



Rylands Building
Manchester
Scaffold Methodology
Rev: C 16/05/2023



Proposed Logistics plan

NOTE: Proposed welfare cabins within Bridgewater St. Building scaffold to provide access as required.

NOTE: Access required to retail unit & marketing suite

NOTE: Hoarding line tight to building at footpath level for Metrolink Line of Sight.
Scaffold above to accommodate

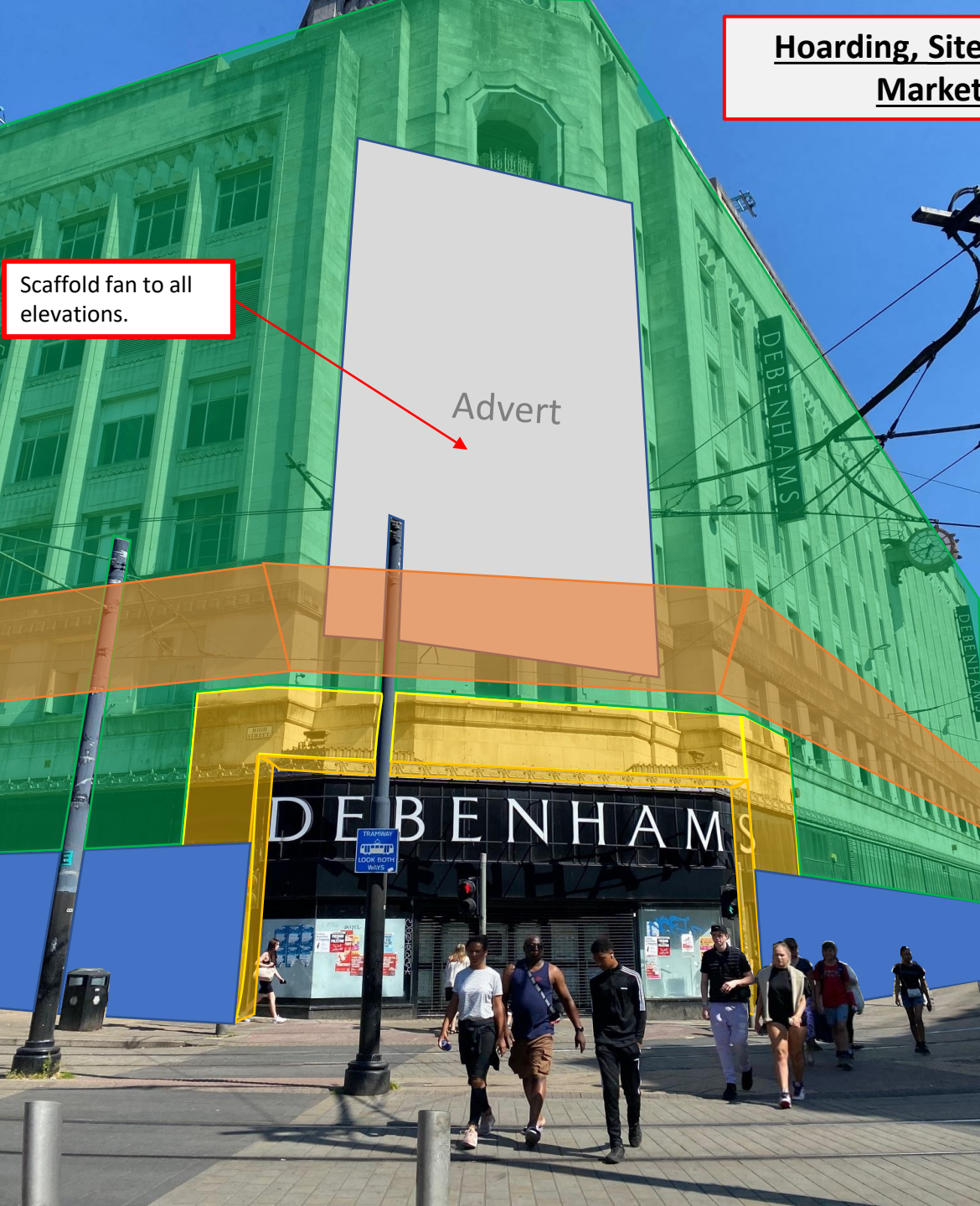
Burger van to remain in place

Key

- Site Boundary
- Solid Hoarding
- Heras Fencing
- Vehicle Gates
- ▲ Guard location
- Site Skips
- Turnstile
- ◆ Muster Point
- Site welfare
- Hoist – Materials
- ▨ Exclusion zone
- Site Pedestrians
- Public Pedestrians
- ➡ Site access / Egress
- ➡ Highway traffic
- Metro line Exclusion zone
- ➡ Adjacent building exits
- Tower Crane Void



Hoarding, Site Security & Scaffold Market St / Hight St



Scaffold fan to all elevations.

Advert

- Façade to be completely scaffolded
 - Monoflex sheeting to be applied
 - To be adapted for renovation work to the clock
 - To be erected in accordance with Metro link guidelines.
 - Advertising banners to be applied to High Street and Tib Street corners.
-
- Market St / High St corner to receive a narrow scaffold for pedestrian movement
 - Solid timber hoarding to be fitted at street level for security
 - Metrolink line-of-sight to be maintained as far as possible.

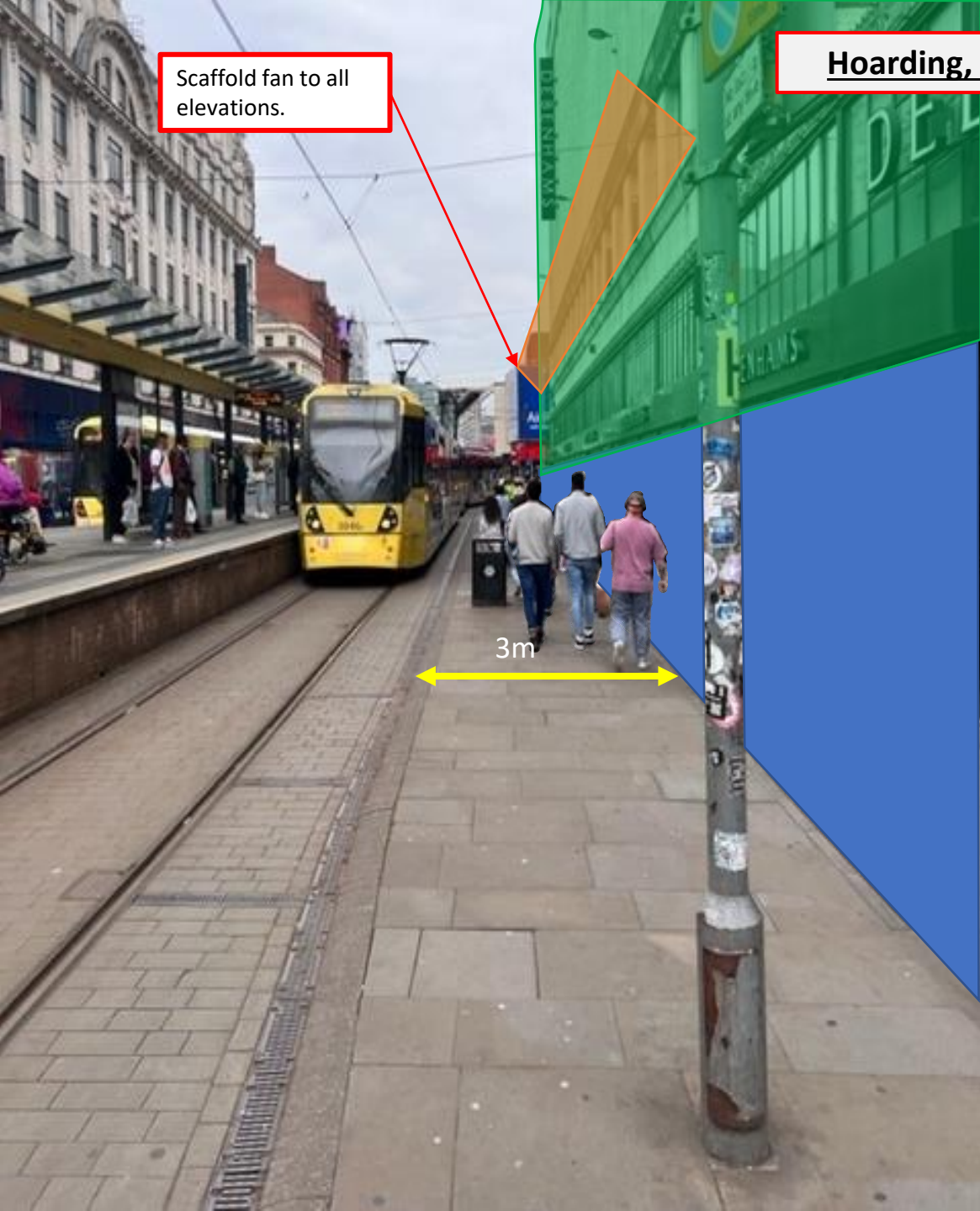


- Example of advertising on adjacent Arndale Centre

Hoarding, Site Security & Scaffold

- 2.4 m high solid timber hoarding
- Safety lights
- Warning signage
- Russells Branding
- Burger Van to remain in place
- 2.0m wide footpath to the side of Starbucks Coffee
- Some street furniture such as bins may need to be removed for pedestrian movement.
- Scaffold built covering full façade
- Sheeted with Monarflex
- Metrolink tie wires to be unaffected by works.





Scaffold fan to all elevations.

Hoarding, Site Security & Scaffold

- Hoarding line set to 3.0m minimum distance for working alongside Metro link
 - All Metrolink cables fixed to the building will be unaffected by the works
 - Street furniture such as bins may need to be relocated to allow for better pedestrian safety.
-
- 2.4 m high solid timber hoarding
 - Safety lights
 - Warning signage
 - Russells Branding
-
- Scaffold to be built behind hoardings as shown
 - Fully sheeted with Monarflex

Bridgewater Place

Scaffold fan to all elevations.

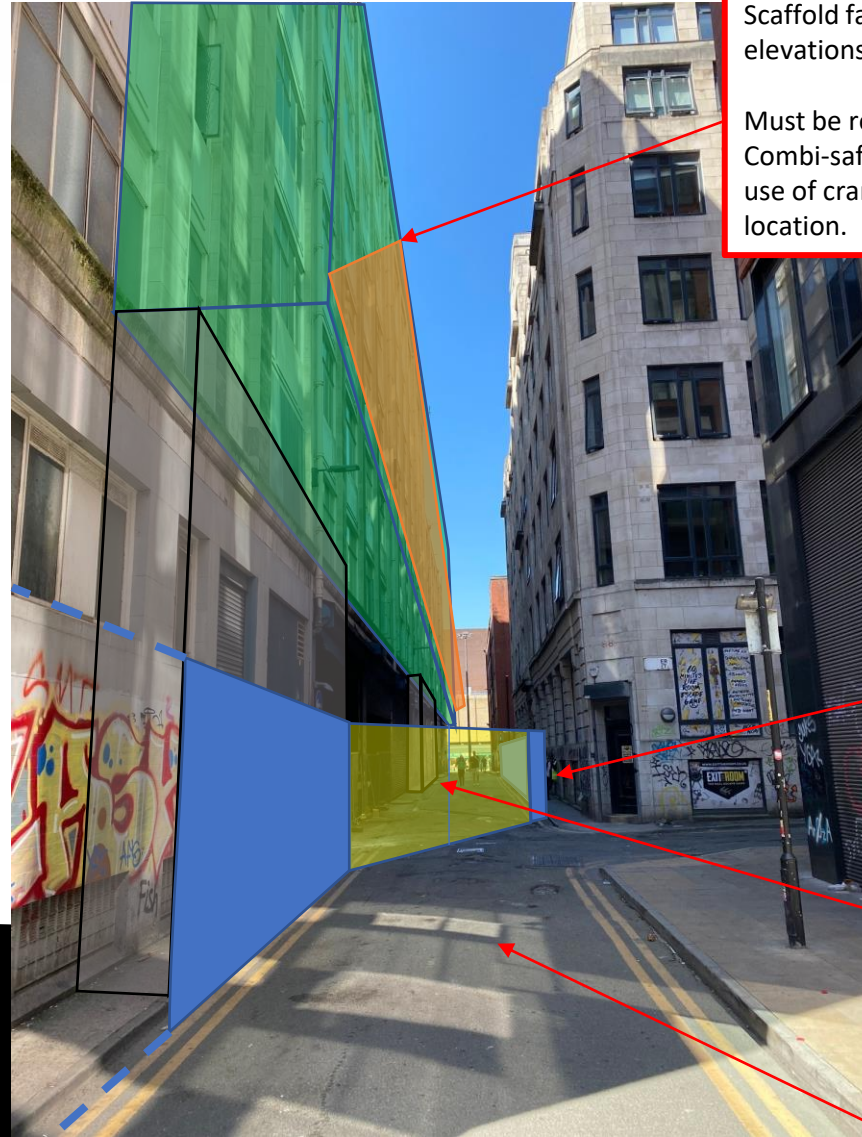
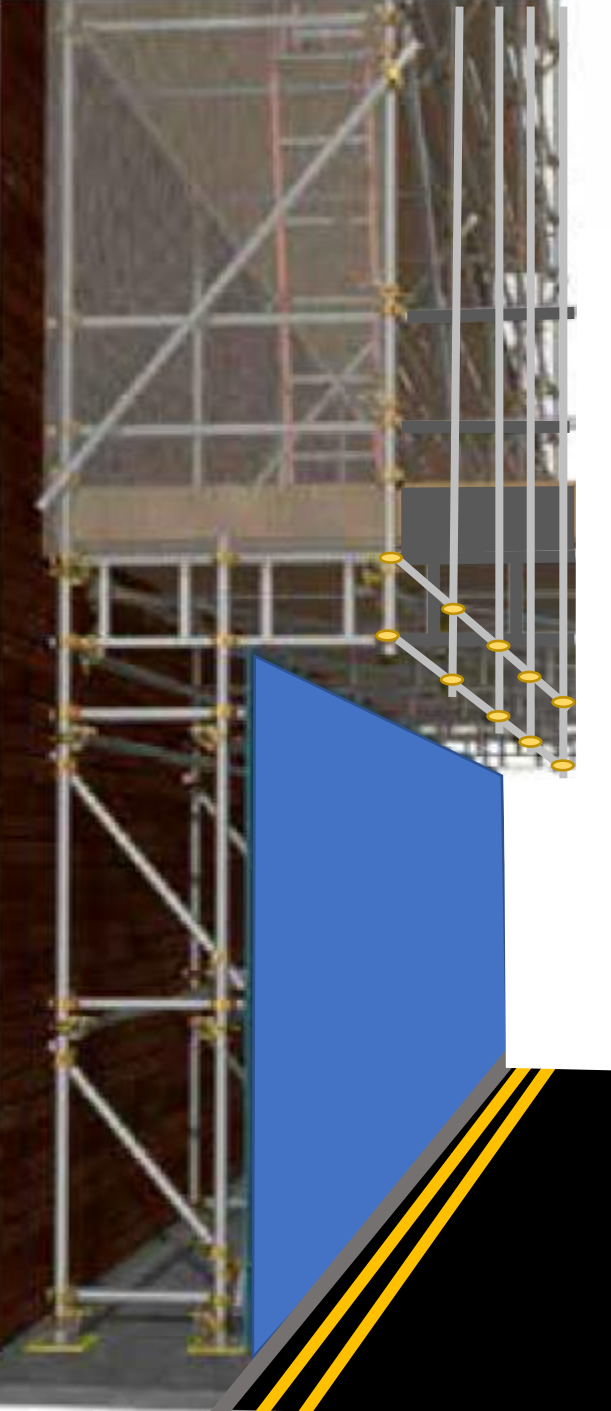
Must be retractable Combi-safe or similar for use of crane at pick up location.

- To be narrow at the ground to the top of the roller shutter doors to allow movement of vehicles on the carriageway and to allow large skips to use the loading areas within the building.
- Access to the loading bay areas for skip access to be maintained
- Plywood hoarding to 2.4m with full monoflex sheeting above to prevent unauthorized access.
- Vehicle gates to control access and egress to the loading bays and crane pick up point.

Bridgewater Place footpath to remain open for adjacent building egress routes. Lighting to be applied to hoarding.

Manufactured gates to provide access to full opening.

Bridgewater Place roadway to remain open from the junction of Joiner St.



South Elevation (Market St)

Rylands Building
External Scaffold

Full Frame Scaffold (5 boards + 2 Internal boards)

- Fan included
- Beam over where pavement narrows
- Fully sheeted
- Care taken around existing clock
- Internal ladders with self locking hatches
- Out of hours erection up to fan to South and West (Tram)

Cupola Roof (High St)

Heritage Zone roof

Cupola roof (Tib St)

CLOCK: Section of façade scaffold to be left out to facilitate the removal of the clock. Scaffold to be infilled after removal and removed again for reinstatement.

