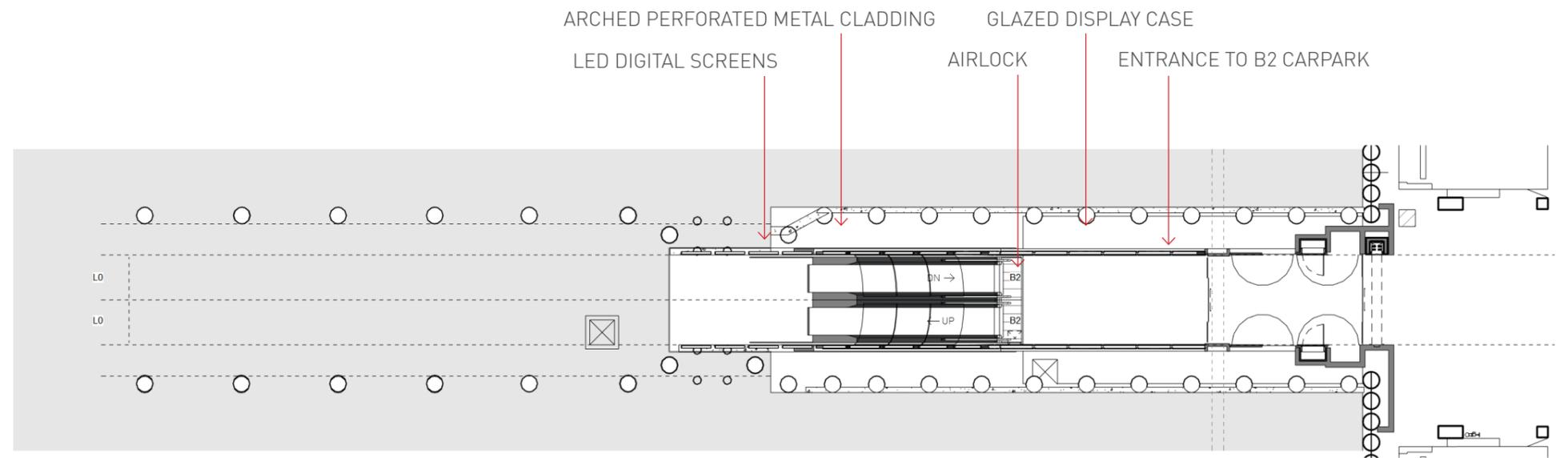
The Foundry Tunnel connects the Building 2 parking allocation with the interior of the Locomotive Workshop.

As shown in the plans adjacent, the Foundry Tunnel will comprise a concrete tunnel and a second internal skin of perforated metal forming an arched ceiling. This curved form continues to the ground level, where the tunnel emerges through the ground floor in a parabolic form.

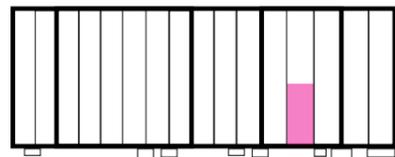
The Foundry Tunnel will provide an impactful entrance to the Workshops, with broad vistas towards the heritage structure overhead opening up as visitors emerge from the tunnel.



FOUNDRY TUNNEL PLAN - GROUND FLOOR BAY 4



FOUNDRY TUNNEL PLAN - BELOW GROUND BAY 4



KEY PLAN



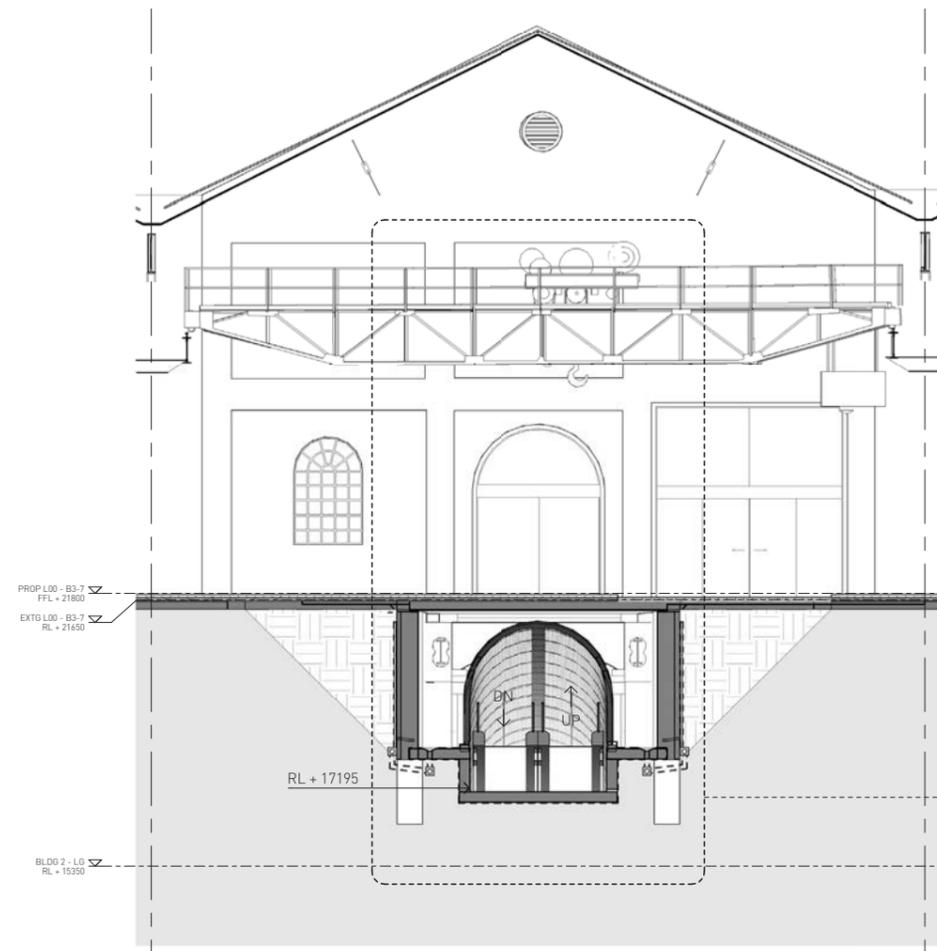
04.10 FOUNDRY TUNNEL

DETAIL SECTIONS

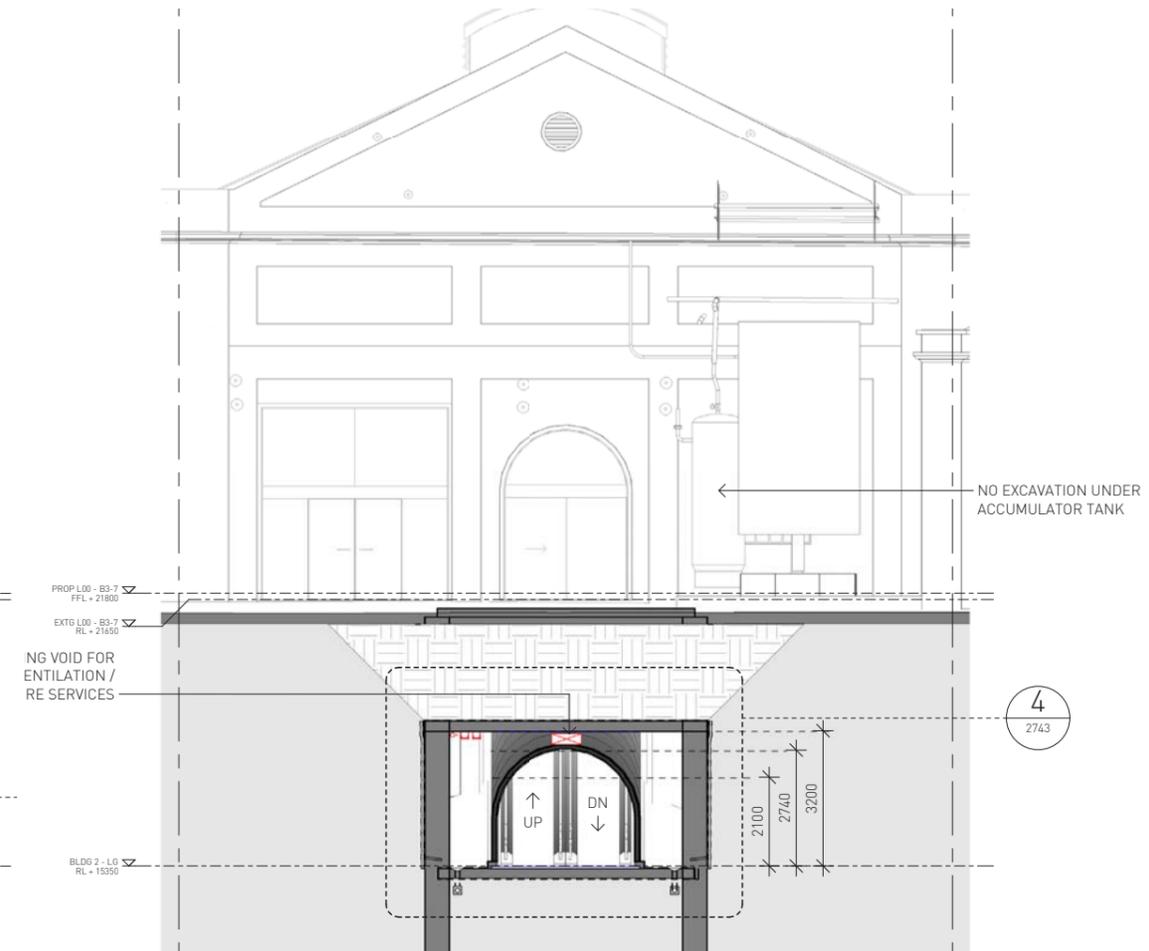
The Foundry Tunnel will be a unique subterranean digital experience featuring programmable digital content which celebrates a variety of heritage stories from the Locomotive Workshop.

The arched form of the tunnel references the arched openings and heritage footings of the building, while digital displays will envelop the viewer as they pass through the moving walk from the Building 2 carpark into the heart of Bay 4.

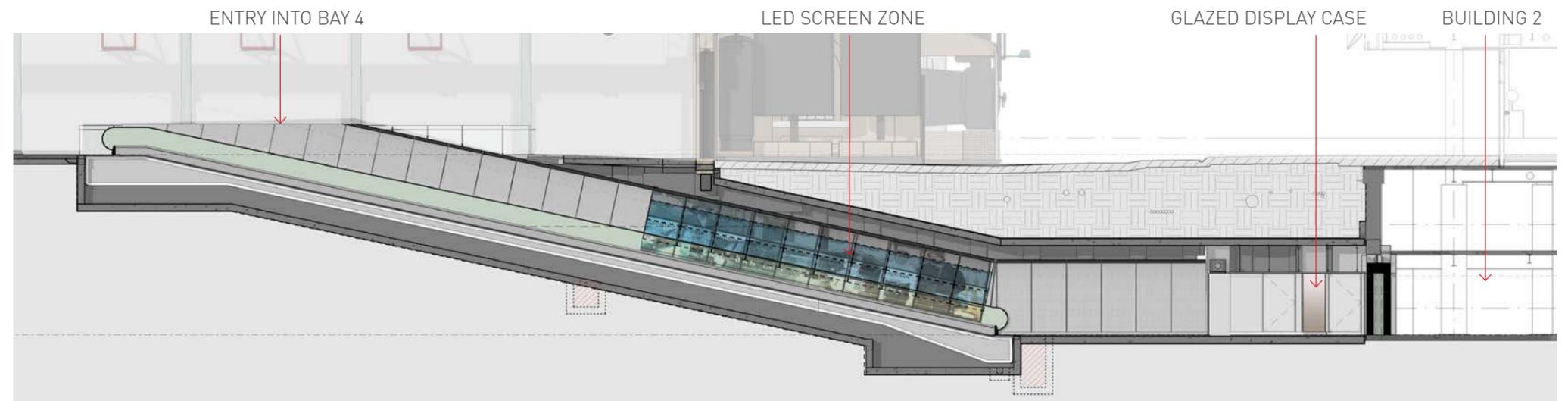
As it opens into Bay 4, the Foundry Tunnel projects through the floor in a parabolic form, which creates a unique transition into the heritage space, as well as opening up expansive views of the heritage structure overhead.



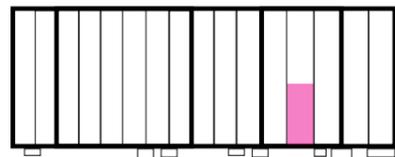
DETAIL SECTION THROUGH FOUNDRY TUNNEL LOOKING SOUTH



DETAIL SECTION THROUGH FOUNDRY TUNNEL LOOKING NORTH



DETAIL SECTION THROUGH FOUNDRY TUNNEL BAY 4



KEY PLAN

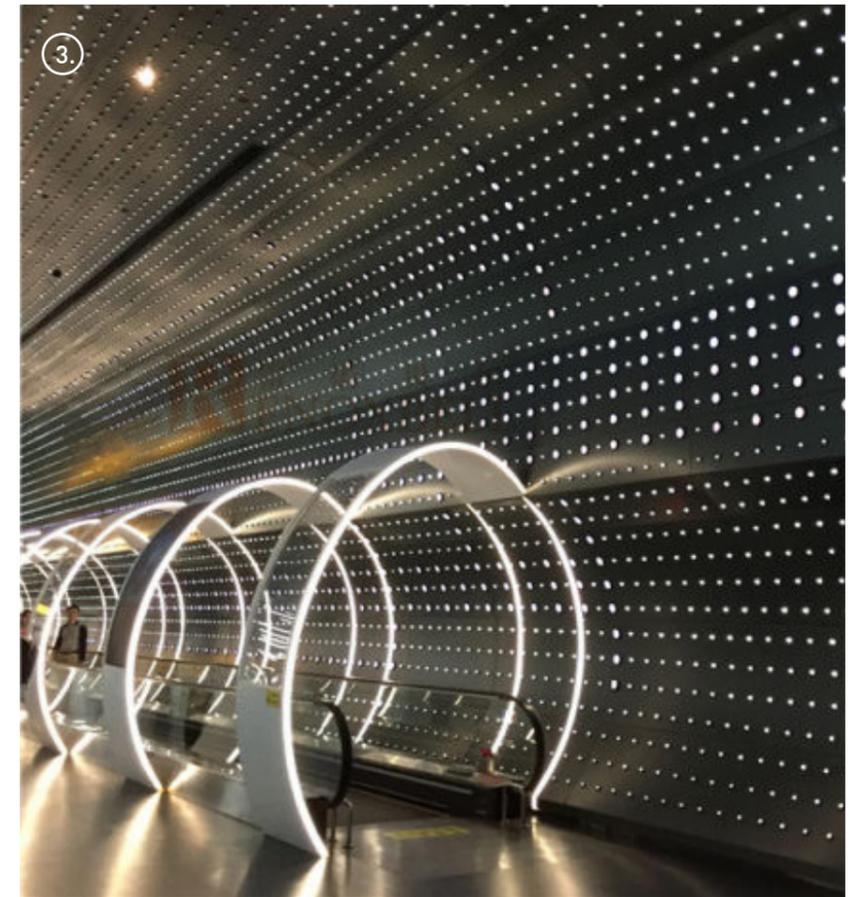
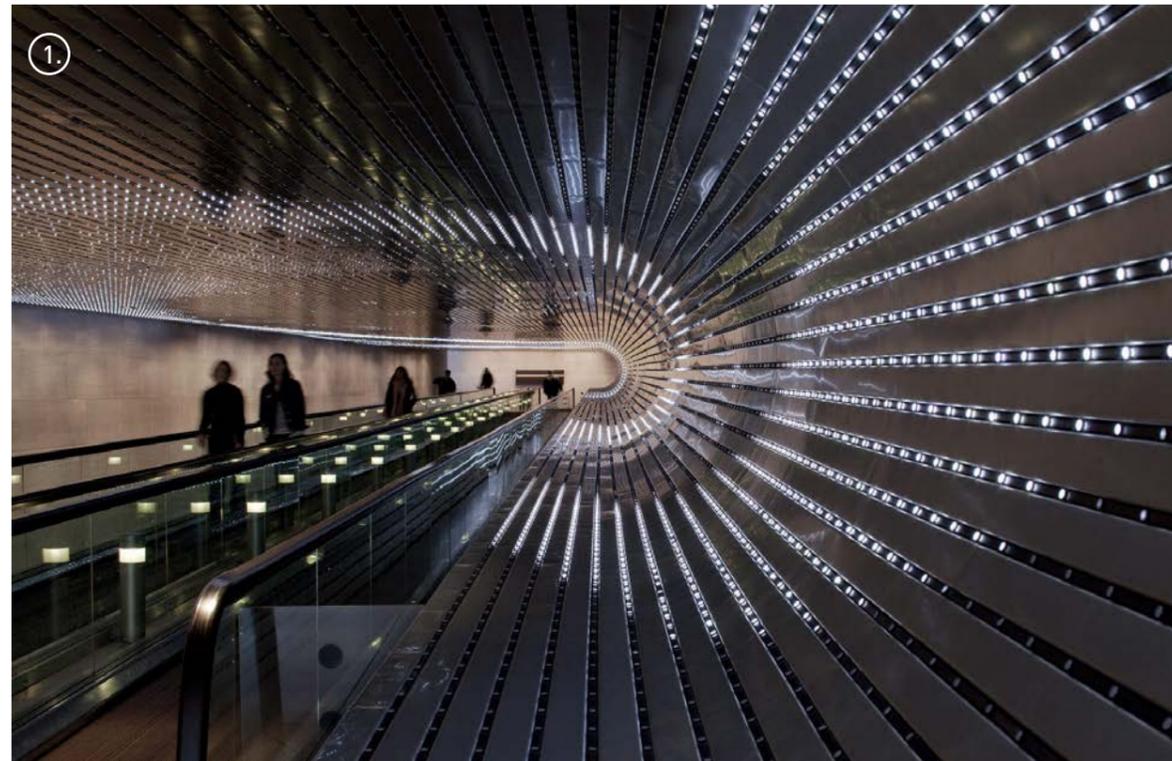


04.10 FOUNDRY TUNNEL

REFERENCE IMAGES

The Foundry Tunnel takes its inspiration from a number of successful digital tunnel precedents, shown right, which create exciting and engaging digital and light installation experiences.

The Foundry Tunnel will create an evocative and atmospheric space, which though a transient space, will have a lasting impact.

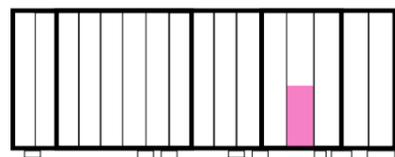


①. LEO VILLAREAL, NATIONAL GALLERY OF ART, WASHINGTON DC

③. CURVED PERFORATED METAL + LED TUNNEL, CHINA

②. CANARY WHARF TUBE STATION, LONDON

④. ST ENOCH SUBWAY STATION, GLASGOW



KEY PLAN



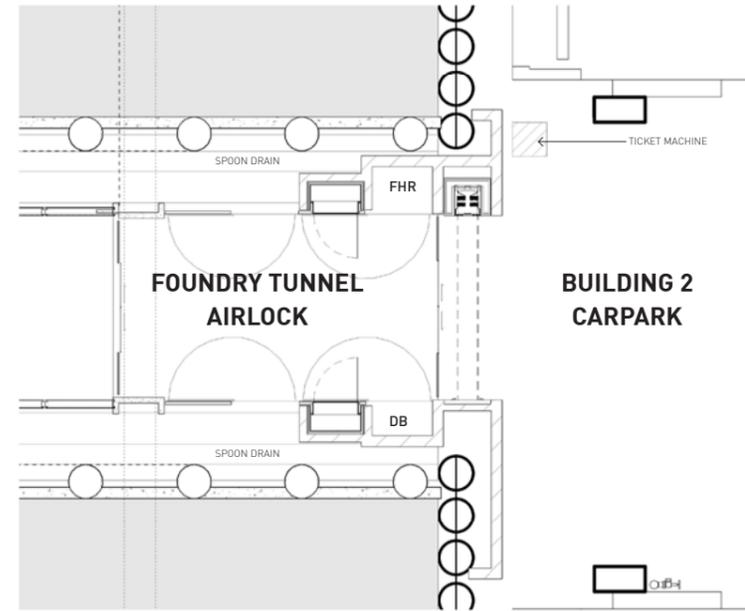


04.11 THE FOUNDRY TUNNEL DISPLAY CASE

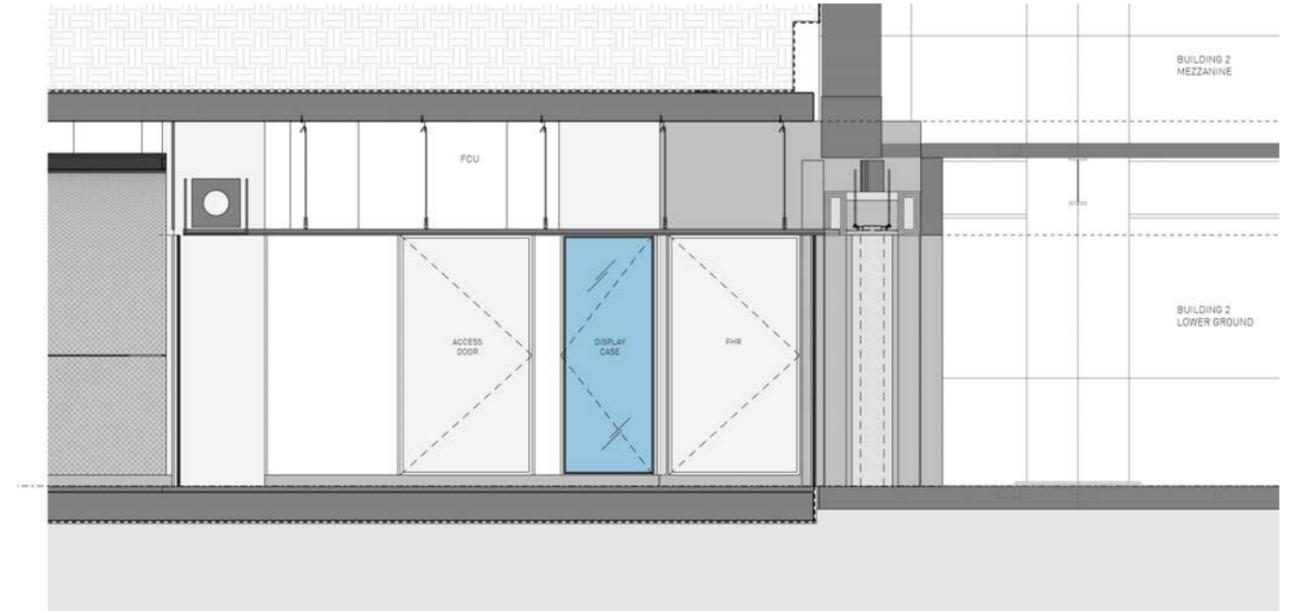
ARTEFACT DISPLAY

In the airlock between the Foundry Tunnel and the Building 2 carpark, a glazed display case is to be provided. This will allow for a curated display of small heritage and archaeological items which passing visitors will be able to appreciate up close.

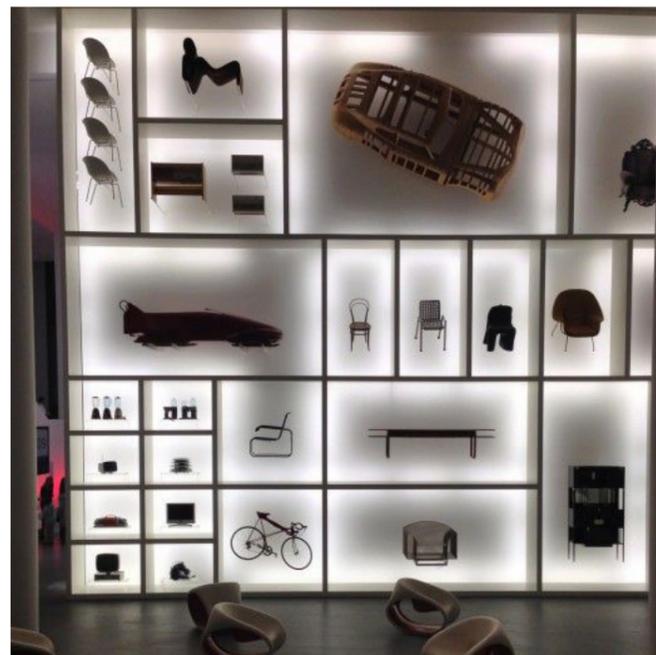
The case will have a glazed door and be lit internally to highlight and feature the items within.



