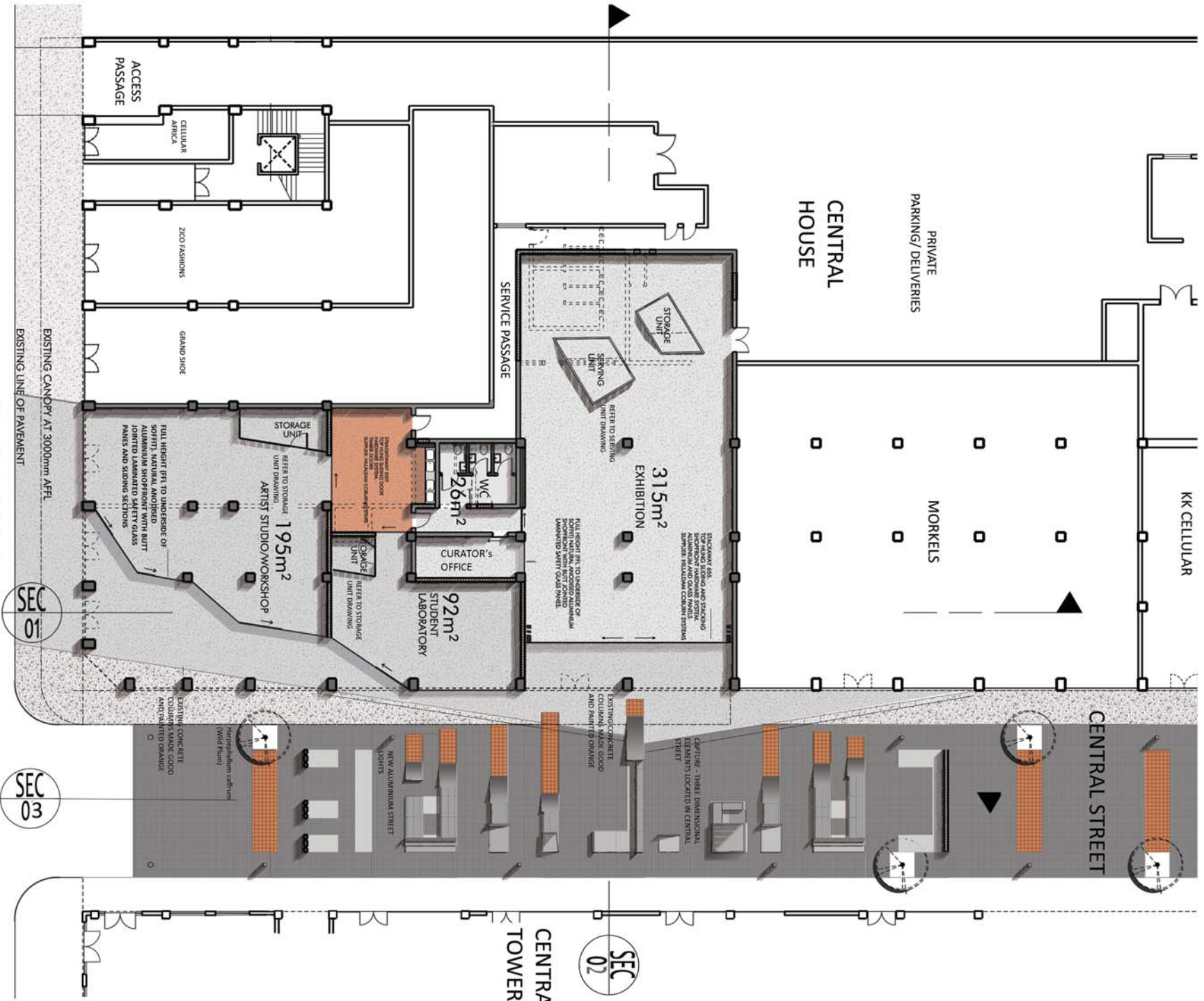


[TECHNICAL INVESTIGATION]