Cupola access

Cupola access

Market St Elevation (Level 7 heritage)

Protection fan

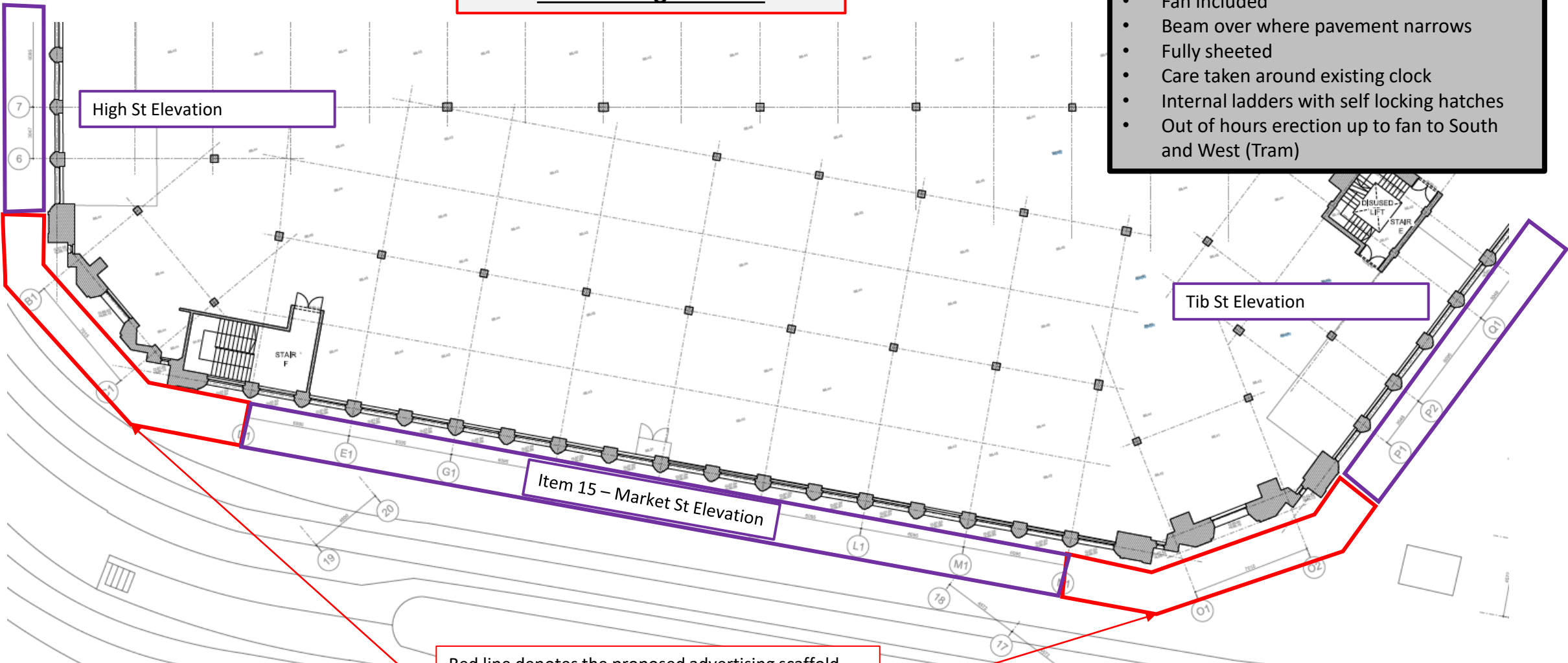
Market St Elevation

Red line denotes the proposed advertising scaffold. Which will need to be erected first with infill, cupolas etc added at a later date.

South Elevation (Market St)

Rylands Building
(Currently Approved)
Advertising Scaffold

- Full Frame Scaffold (5 boards + 2 Internal boards)
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

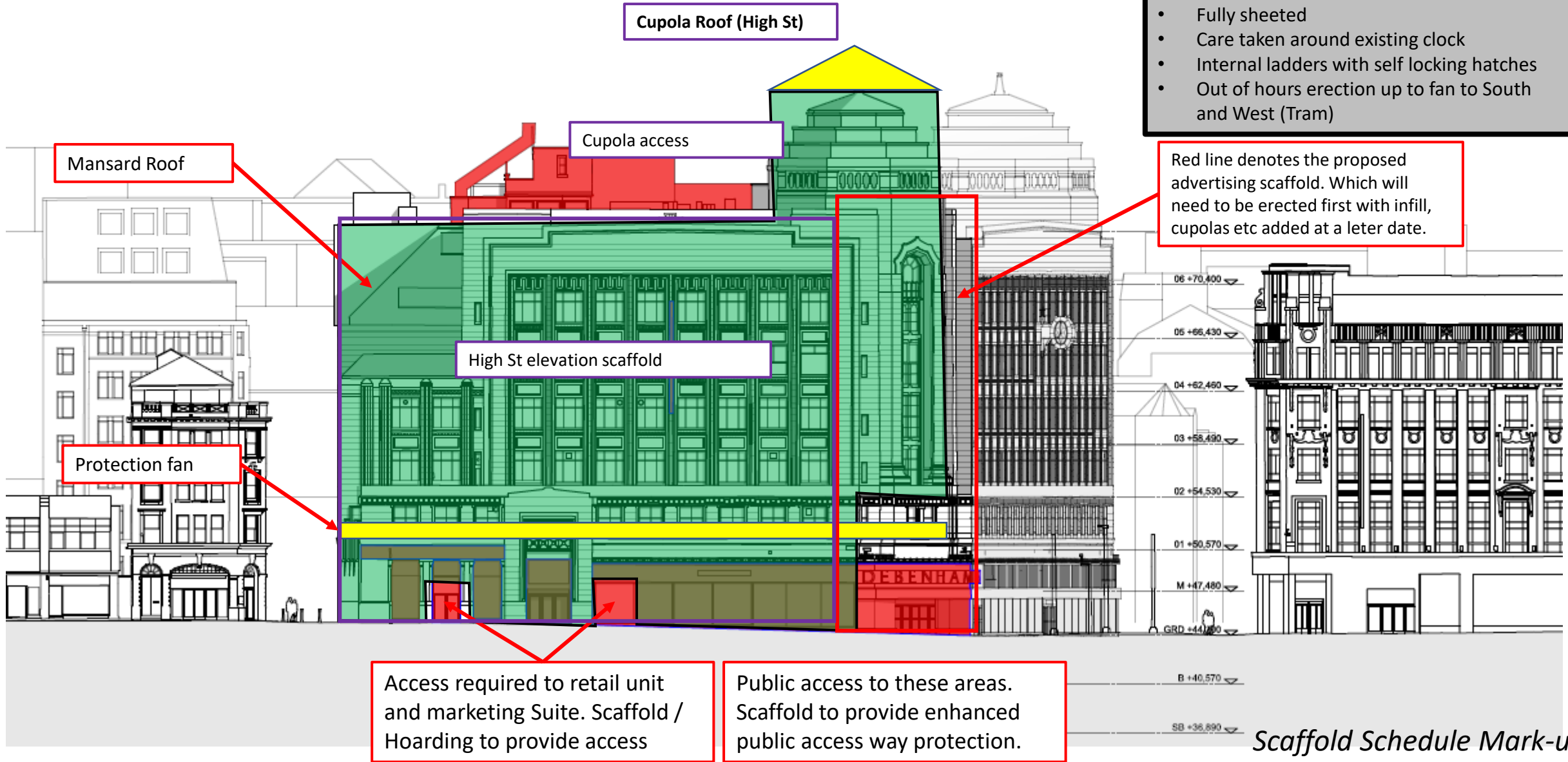


Red line denotes the proposed advertising scaffold.
(in line with current draft design) Which will need to
be erected first with infill, cupolas etc added at a later
date.

West Elevation

Rylands Building
External Scaffold
High St Elevation.

- Full Frame Scaffold (5 boards + 2 Internal boards)**
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

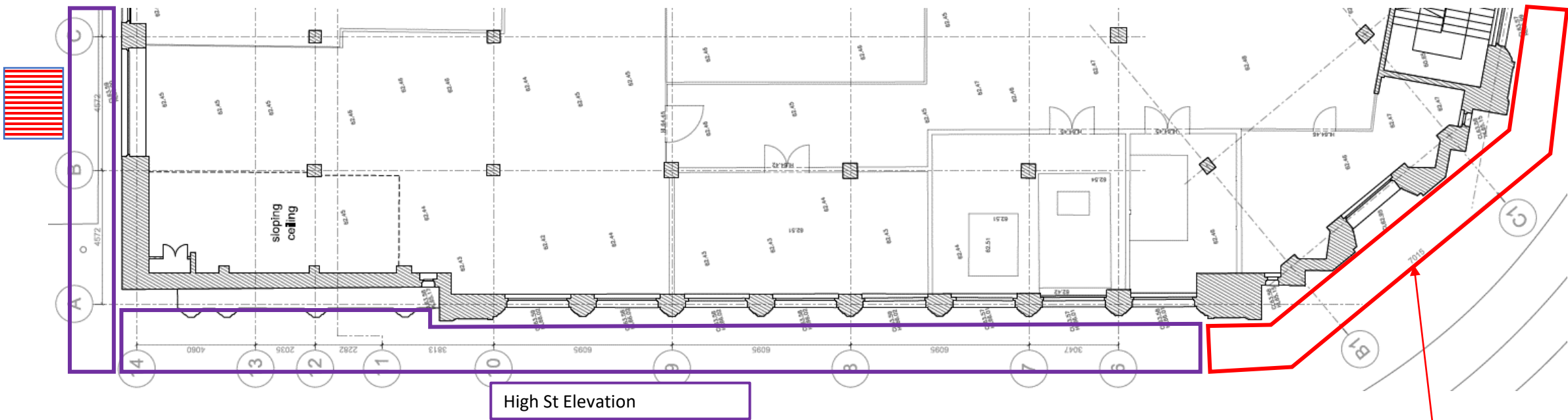


South Elevation (Market St)

Rylands Building
(Currently Approved)
Advertising Scaffold

- Full Frame Scaffold (5 boards + 2 Internal boards)
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

Bridgewater St (Second Half)



Red line denotes the proposed advertising scaffold. (in line with current draft design) Which will need to be erected first with infill, cupolas etc added at a later date.

East Elevation

Rylands Building
External Scaffold

- Full Frame Scaffold (5 boards + 2 Internal boards)
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

Cupola & heritage roof
(Tib St)

Cupola access

Tib St hoist stair scaffold

Protection fan

Tib St Elevation scaffold

Tib St Elevation Fan

Red line denotes the proposed advertising scaffold. Which will need to be erected first with infill, cupolas etc added at a later date.

Access to ground floor from Tib St loading area.

South Elevation (Market St)

Rylands Building
(Currently Approved)
Advertising Scaffold

- Full Frame Scaffold (5 boards + 2 Internal boards)
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

Market St Elevation

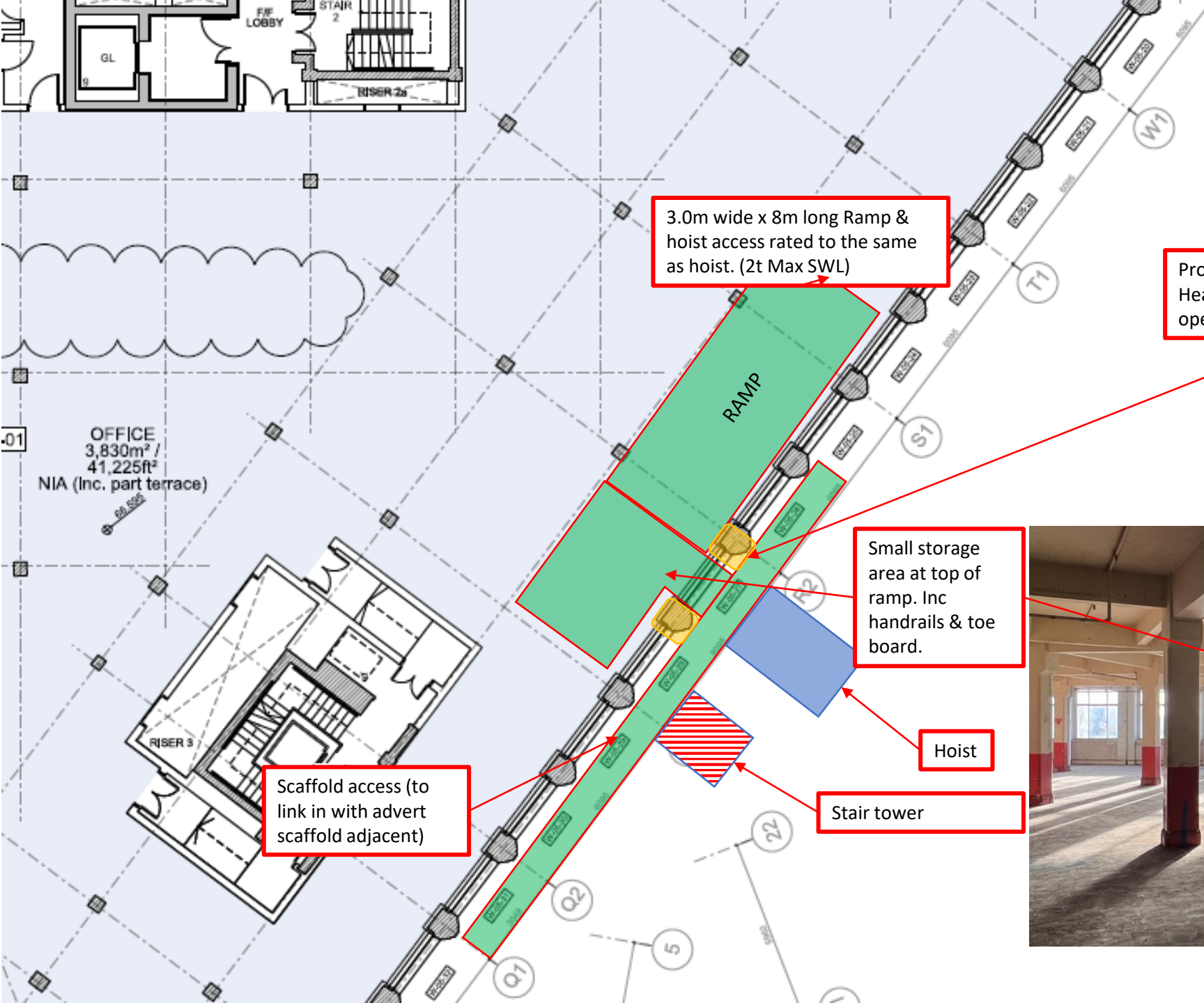
Red line denotes the proposed advertising scaffold.
(in line with current draft design) Which will need to
be erected first with infill, cupolas etc added at a later
date.

Bridgewater St (first half)

RAMP

Tib St access
Internal ramps & platforms.

Tib St Elevation



Hoist / hacky stair access to all floors (excluding level 6)

3.0m wide x 8m long Ramp & hoist access rated to the same as hoist. (2t Max SWL)

Protection to stone columns, Head & cill of existing window opening (By others)

Small storage area at top of ramp. Inc handrails & toe board.

Hoist

Stair tower

Scaffold access (to link in with advert scaffold adjacent)



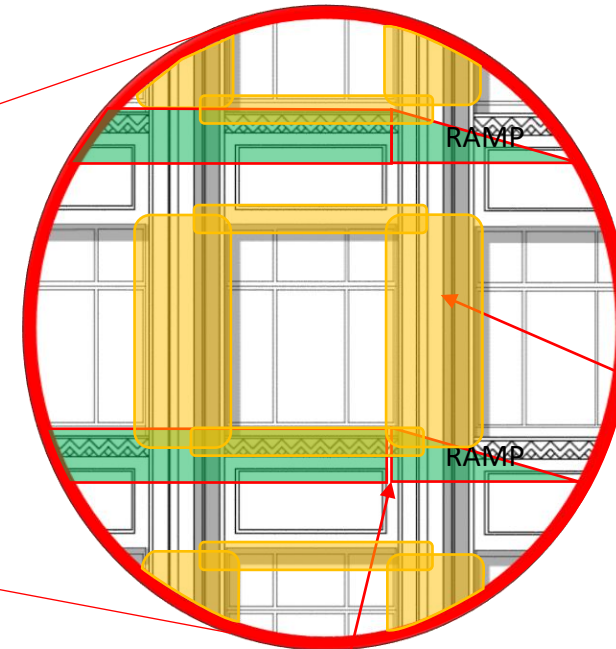
Scaffold Schedule Mark-up

Tib St Hoist / Stair access tower

**Hoist / hacky stair access to all
floors (excluding level 6)**



Applies to all floors serviced
by the hoist & stair tower.