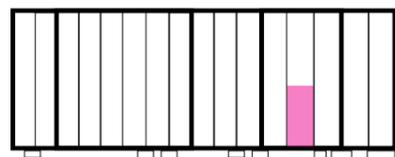
DETAIL PLAN - FOUNDRY TUNNEL DISPLAY CASE



DETAIL ELEVATION - FOUNDRY TUNNEL DISPLAY



EXAMPLE IMAGES OF ILLUMINATED GLASS CABINET DISPLAYS



KEY PLAN



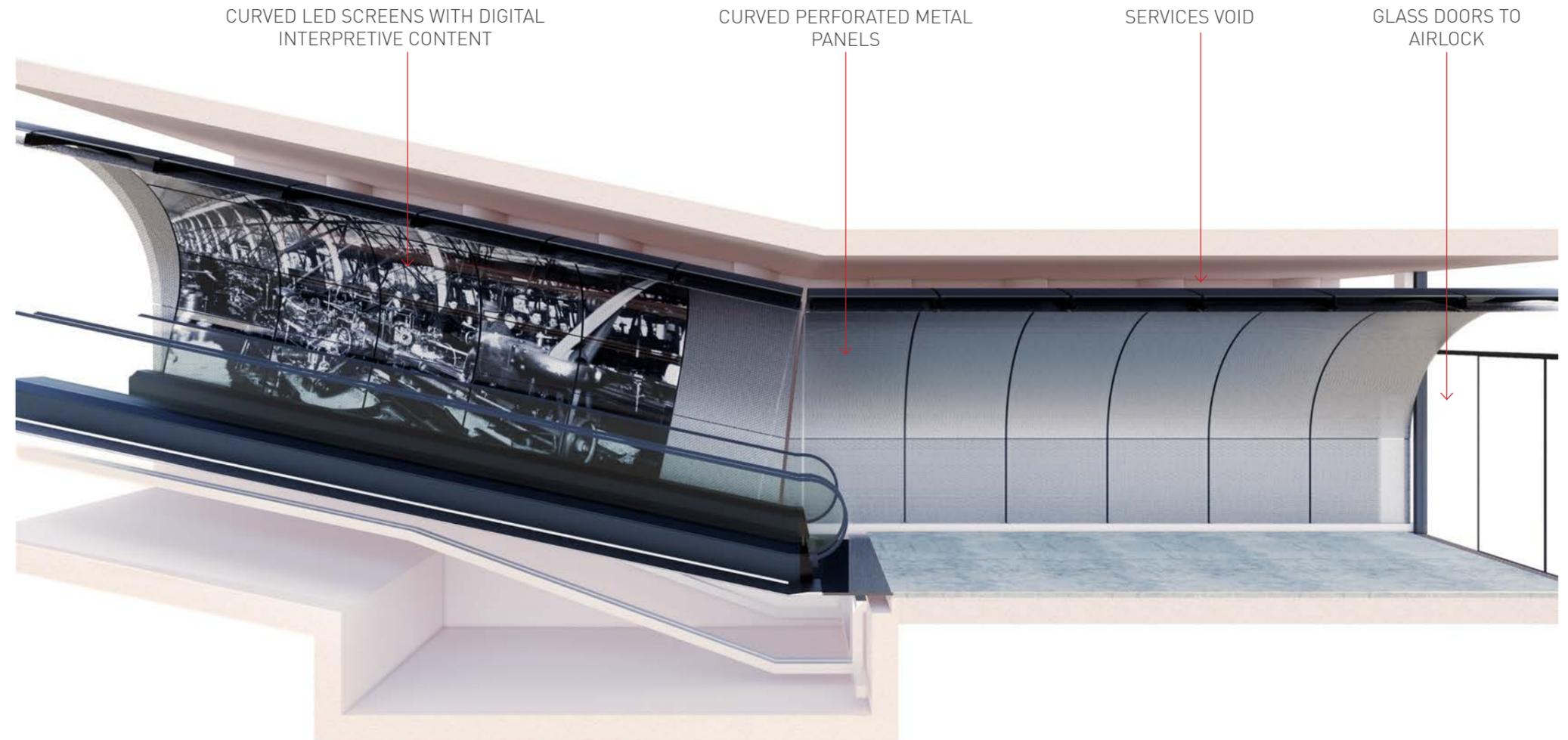
04.10 FOUNDRY TUNNEL

MATERIALS + FINISHES

The foundry tunnel is designed to refer to the form of the existing arched footings under which the moving walk will pass as it enters the building.

As the digital content will provide an exciting dynamic focus within the tunnel, the base build materials are proposed to be simple, sleek and functional.

The material selected for the internal cladding is silver perforated metal which can be curved in panels to form the tunnel. A black substrate will be provided behind this to provide a recessive visually background.

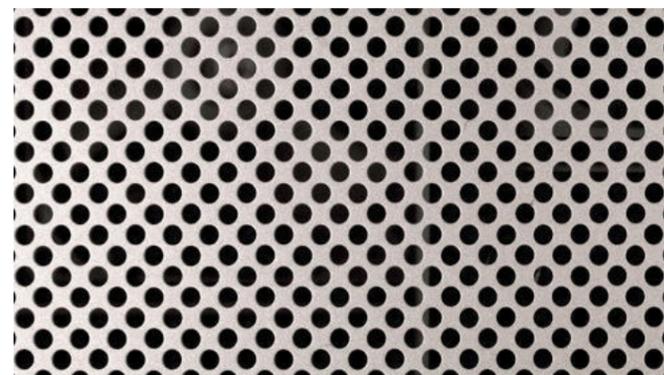


CURVED LED SCREENS WITH DIGITAL INTERPRETIVE CONTENT

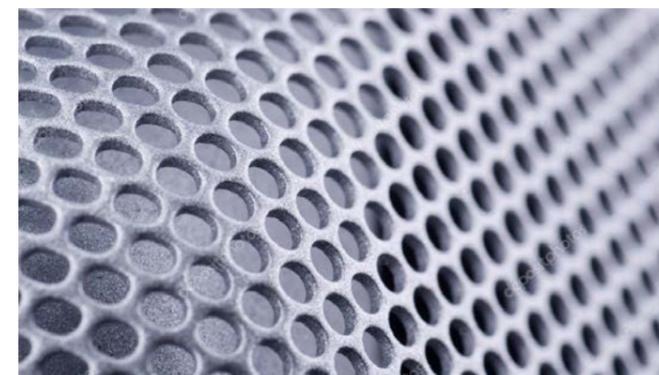
CURVED PERFORATED METAL PANELS

SERVICES VOID

GLASS DOORS TO AIRLOCK



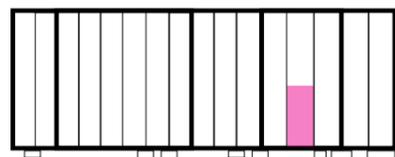
① SILVER PERFORATED METAL CLADDING



② PERFORATED METAL CLADDING TO BE CURVED



③ BLACK SUBSTRATE BEHIND



KEY PLAN



04.12 FOUNDRY TUNNEL DIGITAL EXPERIENCE

DIGITAL CONTENT

The walls of the Foundry Tunnel adjacent to the moving walk are proposed to be comprised of LED screens, which will showcase unique programmable digital content. Content may relate to specific stories of the Locomotive Workshop and the former Foundry.

The screens are to be constructed utilising one of the following technologies:

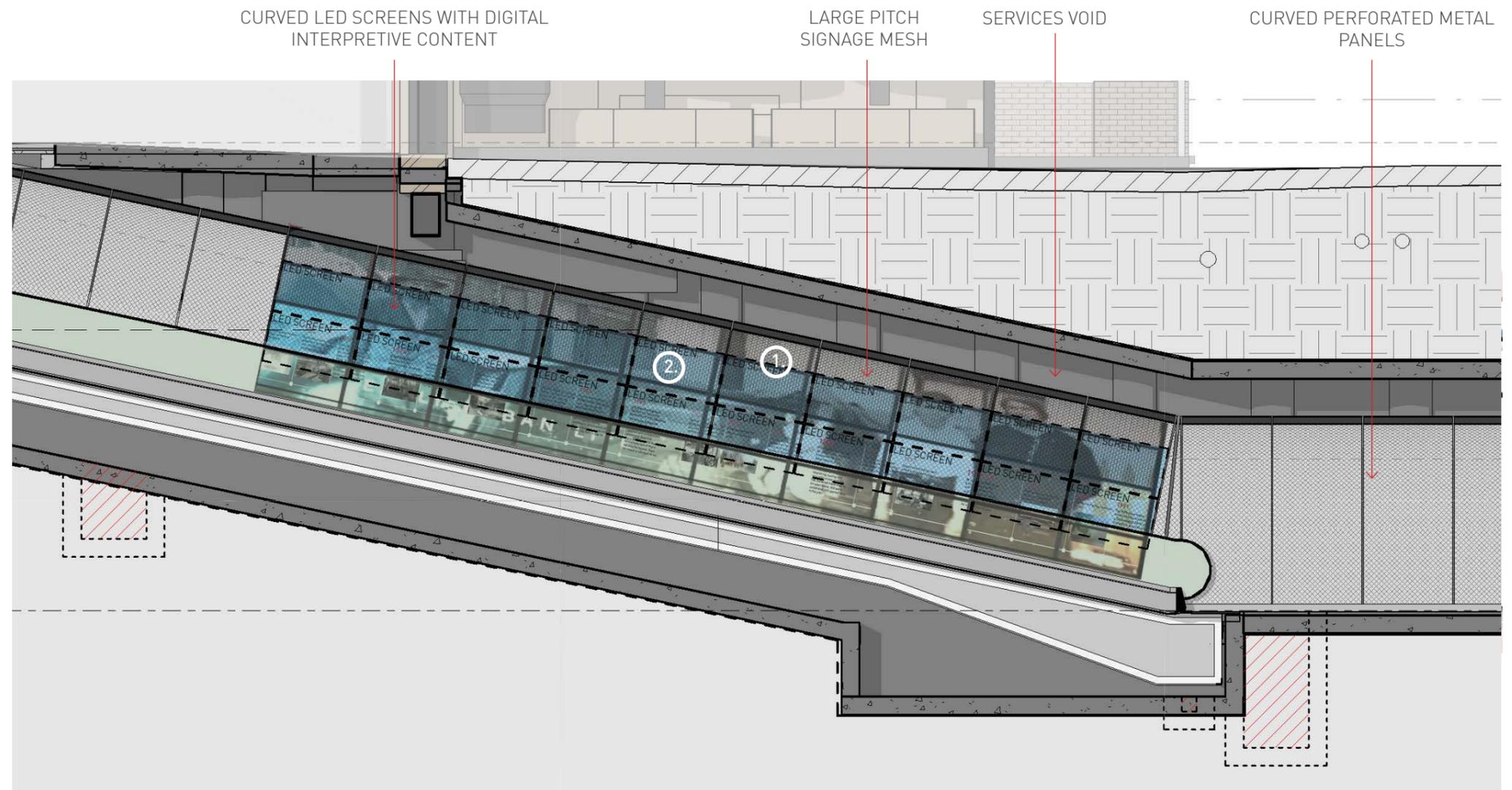
1. Large Pitch (15mm or greater) RGB LED Signage Mesh

An opportunity exists to use lower resolution LED mesh in areas that fall within the audience's peripheral vision. Not only does this help maintain the integrity and the materiality of the proposed design, it would help neutralise issues of parabolic echoes that the curved design may generate.

2. LG Curved OLED Signage Panels

Due to the relatively close proximity of the display surface to the viewer it is proposed to use high definition digital panels either in curved OLED or standard rigid LCD on the side wall closest to the audience to ensure the legibility of the media experience.

The digital content is to be fully programmable and updated regularly to ensure a dynamic and engaging experience.



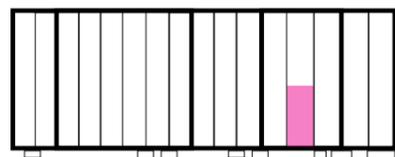
①. LARGE PITCH LED SIGNAGE MESH



②. CURVED OLED SIGNAGE SCREEN



③. DIGITAL CONTENT CONCEPT



KEY PLAN



4.20 SPRING SHOP LOUNGE

04.20 SPRING SHOP LOUNGE

LOCATION PLAN - GROUND FLOOR



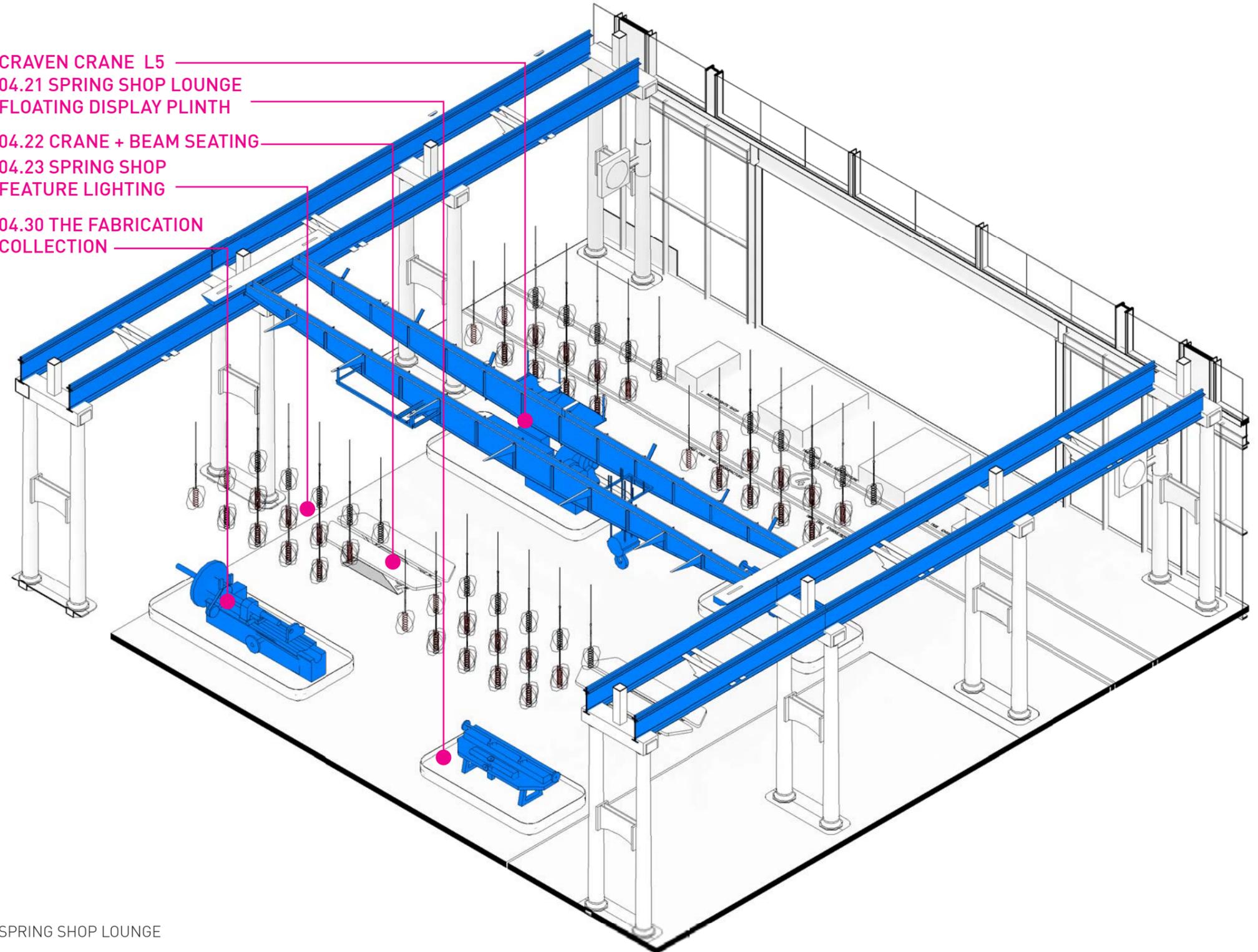
04.20 SPRING SHOP LOUNGE

BAY 4 GROUND FLOOR

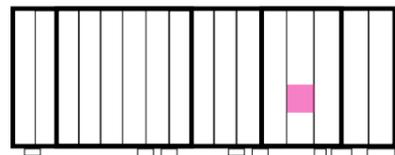
Bay 4 Fabrication Shop- Primary function 1984

The spring shop Lounge exhibition space is the first impression of one of the main entry's to the super market tenancy. Fabricating machinery is showcased on minimal floating plinths.

- CRAVEN CRANE L5
- 04.21 SPRING SHOP LOUNGE
FLOATING DISPLAY PLINTH
- 04.22 CRANE + BEAM SEATING
- 04.23 SPRING SHOP
FEATURE LIGHTING
- 04.30 THE FABRICATION
COLLECTION



SPRING SHOP LOUNGE



KEY PLAN

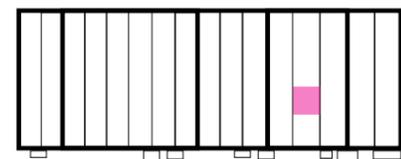
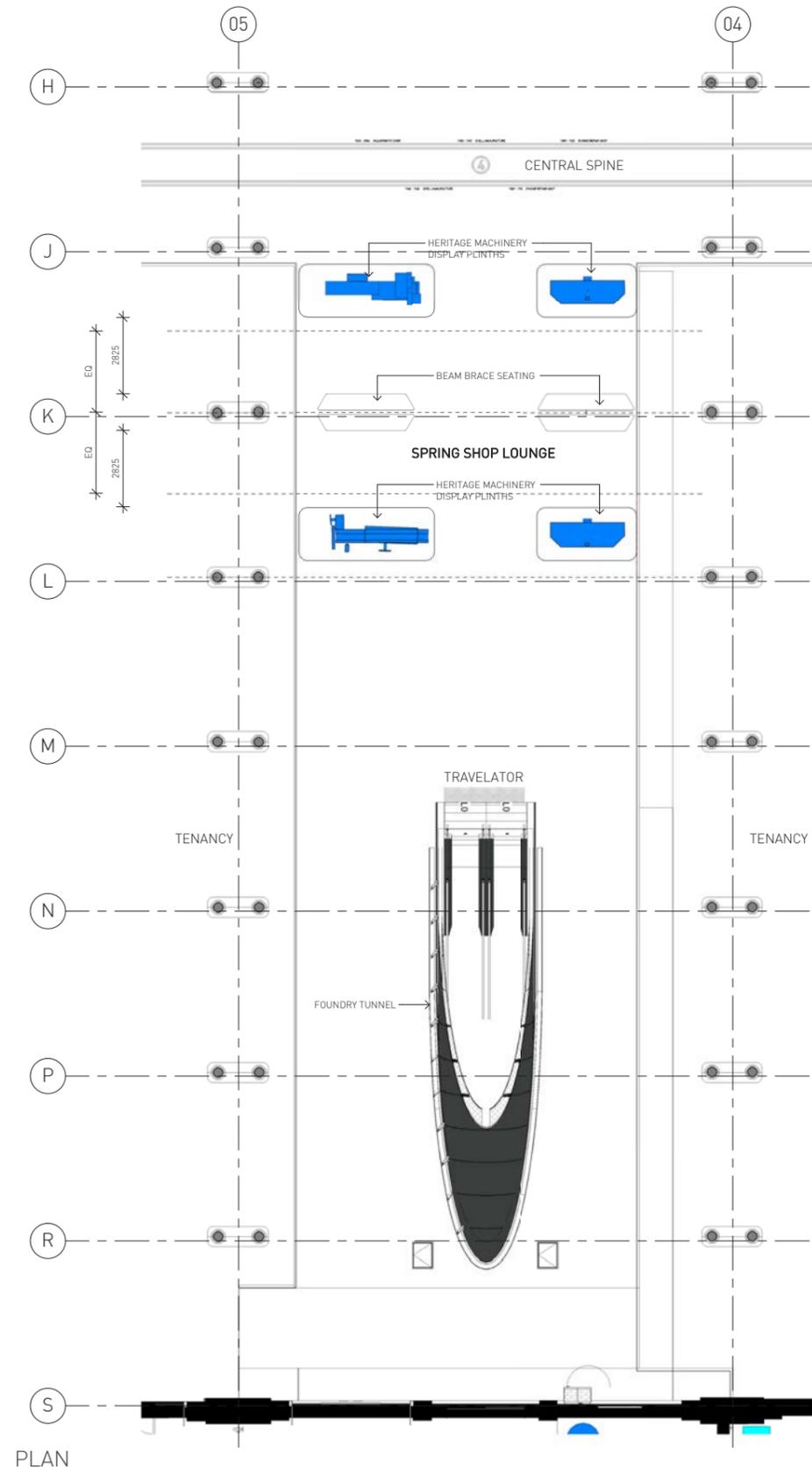


04.20 SPRING SHOP LOUNGE

DETAILS

The spring shop lounge is the first point of contact when entering from the car park via the travelator. Fabricating machinery is displayed on illuminated plinths drawing guests through to the super market tenancy. The space is arranged to create clear circulation and sight lines to the northern end of the building.

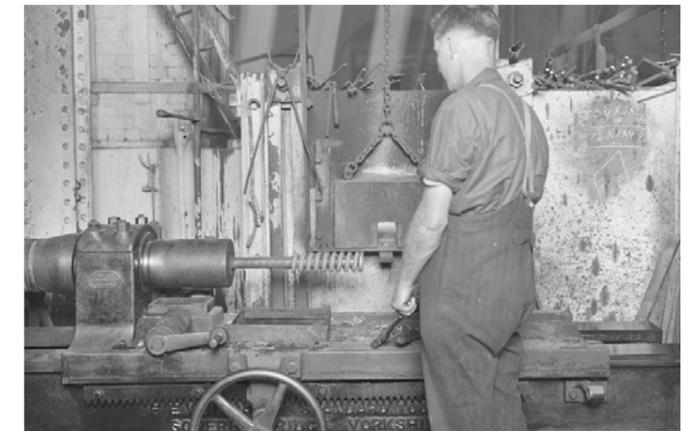
Brace seating offers a point for guests to stop and pause to admire the unique features and machinery.



KEY PLAN



CRAVEN CRANE L5 4745 197



SPRING FORMING MACHINERY

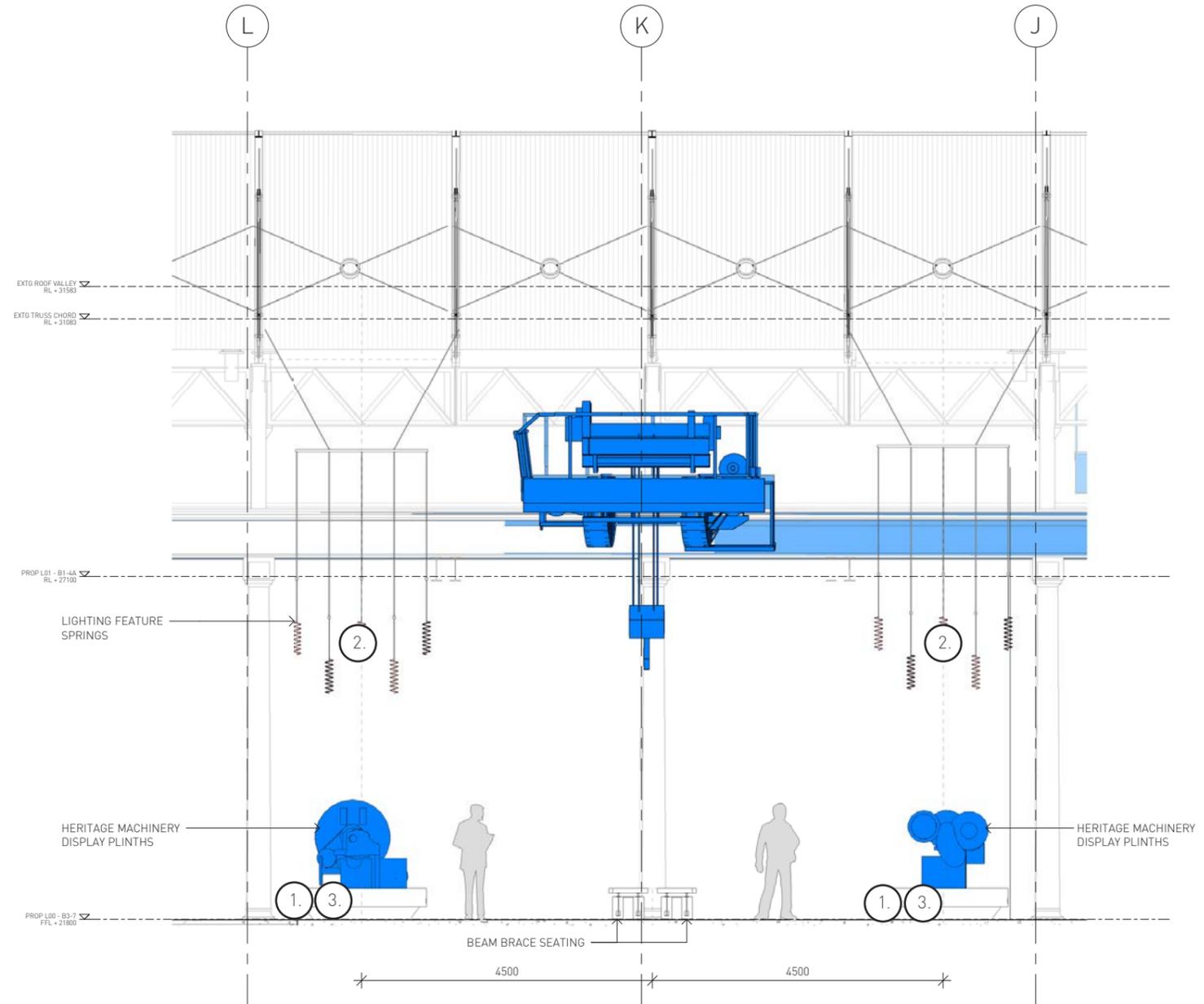


FEATURE SPRING LIGHTING

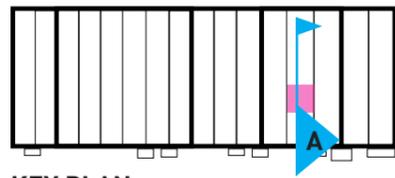
04.20 SPRING SHOP LOUNGE

DESIGN + MATERIAL

This elevation shows the connection of the craven crane, feature lighting and fabricating machinery. The suspended feature lighting creates ambience within the zone to form a warm and habitable space or guests to sit. The spring feature lighting also shows the connection of the machinery used to make the springs from production to final product.