- SEAMLESS SELF-SMOOTHING FLEXIBLE POLYURETHANE BASED FLOOR SYSTEM, MASTERSTOP 1325 FOR AREAS WITH HEAVY PEDESTRIAN TRAFFIC. SUPPLIER: BASF CHEMICAL COMPANY
- SEAMLESS SELF-SMOOTHING FLEXIBLE POLYURETHANE BASED FLOOR SYSTEM, MASTERSTOP 1326ARTICLOOR. SUPPLIER: BASF CHEMICAL COMPANY
- COLOUR: LIGHT GREY
- SEAMLESS SELF-SMOOTHING FLEXIBLE POLYURETHANE BASED FLOOR SYSTEM, MASTERSTOP 1326ARTICLOOR. SUPPLIER: BASF CHEMICAL COMPANY
- COLOUR: LIGHT GREY
- PROXY RESIN COATING FOR CONCRETE FLOORS, HARD WALLS, MASTERSTOP 1120T. GOOD RESISTANCE TO A WIDE RANGE OF CHEMICALS. SUPPLIER: BASF CHEMICAL COMPANY

- NEW EXPOSED AGGREGATE CONCRETE TO MATCH THE COLOUR OF EXISTING FLOOR FINISH ON PAVEMENT
- 100 x 100mm COBBLE STONES. EXISTING STONES TO BE REUSED IN INDICATED PATTERN
- 225 x 225mm BASKET WEAVE PATTERN FROM RE USED RED FACE BRICKS, APPLIED TO INDICATED PATTERN

FLOOR FINISHES SCHEDULE

FLOOR PLAN NEW WORKS AND DEMOLITIONS



The technical investigation of the intervention is revealed with the focus on certain of the main design elements and aspects. The technical section of the intervention is apparent through the utilization of certain materials as well as of certain methods of construction.



Fig 69 Southern Elevation



Fig 70 Eastern Elevation

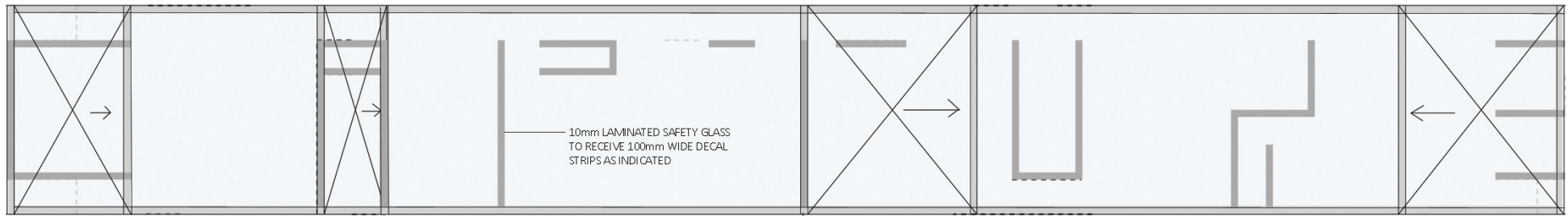


Fig 71 Artist Studio Shopfront

FULL HEIGHT (FFL TO UNDERSIDE OF SOFFIT), NATURAL ANODISED ALUMINIUM SHOPFRONT WITH BUTT JOINTED LAMINATED SAFETY GLASS PAINES AND SLIDING SECTIONS