Protection to stone columns,
Head & cill of existing window
opening

Internal platform & Ramp
rated to the same as hoist
+25%

Scaffold Schedule Mark-up

North Elevation

Bridgewater St (first half)

Protection fan

Loading bay doors to be obstructed by scaffold.

Rylands Building External Scaffold

Bridgewater St (first half)

Protection fan

Bridgewater St (Second half)

Protection fan

Loading bay doors to remain unobstructed by scaffold.

HAKI Stairs
Fitted in 2 No sections.

- 1. Ground to Second floor**
- 2. Second floor to roof**

Exit door and sub station doors to remain unobstructed.

- **Full Frame Scaffold (5 boards + 2 Internal boards)**
- Fan included
- Beam over where pavement narrows
- Fully sheeted
- Care taken around existing clock
- Internal ladders with self locking hatches
- Out of hours erection up to fan to South and West (Tram)

- **Full Frame Scaffold (5 boards + 2 Internal boards)**
- Fan included
- Beam over where pavement narrows
- Fully sheeted
- Care taken around existing clock
- Internal ladders with self locking hatches
- Out of hours erection up to fan to South and West (Tram)

Scaffold Schedule Mark-up

South Elevation (Market St)

Rylands Building Scaffold

- Full Frame Scaffold (5 boards + 2 Internal boards)
- Fan included
 - Beam over where pavement narrows
 - Fully sheeted
 - Care taken around existing clock
 - Internal ladders with self locking hatches
 - Out of hours erection up to fan to South and West (Tram)

Item 21 – Tib St Elevation

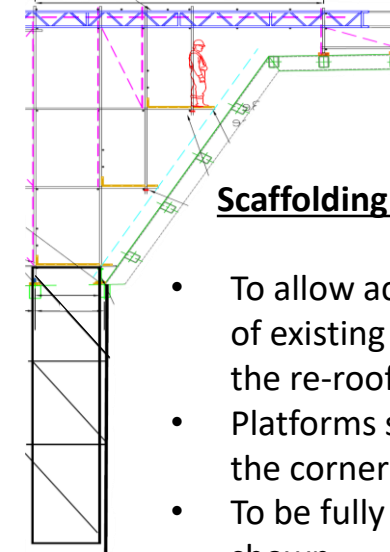
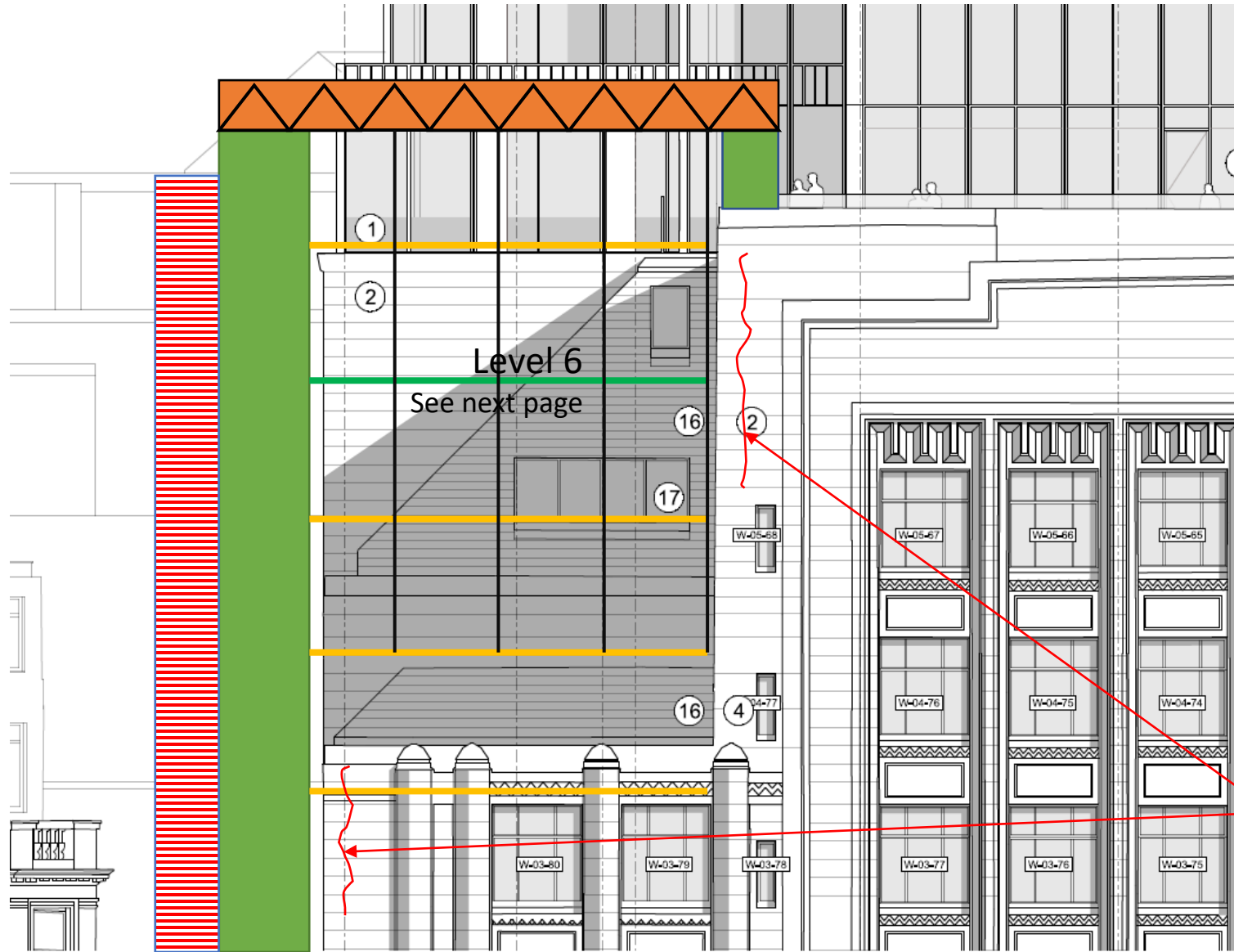
Loading bay doors to remain unobstructed by scaffold.

Exit door and sub station doors to remain unobstructed by external scaffold.

Item 8 – Bridgewater St (first half)

Item 10 – Bridgewater St (Second Half)

Mansard Roof & Stone repair

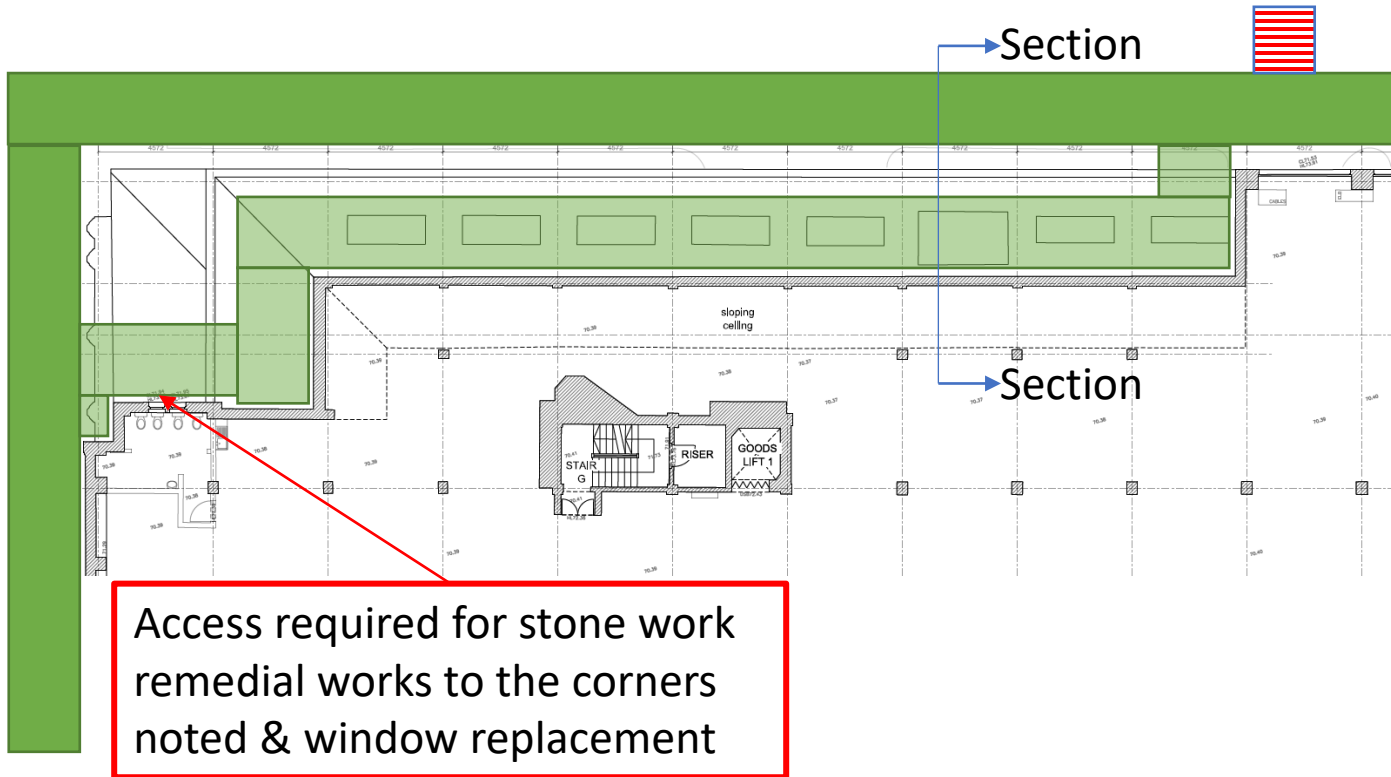


Scaffolding to High-Level Mansard Roof

- To allow access in 2m lifts for the removal of existing coverings, repair works, and the re-roofing activity.
- Platforms should wrap around the roof at the corner of High St / Bridgewater Pl.
- To be fully designed to allow the intent as shown
- Allowance for felt, batten & slate to roof.
- Scaffold to receive a Monarflex covering

Access required for stone work remedial works to the corners noted & glazing replacement

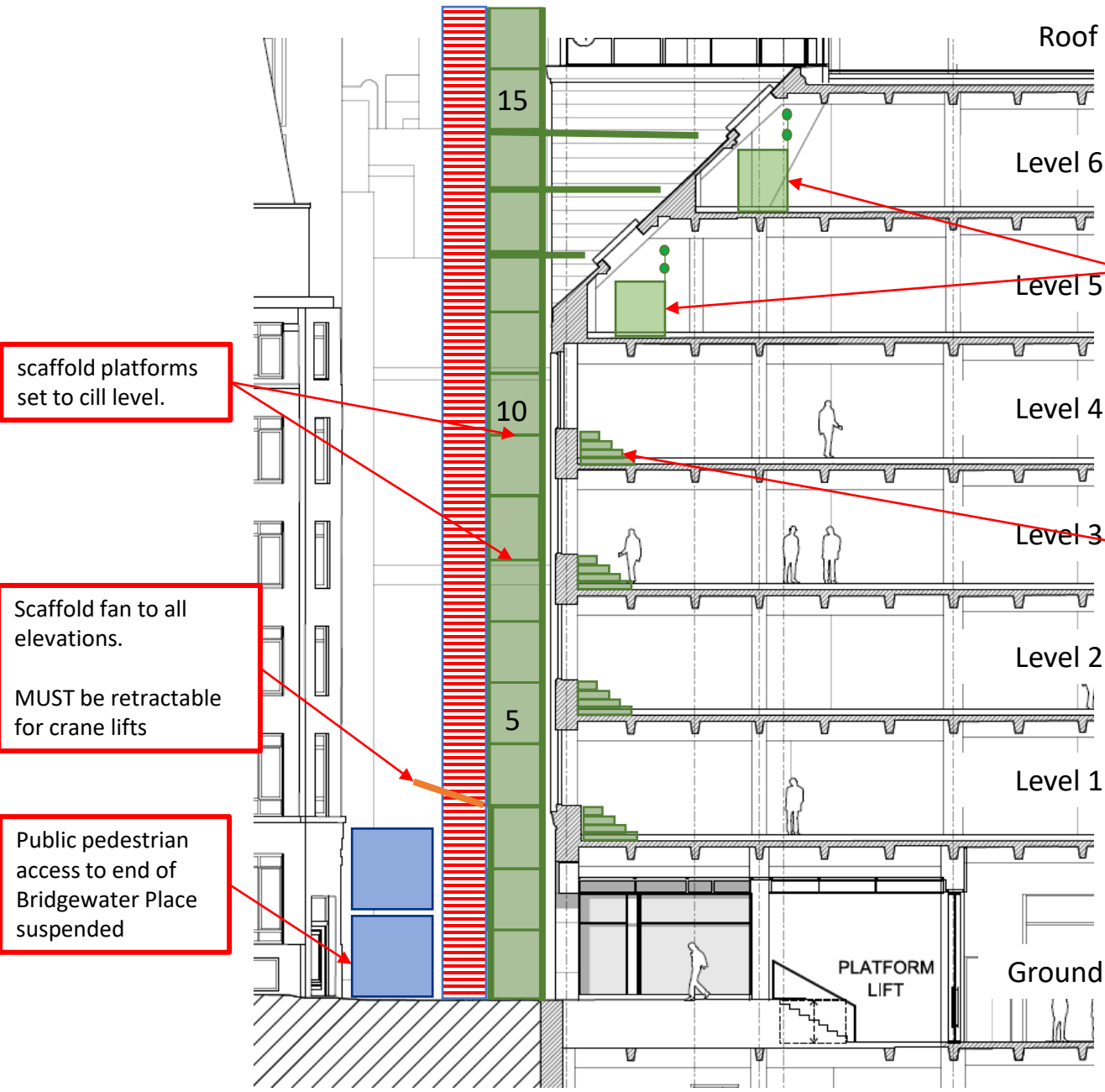
Mansard Roof & Stone Repair
Level 6 (platforms below & above
NOT shown)



Scaffolding to High-Level Mansard Roof

- To allow access in 2m lifts for the removal of existing coverings, stone repair works, and the re-roofing activity.
- Platforms should wrap around the roof at the corner of High St / Bridgewater Pl.
- To be fully designed to allow the intent as shown
- Allowance for adjustment to undertake felt, batten & slate to roof.
- Platforms internally to allow works to roof lights.
- Scaffold to receive a Monarflex covering

Section to show lifts - Bridgewater Place



Internal access platform beneath all skylight windows.

Internal Stepped access at hacky stair locations. Allow 3 No adaptations for RAF etc

Scaffolding to Perimeter (Bridgewater Place elevation shown)

- SSL – SSL height approximately 3900mm
- Lifts to be 1950
- Set to cill levels for ease of access at hoist location
- Allowance for stepped access to each level in each hacky stair location. Adjusted 3 times.
- Allowance for Ramped access to all floors at Hoist location.
 - Temporary works rated to the hoist limit +25%
 - Must allow the use of pallet truck
 - Handrails provided.
 - 3 No adaptations to be allowed.