BAY 4 SEATING & HERITAGE INTERPRETATION ZONE INTERNAL ELEVATION



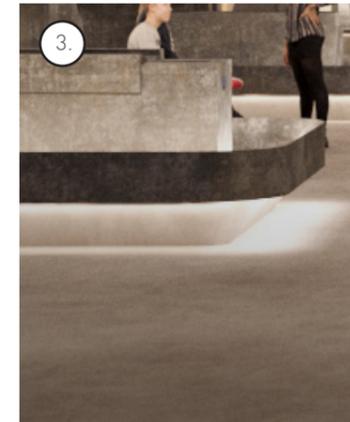
KEY PLAN



CONCRETE PLINTHS



SPRING LIGHTING



LED LIGHTING



MUROBOND MICACEOUS PAINT URBAN



BAY 4 - SPRING SHOP LOUNGE

04.40 AMENITIES CARRIAGE

04.40 AMENITIES CARRIAGE

OVERALL LOCATION PLAN



04.40 AMENITIES CARRIAGE

TINSMITH'S WALL DETAILS

Bays 1-4 and 5-15 were originally separated by an annex which contained tinsmiths and coppersmiths, a sand store and core stoves for the foundry. Bay 4A structure was built to combine the building as a whole. This then became a boiler shop in 1905.

The corridor creates a directional path to the public amenities.

04.41 - Tinsmith's Wall

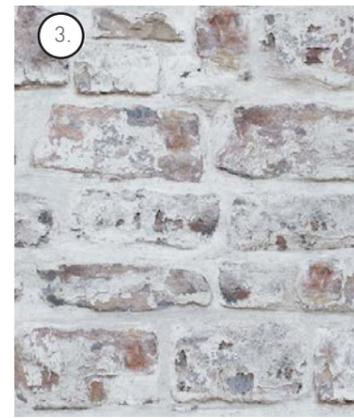
White paint of the brick walls will be gently brushed but retaining its aged texture of heritage brick and peeling paint.



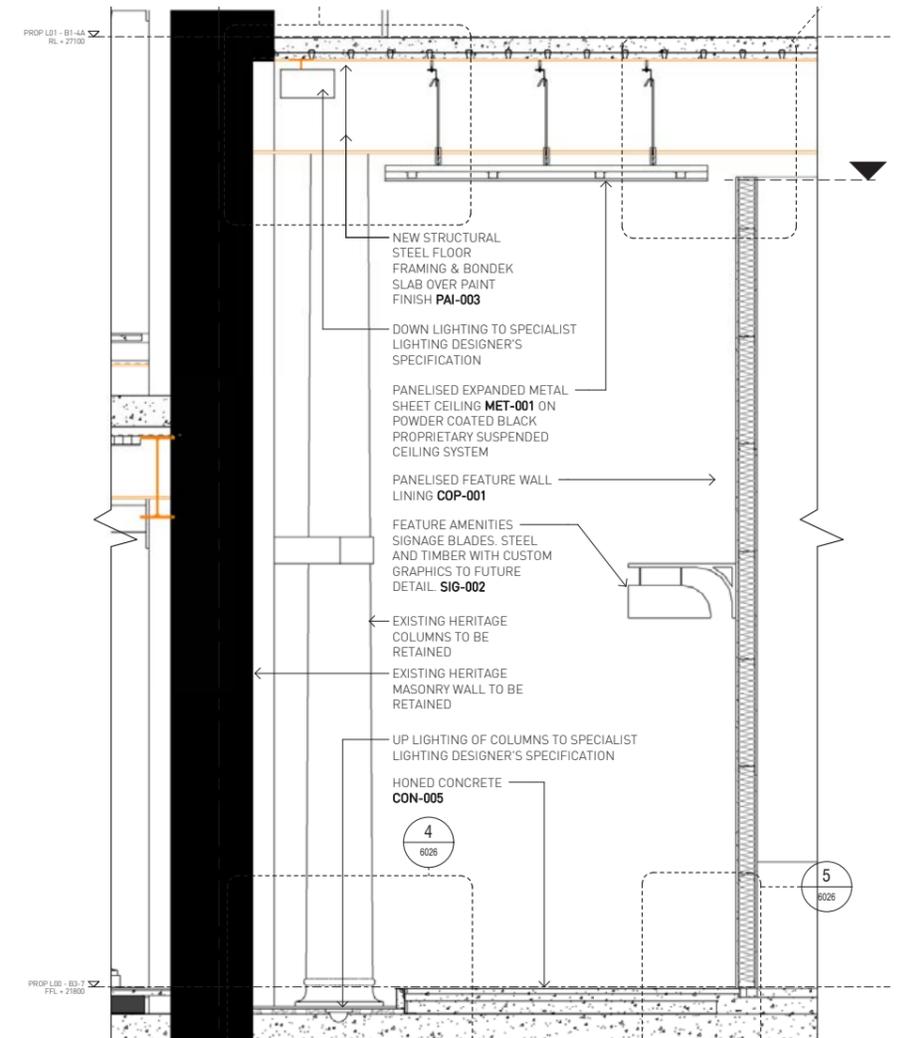
PERFORATED METAL SHEET



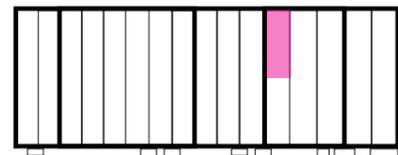
NEW STEEL MICACEOUS PAINT FINISH



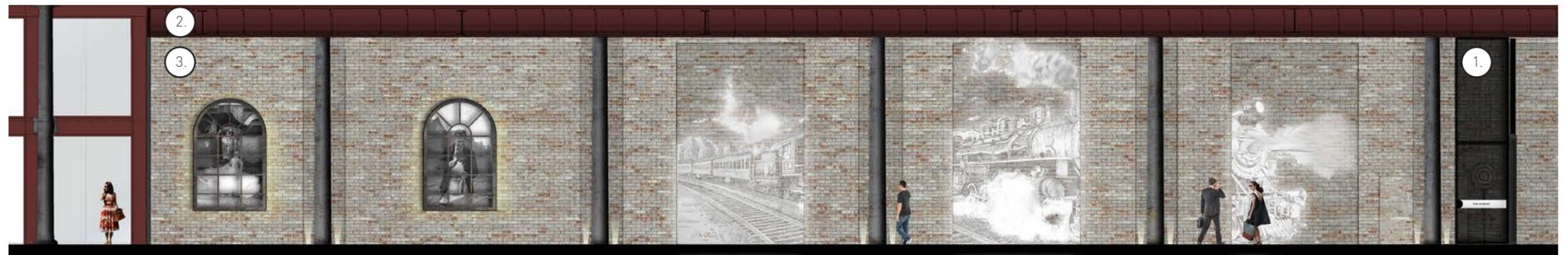
ORIGINAL WHITE PAINTED BRICK, WATER JET BLASTED TO REVEAL BRICK



AMENITIES CORRIDOR CROSS SECTION



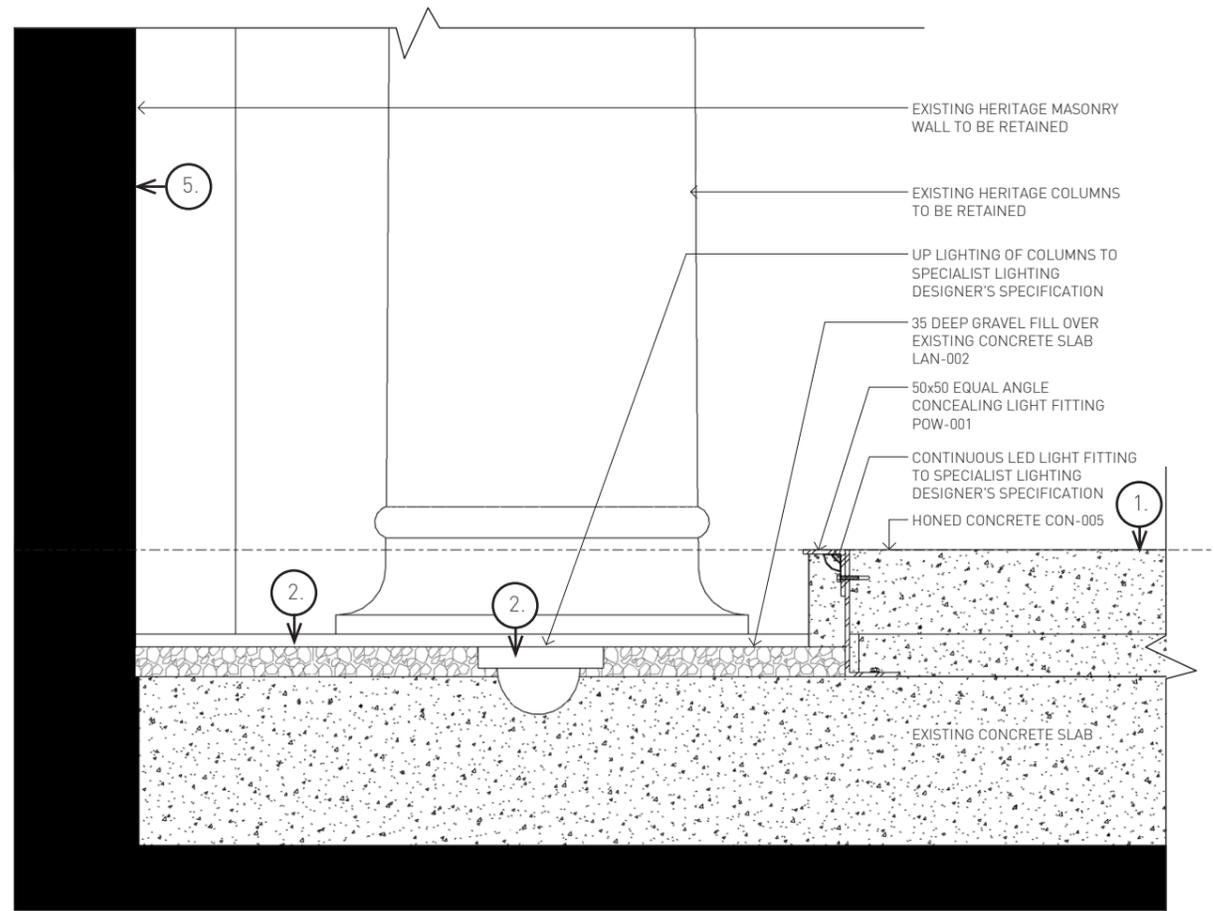
KEY PLAN



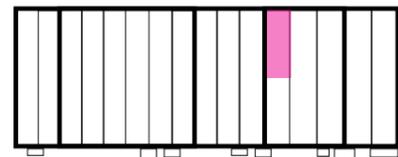
04.41 BOILER BRICK WALL

DETAILS + DESIGN

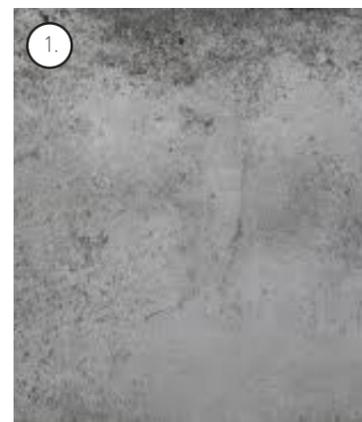
In floor lighting illuminates the brick wall creating a directional corridor into the amenities. Crushed pink granite embedded along the wall edge convey the wall as being a significant wall.



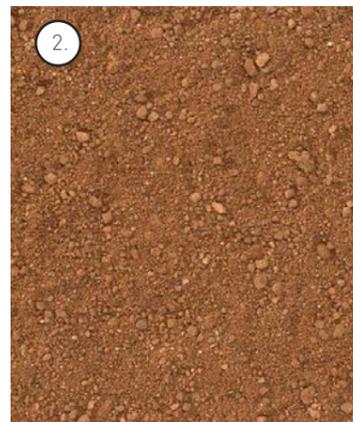
AMENITIES CORRIDOR DETAIL SECTION



KEY PLAN



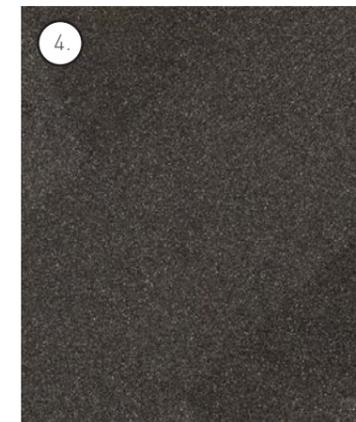
CONCRETE FLOOR



TIMBER HANDRAIL



RECESSED FLOOR FITTING



NEW STEEL MICACEOUS PAINT FINISH



ORIGINAL WHITE PAINTED BRICK, WATER JET BLASTED TO REVEAL BRICK

04.42 + 04.43 WINDOWS AND PROJECTIONS

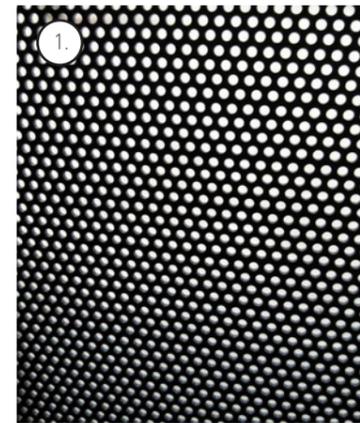
DESIGN + DETAILS

04.42 - WINDOWS OF THE PAST

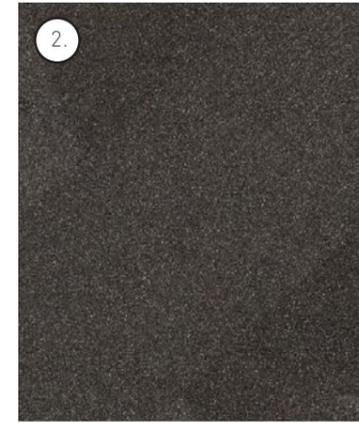
Steel window frames will be hung in a broken formation of the original shape they once formed, black and white photographs shall sit within the fragmented window frames.

04.43 - BRICK WALL PROJECTIONS

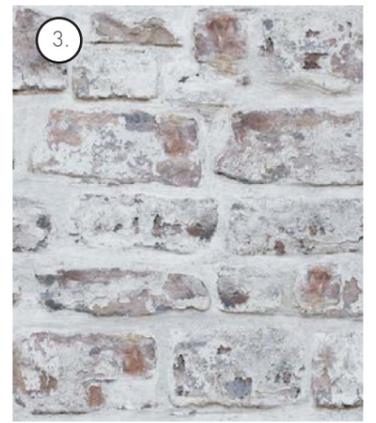
Projections of historic imagery will line the walls capturing character and charm. Projections will have rolling content including footage of locomotives



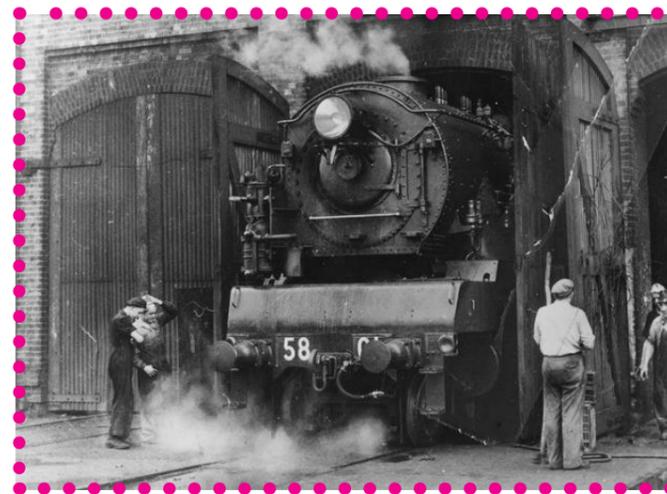
PERFORATED METAL SHEET



NEW STEEL MICACEOUS PAINT FINISH



ORIGINAL WHITE PAINTED BRICK, WATER JET BLASTED TO REVEAL BRICK



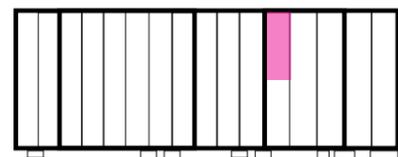
HERITAGE IMAGES FRAMED IN WINDOW FRAMES



4745 452 HERITAGE WINDOW FRAMES



PROJECTIONS ONTO THE HERITAGE BRICK WALL



KEY PLAN



15.00 BAY 15

15.01 HERITAGE BEAM COLONNADE

LOCATION PLAN - GROUND FLOOR



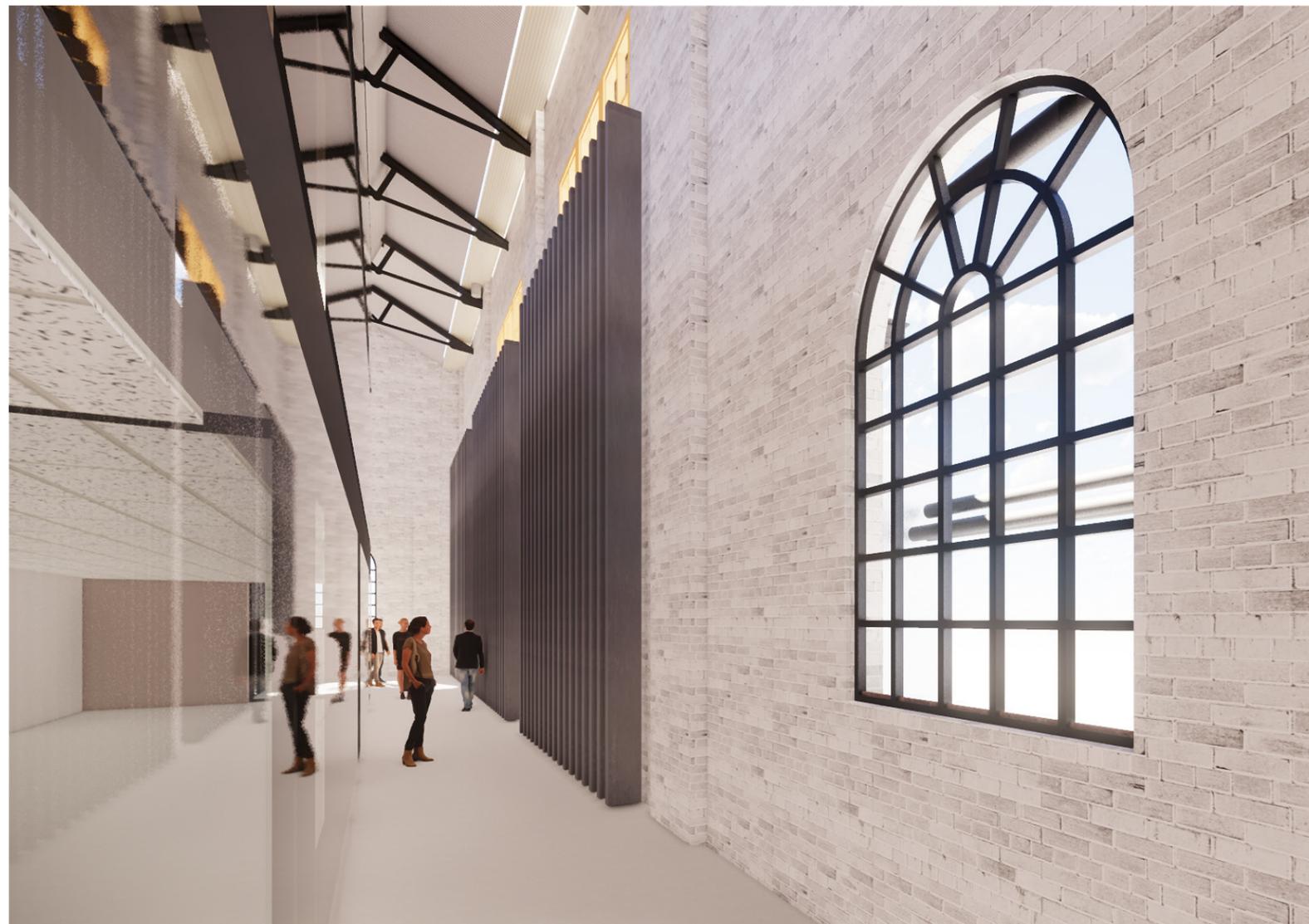
15.01 HERITAGE BEAM COLONNADE

HERITAGE CRANE BEAMS - BAY 15 SOUTH

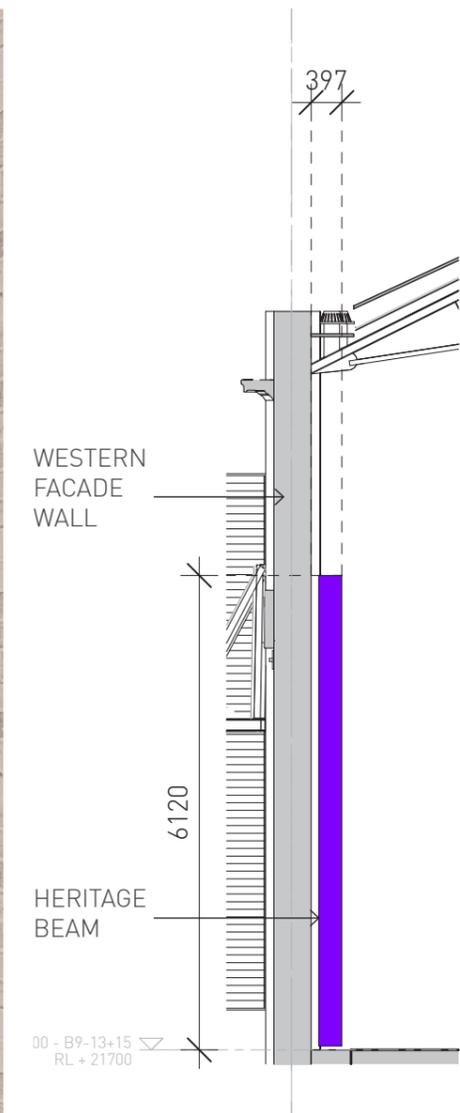
Heritage low level beams which are being removed from a number of locations throughout the building are proposed to be displayed in Bay 15.

The beams will be installed vertically along the western wall of the double height public walkway in Bay 15 South.

The beams will be fixed with a high level bracket restraint to be developed by the structural engineer. The display will be feature lit, and explanatory text will be displayed on wall plaques adjacent.



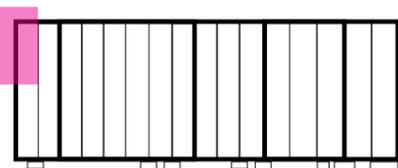
3D VIEW - BAY 15 SOUTH - PROPOSED DISPLAY LOCATION OF HERITAGE BEAMS



SECTION - BEAM DISPLAY BAY 15 SOUTH



LONG SECTION - BAY 15 - PROPOSED DISPLAY LOCATION OF HERITAGE BEAMS



KEY PLAN



15.01 HERITAGE BEAM COLONNADE

HERITAGE CRANE BEAMS - BAY 15 NORTH

Heritage crane beams which are being removed from primarily Bays 1-4A are proposed to be displayed in Bay 15.

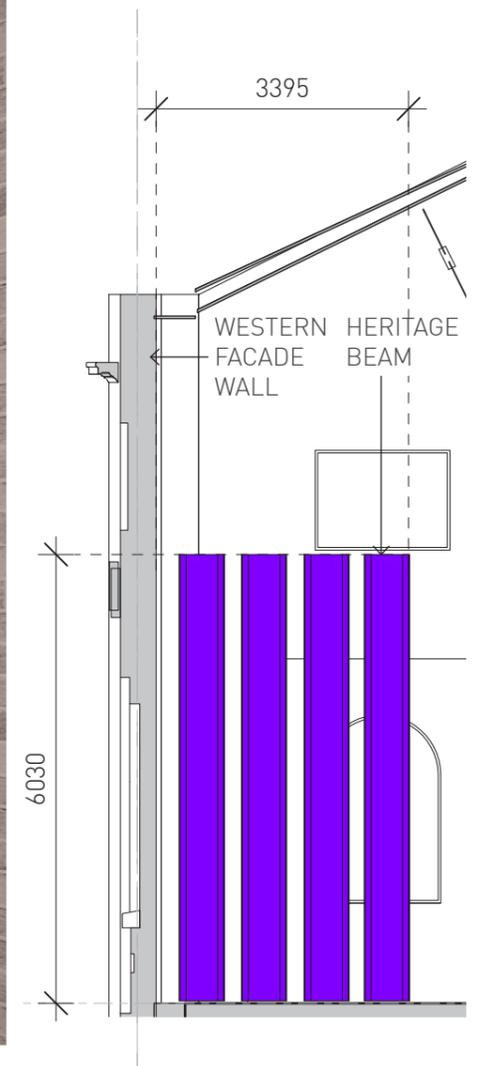
The beams will be installed vertically along the western wall of the double height public walkway in Bay 15 North.