SHOPFRONT - SETTING OUT ELEVATION

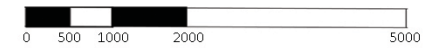
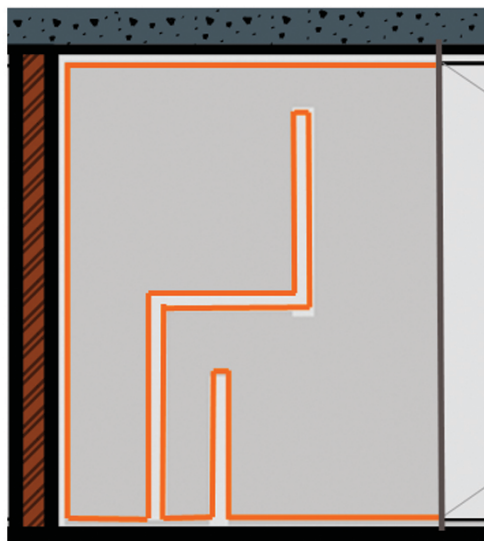
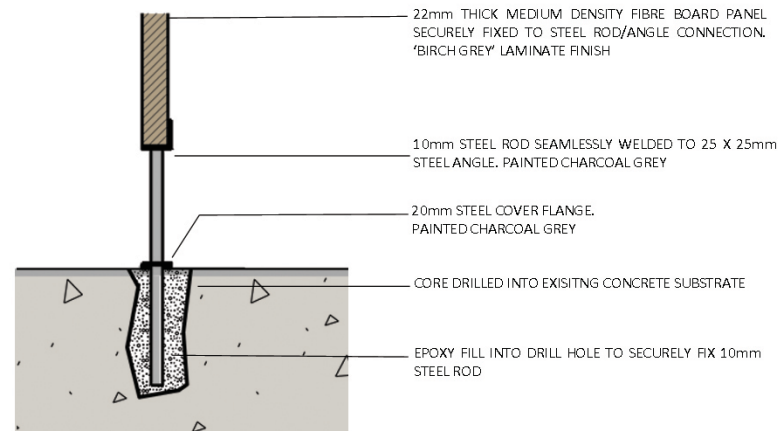