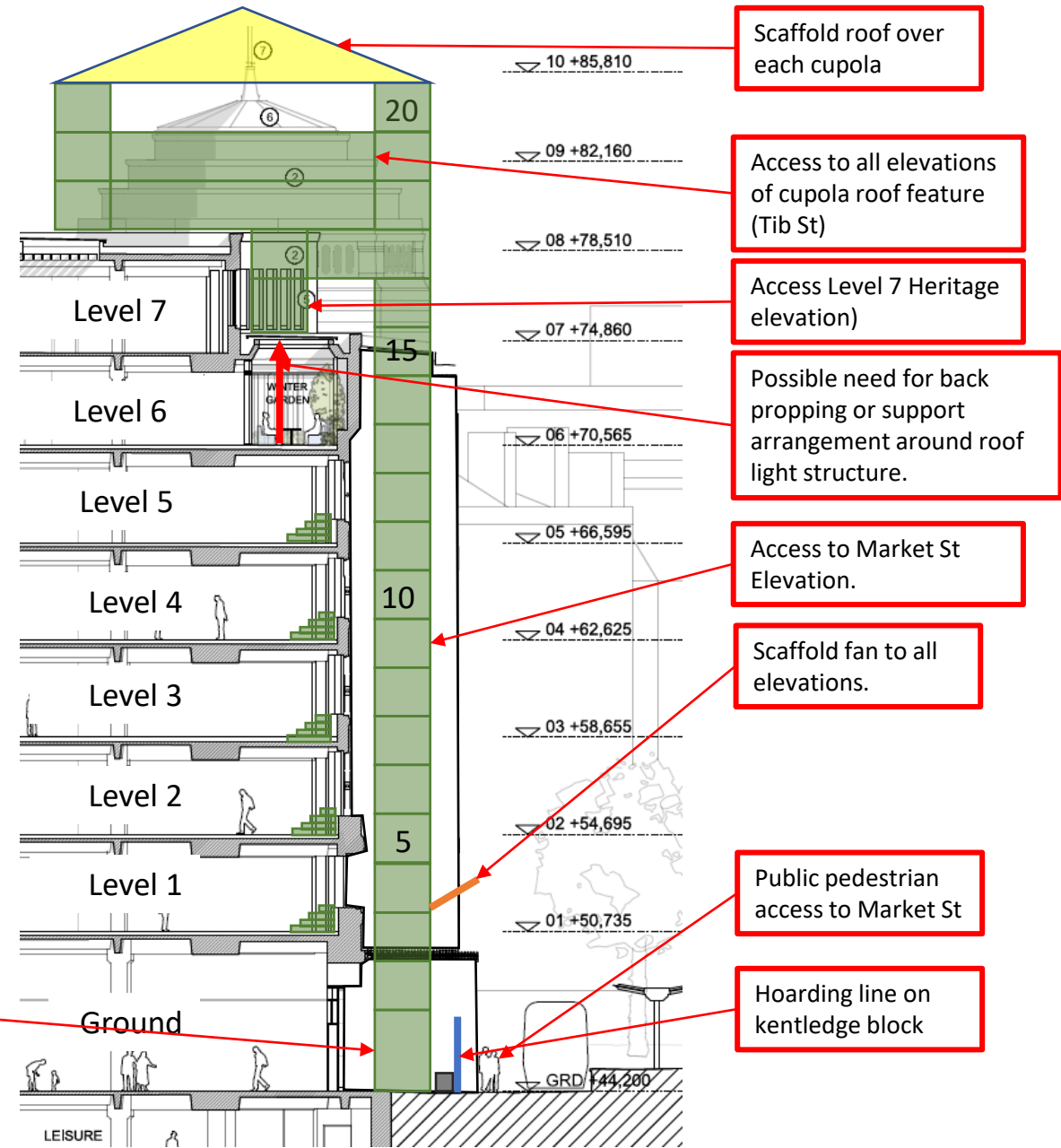
Section to show lifts on Market St

Scaffolding to Perimeter (Bridgewater Place elevation shown)

- SSL – SSL height approximately 3900mm
- Lifts to be 1950
- Set to cill levels for ease of access at the hoist location
- Minimum 2 Board hop-ups dressed to the profile of the building
- Allowance for stepped access to each level in each hacky stair location
- Allowance for Ramped access to all floors at the Hoist location.
 - Temporary works rated to the hoist limit +25%
 - Must allow the use of pallet truck
- Allowance for 2 No NICO rails within roof structure to allow fitting of new glass where edge protection cant be fitted.

Allow for spreader beams to span to structure to below pavement light.

Allow for progressive adjustment to allow upgrade of pavement light structure below.



Scaffold Schedule Rooftop Scaffold

Stair Tower

Scaffold to perimeter to allow the safe removal of structures

- Scaffold to allow hoist and hacky stair to be fitted.
- Platform required to extend above level 7 parapet
- Ramp from platform to roof level (approx. 1.2m height)

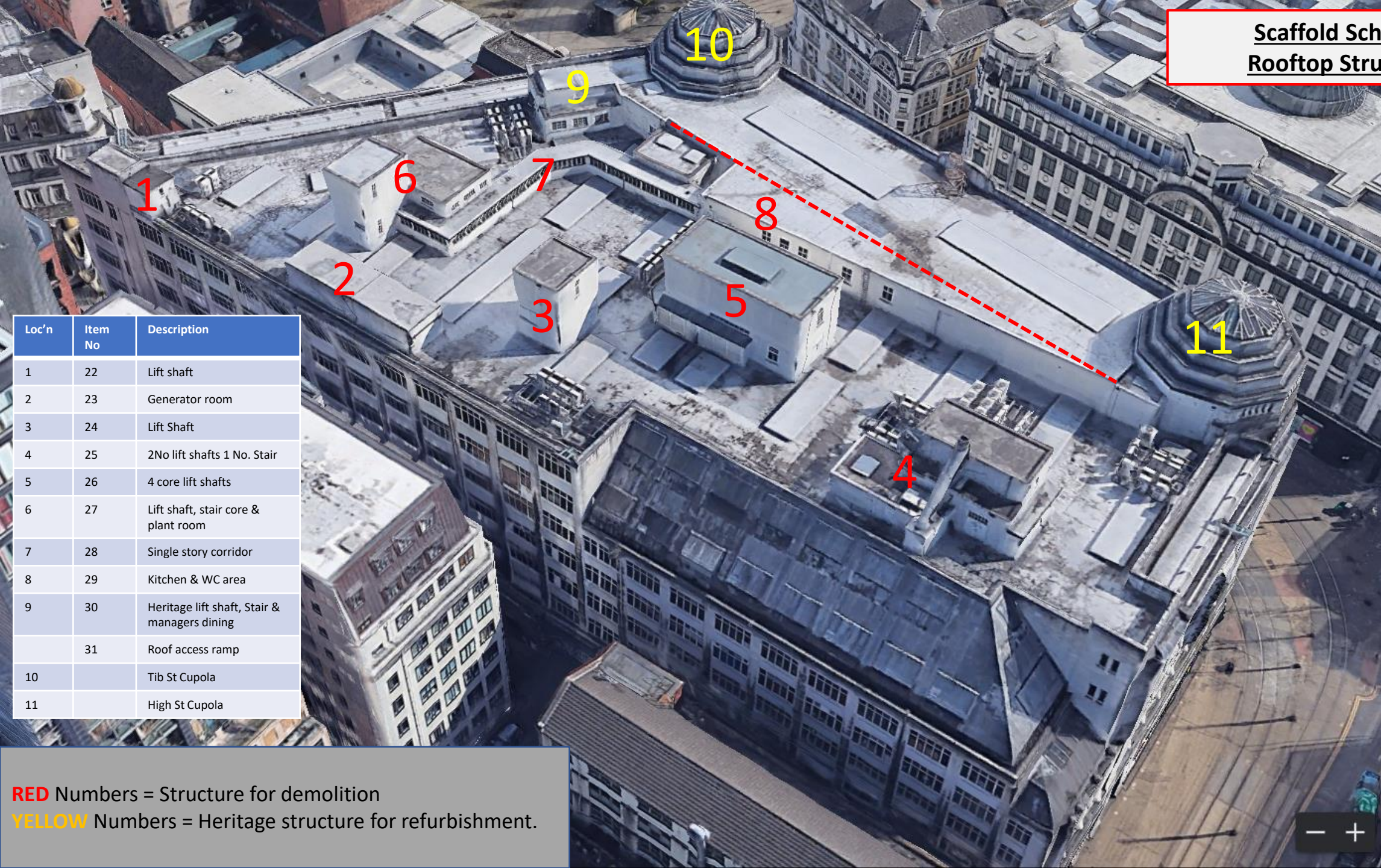
- Platform required to extend above level 7 parapet
- Ramp from platform to roof level (approx. 1.2m height)

Roof access ramp

Loc'n	Item No	Description
1	22	Lift shaft
2	23	Generator room
3	24	Lift Shaft
4	25	2No lift shafts 1 No. Stair
5	26	4 core lift shafts
6	27	Lift shaft, stair core & plant room
7	28	Single story corridor
8	29	Kitchen & WC area
9	30	Heritage lift shaft, Stair & managers dining
	31	Roof access ramp
10	17,18	Tib St Cupola
11	19,20	High St Cupola

Scaffold Schedule Mark-up

Scaffold Schedule
Rooftop Structures



Loc'n	Item No	Description
1	22	Lift shaft
2	23	Generator room
3	24	Lift Shaft
4	25	2No lift shafts 1 No. Stair
5	26	4 core lift shafts
6	27	Lift shaft, stair core & plant room
7	28	Single story corridor
8	29	Kitchen & WC area
9	30	Heritage lift shaft, Stair & managers dining
	31	Roof access ramp
10		Tib St Cupola
11		High St Cupola

RED Numbers = Structure for demolition
YELLOW Numbers = Heritage structure for refurbishment.

Scaffold Schedule Lift core over run example

Double height lift over run

- Approximately 6.0m high.
- Allow for 3 No. lifts.
- Top lift to be level with parapet for demolition activities.
- Ladder access.

NOTE:

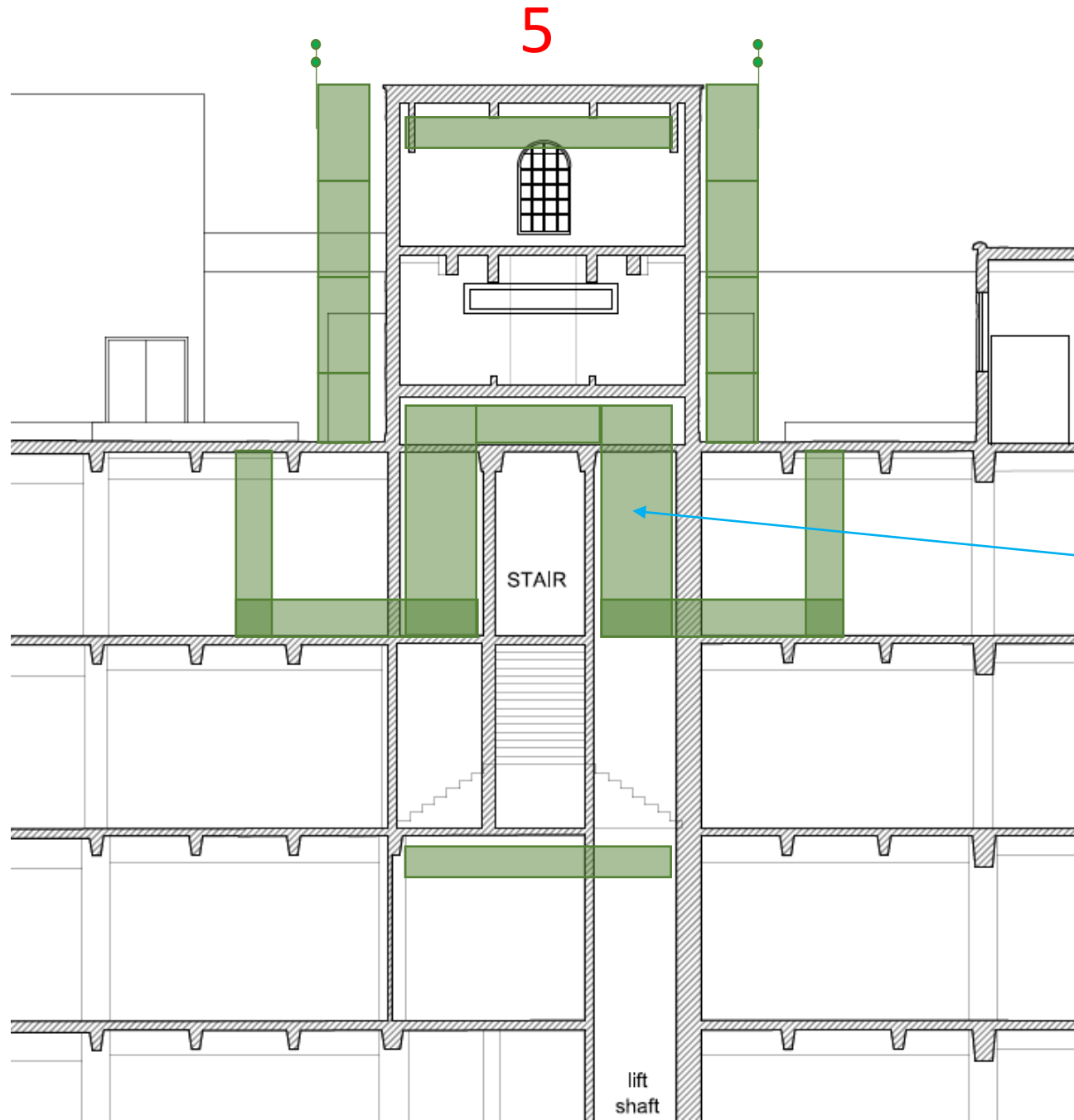
- Smoke clearance vents in to lift shafts below.
- **ALL** Lift shaft cores below will need cantilevered crash decks to protect against falling debris.

Fragile glass block roof TW required to load

Care to be taken when scaffolding around structures.
Back propping allowance to be made below.
Once removed, areas will need a crash deck below and handrail to allow for infill works.

Scaffold Schedule

Lift core over run example

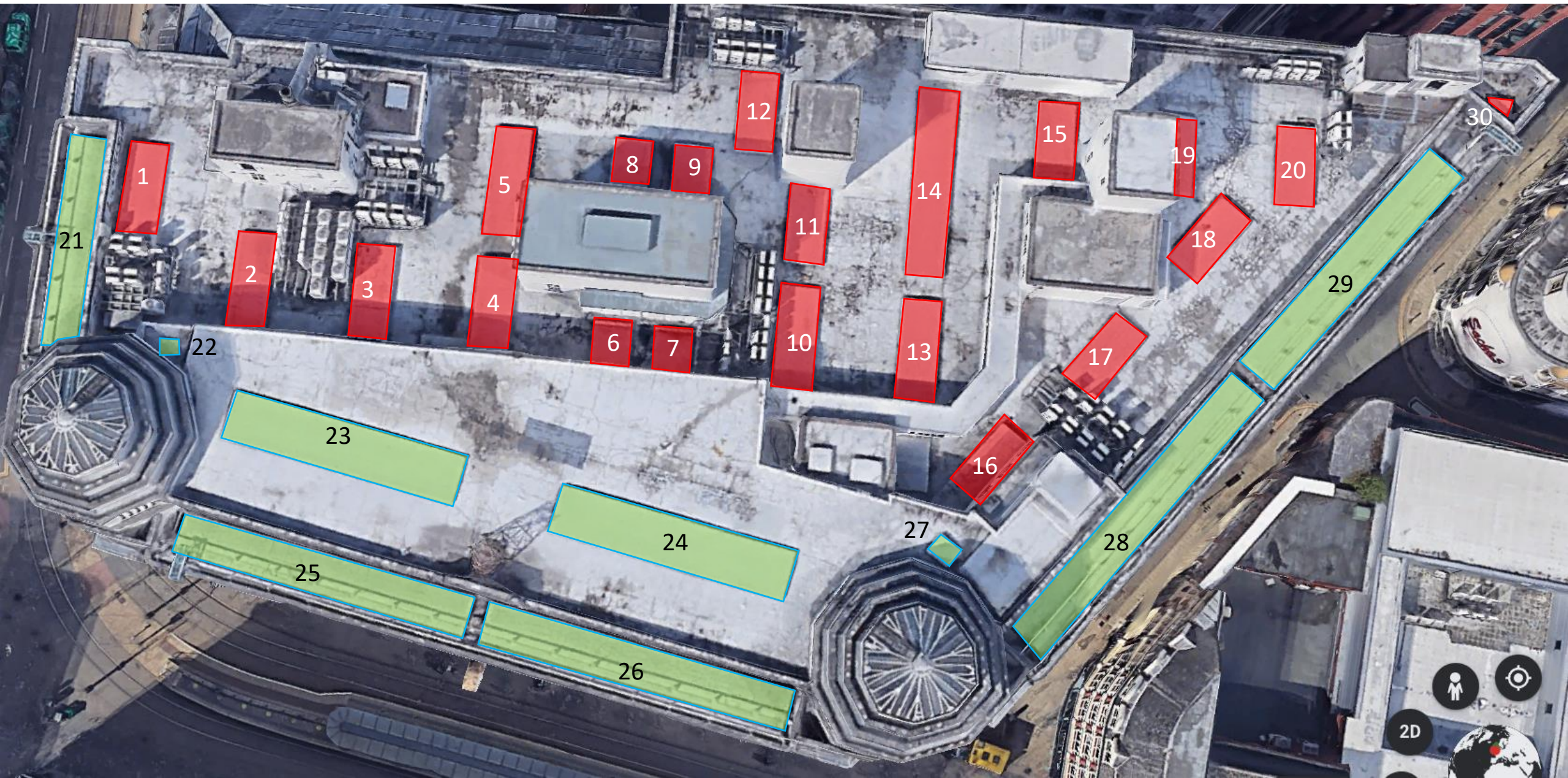


NOTE:

- **ALL** Lift shaft cores below will need cantilevered crash decks to protect against falling debris.
- The main lift core (5) is triple width.
- Contractor to review site conditions and provide a suitable design.