The beams will be fixed with a high level bracket restraint to be developed by the structural engineer, as well as a local slab thickening to support the load.

The display will be feature lit, and explanatory text will be displayed on wall plaques adjacent.



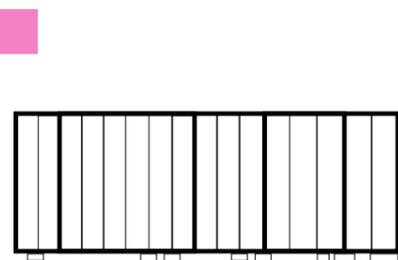
3D VIEW - BAY 15 NORTH - PROPOSED DISPLAY LOCATION OF HERITAGE CRANE BEAMS



SECTION - BEAM DISPLAY BAY 15 NORTH



LONG SECTION - BAY 15 - PROPOSED DISPLAY LOCATION OF HERITAGE CRANE BEAMS

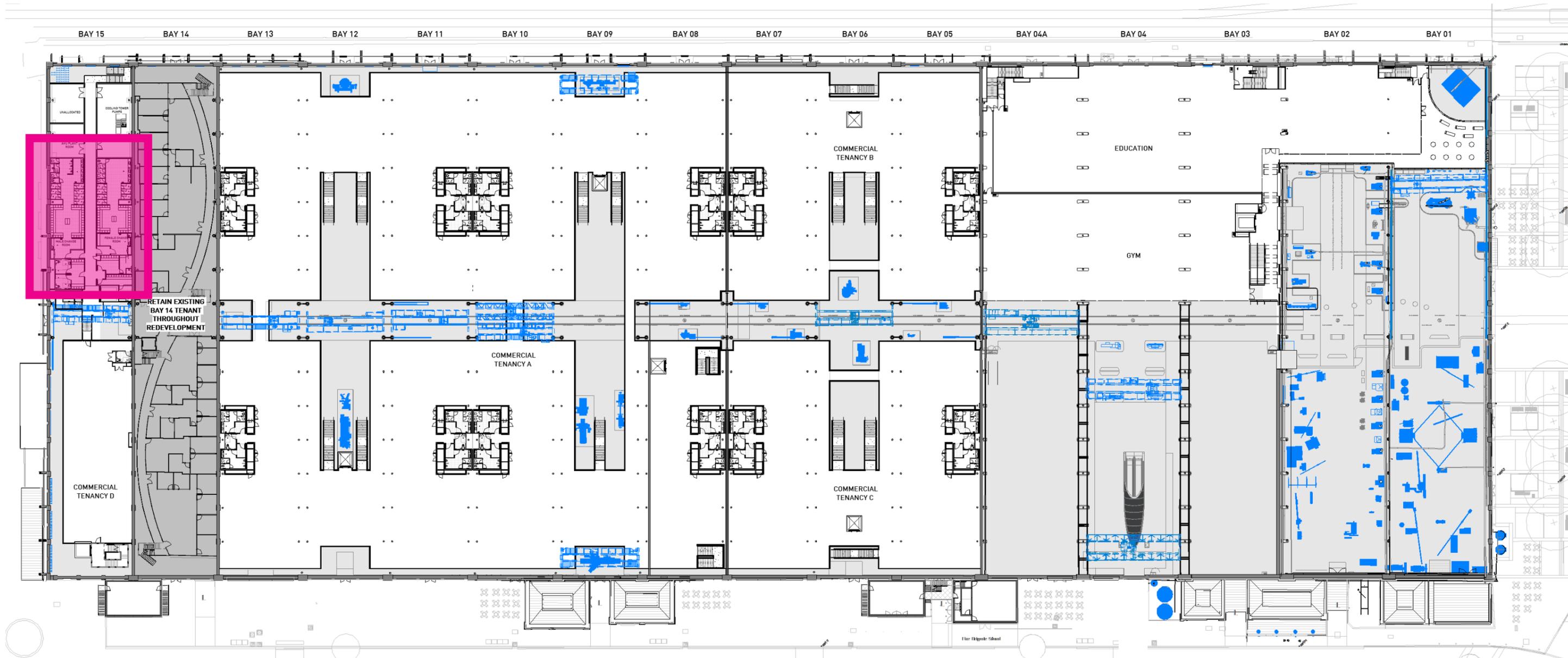


KEY PLAN



15.02 END OF TRIP CHANGE ROOM GRAPHICS

LOCATION PLAN - FIRST FLOOR



15.02 END OF TRIP CHANGE ROOM GRAPHICS

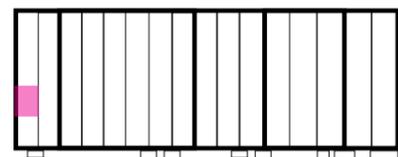
HERITAGE DECALS

Heritage photographs from the Locomotive Workshop are proposed to be applied as decals to the door fronts of the lockers in the male and female End of Trip change rooms.

The final images will be selected by the heritage consultant in line with the site wide stories.



END OF TRIP FLOOR PLAN - LOCKER INTERPRETATION LOCATION



KEY PLAN



15.02 END OF TRIP CHANGE ROOM GRAPHICS

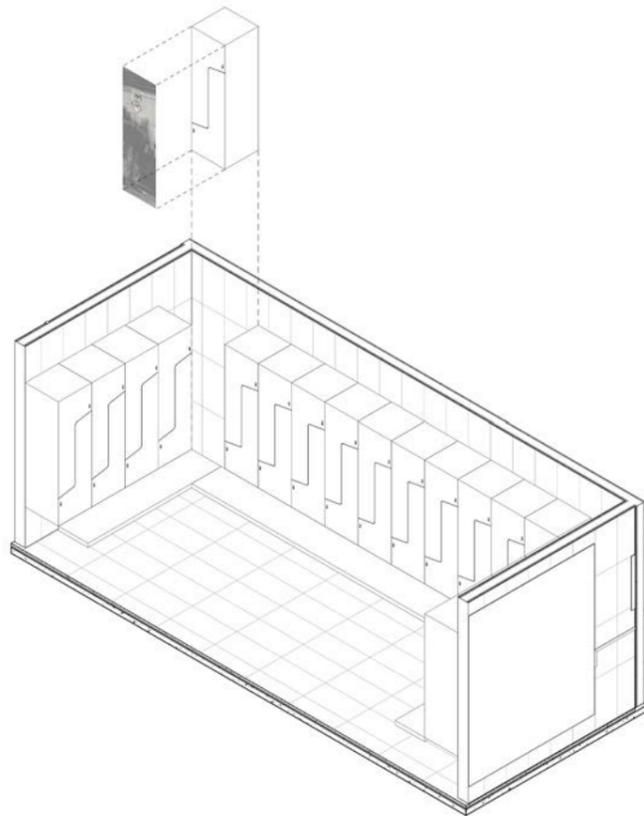
HERITAGE DECALS

A selection of heritage images are to be displayed as decals on the doors of the proposed locker system by Interloc.

A sample selection of heritage photographs is shown top right. The final selection will be confirmed by the heritage consultant.



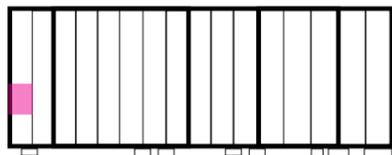
EXAMPLE OF HERITAGE PHOTOGRAPHS TO BE APPLIED TO LOCKER DOORS



EXPLODED ISOMETRIC VIEW - LOCKER GRAPHICS



EXAMPLE VIEW OF HERITAGE PHOTOGRAPHS APPLIED AS DECALS TO LOCKER DOORS



KEY PLAN



15.03 BAY 15 ATRIUM GRAPHICS

LOCATION PLAN - GROUND FLOOR

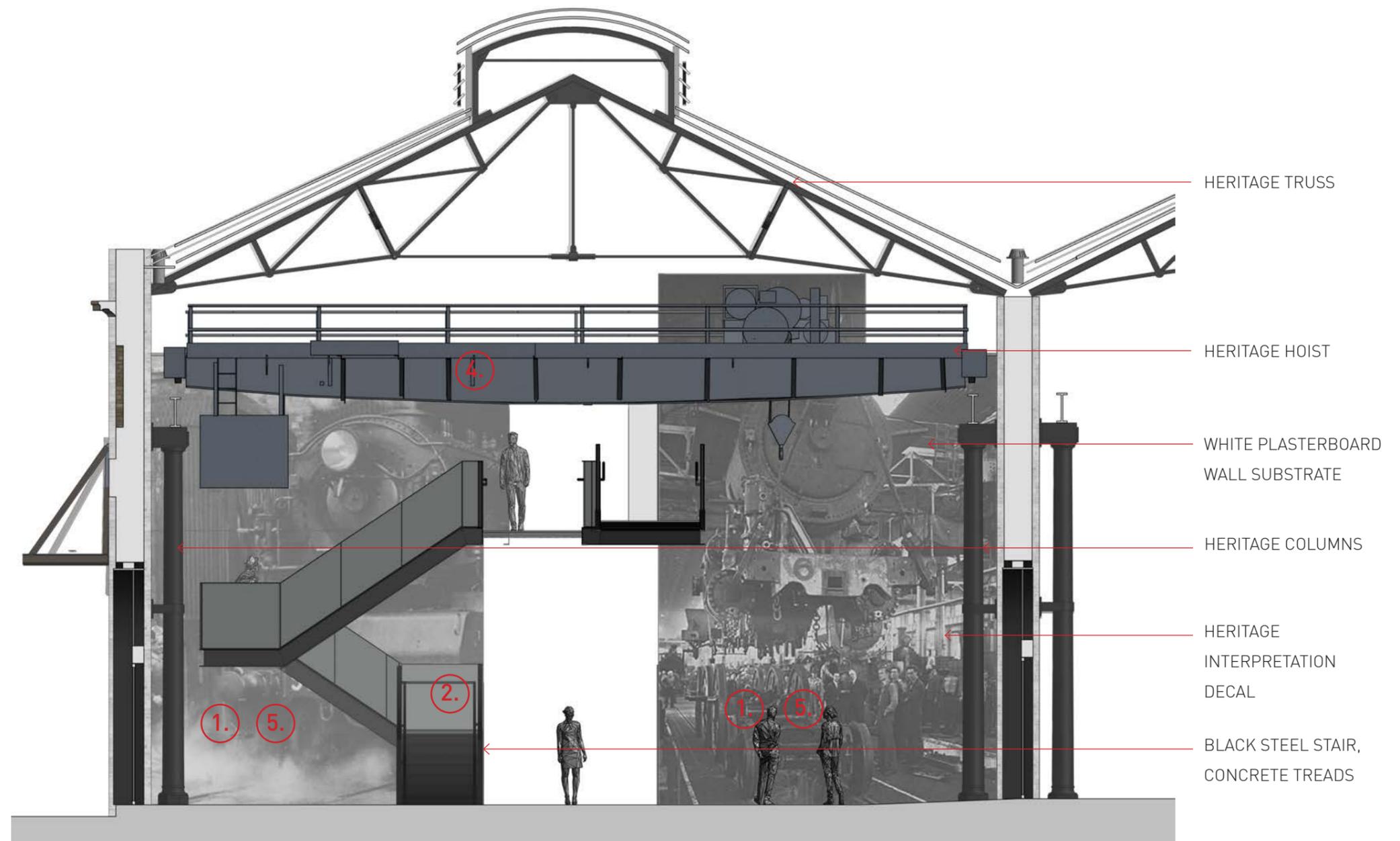


15.03 BAY 15 ATRIUM GRAPHICS

LARGE SCALE DECAL

The double height space in the Bay 15 central spine presents an opportunity to utilise the facing wall space for a large scale, high impact heritage image.

The image will be located in the primary cyclist access point at the westernmost point of the central spine, adjacent to the bike store and end of trip areas, as well as being visible from the commercial tenancies in Bay 15.



KEY PLAN



15.03 BAY 15 ATRIUM GRAPHICS

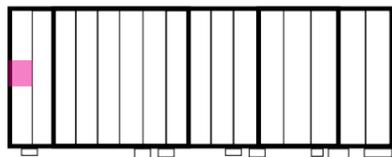
LARGE SCALE DECAL

The full height walls in Bay 15 provide an expansive canvas for evocative heritage imagery which can be enjoyed from the public areas of the building.

The final image content is to be determined by the heritage consultant.



3D VIEW - BAY 15 ATRIUM GRAPHIC



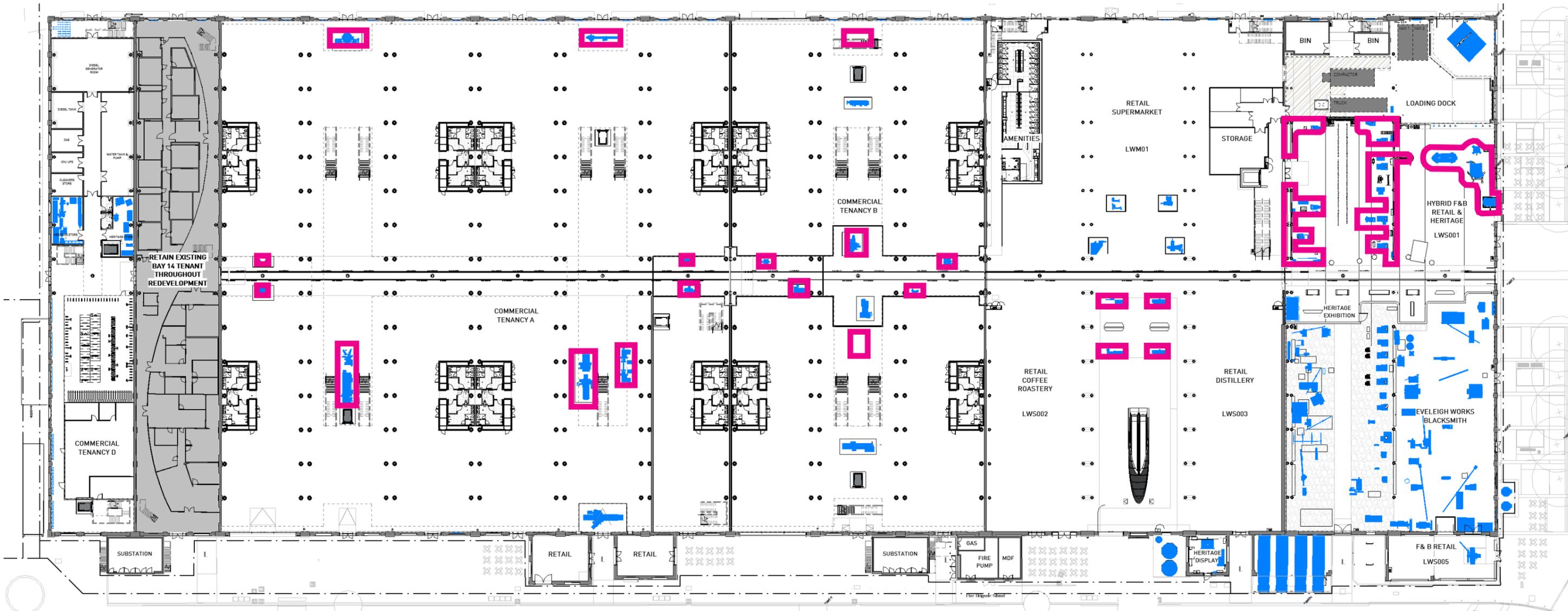
KEY PLAN



16.01 MACHINERY DISPLAY

16.01 MACHINERY DISPLAY

LOCATION PLAN - GROUND FLOOR



16.01 MACHINERY DISPLAY

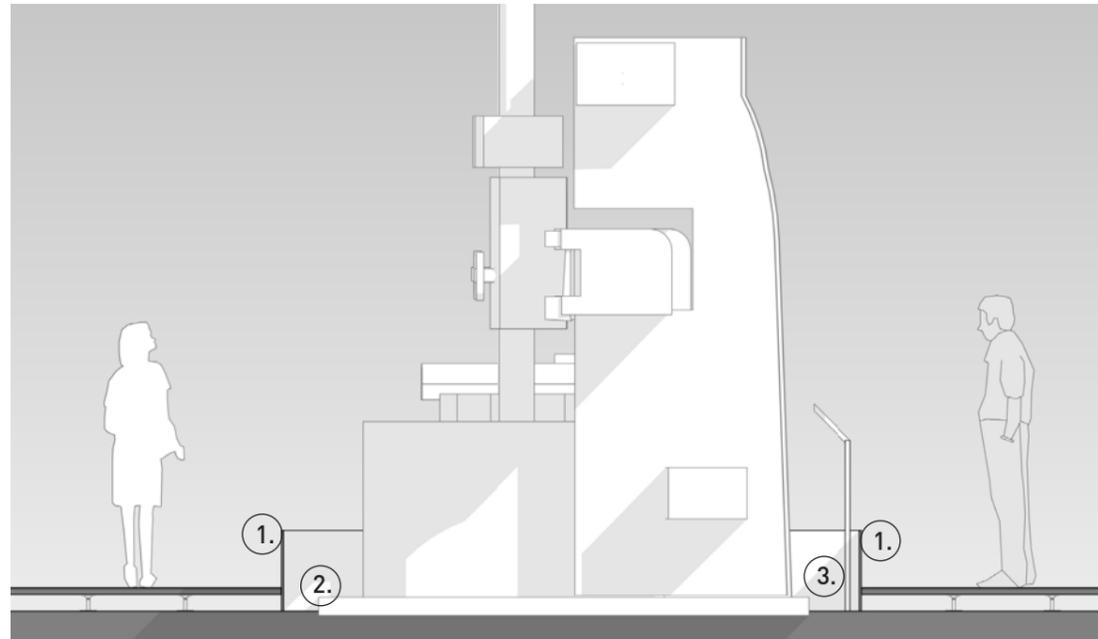
MACHINE SURROUNDS

Heritage machinery displayed throughout the building is to have a uniform treatment, consisting of a low level plate steel panel barrier, as well as a simple, finely detailed plate steel balustrade. The machinery is to sit on the existing ground level, sunk below the new floor build up, giving a sense of permanence to the display. Inside the machinery surrounds a layer of dirt or gravel fill is proposed, to indicate the original way in which the machines would have been situated and used.

This edge condition is designed to ensure that the machinery is clearly visible throughout the space, without solid high level barriers blocking site lines to the equipment.

The materials for the machinery surrounds will be a continuation of the simple monochromatic base build palette, utilising black plate steel and a sympathetic gravel fill.

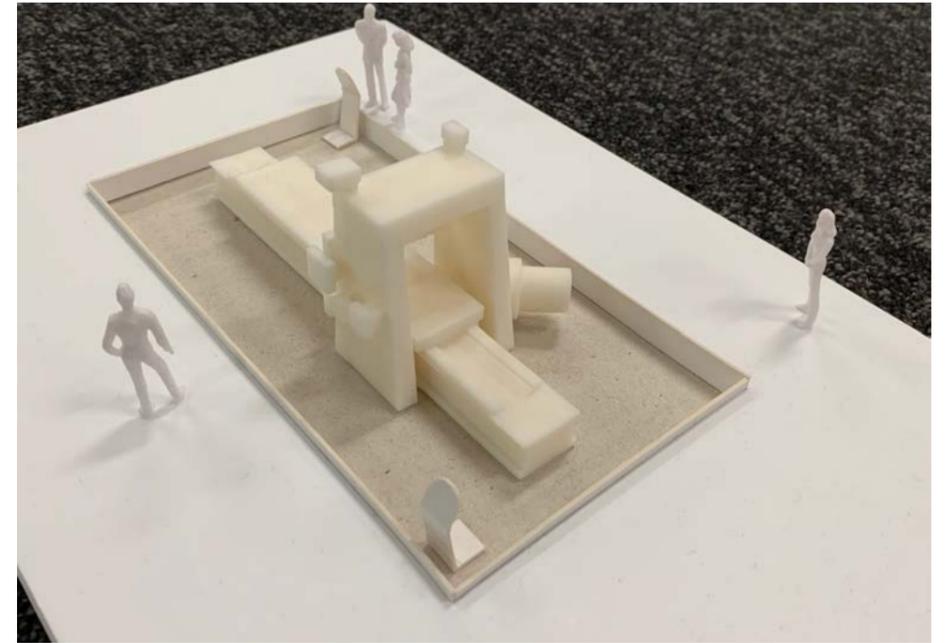
The intention is for the barrier to be 350mm in height measured from finished floor level. If a handrail detail is determined to be required, the approach detailed on the following page is proposed.



① PLATE STEEL EDGE BARRIER

② DIRT / GRAVEL FILL

③ CONCRETE SUBSTRATE



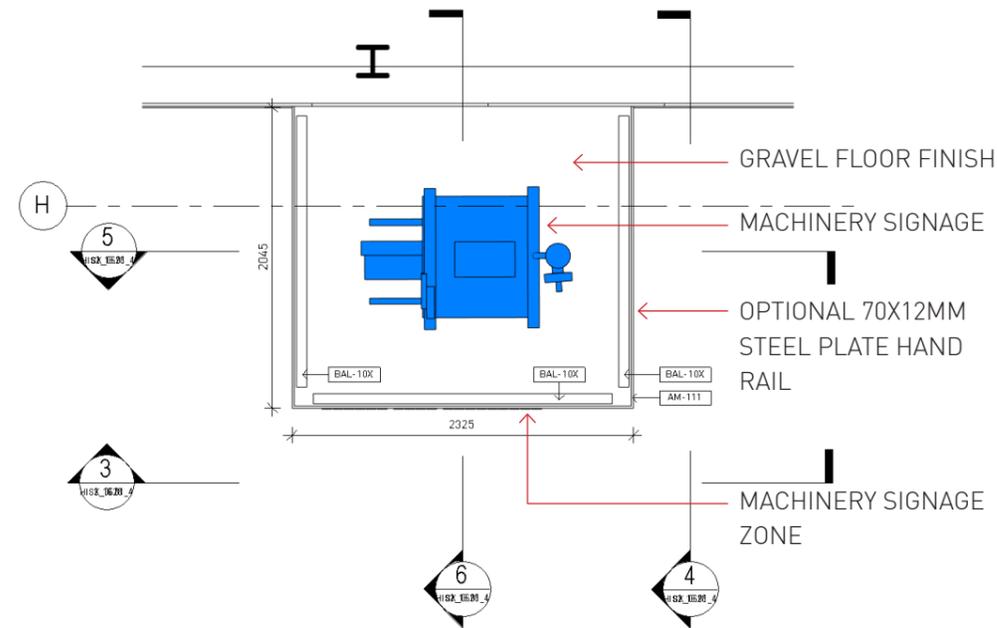
KEY PLAN



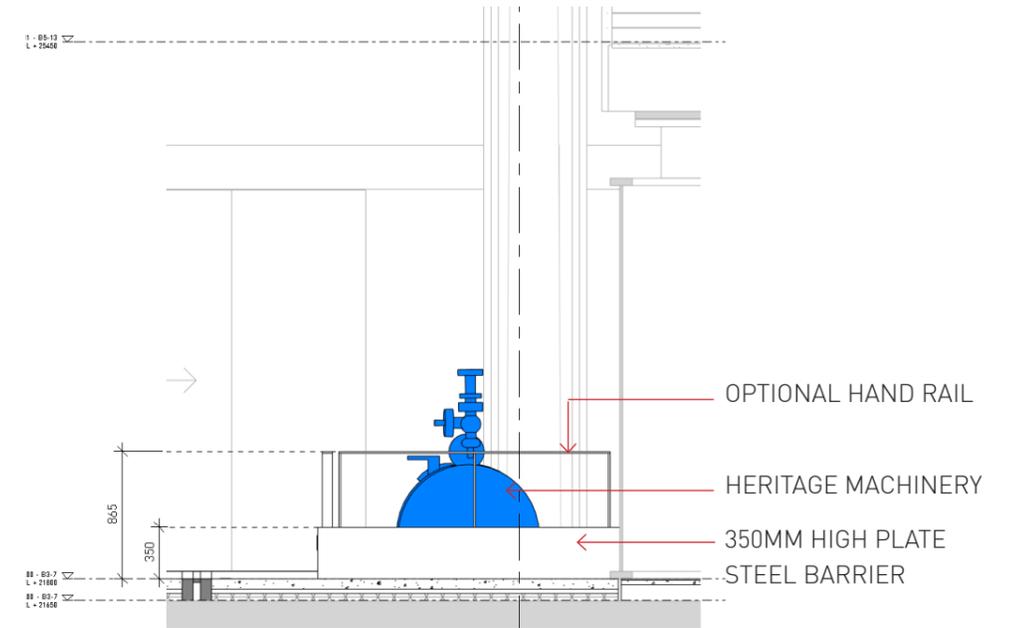
16.01 MACHINERY DISPLAY

MACHINE SURROUNDS

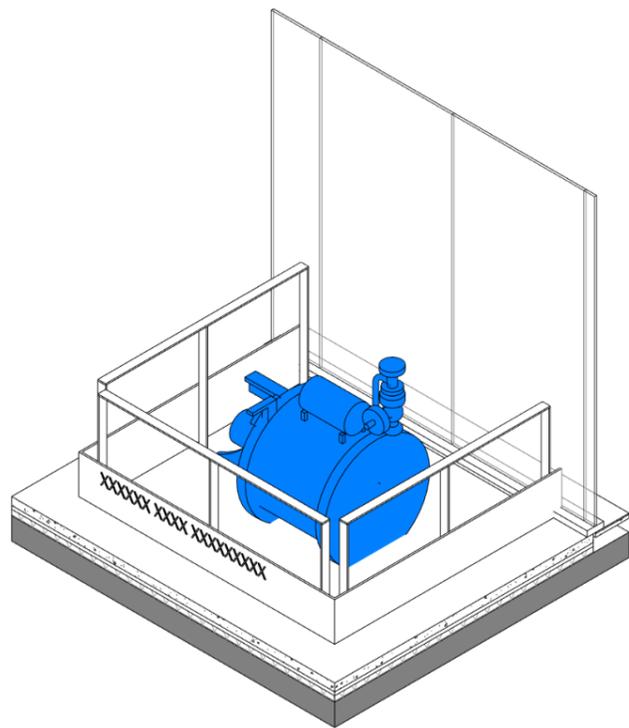
Details of the proposed heritage machinery surrounds are shown in the adjacent drawings. The intention is for the barrier to be 350mm in height. If a handrail detail is determined to be required, the detail below is proposed.