Fig 71.1 Artist Studio Shopfront Elevation



ELEVATION - STORAGE UNIT
IN STUDENT RESEARCH SPACE

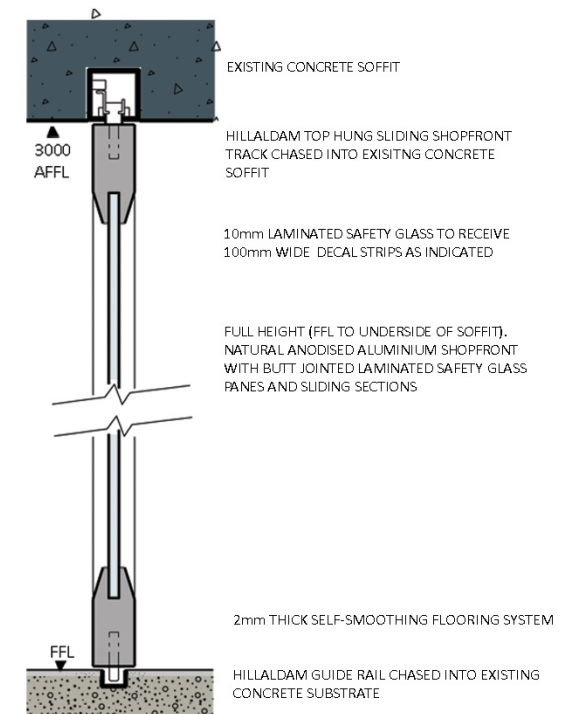
NOT TO SCALE



DETAIL
FIXING OF STORAGE UNIT DETAIL



Fig 72.2 Storage unit detail



DETAIL - SHOPFRONT



Fig 71.2 Artist Studio Shopfront Detail

Fig 72.1 Storage unit Elevation

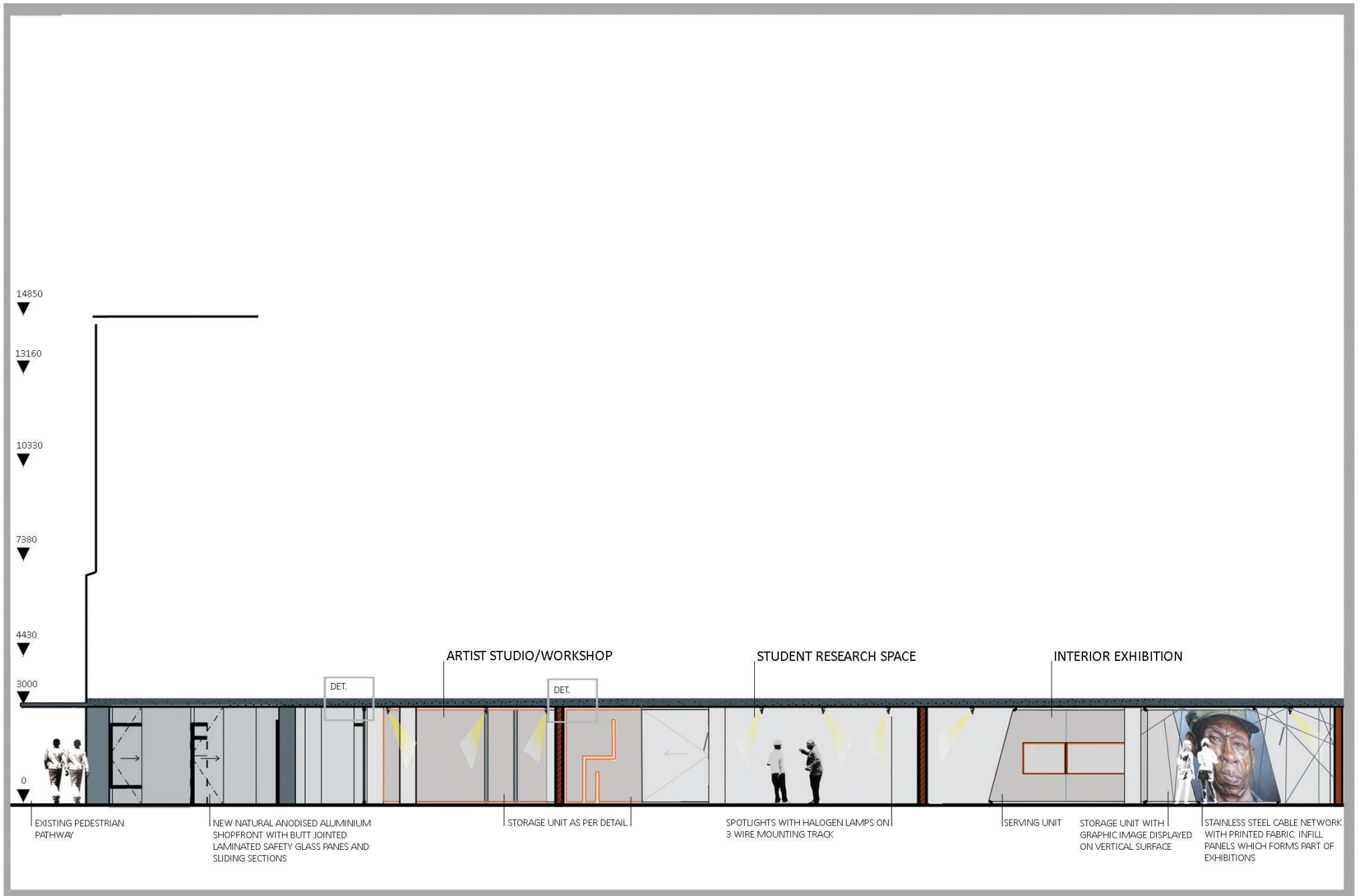
1. [The Existing space]

The existing building consists of a column and beam structure with masonry infill. The existing soffit height throughout is 3 meters above floor level. Some existing walls are removed and new walls added to ensure that the structural integrity of the building envelope is not compromised.

2. [Artists Studio]

The existing shopfronts which frame the corner is removed and the line pushed back forming a jagged pattern. A new aluminium and glass shopfront is installed that are fitted with three sliding opening sections. An abstract pattern of *CAPTURE* will be applied to the shopfront.

Timber panels form storage units within the artist studio and the experimental laboratory. They appear to be suspended within the spaces, emphasizing the notion of being captured. They are attached to the walls, floors and soffit with steel rods to create a “pin” like connection to the existing space. These panels are perforated with holes at specific places which stem from the pattern that is created by the abstract spelling of *CAPTURE*. The holes are framed with steel angles that are painted tangerine orange to emphasize the pattern.