RED item = Removed within demolition works
GREEN item = Retained and upgraded

**Removal & Refurbishment of existing
glazed block roof lights.**

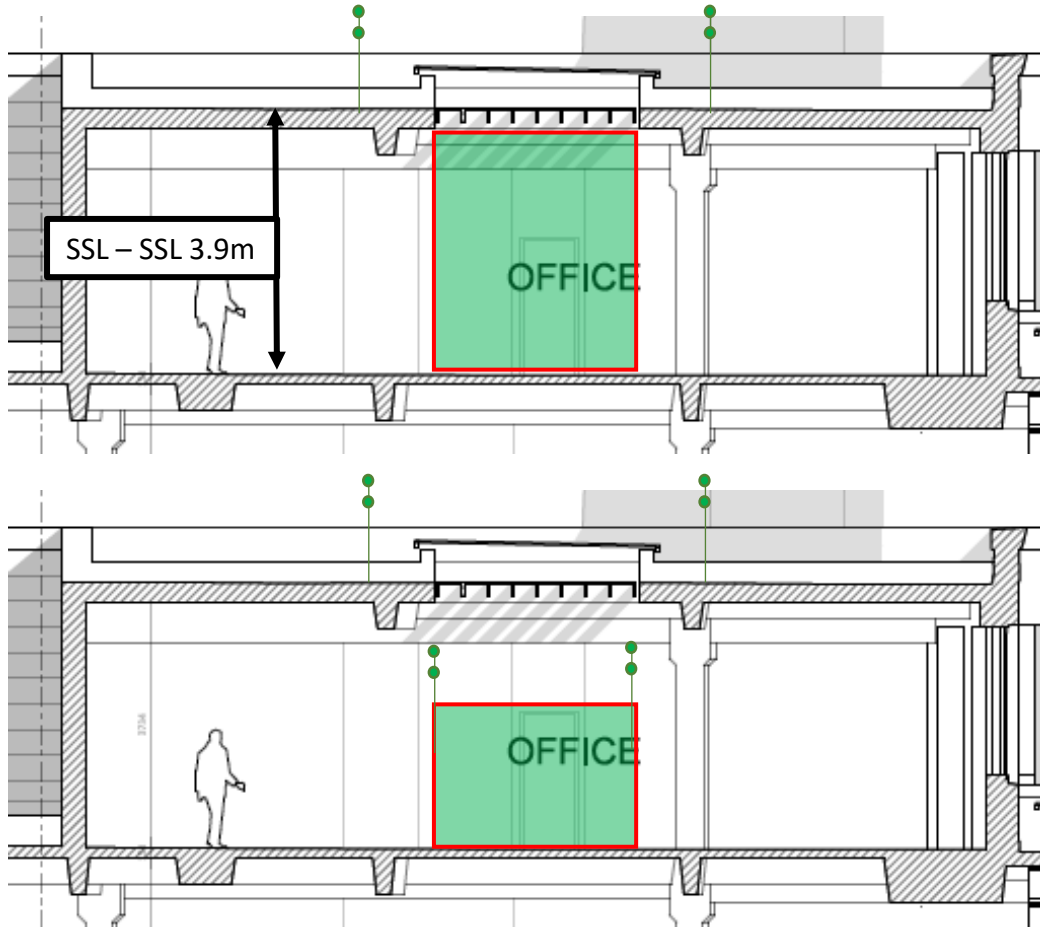


Refurbishment of existing glazed block roof lights.

Lightweight Edge protection allowance following works to roof lights until Practical completion.

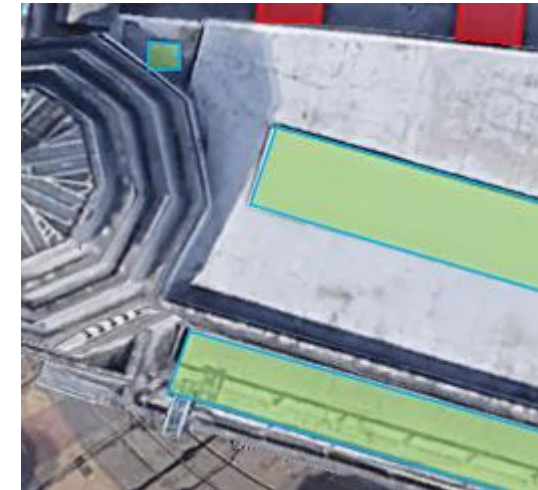
Fragile Roof Light **REPAIR & UPGRADE** sequence

Allowance to be made for erection and 2 amendments to each platform below existing roof lights for retention



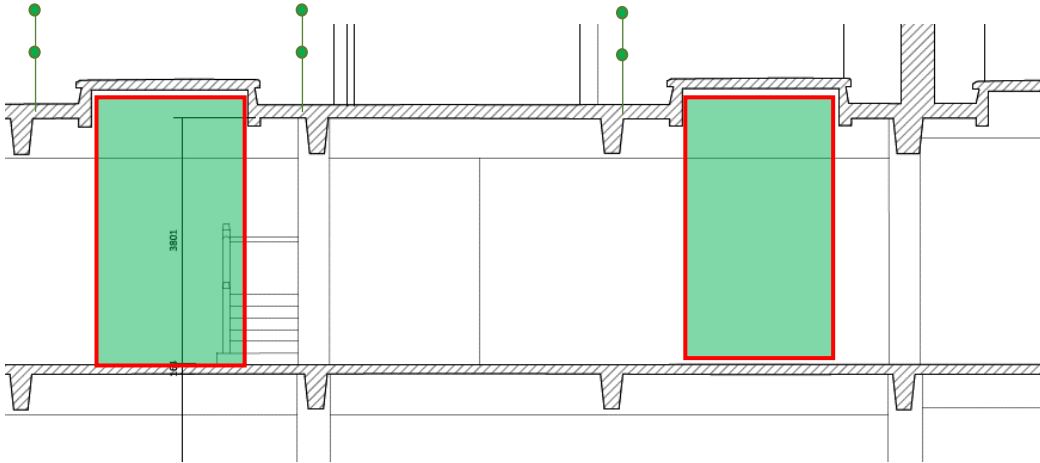
- 1, Crash deck tight to the underside to allow:
 - Removal of existing weathering membrane & build-up.
 - Repair works & cleaning to the existing roof light
 - Installation of the new upstand, glazed-over light & roofing membrane

- 2, Platform adjusted down to provide access for:
 - Repair works and then decoration to the underside.

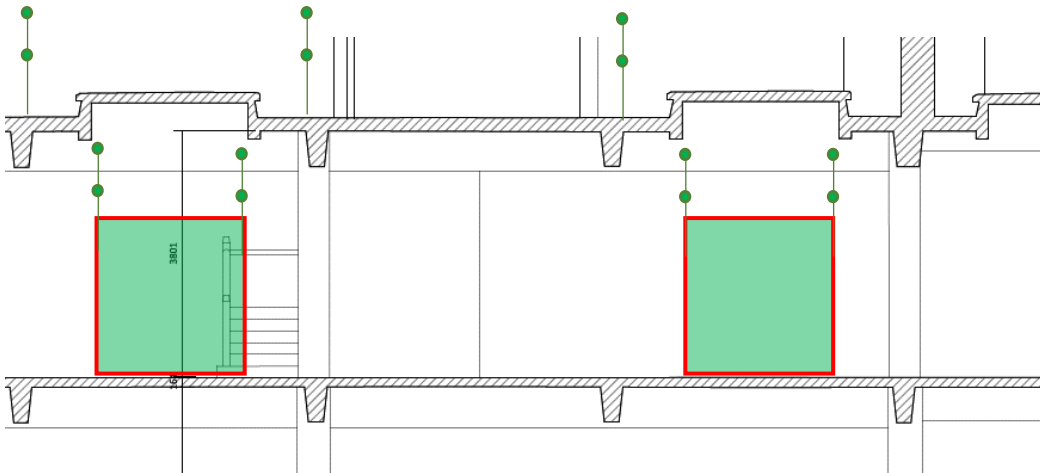


Removal of existing glazed block roof lights.

Lightweight Edge protection allowance following works to roof lights until Practical completion.



- 1, Crash deck tight to the underside to allow:
- Removal of existing weathering membrane & build-up.
 - Removal of existing upstands and roofing membrane build up.

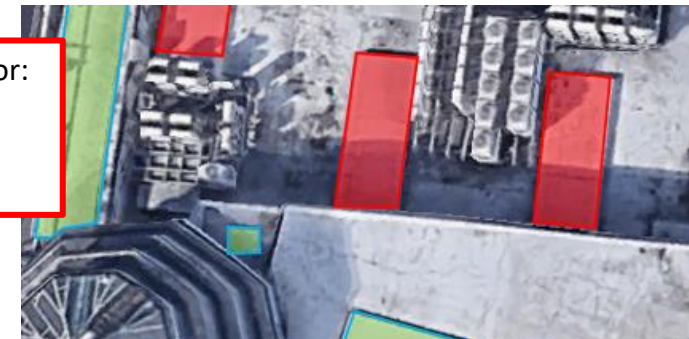


- 2, Platform adjusted down to provide access for:
- Preparation of slab edges.
 - Remove platform
 - Formwork provided by others.

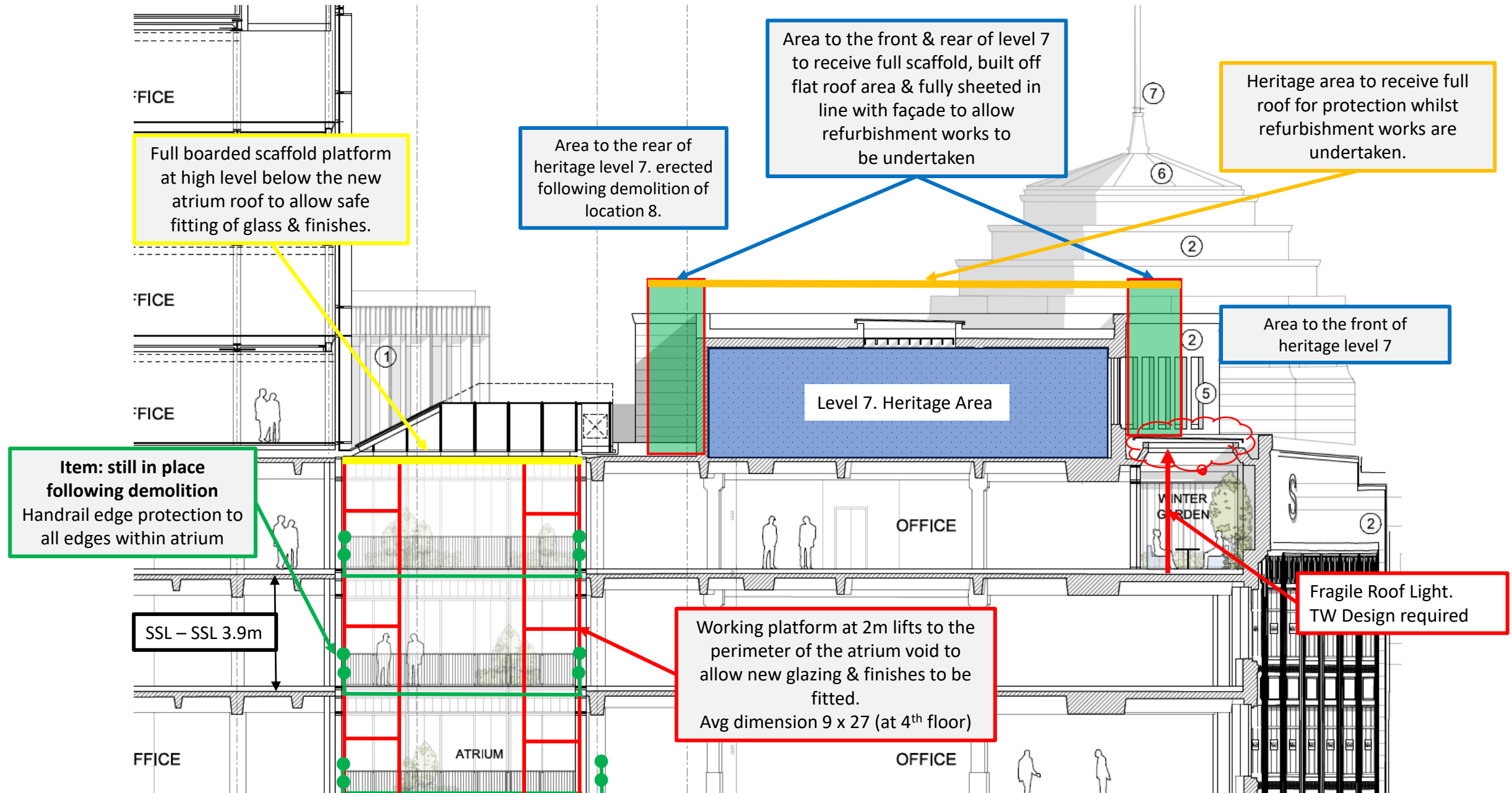
Fragile Roof Light REMOVAL sequence & infill of structure

Allowance to be made for erection and 1 amendment to each platform below existing roof lights for removal.

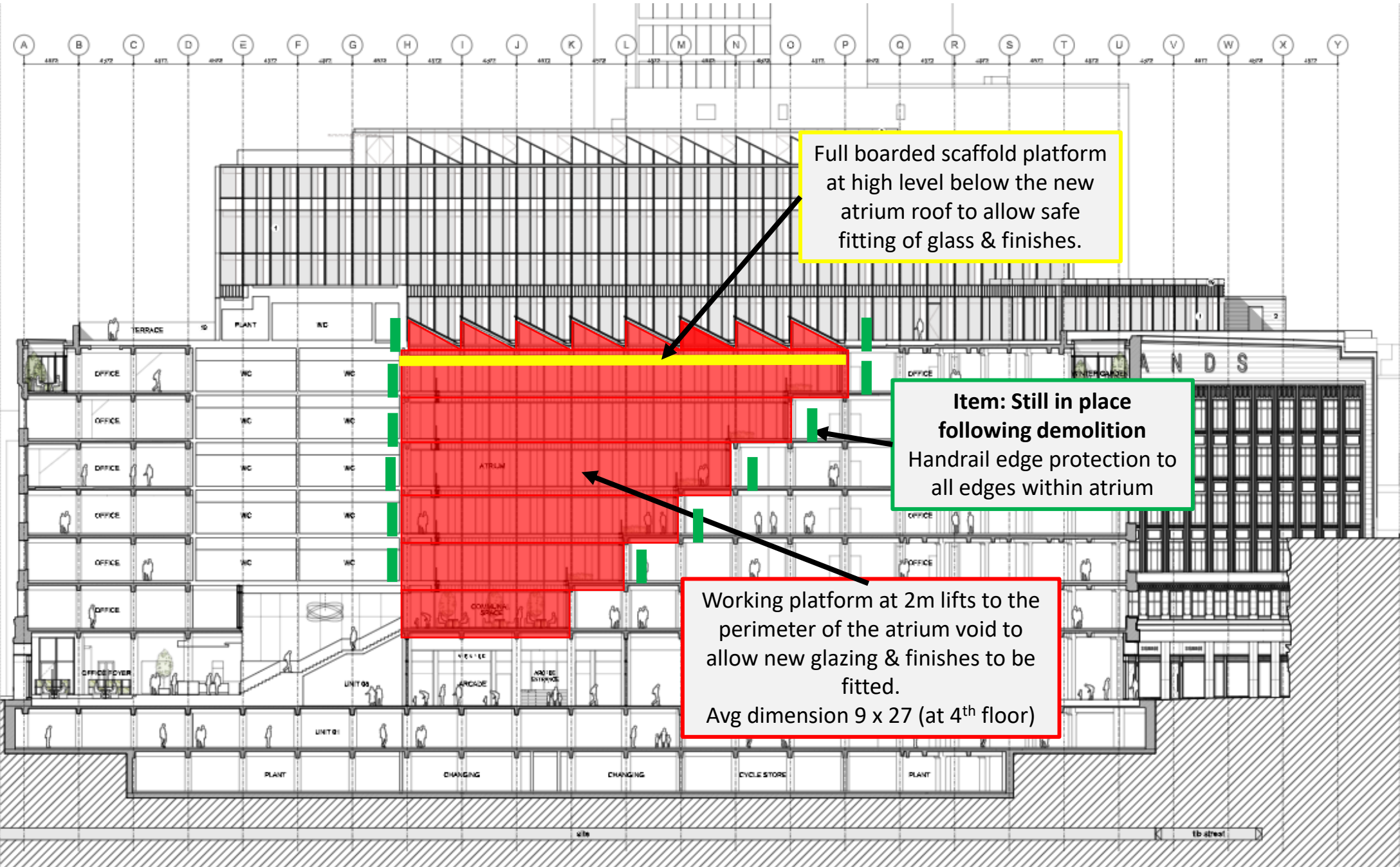
Each to receive ladder access and handrails as required.



Atrium & Level 7 Heritage Area



Proposed works summary.



Access to external elevations for cleaning & window refurb

Scaffold Schedule

Full Frame Scaffold (5 boards + 2 Internal boards)

- Fan included
- Beam over where pavement narrows
- Fully sheeted
- Walk through at pavement level
- Care taken around existing clock
- Stair access where shown
- Out of hours erection up to fan to South and West (Tram)
- Rear elevation Bridgewater Place to receive a narrow scaffold to allow carriageway to remain open. To corbel out at 3rd lift.