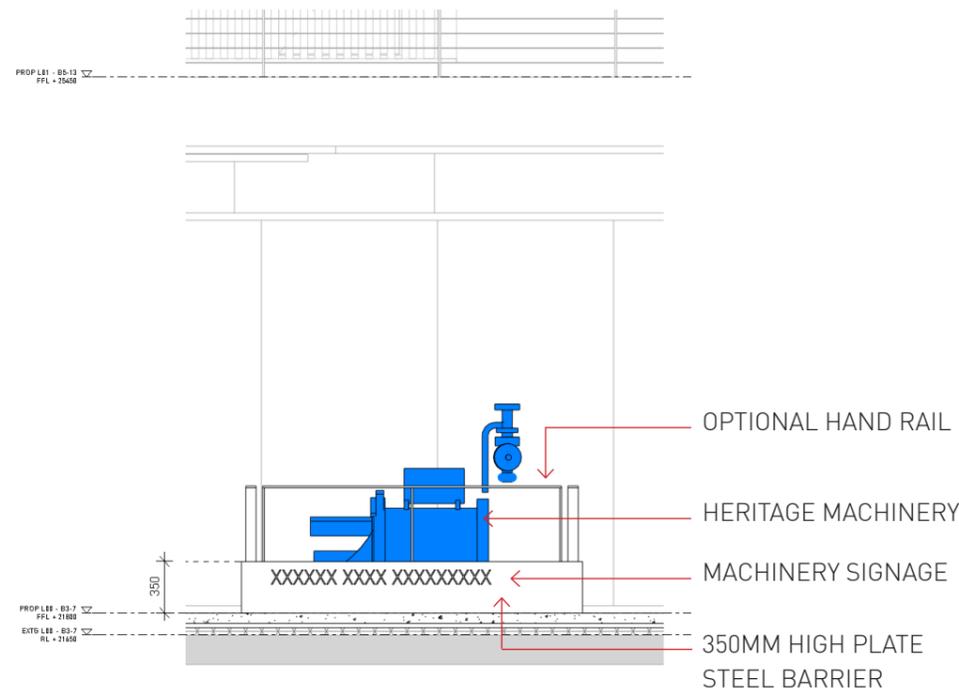
HERITAGE MACHINERY DISPLAY - PLAN



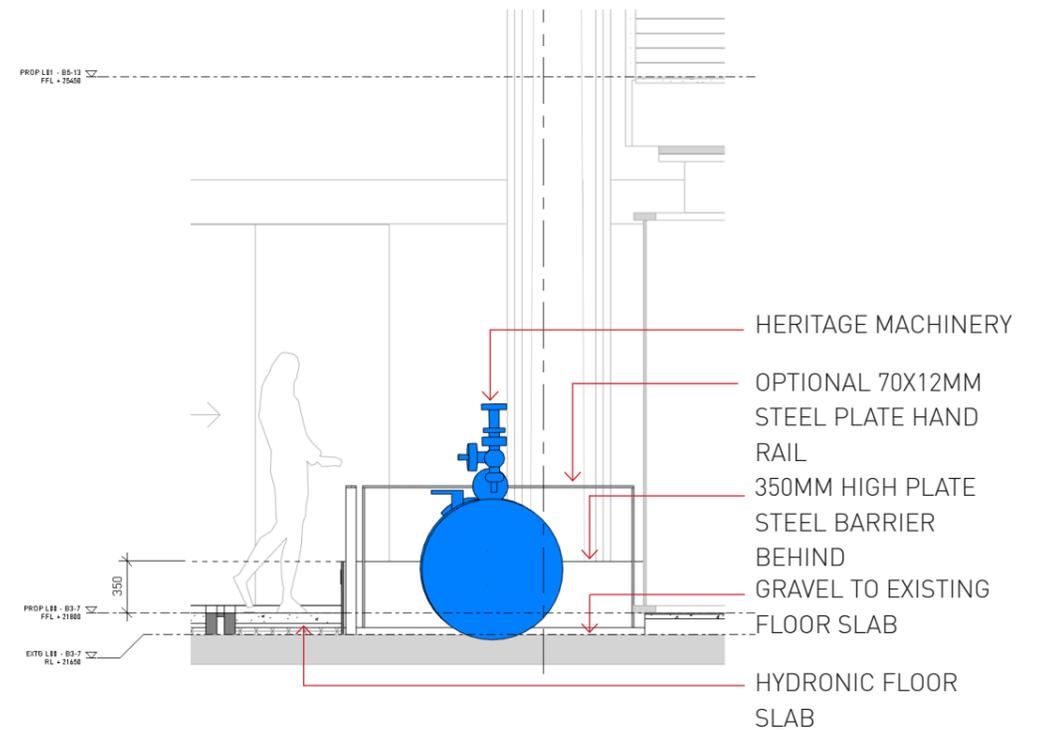
HERITAGE MACHINERY DISPLAY - ELEVATION 1



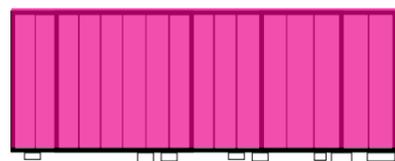
HERITAGE MACHINERY DISPLAY - ISOMETRIC



HERITAGE MACHINERY DISPLAY - ELEVATION 2

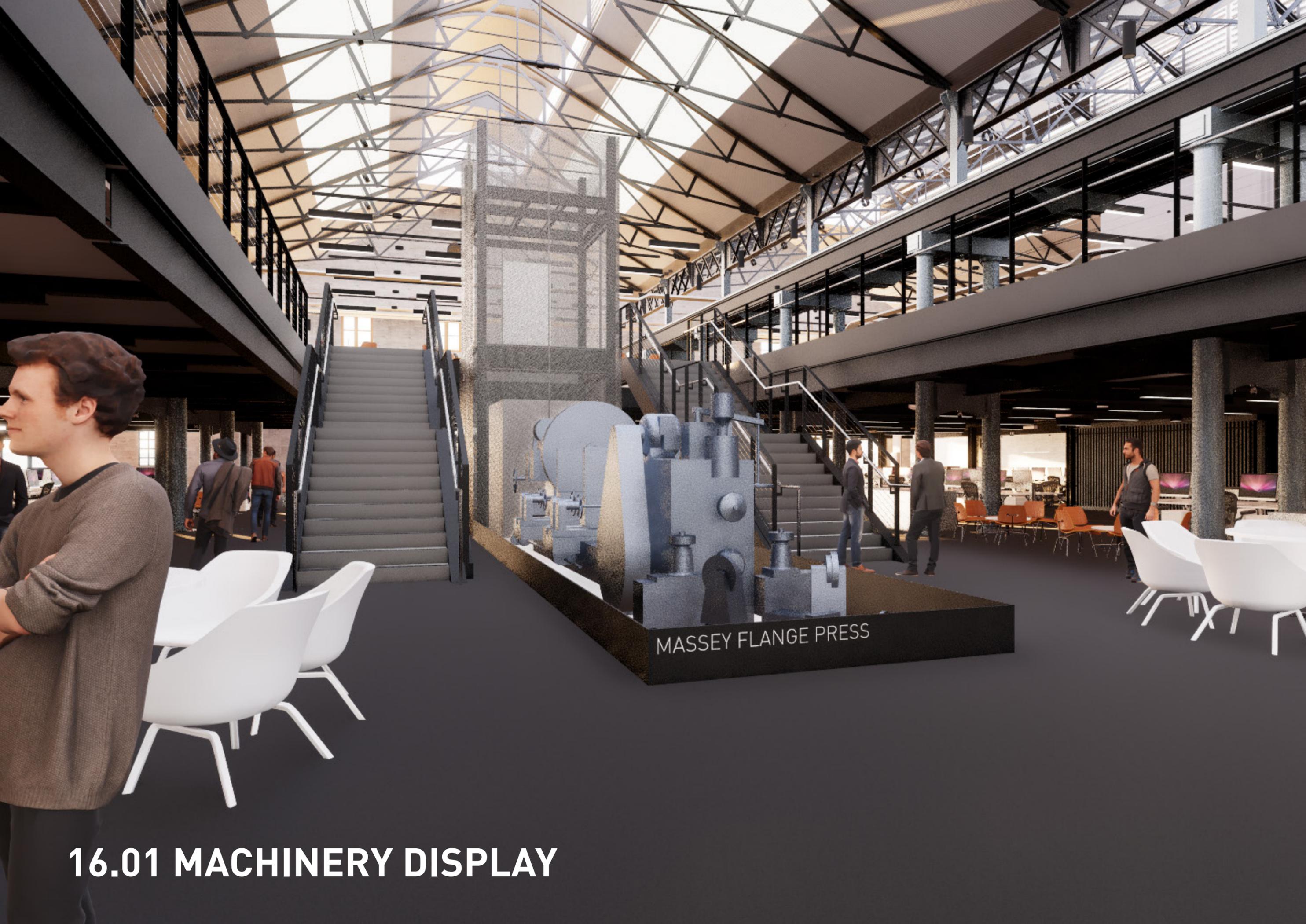


HERITAGE MACHINERY DISPLAY - SECTION



KEY PLAN





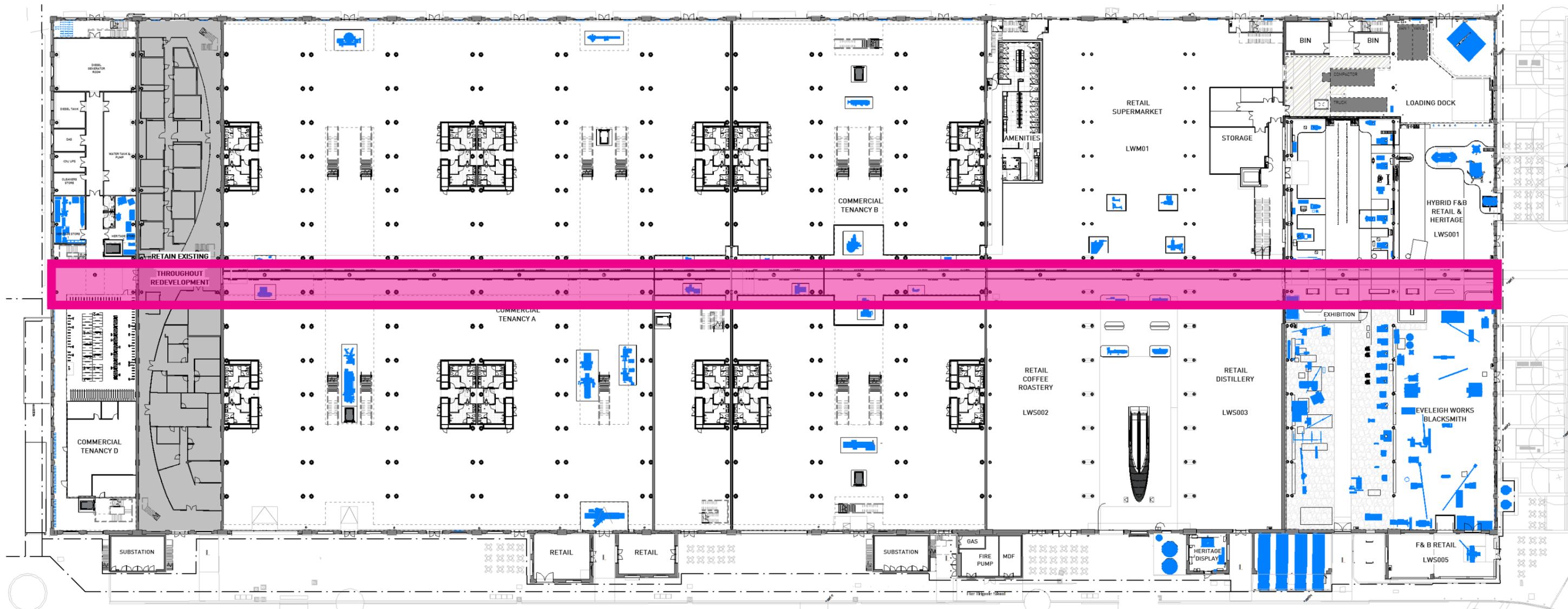
MASSEY FLANGE PRESS

16.01 MACHINERY DISPLAY

**16.02 CENTRAL SPINE TRACK REVEALS
+ BAY NUMBERING**

16.02 CENTRAL SPINE TRACK REVEALS + BAY NUMBERING

LOCATION PLAN - GROUND FLOOR

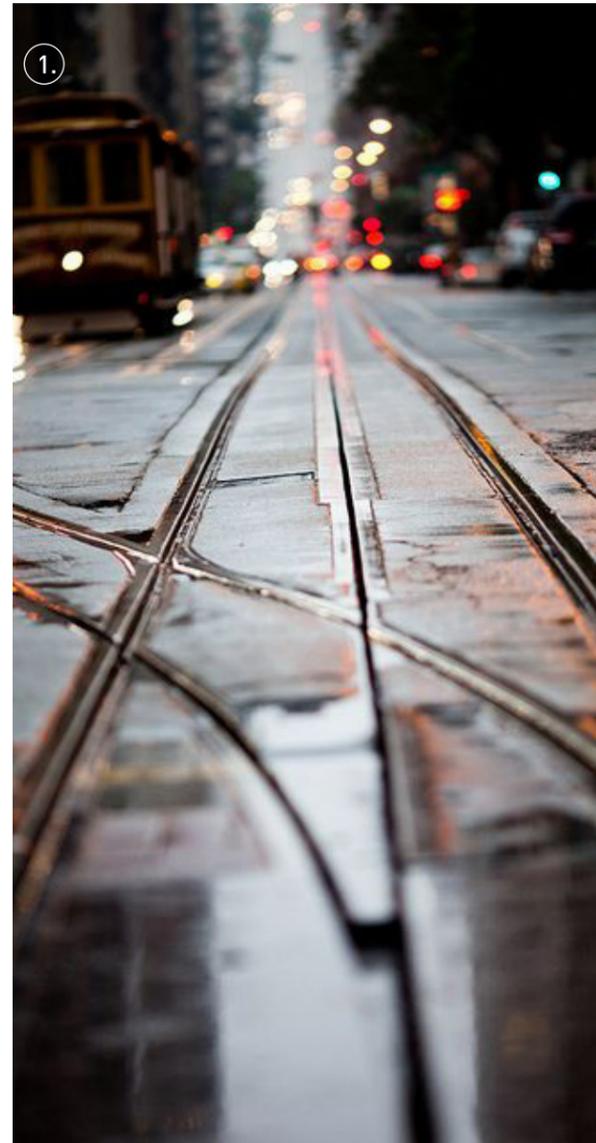


16.02 CENTRAL SPINE TRACK REVEALS + BAY NUMBERING

TRACK INLAYS

An existing set of railway tracks running east-west through the Workshop was the original working spine of the building, where locomotives were wheeled in and out as repairs were under taken by various trades.

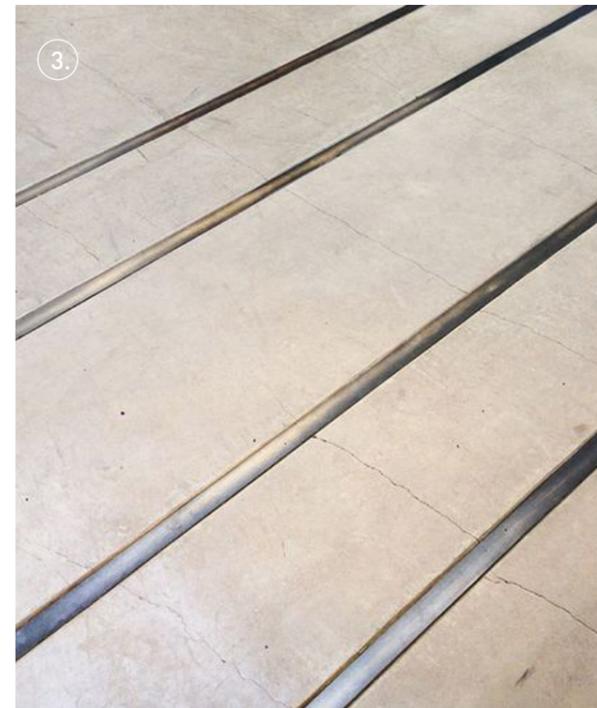
The central axis of the building is to remain the primary pedestrian circulation spine, and the original tracks are to be celebrated through the installation of new mild steel tracks inlaid into the concrete floor finish.



① TRAM TRACKS



② BRASS INLAY STRIP IN CONCRETE FLOOR



③ MILD STEEL TRACKS IN CONCRETE FLOOR



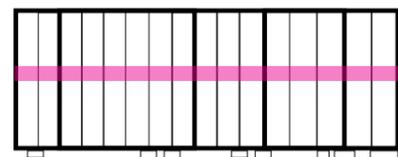
④ CONCRETE FLOOR FINISH



⑤ JAPANESE 'KINTSUGI' STYLE GOLD INLAY



⑥ METAL INLAY TEXT



KEY PLAN

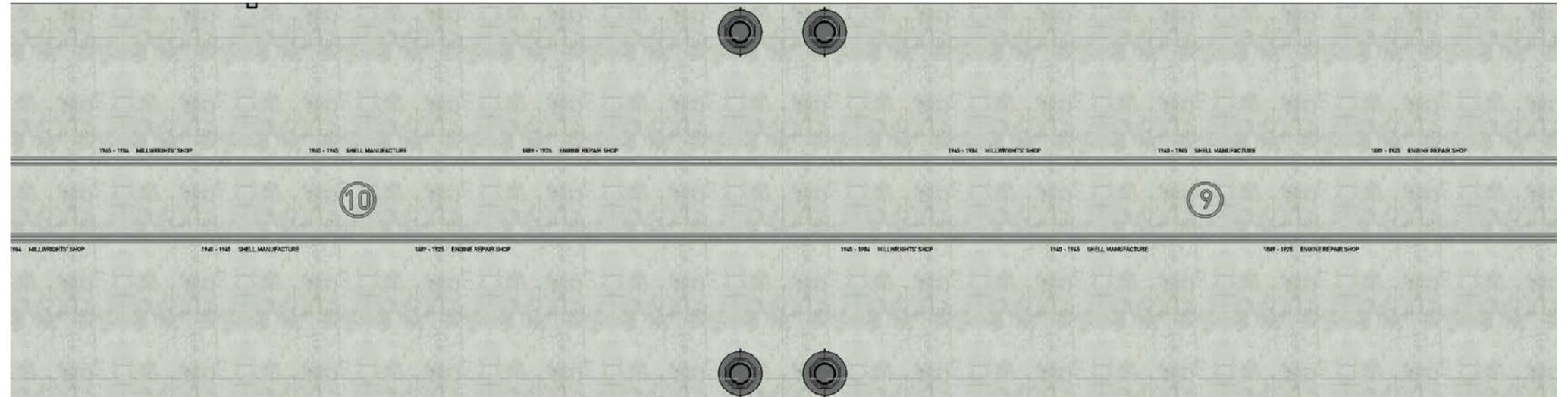


16.02 CENTRAL SPINE TRACK REVEALS + BAY NUMBERING

BAY NUMBER INLAYS

The images to the right demonstrate the intended central spine interpretive track inlays. The inlays are to be laid to match the dimensions of the existing tracks which run through Innovation Plaza and Bays 1 and 2.

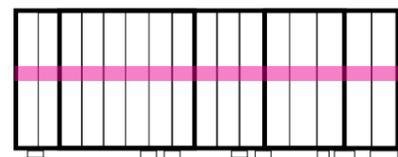
In conjunction with the new metal inlay tracks, additional information about the bays is proposed to be inlaid in the form of metal text.



EXAMPLE OF INTERPRETIVE INLAY TIME LINE TEXT DOWN CENTRAL SPINE - TEXT TO BE DETERMINED BY HERITAGE CONSULTANT



EXAMPLES OF METAL INLAY TEXT IN BUILT APPLICATIONS



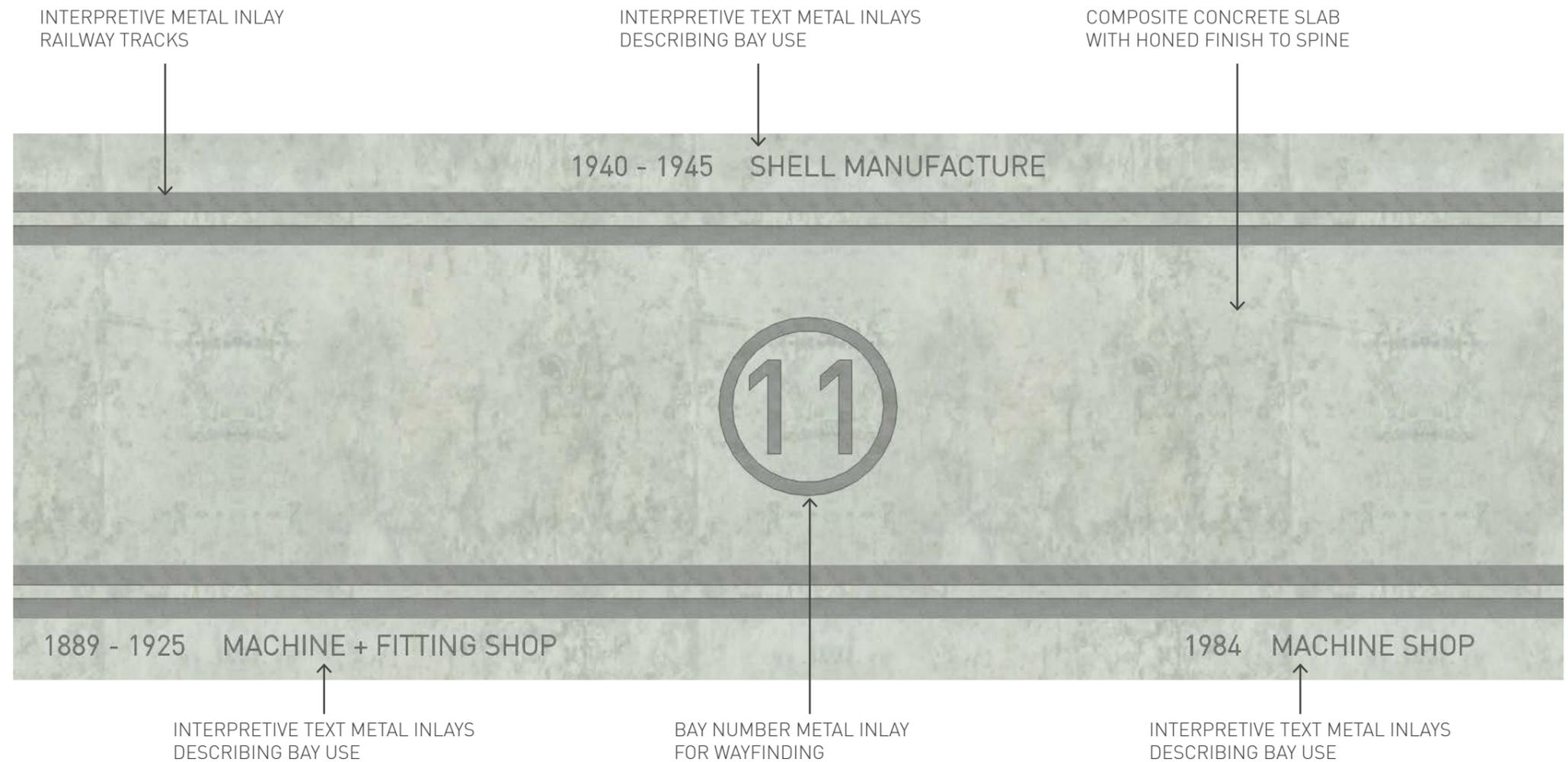
KEY PLAN



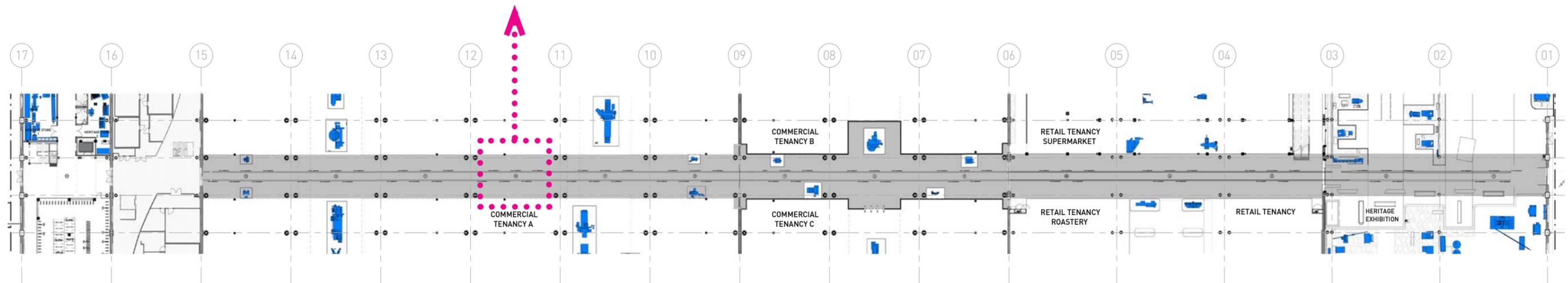
16.02 CENTRAL SPINE TRACK REVEALS + BAY NUMBERING

BAY NUMBER INLAYS

For way finding purposes, bay numbers are to be inlaid at the centre of each bay, as shown in image 1. Additional text describing the historic uses of the bays over the period of the Workshop's lifetime is to be inlaid to the north and south of the inlay tracks.