SECTION 01

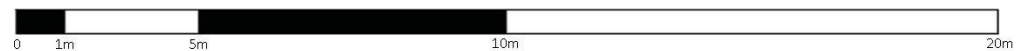
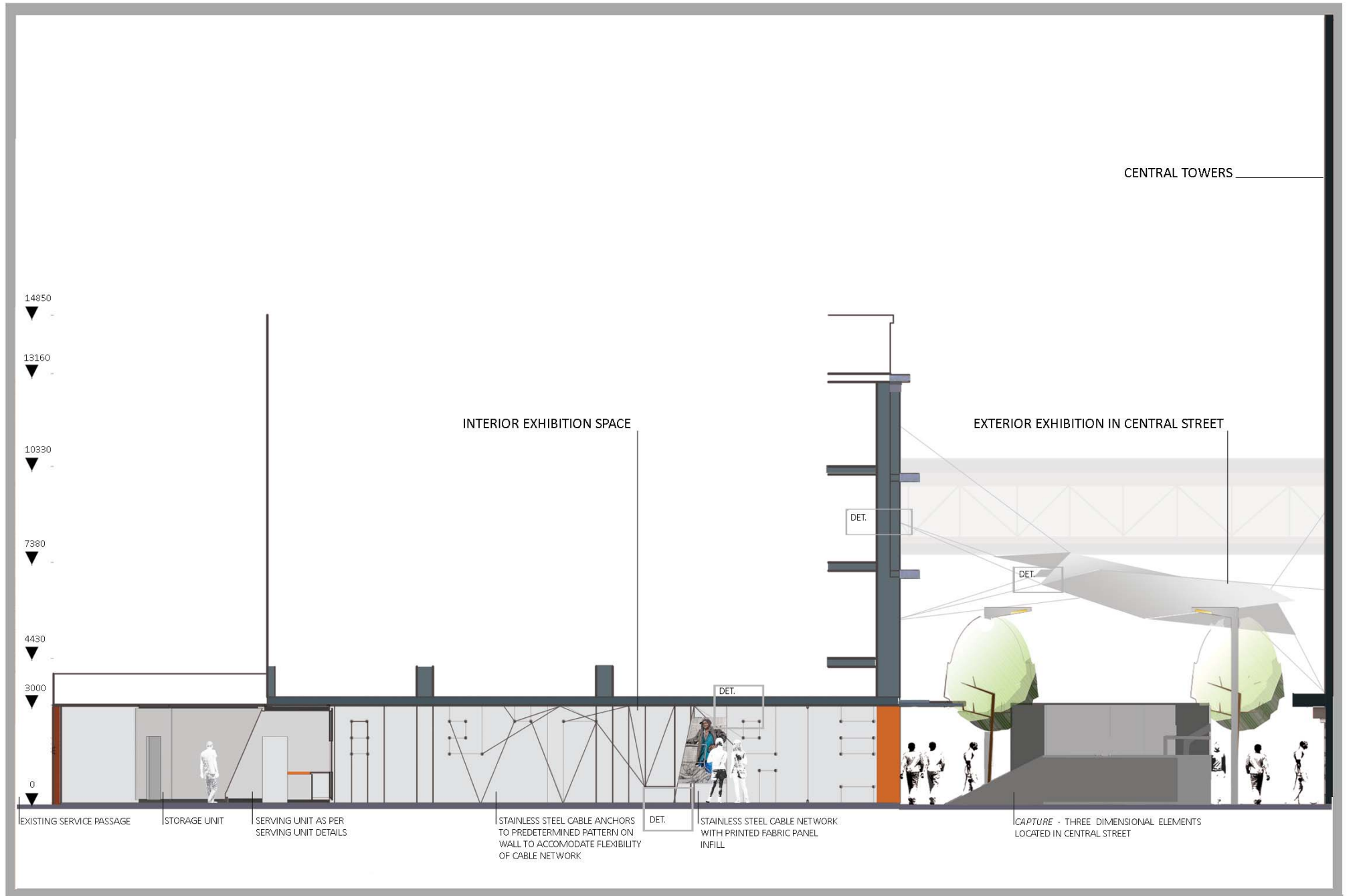