Area over Mansard roof to receive access platforms. Ladder beams bearing off roof and on to main perimeter scaffold. No weight to bear on the fragile roof

Cupola turrets and Heritage area of Level 7 to receive fully sheeted weather proof covering to allow refurbishment work to structure & glazing below.

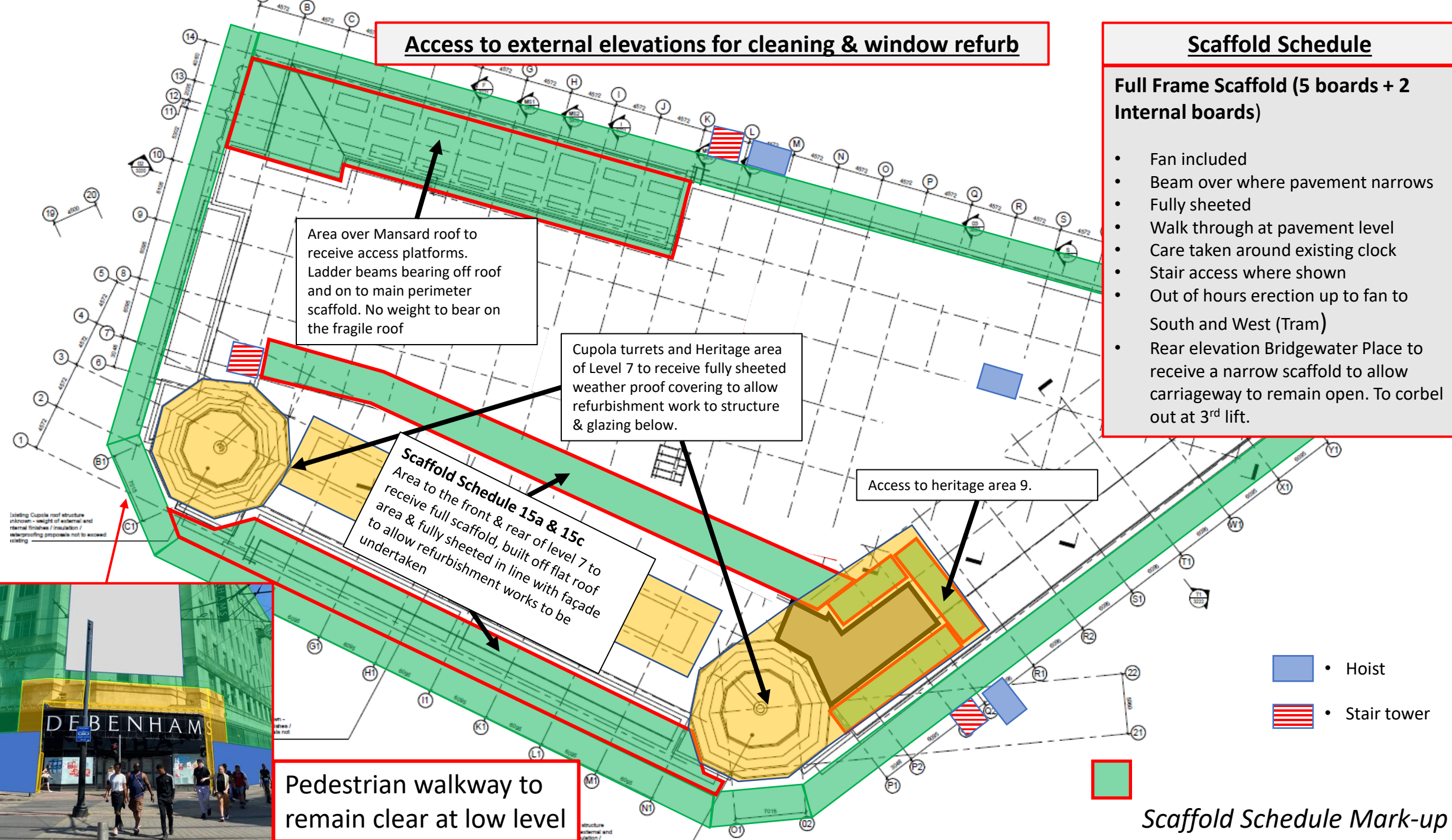
Scaffold Schedule 15a & 15c
Area to the front & rear of level 7 to receive full scaffold, built off flat roof area & fully sheeted in line with façade undertaken

Access to heritage area 9.

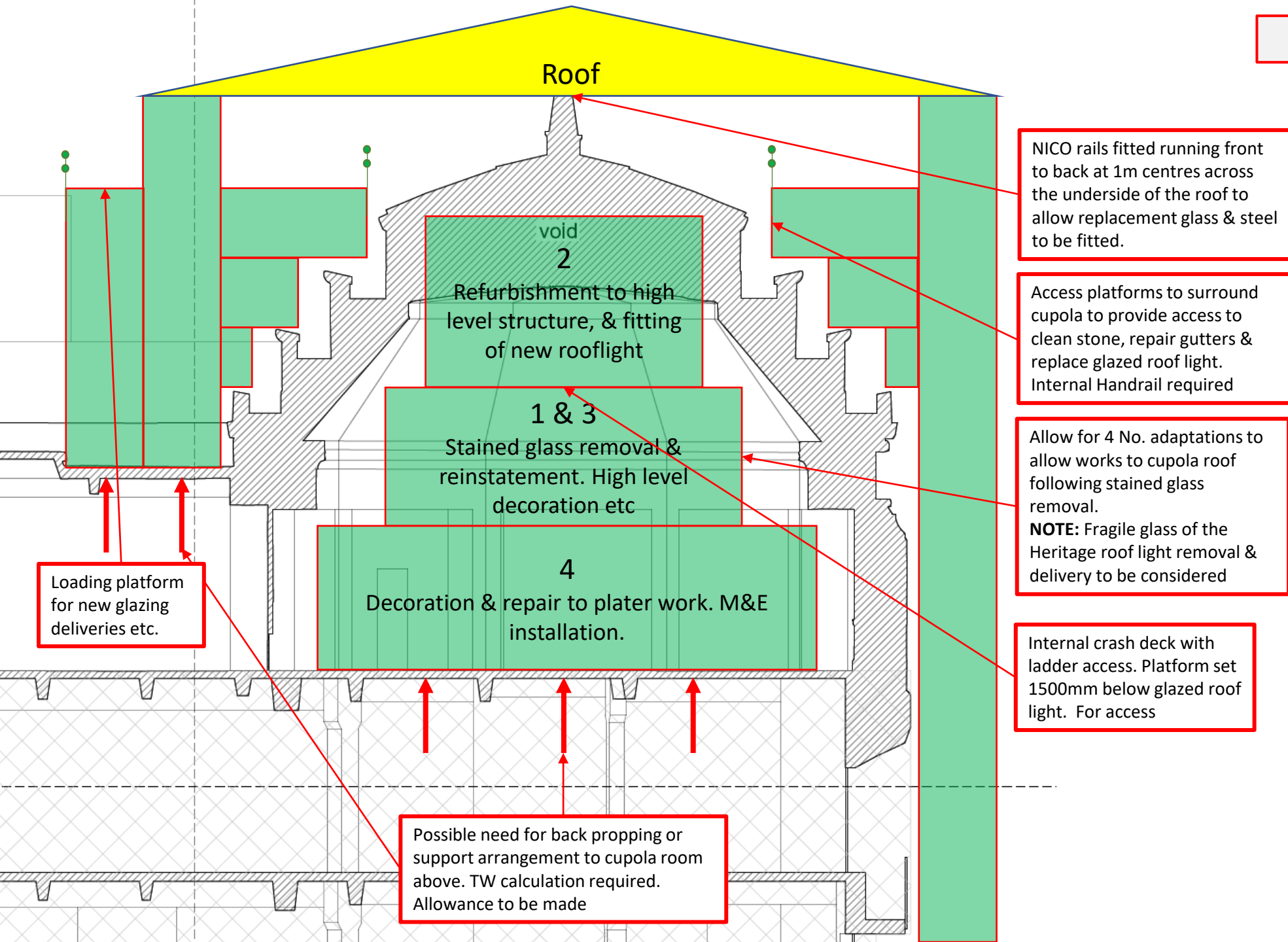
Pedestrian walkway to remain clear at low level

- Hoist
- Stair tower

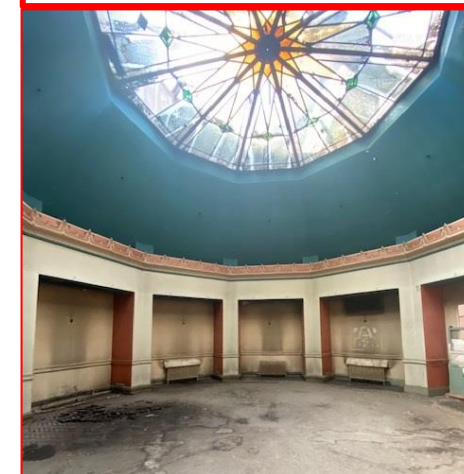
Scaffold Schedule Mark-up



Cupola scaffold (2 No)

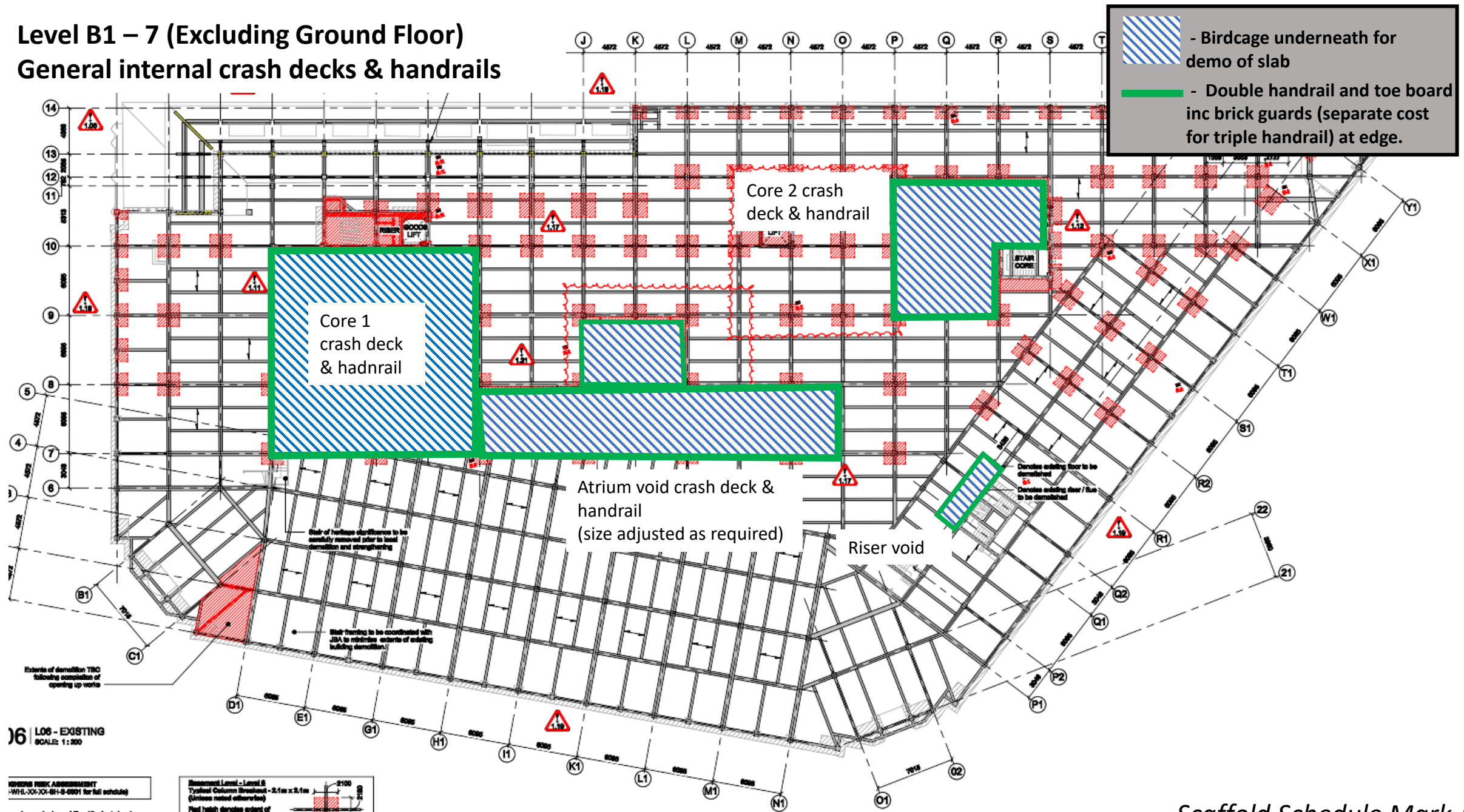


Reference picture

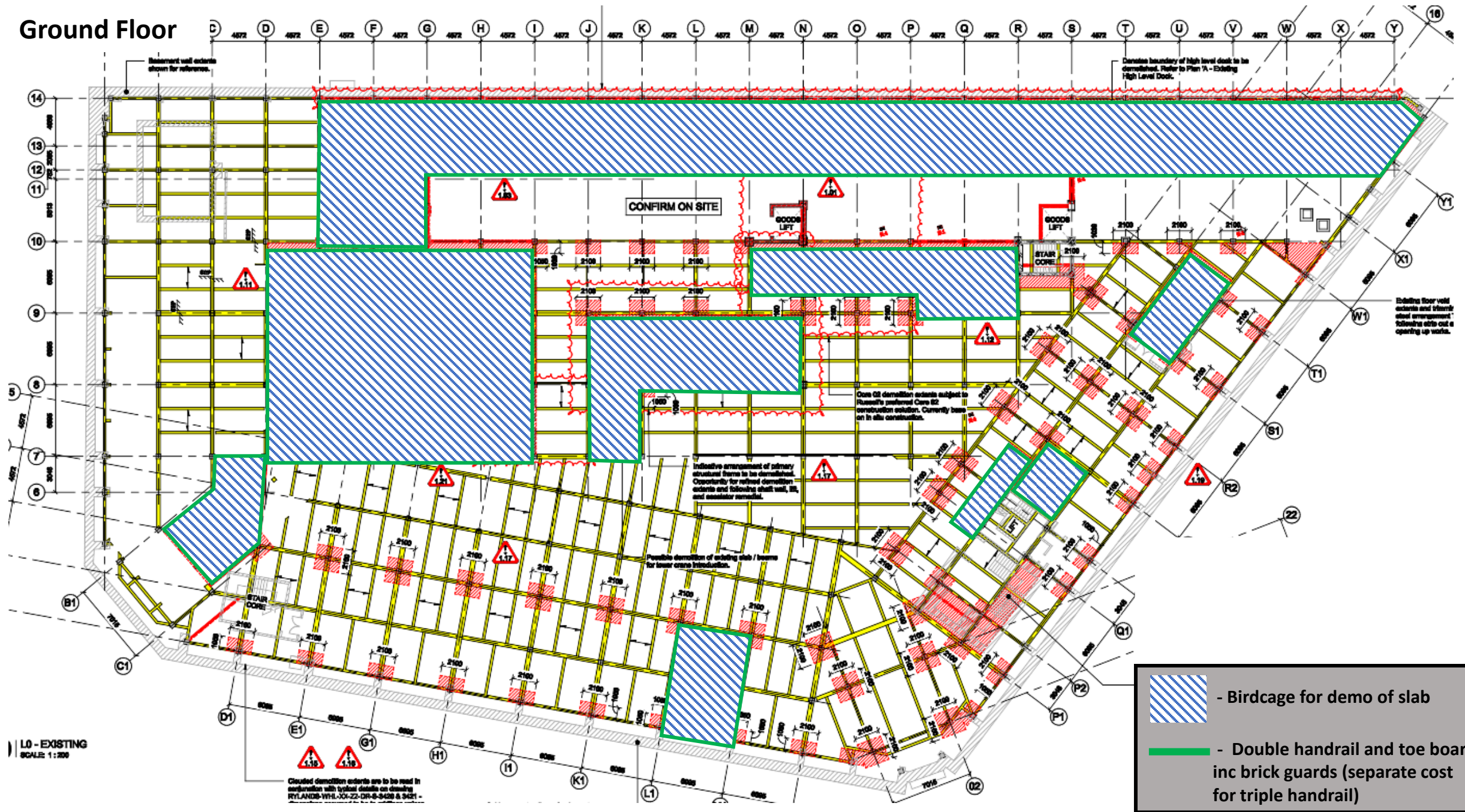


Scaffold Schedule Mark-up

Level B1 – 7 (Excluding Ground Floor) General internal crash decks & handrails



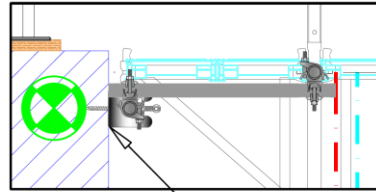
Ground Floor



Scaffold ties, install, removal and repair strategy

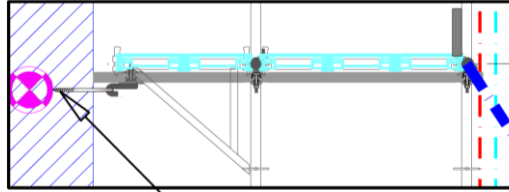
Example – Advertising scaffold High St / Market St corner