PLAN CALLOUT DETAIL - CENTRAL SPINE INTERPRETIVE INLAYS

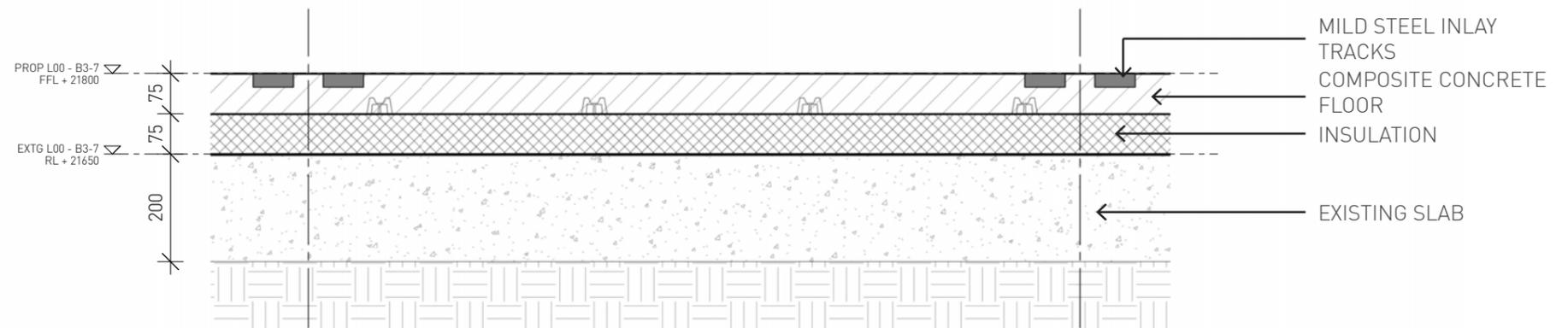


KEY PLAN - CENTRAL SPINE INTERPRETIVE INLAYS

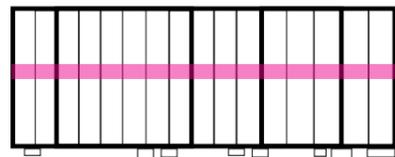
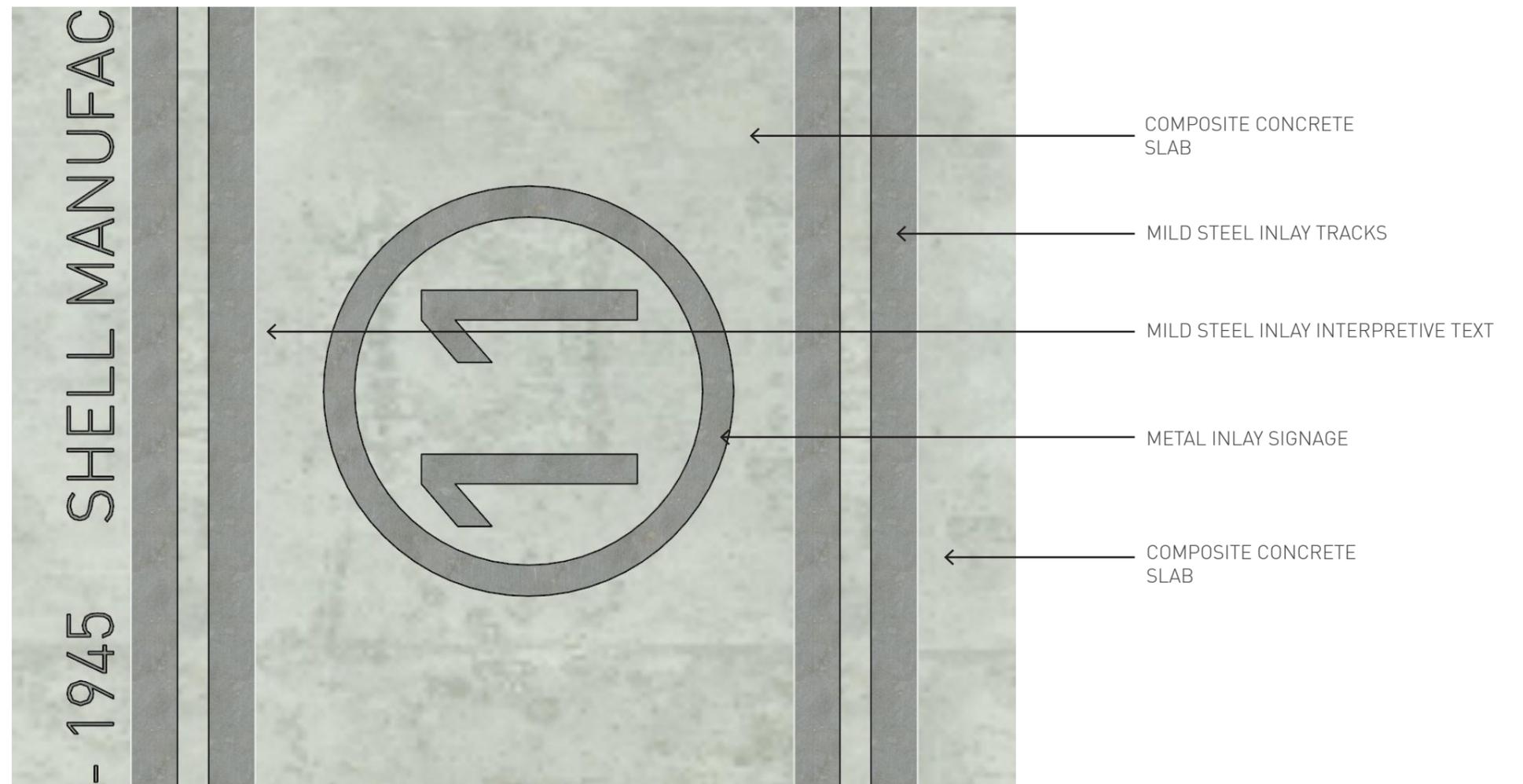
16.02 CENTRAL SPINE TRACK REVEALS + BAY NUMBERING

BAY NUMBER INLAYS

The floor material throughout the central spine is to be composite concrete slab, with a honed finish. The slab construction is proposed as per the detail to the right, with the inlay tracks and text sitting within the concrete to a depth appropriate for maintenance and to resist wear and tear.



SECTION DETAIL - CENTRAL SPINE INLAY TRACKS



KEY PLAN





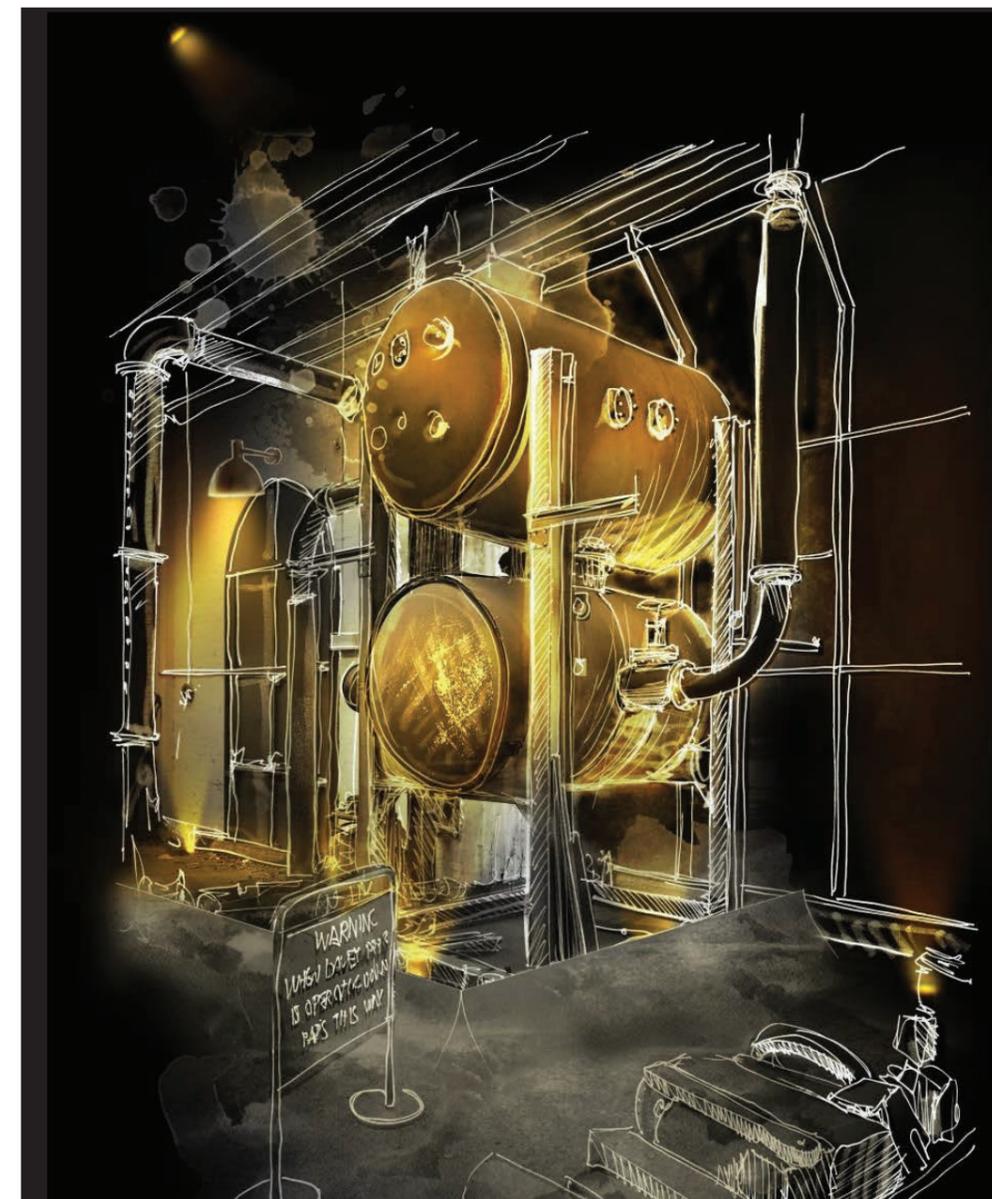
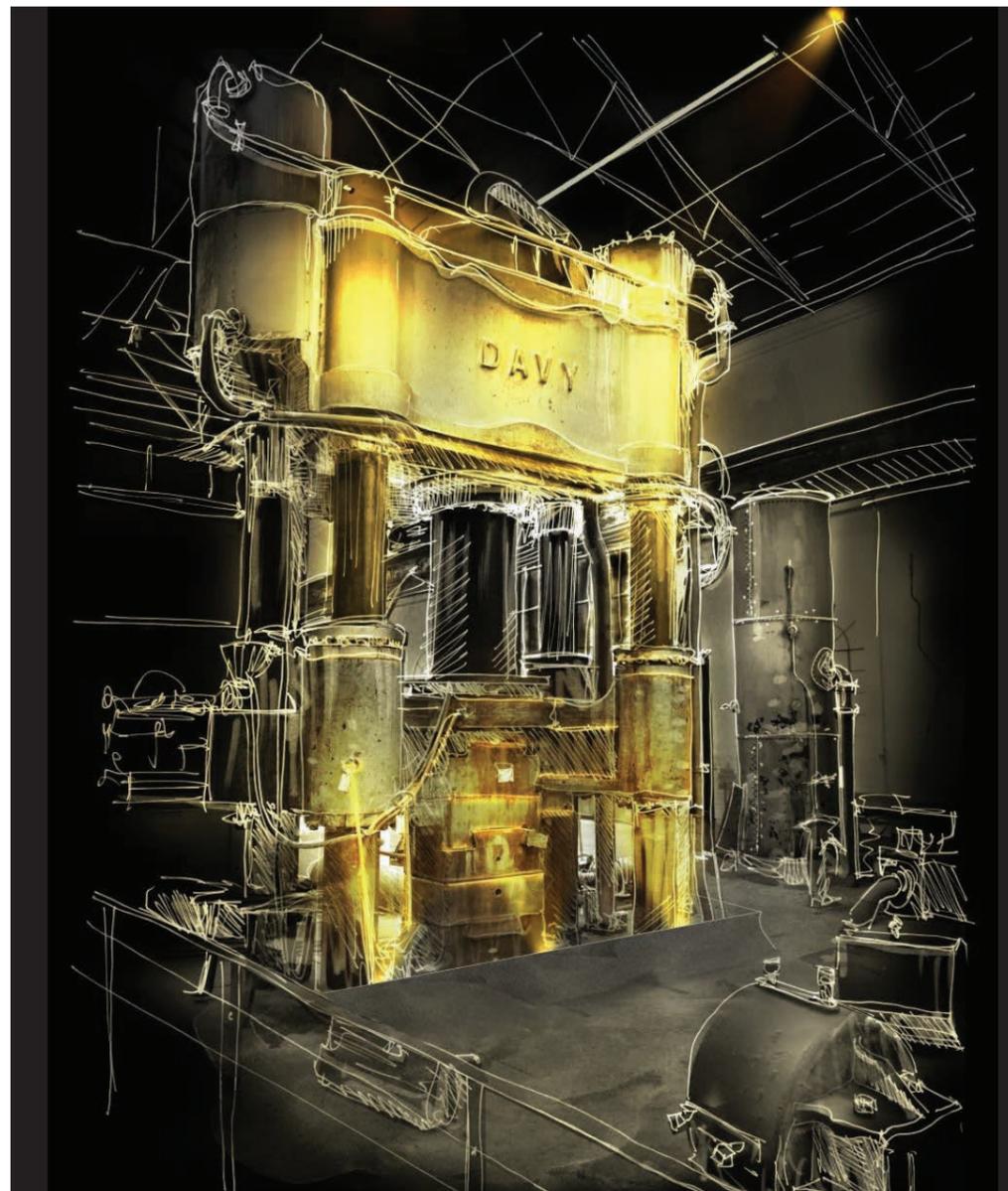
**16.04 ILLUMINATION STRATEGY OF
ARTEFACTS + MACHINERY**

LIGHTING STRATEGY

INTERNAL LIGHTING

Internal lighting can be broken down into three main categories - heritage machinery, heritage structure, and ambient lighting.

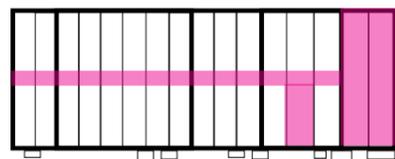
Firefly Point of View have prepared a lighting strategy for the Workshop which describes the approach to lighting in the Locomotive Workshop, as shown in the images adjacent.



FIREFLY POINT OF VIEW HERITAGE MACHINERY LIGHTING STRATEGY



SECTION - FIREFLY POINT OF VIEW CENTRAL SPINE LIGHTING STRATEGY, BAYS 1-7



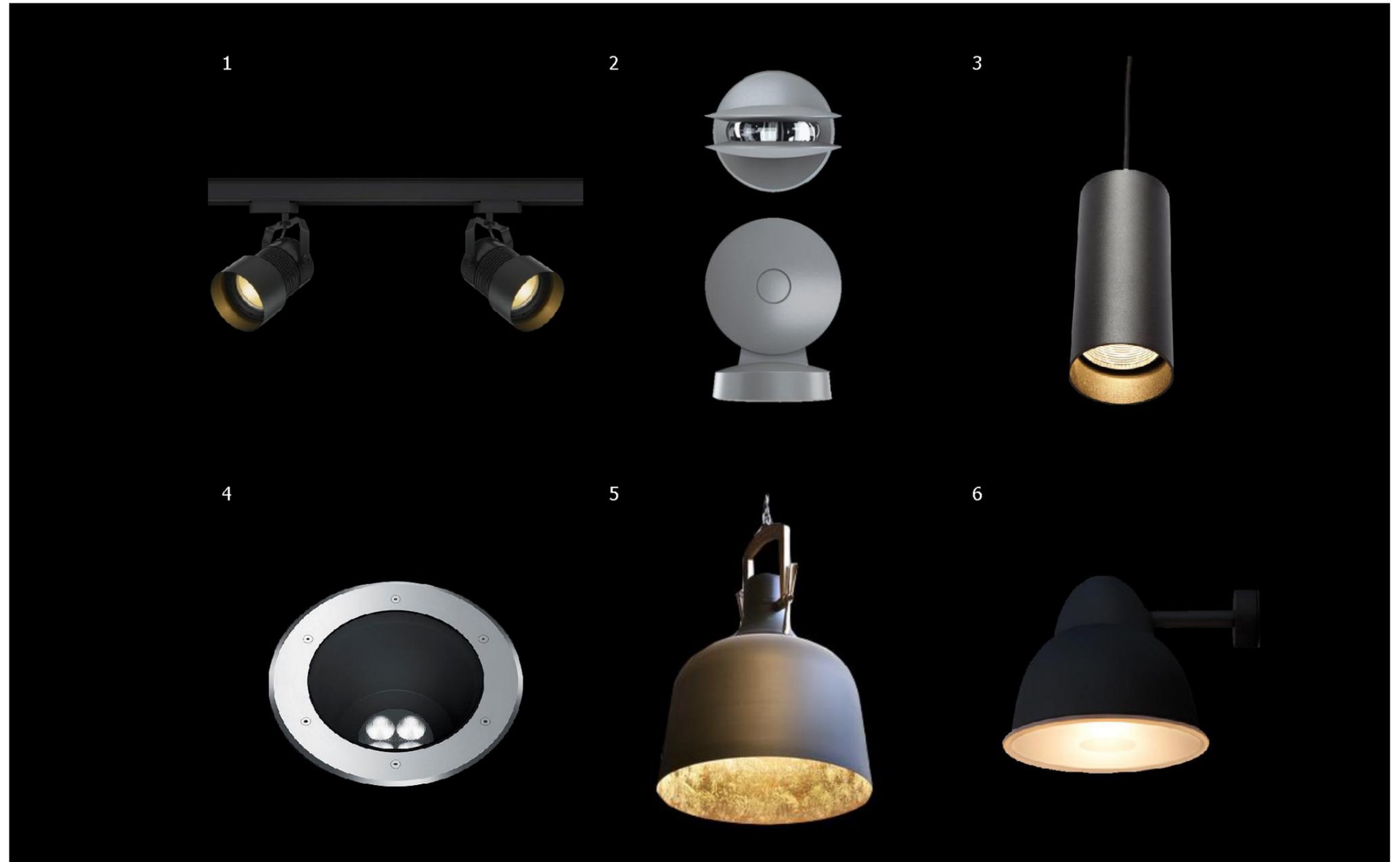
KEY PLAN



LIGHTING STRATEGY

INTERNAL LIGHTING

The adjacent images show a selection of the lighting fittings proposed throughout the Locomotive Workshop by Firefly Point of View.



LUMINAIRE TYPOLOGY - FIREFLY POINT OF VIEW

ARCHITECTURAL

① TRACK AND SPOT LIGHTS EXAMPLE

② FEATURE 360 LIGHT EFFECT EXAMPLE

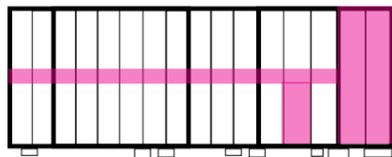
③ SURFACE MOUNT DOWNLIGHT EXAMPLE

④ IN GROUND UPLIGHT EXAMPLE

DECORATIVE

⑤ PENDANT

⑥ WALL LIGHT



KEY PLAN



17.00 EXTERNAL ITEMS

17.01 EXTERNAL GROUND INLAYS

LOCATION PLAN - GROUND FLOOR



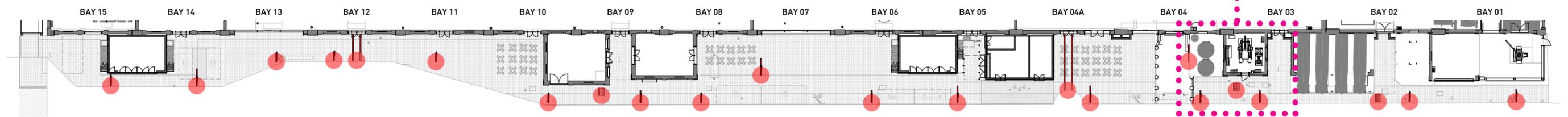
17.01 EXTERNAL GROUND INLAYS

INTERPRETIVE TEXT

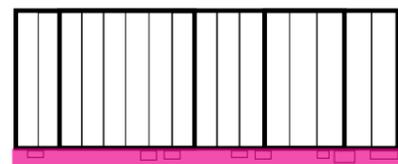
The external ground inlays shown to the right are to be scattered throughout the public domain along Locomotive Street as indicated in the key plan below. The text content for each inlay has been advised by the heritage consultant and is shown in the adjacent diagram.



3D VIEW - EXTERNAL BAY NUMBERING



PLAN EXTRACT - EXTERNAL BAY NUMBER LOCATIONS



KEY PLAN

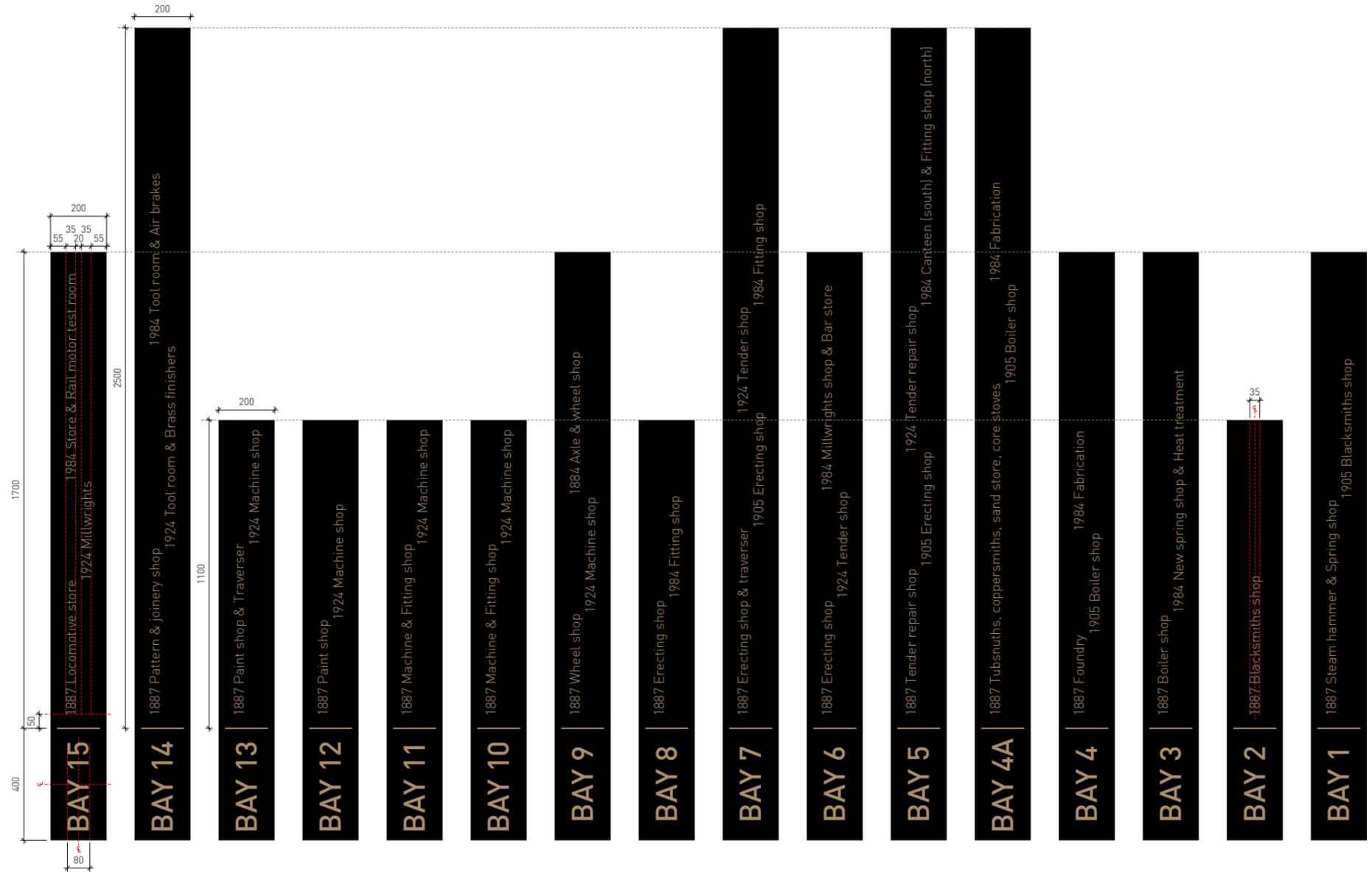


17.01 EXTERNAL GROUND INLAYS

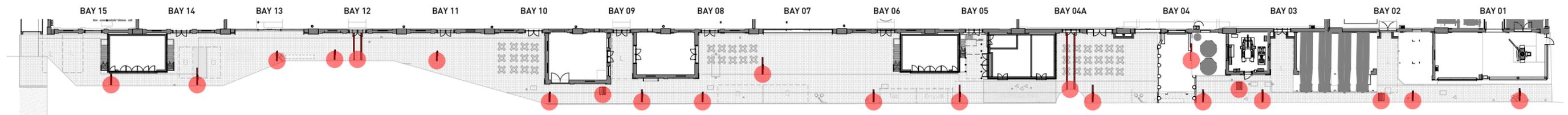
TECHNICAL DETAILS

Due to the varying lengths of the text content, three different sizes of inlay have been determined which will be utilised as required. The diagram to the right indicates the design and text content of each external ground inlay running the length of Locomotive Street.