Fig 73 Section 01





SECTION 02

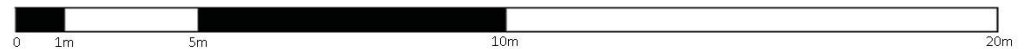
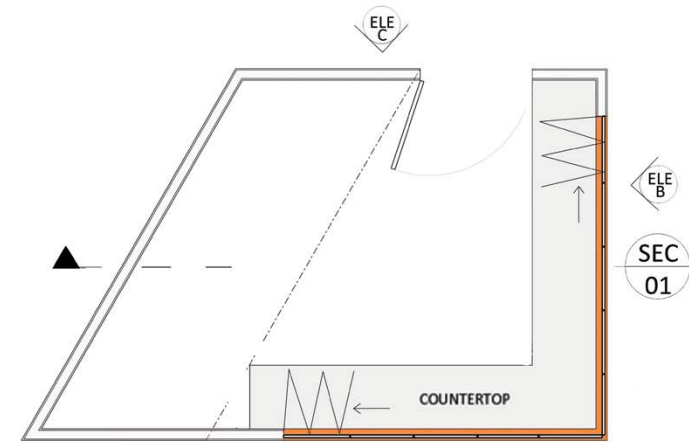


Fig 74 Section 02

3. [Serving Unit - Interior Exhibition]

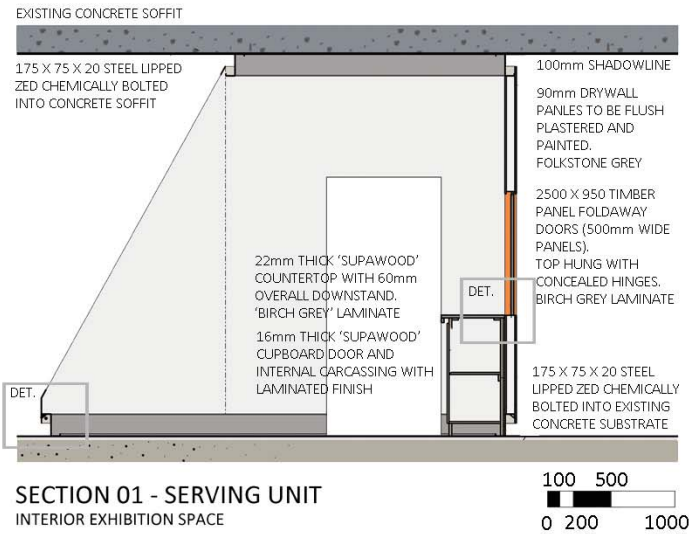
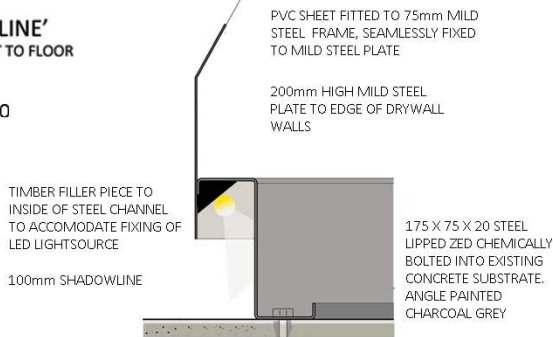
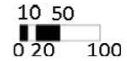
The Storage and Serving units within the space are composed of drywall partitioning that is fixed to steel lipped zed channels which are fixed to the floor and soffit. This connection creates a shadowline which makes the units appear to be suspended within the space. LED lights will be housed in the recessed openings that are created which will emphasize this.