Shear Tie detail



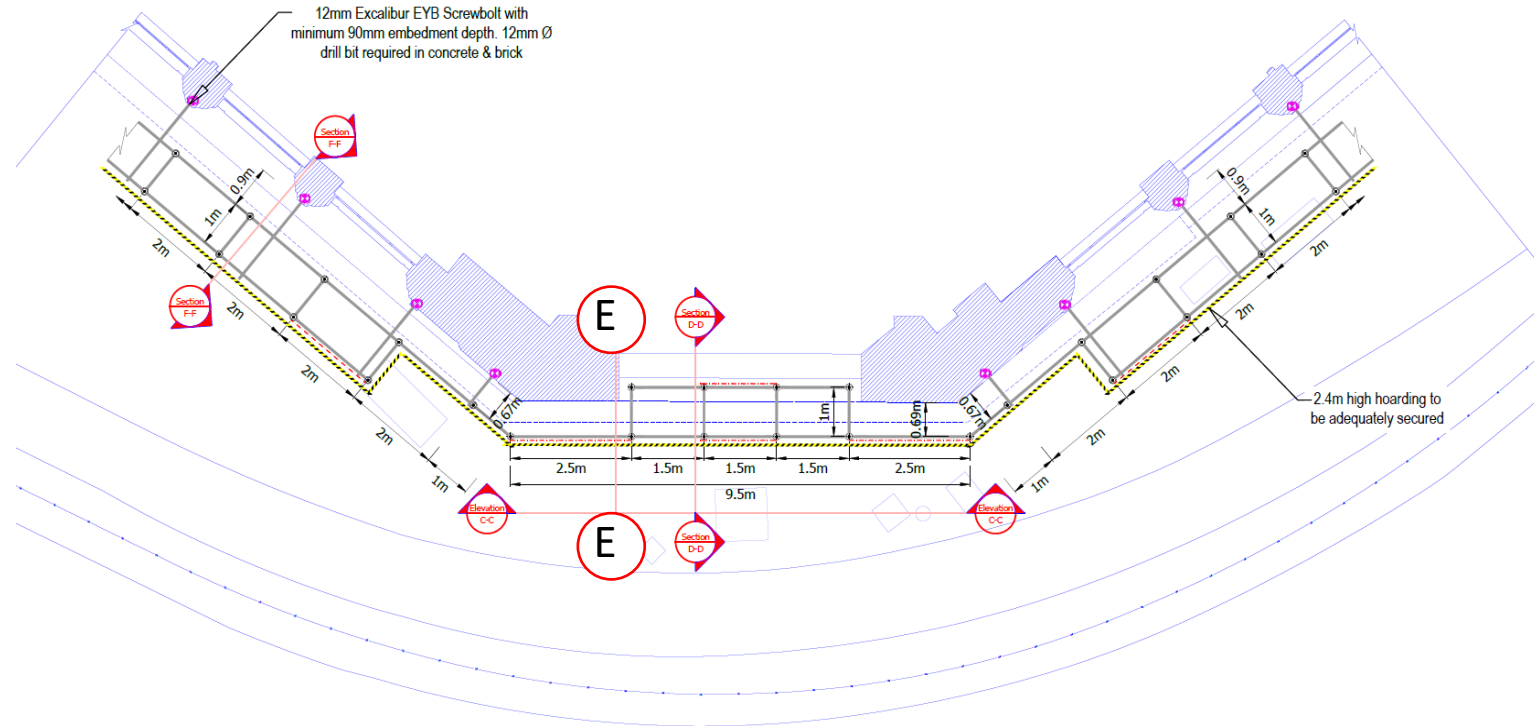
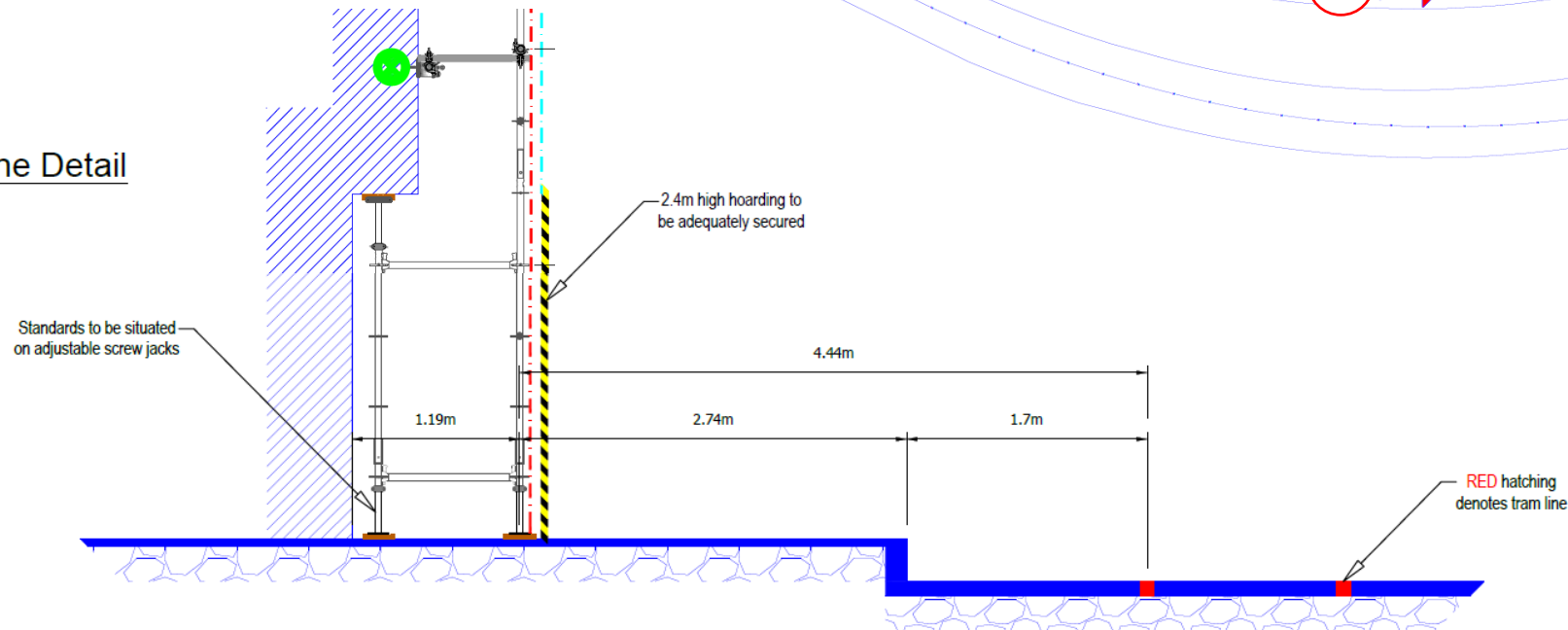
2no. band & plate shear ties required

Ringbolt Tie detail

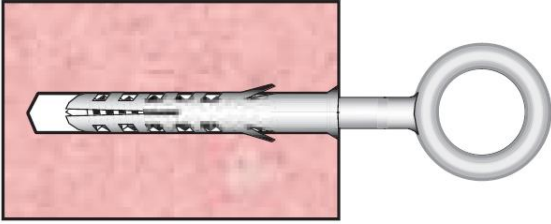


12mm Excalibur EYB Screwbolt

Section E-E
Curb & Tram Line Detail

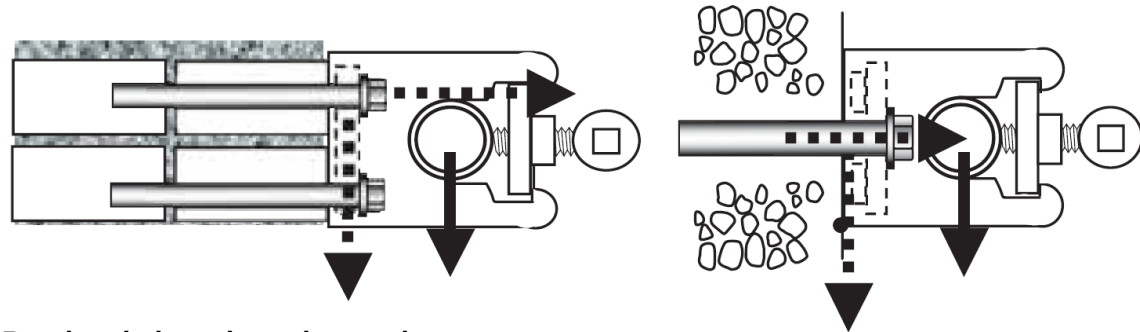


Example of system scaffold design to the High Street / Market Street corner.



Nylon plug anchors with screw-in eyes

These anchors are suitable for tying scaffold systems via links with hooks. They work in concrete, brickwork and stonework. **The plastic plug, usually Nylon, exerts a lower stress on masonry than a metal expansion anchor and so is less likely to crack weak bricks or stone.** The eye can be unscrewed after dismantling the scaffold leaving no components to corrode. Eye diameter is typically 22- 24mm which will accept hooks.

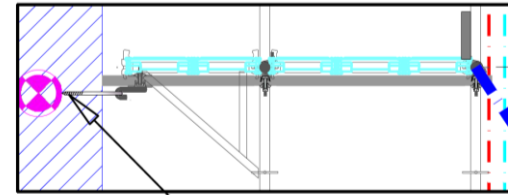


Band and plate shear tie coupler

These couplers are capable of taking tensile loads or shear loads (as shown below) and may be fixed with one or two fixings, depending on type, the latter will share the shear load between the two fixings but centre spacings will not allow a full brick course between anchors, which is recommended. They should be fixed using a suitable anchor through a chair or saddle which spreads the load and allows the bolt head of the anchor(s) to bear properly against the saddle without bending. If these accessories are not used damage to the bolt head is possible.

Scaffold ties, install, removal and repair strategy Example – Advertising scaffold High St / Market St corner

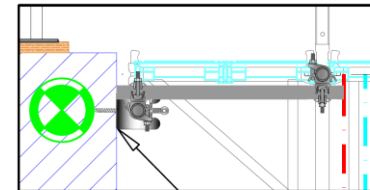
Ringbolt Tie detail



12mm Excalibur EYB Screwbolt

Ringbolt Tie – Provided to every other lift in 4m centres vertically and to each column horizontally as shown in the previous page.

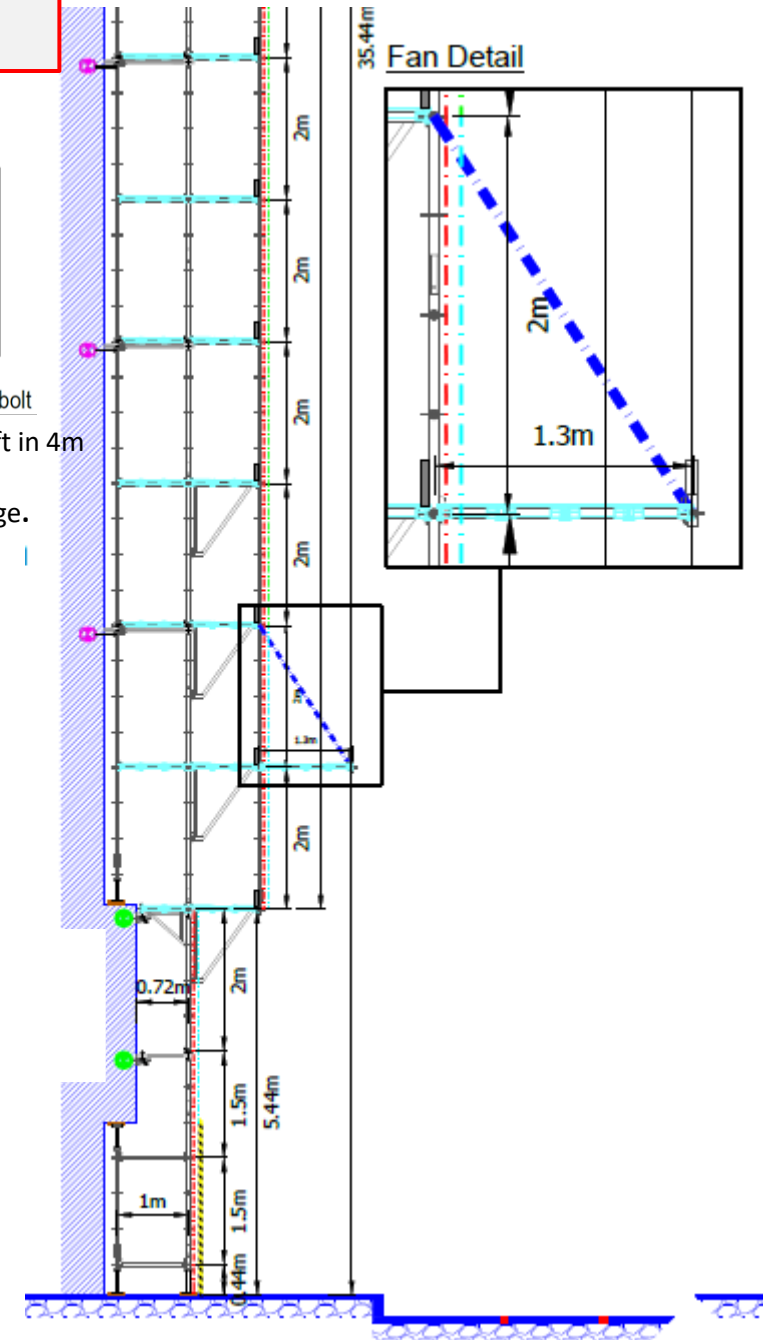
Shear Tie detail



2no. band & plate shear ties required

Shear Tie – Provided to locations where additional bracing is required. In this instance it is due to the singular standard at the corner of Market St / High St. This enables the scaffold to be as slender as possible for external pedestrian movement.

This is in line with recent discussion with MCC.



Scaffold ties, install, removal and repair strategy

Example – Advertising scaffold High St / Market St corner

Repair location example

Before



After

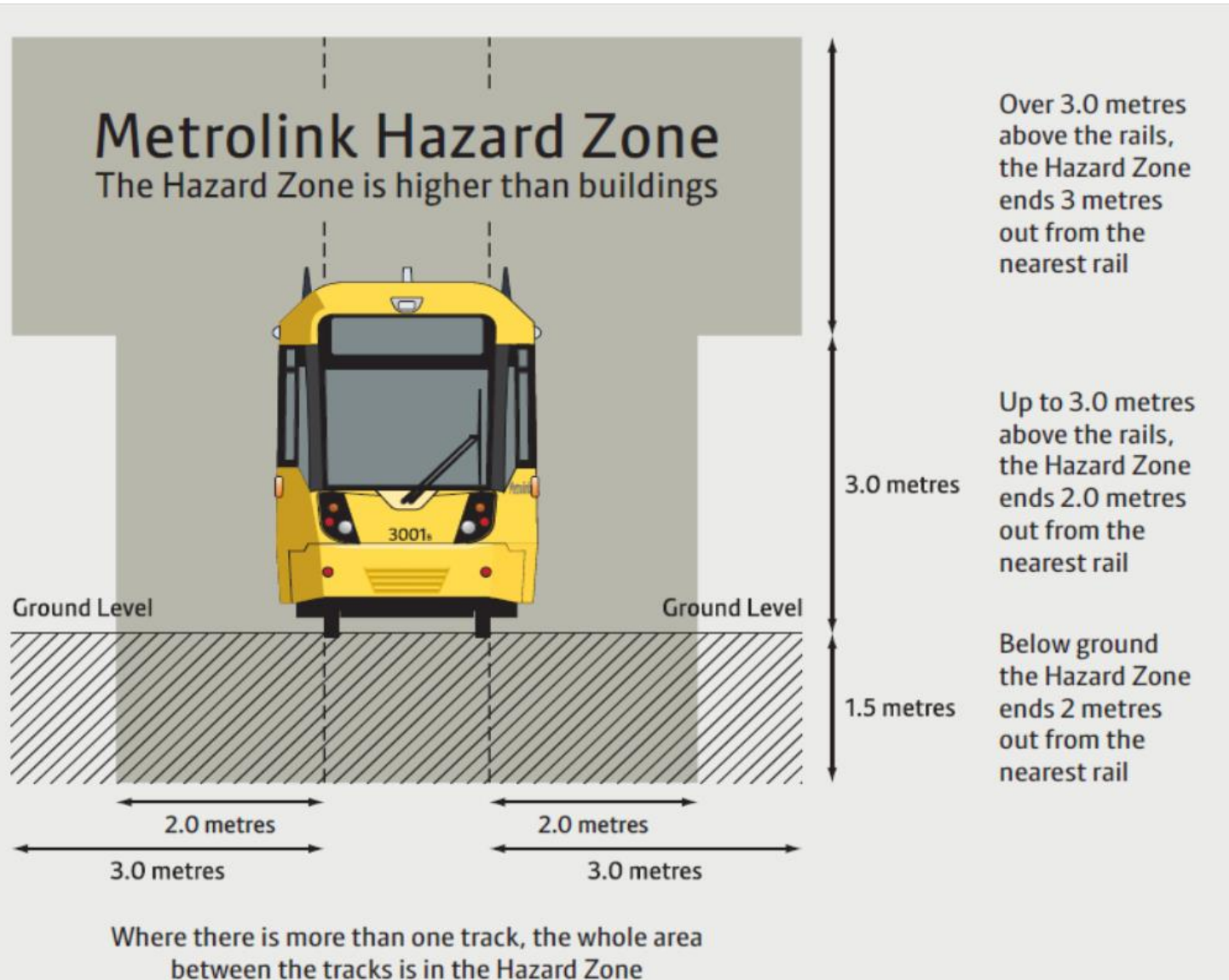


Repair Strategy to stone damage (including scaffold ties).