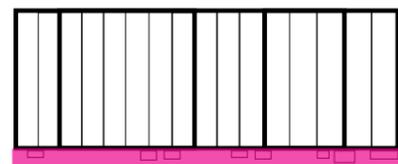
The inlays will be constructed of brass panels with embossed text.



EXTERNAL GROUND INLAYS - TEXT CONTENT



PLAN EXTRACT - EXTERNAL GROUND INLAY LOCATIONS



KEY PLAN



17.03 PUMPHOUSE PROJECTION

LOCATION PLAN - GROUND FLOOR



17.03 PUMPHOUSE PROJECTION

EXTERNAL VIEW

The Pumhouse entrance is to be differentiated from the other openings along the facade by a deeper metal 'hood', to be constructed of black steel or aluminium.

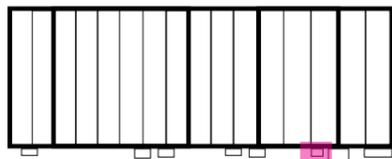
The hood provides a degree of weather protection to visitors observing the display within the Pumhouse.

The hood also casts shadow over the glazing to minimise reflection, so that the display can be seen clearly.

A new concrete step is to be provided to the sandstone sill to allow visitors to get close to the glass.



PUMPHOUSE EXTERIOR - 3D VIEW



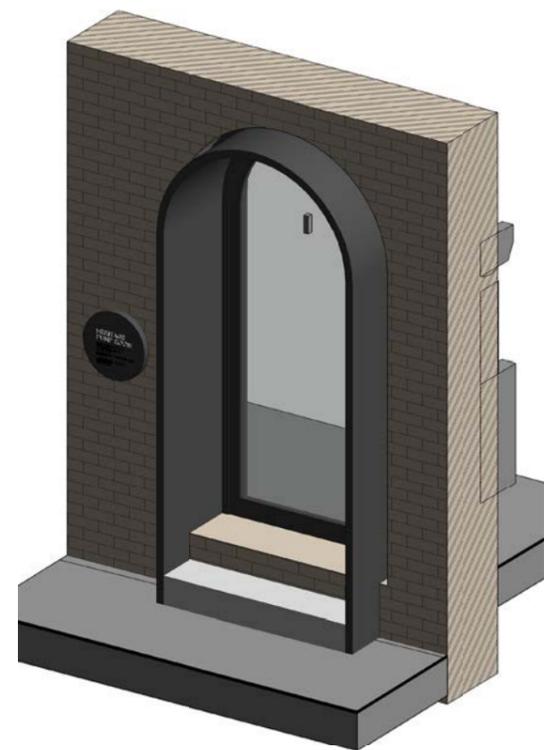
KEY PLAN



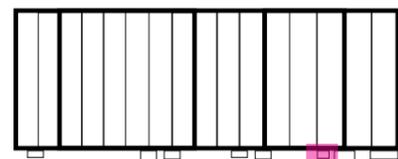
17.03 PUMPHOUSE PROJECTION

TECHNICAL DETAILS

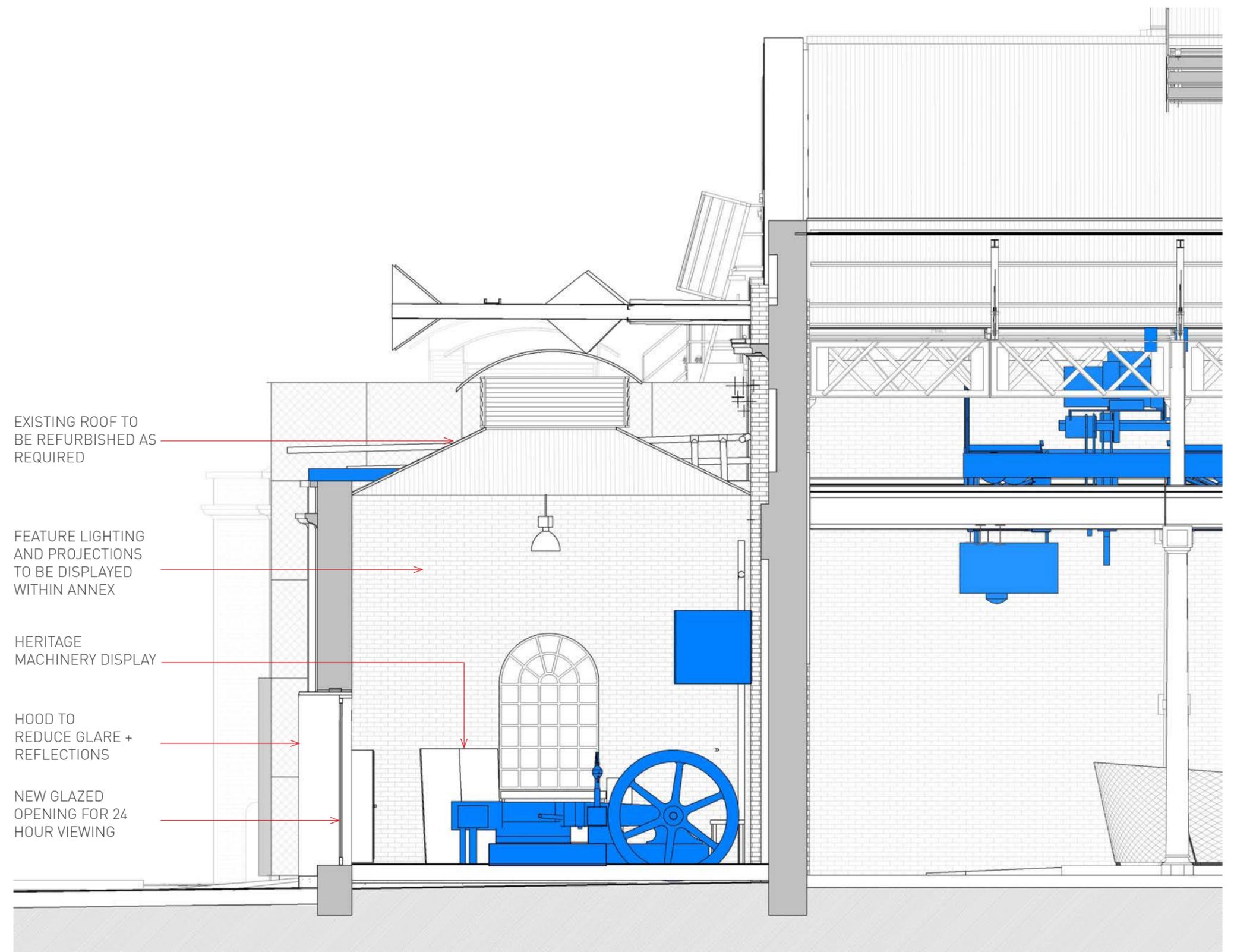
The interior of the Pumphouse houses an existing heritage display which will be further enhanced by new lighting and projections within the space.



NEW GLAZED OPENING TO PUMPHOUSE



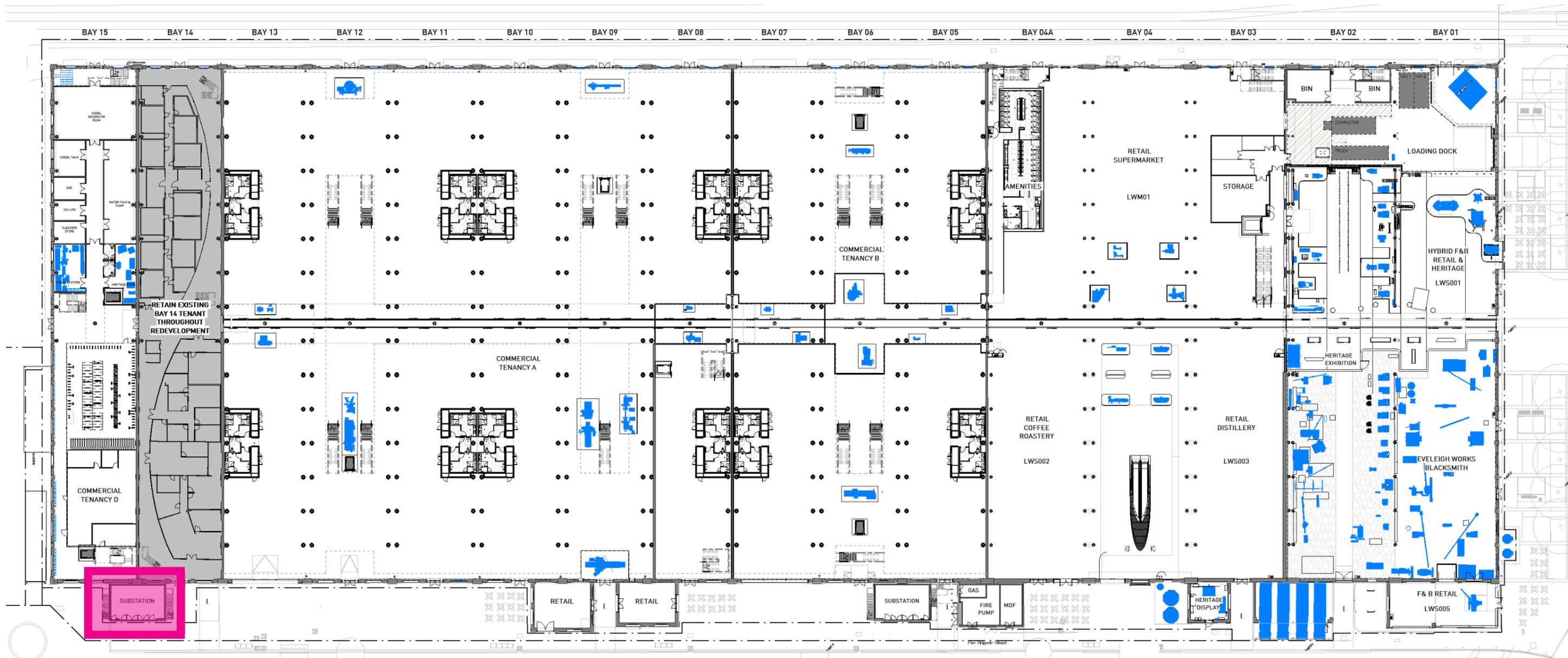
KEY PLAN



PUMPHOUSE PROJECTION - SECTION

17.04 RED SQUARE ANNEX

LOCATION PLAN - GROUND FLOOR



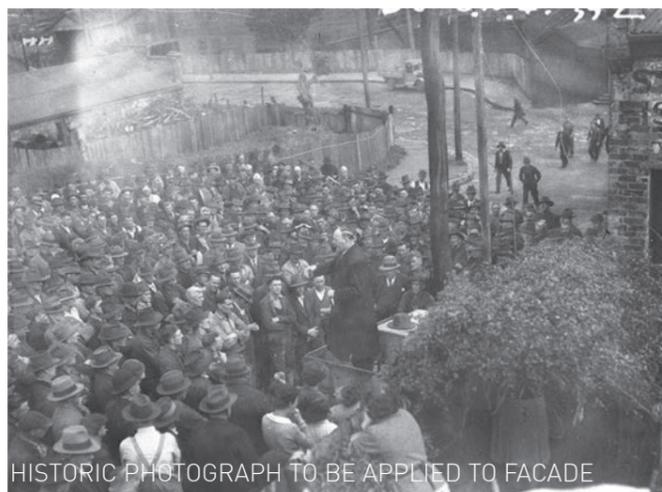
17.04 RED SQUARE ANNEX

UNION HERITAGE

Red Square was an historically significant part of the site, where meetings were held which formed the early unionist movement in Australia.

This significance is to be celebrated at the annex between bay 14 and 15. The plant annex is to be clad in perforated metal, the elevation of which will have an historic image applied as a decal (see image below for reference). The concrete substrate behind is then to be lit red, drawing the eye and emphasising the significance of the site.

A red oxide concrete inlay is to be installed in the ground plane to further interpret the history of Red Square, with inlaid metal text telling the story for visitors to the site.



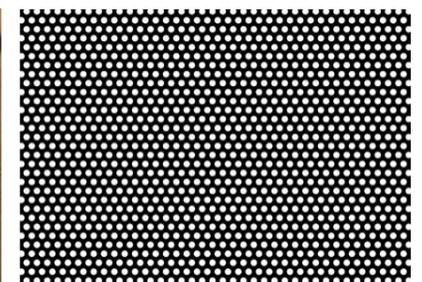
HISTORIC PHOTOGRAPH TO BE APPLIED TO FACADE



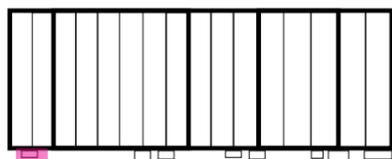
RED OXIDE CONCRETE INLAY - CONCRETE COLOUR SOLUTIONS IN DESERT RED



METAL INLAY TEXT EXPLAINING SIGNIFICANCE OF RED SQUARE



BLACK PERFORATED METAL PANELS



KEY PLAN



17.04 RED SQUARE ANNEX

UNION HERITAGE

At night, Red Square will be illuminated with red light, providing night time activation to the eastern end of the site, and clearly interpreting the union heritage of the Locomotive Workshop.



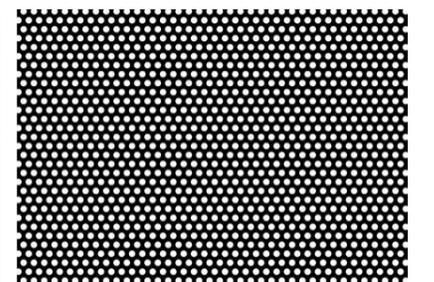
HISTORIC PHOTOGRAPH TO BE APPLIED TO FACADE



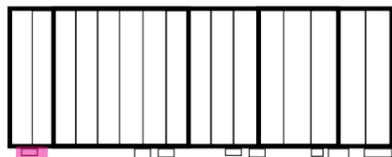
RED OXIDE CONCRETE INLAY - CONCRETE COLOUR SOLUTIONS IN DESERT RED



METAL INLAY TEXT EXPLAINING SIGNIFICANCE OF RED SQUARE



BLACK PERFORATED METAL PANELS

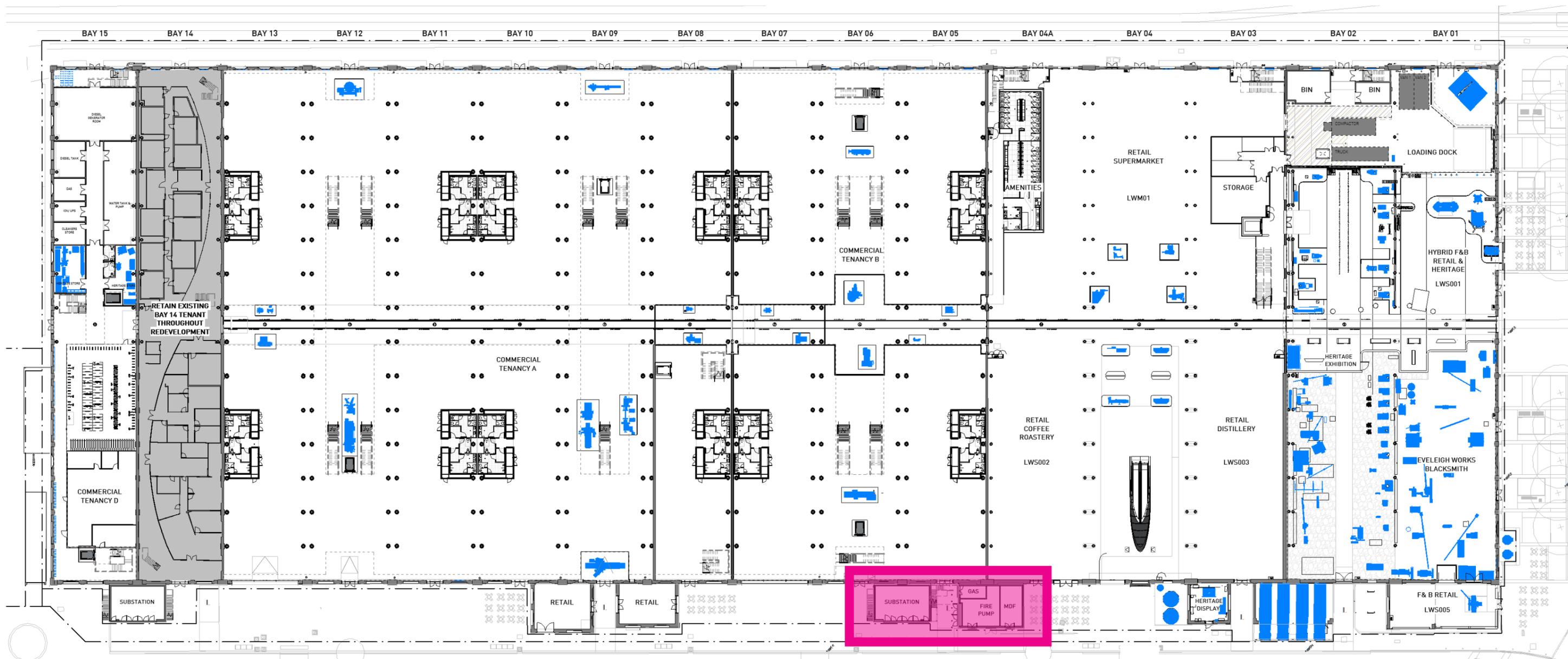


KEY PLAN



17.05 TIME CARD ANNEXES

LOCATION PLAN - GROUND FLOOR

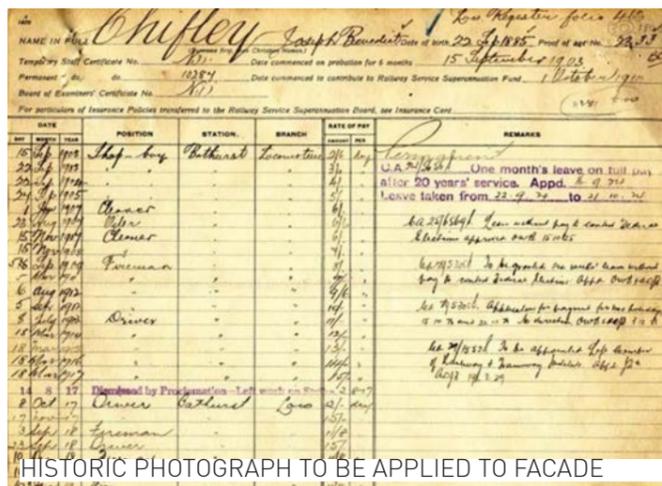
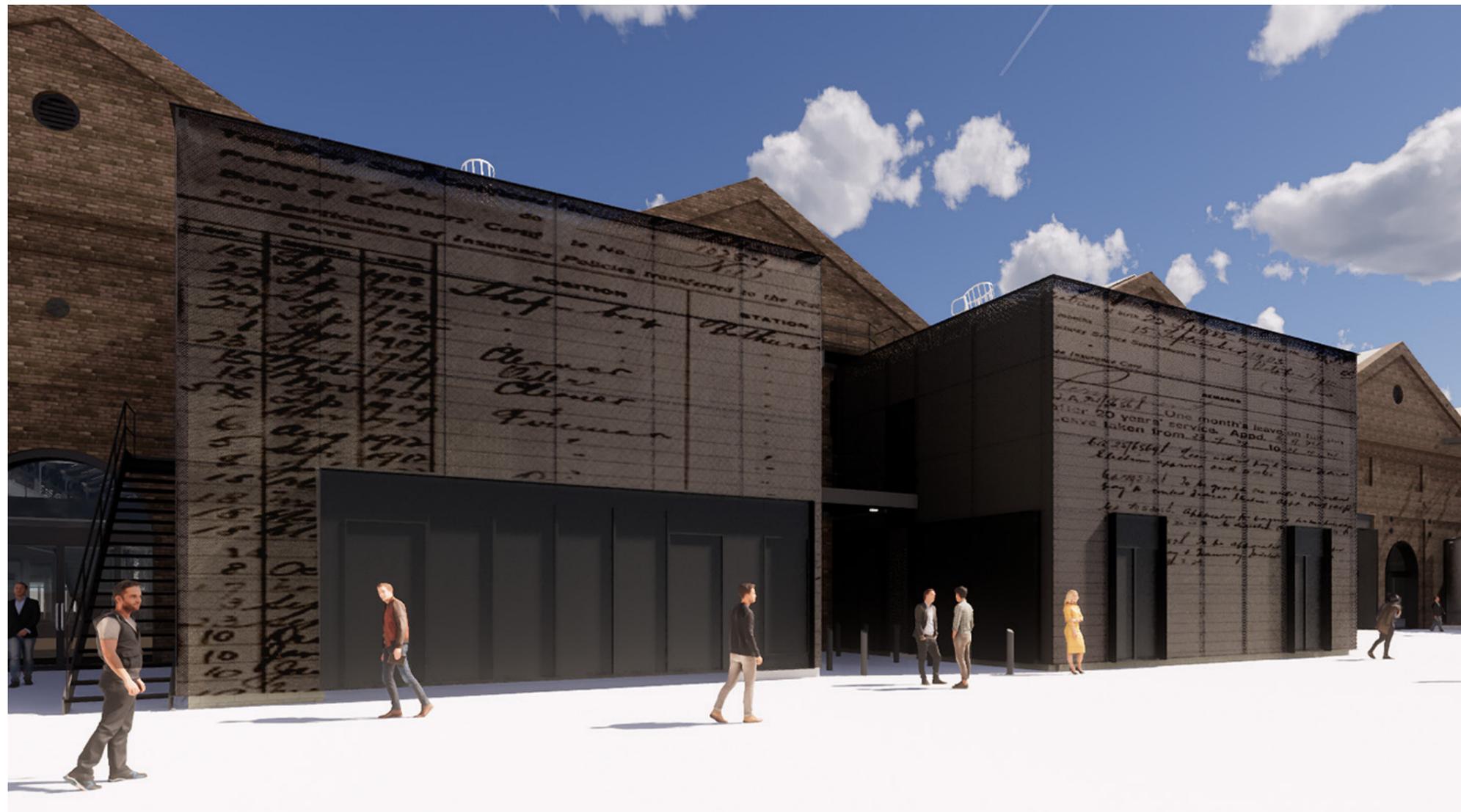


17.05 TIME CARD ANNEXES

UNION HERITAGE

The annexes at Bays 5 and 6 will be clad with perforated metal and feature images of historic time cards applied as a decal to the facade (see image below for reference).

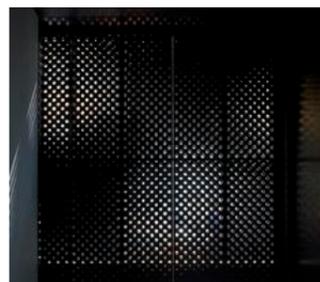
The materials proposed are indicated in the images below right.