Fig 76 Serving Unit and Details in Interior exhibition Space

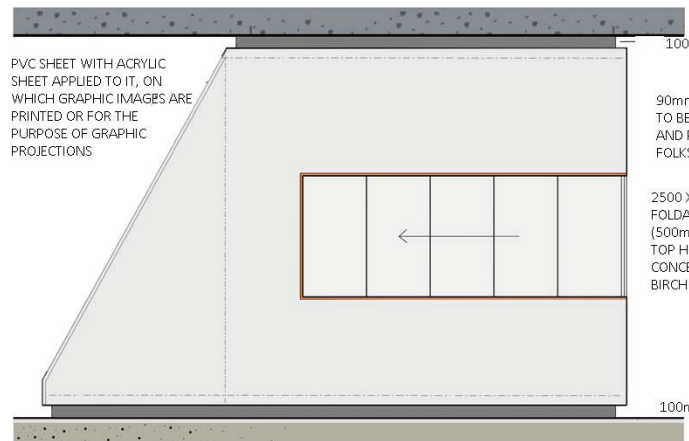
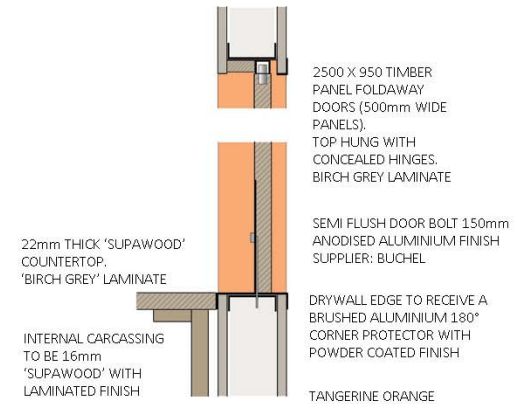
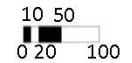


PLAN - SERVING UNIT
INTERIOR EXHIBITION SPACE

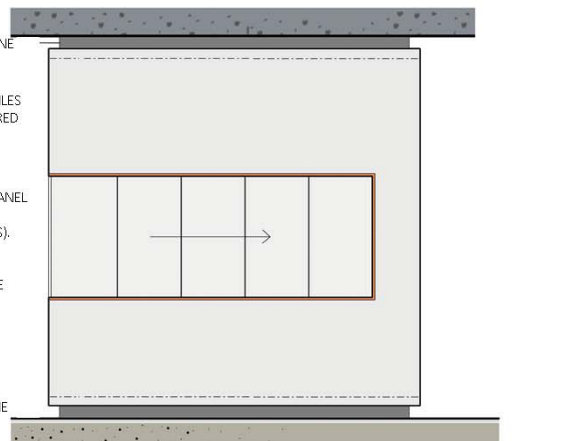
DETAIL
'SHADOWLINE'
FIXING OF UNIT TO FLOOR