- The scaffold anchors will be unscrewed from the nylon plugs as work to remove the scaffold is undertaken.
- The Nylon plug will be left in place and the area will be cleaned.
- Stone masons will restore the remaining hole with a repair mortar compound which will be textured and toned to match the surrounding stone so as to present a blemish-free surface.
- Repair Mortar Specification – The stone mason will formulate a repair compound using lime and Portland Stone dust so as to achieve a durable finish. Using a lime-based compound will also ensure that the repair location weathers in the same way as the original stone going forward.
- Achieving a colour match – The stone mason will float the repair compound to bring the original stone to the surface and as such allow the natural colour of the stone to blend the repair into the surrounding stone.

Working adjacent to the metrolink

<https://tfgm.com/public-transport/tram/working-safely>



Health & Safety note:

- The external scaffold on High Street and Market Street are to be built within 5m of a live MetroLink line.
- Scaffold ground to 6.3m (inc Fan) MUST be built under night shift closure of the metro network.
- All scaffold from Fan height and above can be built without working time restrictions or network isolations.

Working adjacent to the metrolink



Metrolink Support cable protection

Metrolink Support Wire Protection Measure

There are 5 No. Connection points for the metro Link support wires attached to Rylands Building as noted in the marked-up plan below.

The connection points will **NOT** be affected by the proposed works.

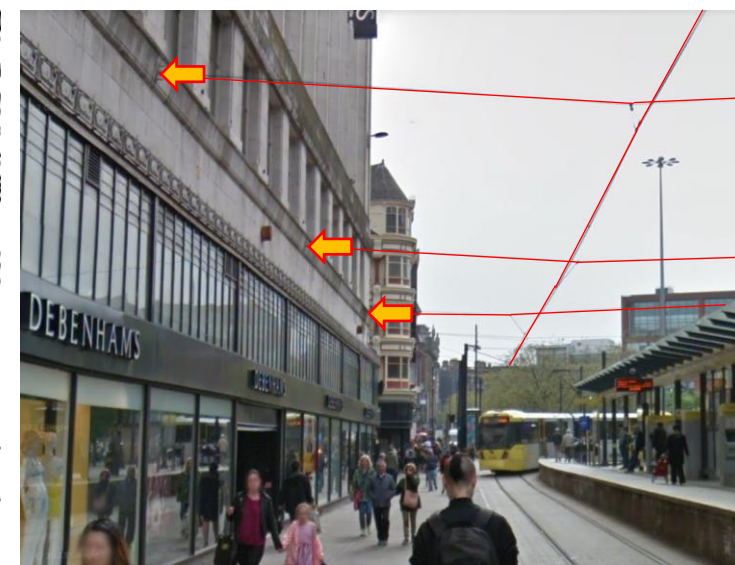
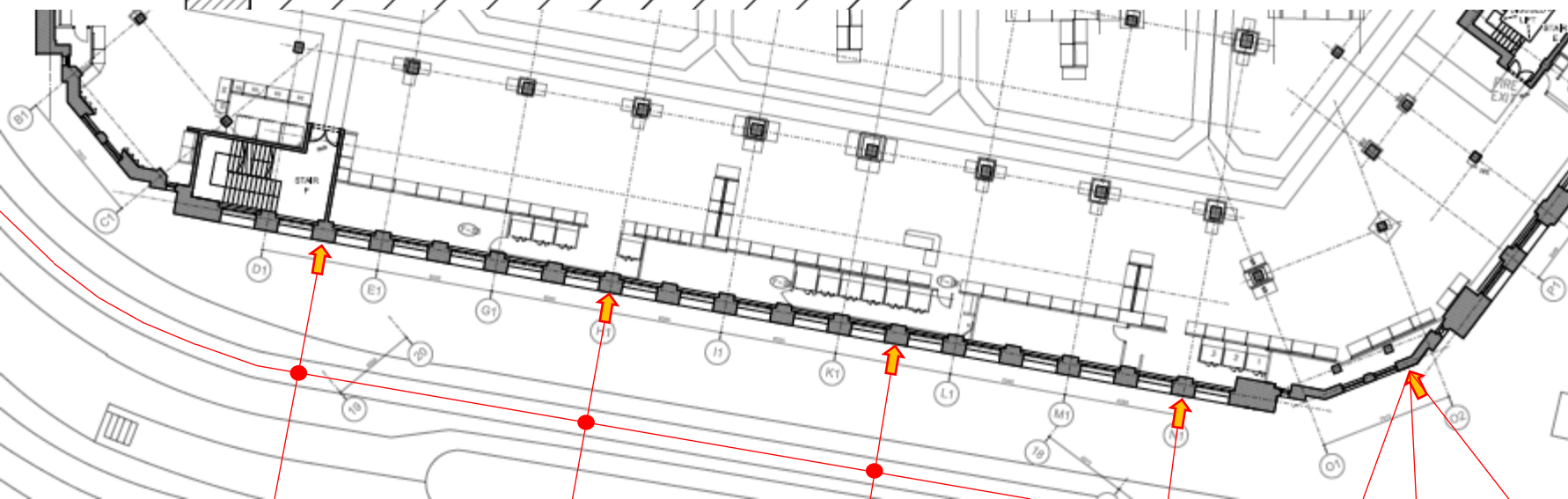
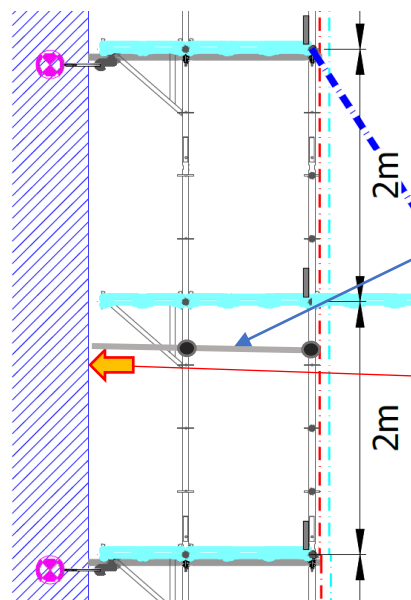
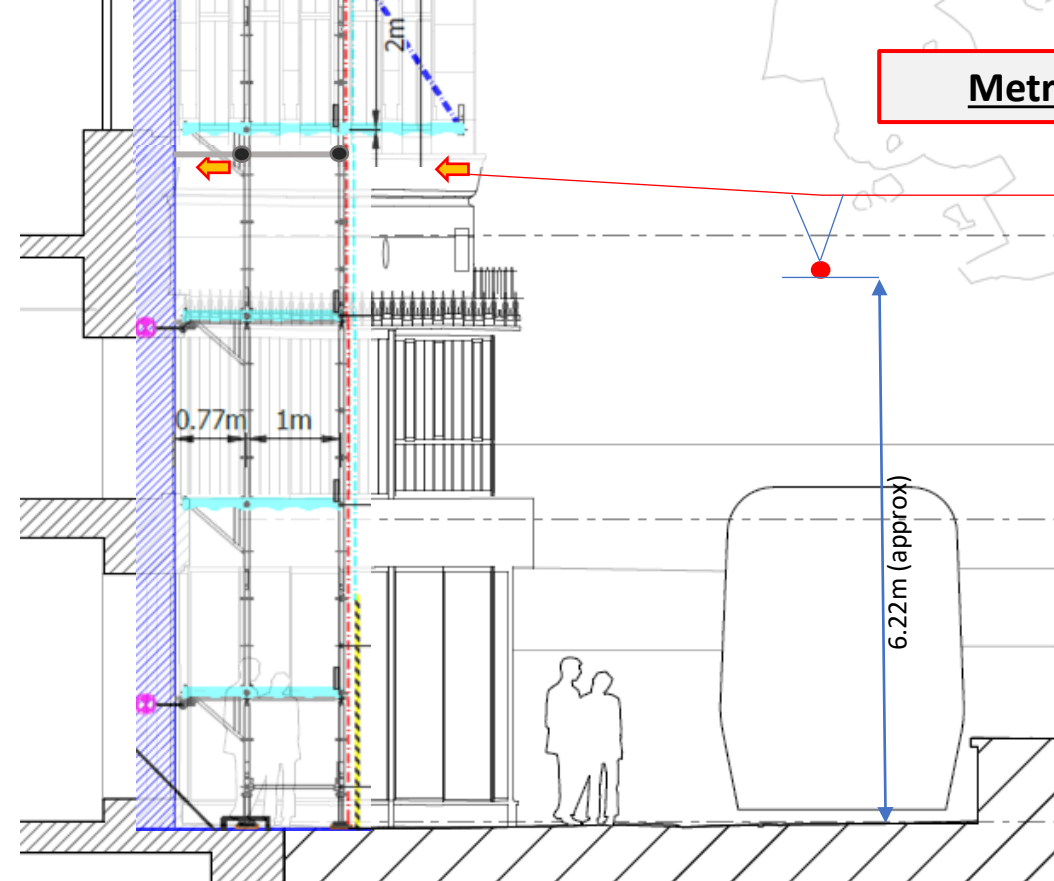
The building will receive a full envelope scaffold structure to facilitate the proposed refurbishment works.

As soon as practical a scaffold tube will be fitted approximately 150mm directly above the support wire.

This will provide protection in the event that anything falling from above would strike the tube before the support wire.

In addition to this, a protection fan will be fitted from the next platform above the support wire so as to provide additional protection from the above works.

The scaffold will receive a full wrap of Monarflex sheeting that will guard against construction debris migrating beyond the site boundary.



Fire Rated sheeting details & example.

Technical Data Sheet

MONARFLEX® Super T Plus Flamesafe



Description:

MONARFLEX® design fire retardant scaffold sheeting products that meets some of the strongest requirements there are on the market for longer term usage of more than 12 months. The unique strong and durable eyelets system is placed in patterns that fit most standard scaffold systems.

Properties:

The MONARFLEX® Super T Plus is the strongest product from the broad product range. The combination of high quality components form tough and durable sheeting for very rough and extreme working conditions ex. sandblasting and water-jetting.

Product data		MONARFLEX® Super T Plus Flamesafe		
Composition:		Blown co-polymer LDPE film, white		
Top layer		Grid, 9x12mm, 1670 dtex, polyester		
Grid layer		Coated co-polymer LDPE film, white		
Coater layer		Blue		
Eyelet		White		
Colour				
Description		Reinforce grid is placed between blown film layer and coater layer together with fixing eyelet.		
Technical data	Unit	Value	Tolerance	Test Method
Thickness (film)	mm	0,20	± 5%	EN 1849-2
Width	m	2,25 / 3,0 / 4,0	1,5/-0,5%	EN 1848-2
Length	m	48 / 45 / 40 / 36	1,0/0%	EN 1848-2
Weight per m2 (net)	g/m2	238	+10/-5%	EN 1849-2
Weight per m2(gross)	g/m2	255	+10/-5%	EN 1849-2
Tensile strength	N/50mm	MD 650	± 50N/50mm	EN 12311-1
	N/50mm	CD 700	± 50N/50mm	EN 12311-1
Elongation at Break		MD 15%	± 5%	EN 12311-1
		CD 15%	± 5%	EN 12311-1
Tear resistance	N	Min. 200		ASTM
Eyelet pullout strength	N	Min. 500		
Impact test		Conforms to		BS7955, Annex A
Puncture test.		Conforms to		BS7955, Annex B
Water tightness	2kPA	Pass class W1		EN 1928
Cold Flexibility	°C	-20		EN 1109
Fire properties		Class F		Not tested
Step proof test		NA		SP-0487
Light transmission	%	Min.50	± 10%	Int. Monarflex test
Colour		white		
Fire properties		Conforms to LPS1215		LPS1215

The final product is rolled and wrapped in a protected film and marked with labels.

Application

MONARFLEX® Super T Plus Flamesafe can be applied both vertically and horizontally. The eyelets form a system that suit most standard scaffold systems. Fixing the sheeting to the scaffold must be done according to calculations taking factors like wind, building season and height of the surrounding buildings into consideration. We recommend the use of 1 fixing/m2 but any fixing must be placed according to calculations for each project.

Monarflex s.r.o., Továrnská 1, SK 943 03 Stúrovo, Slovakia 06



Technical Bulletin



28th September 2022

MediaCo complete the UK's most advanced external banner solution.



Following the Grenfell fire, the UK insurance industry / underwriters have become increasingly diligent over the application of fire rated external banners on buildings. #BUILDINGWRAPS/BRANDING.

The existing Loss Prevention Standard LPS 1215 only applies to Monarflex, and debris netting and not printed building wraps or banners. The only fire rating for external building wraps/banners is TS62 – certify.

12 months ago, MediaCo started the detailed and lengthy application and compliance process to become the first TS62 accredited producer which has been achieved. This process is expensive and requires site audits by Warrington Fire of both the material manufacturer in their country of origin and the print company every year, neither company can change technology or use alternative or additional consumables, otherwise the product would fail inspection.

MediaCo is the first company in the UK to achieve this standard and Manchester City Council have authorised a promotional banner to be installed on their town hall which is under refurbishment, impressive.

For more information contact

Stephen Arthur – Managing Director

stephen.arthur@mediaco.co.uk

End

Advert banner lighting details & example.

LUMILIFE

HIGH EFFICIENCY LED SLIMLINE FLOODLIGHTS

MEAN WELL DRIVER | PC COOLER HEAT SINK | 5 YEAR WARRANTY

APPLICATIONS

- Building facades illumination
- Area Floodlighting
- Industrial Premises
- Small sports ground
- Perimeter & Security lighting
- Amenity

SPECIFICATION

- Efficacy (Lm/W): 115
- Voltage (V AC): 100-240V
- Frequency (Hz): 50/60
- Power factor: >0.9
- Rated Switch Cycles: 40,000
- Beam Angle (°): 120
- Colour temperature (K): 6000
- Flicker free Meanwell driver
- Colour rendering index (CRI): 80
- Surge Protection (kV): 6
- Operating temperature (°C): -20 / +45
- Average lifetime (hrs): 30,000
- IP / IK Level: 65/08
- Output Voltage (DC): 30V
- Electrical Safety Class 1

CONSTRUCTION

- Anti Corrosive & Slim Design
- IP65 cable gland
- IP65 black housing
- Tempered Glass
- Polished Aluminium Reflector



SKU CODE	DESCRIPTION	WATTS	LM	INPUT CURRENT (MA)	OUTPUT CURRENT (MA)	WEIGHT (KGS)	SIZE (LXWXH)
FL-SMD-80W-6000K-B	80W LED SMD Flood Light - Mean Well Driver	80	9200	350	2360	2.8	245x254x55mm
FL-SMD-100W-6000K-B	100W LED SMD Flood Light - Mean Well Driver	100	11500	435	2960	3.75	295x320x60mm
FL-SMD-150W-6000K-B	150W LED SMD Flood Light - Mean Well Driver	150	17250	653	4440	4.75	330x430x60mm
FL-SMD-200W-6000K-B	200W LED SMD Flood Light - Mean Well Driver	200	23000	870	5920	5.85	360x470x60mm



Metrolink Support Wire Protection Measure

- The banner would be swapped out on a 14 or 28-day basis depending on the particular advert.
- The work would be done at night so as to avoid any daytime disturbance to the footpath below.
- The banner would be fitted to the top and attached to the banner frame in a top-down manner.
- The exchange process would not affect the metro link cables in any way and there is no requirement for network isolations.

Draft Scaffolding Programme