HISTORIC PHOTOGRAPH TO BE APPLIED TO FACADE



BLACK PERFORATED METAL PANELS



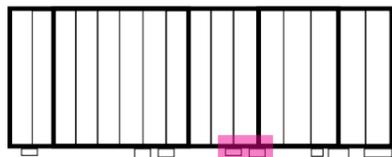
BLACK LOUVRED DOORS TO PLANT



PHOTOGRAPH APPLIED AS DECAL



BRICK PAVERS TO PUBLIC DOMAIN



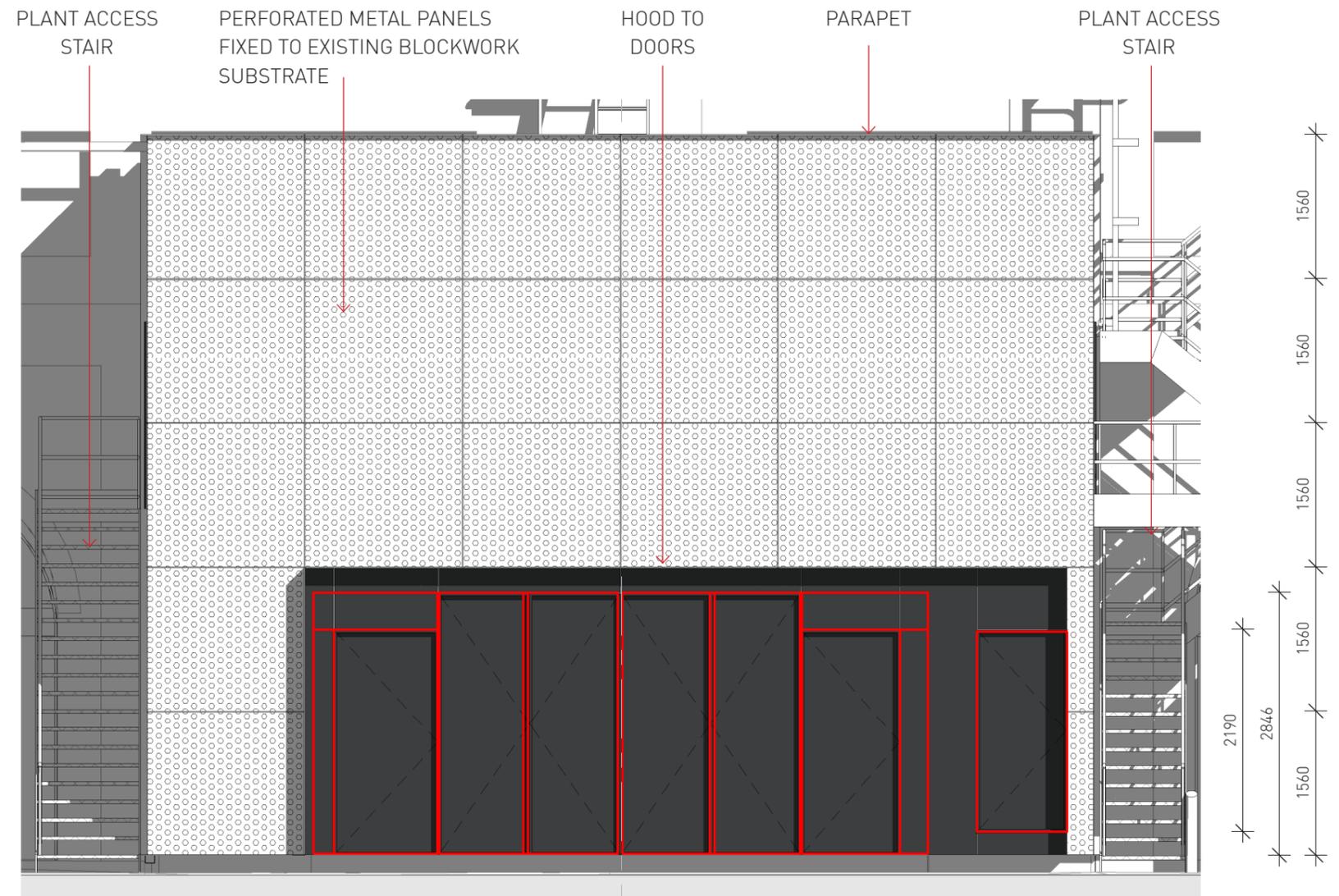
KEY PLAN



17.05 ANNEXES

TECHNICAL DETAIL

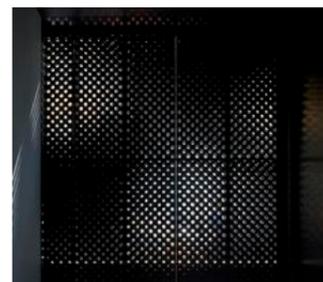
The plant annexes are to be clad in perforated metal panels in a rainscreen system, which will be fixed to the existing concrete block substrate. The heritage decal will be applied off site by the manufacturer.



PLANT ANNEX DETAIL ELEVATION



BLACK PERFORATED METAL PANELS



BLACK LOUVRED DOORS TO PLANT



PHOTOGRAPH APPLIED AS DECAL



BRICK PAVERS TO PUBLIC DOMAIN



KEY PLAN

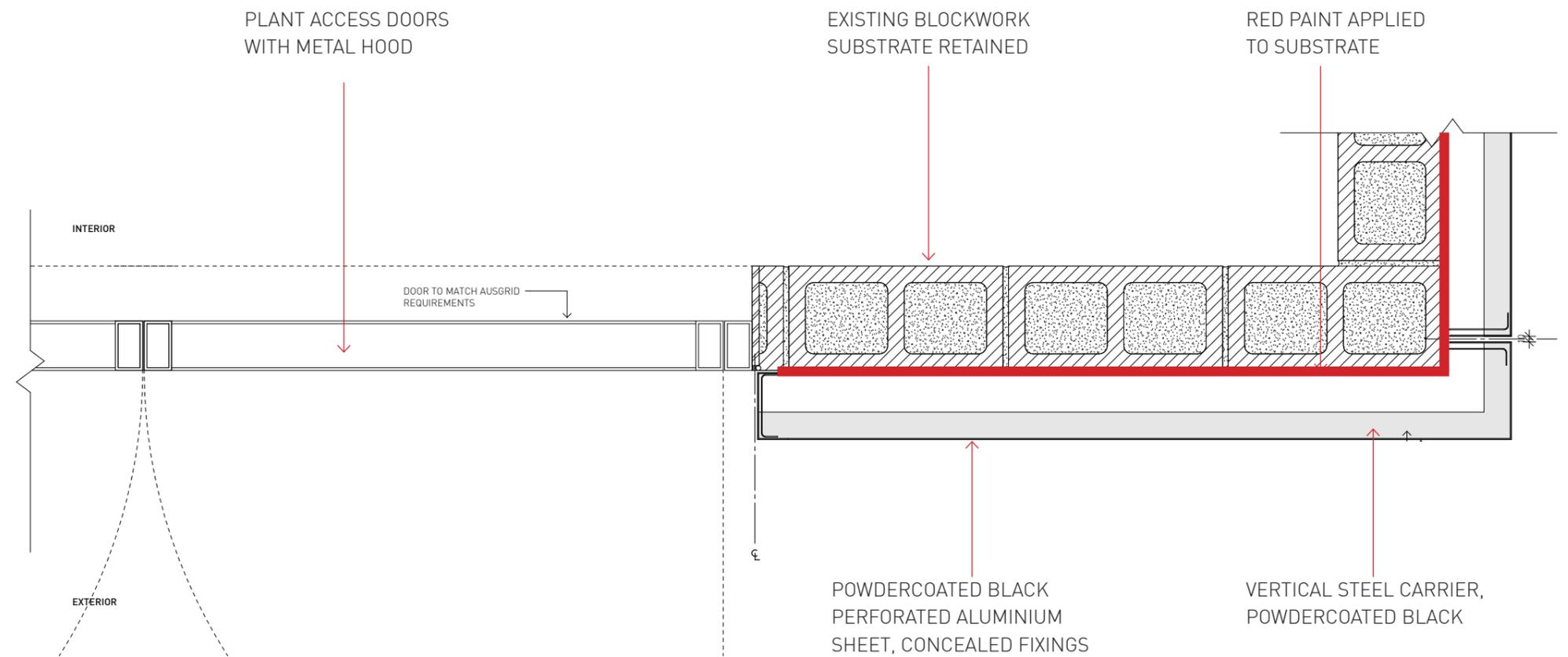


17.05 ANNEXES

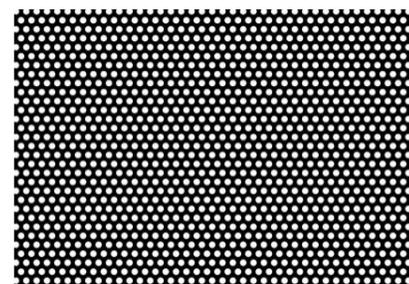
TECHNICAL DETAIL

The plant annexes are to be clad in perforated metal panels in a rainscreen system, which will be fixed to the existing concrete block substrate. The heritage decal will be applied off site by the manufacturer.

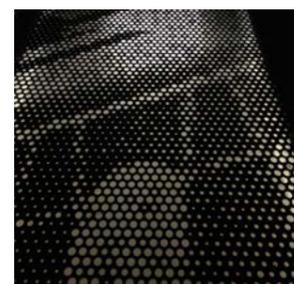
At Red Square, the block work substrate will be painted red, and at night this will be illuminated to create a glowing red effect.



PLANT ANNEX PLAN DETAIL



BLACK PERFORATED METAL RAINSCREEN PANELS



BACKLIT PERFORATED METAL



BLOCKWORK SUBSTRATE



RED PAINT TO BLOCKWORK SUBSTRATE



BLACK METAL HOOD TO DOORS



KEY PLAN



17.07 EXTERNAL LIGHTING STRATEGY

HERITAGE ELEVATIONS

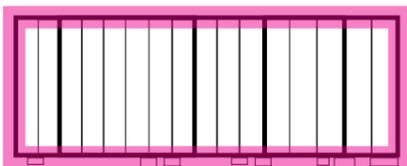
The intention of the exterior lighting strategy is to celebrate the heritage façade and sensitive approach to modern additions to create an holistic night time experience of the old and new. This will be achieved by:

- Lighting pilasters
- Lighting doorways and window reveals
- Lighting to pediments / parapets
- Lighting to exterior heritage artefacts
- Decorative industrial wall lights

All external lighting is to comply with AS4282, obtrusive light, ensuring direct light spill / pollution is minimised through focusing lighting appropriately to the building and landscaping surfaces. Luminaires used will maintain glare control.



FACADE LIGHTING CONCEPT BY FIREFLY POINT OF VIEW



KEY PLAN



WELLINGTON STREET, OTTAWA



MANCHESTER ROYAL EXCHANGE, UK



ST LOUIS LIBRARY, MISSOURI

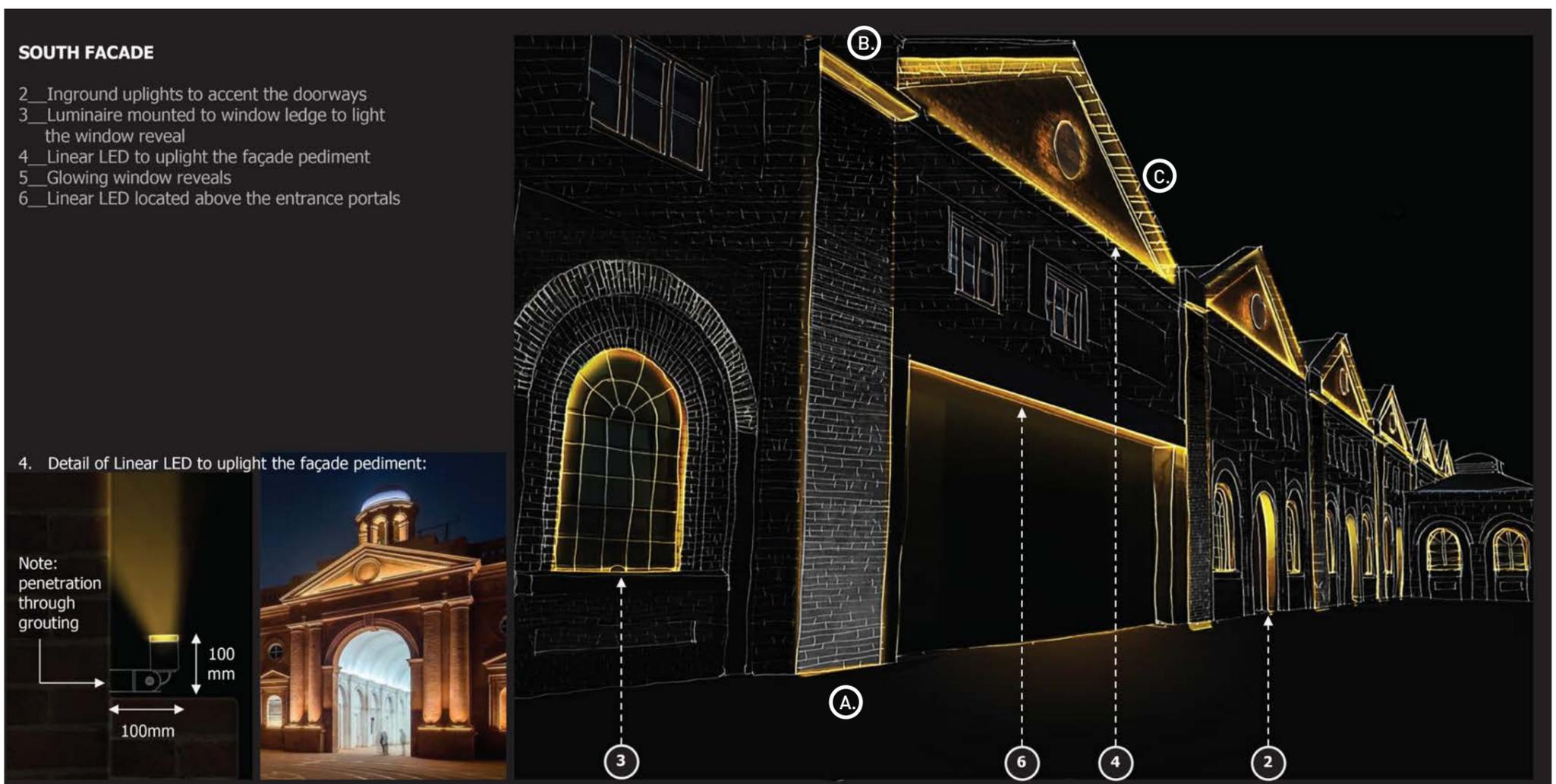
17.07 EXTERNAL LIGHTING STRATEGY

TECHNICAL DETAIL

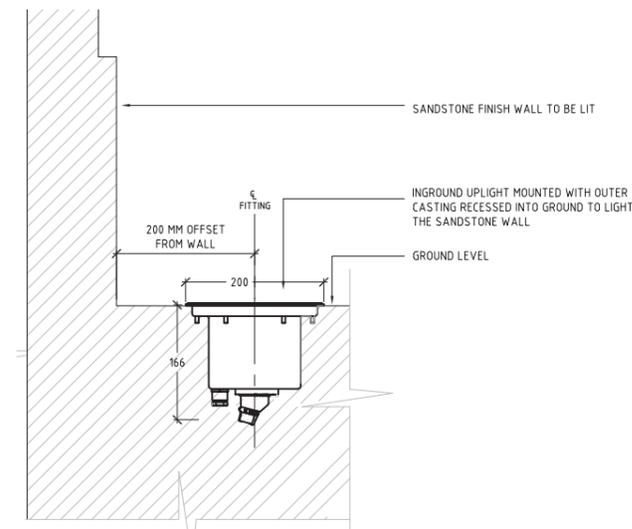
The distinctive sawtooth form of the Locomotive Workshop is one of the defining features of the precinct. The exterior of the building will be lit to celebrate this form, highlighting the brick gables and pilasters which make up the facade.

All external lighting is to comply with AS4282, obtrusive light, ensuring direct light spill / pollution is minimised through focusing lighting appropriately to the building and landscaping surfaces. Luminaires used will maintain glare control.

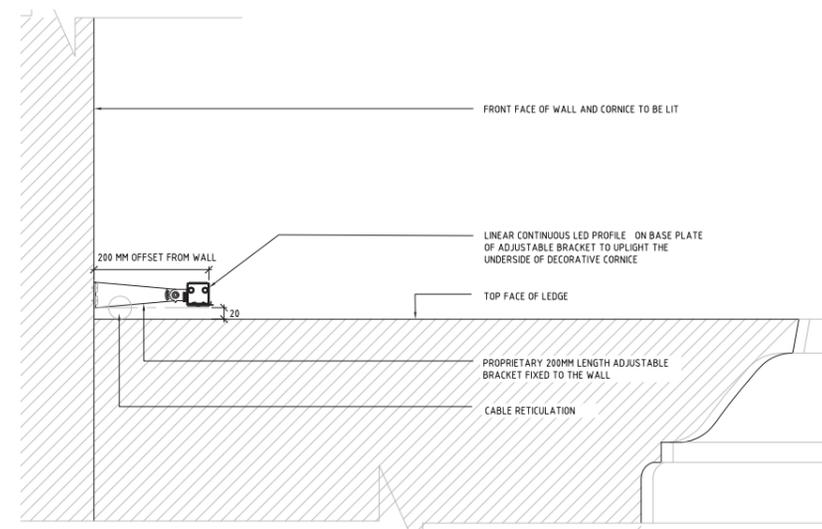
Any fixings are to be attached through the mortar joints to ensure not drilling into heritage brickwork.



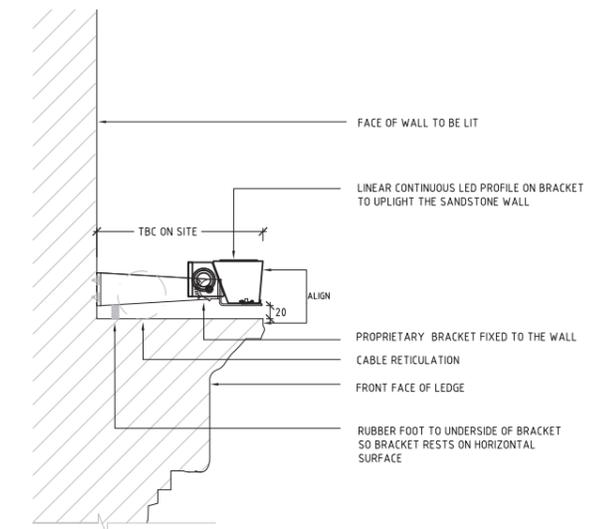
FACADE LIGHTING CONCEPT BY FIREFLY POINT OF VIEW



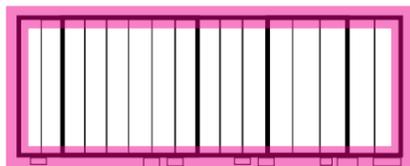
(A) INGROUND UPLIGHT DETAIL



(B) WALL - CORNICE UPLIGHTING DETAIL



(C) WALL - LINEAR UPLIGHTING DETAIL



KEY PLAN



17.06 BOILER HOUSE

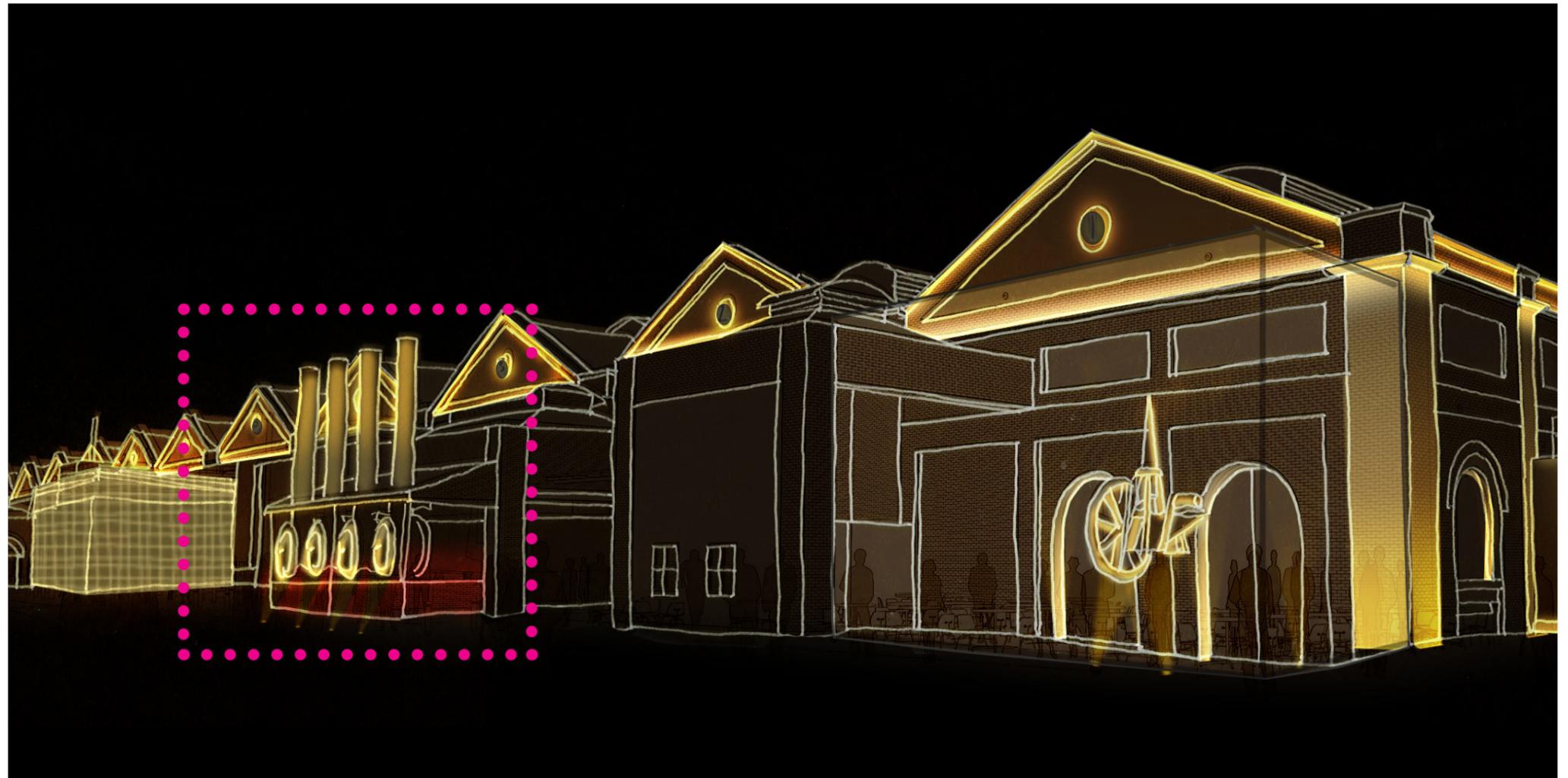
LOCATION PLAN - GROUND FLOOR



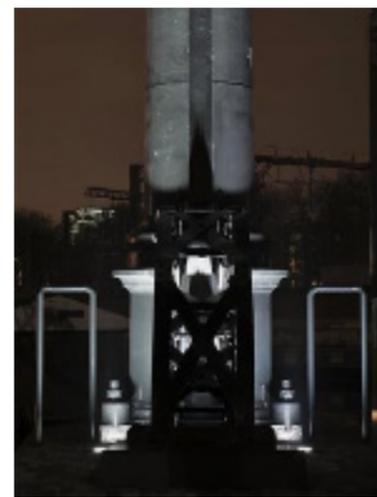
17.06 BOILER HOUSE

FEATURE LIGHTING

As part of the overall external lighting proposal, the Boiler House is to be illuminated in red, interpreting the original function of the boilers in producing heat for the Workshop. The boiler flues will also be feature lit. The lighting strategy will activate the precinct at night and creates a dialogue between the Boiler House and the nearby Guillotine Pavilion.



BOILER HOUSE LIGHTING CONCEPT BY FIREFLY POINT OF VIEW



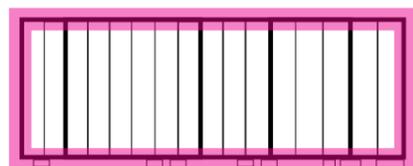
ARCHIE ROSE DISTILLING



ARCHIE ROSE DISTILLING



ARCHIE ROSE DISTILLING, ROSEBERY



KEY PLAN



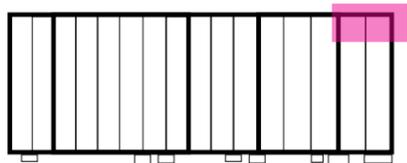
17.08 THE WORKERS WALL

PROJECTION

The Worker's Wall entails a curated and dynamic selection of heritage images which are to be projected onto the northern facade of Bays 1 and 2, where they will be highly visible from the railway beyond.



3D VIEW - THE WORKER'S WALL PROJECTION



KEY PLAN



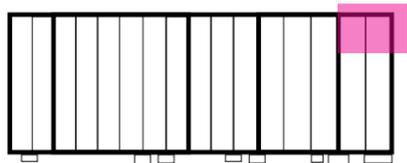
17.09 THE WORKERS UNITED

PROJECTION

The Workers United is a shadow play installation in which cut-out forms will be illuminated from behind, projecting silhouettes onto the wall.



3D VIEW - THE WORKER'S UNITED PROJECTION



KEY PLAN





SISSONS / BUCHAN / CURIO