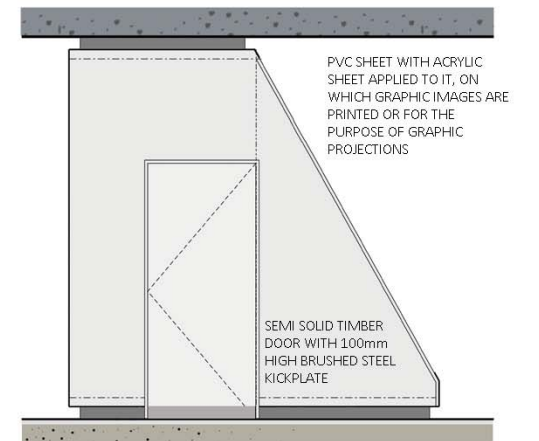
DETAIL
TIMBER PANEL CONNECTION



ELEVATION A - SERVING UNIT
INTERIOR EXHIBITION SPACE



ELEVATION B - SERVING UNIT
INTERIOR EXHIBITION SPACE



ELEVATION C - SERVING UNIT
INTERIOR EXHIBITION SPACE

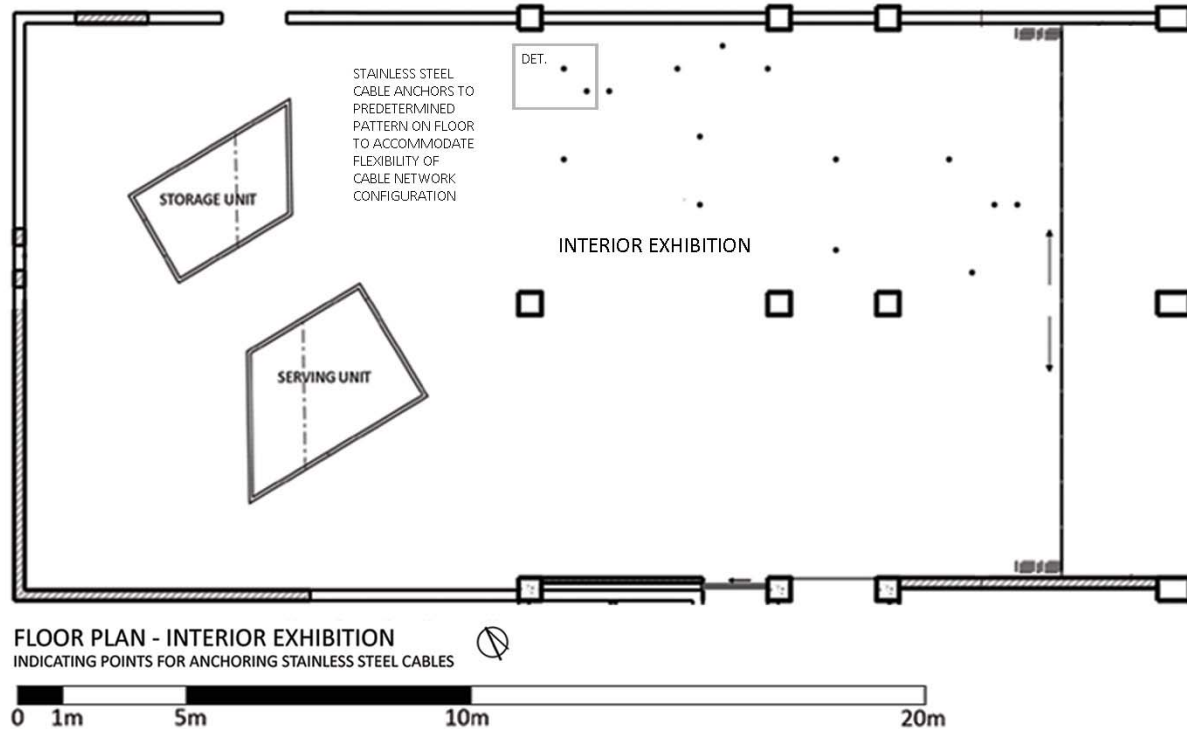
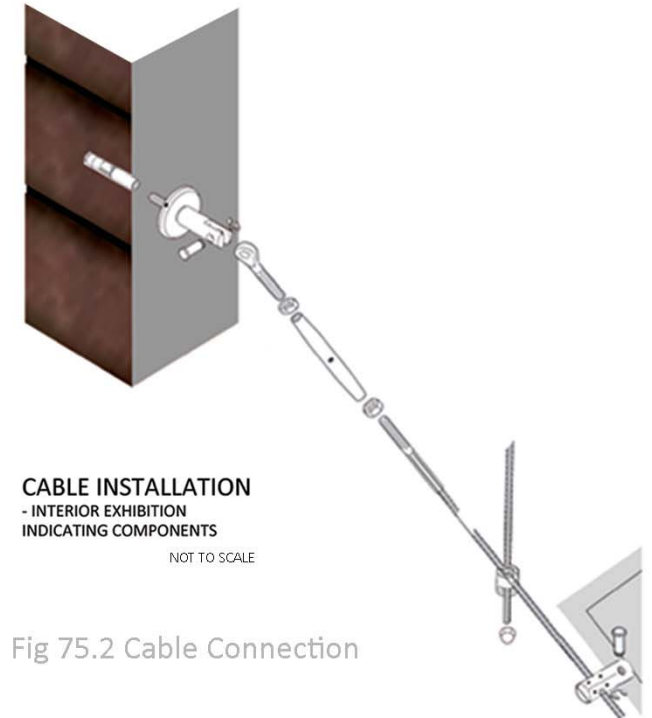


Fig 75.1 Cable Installation plan

4. [Cable Network - Interior Exhibition]

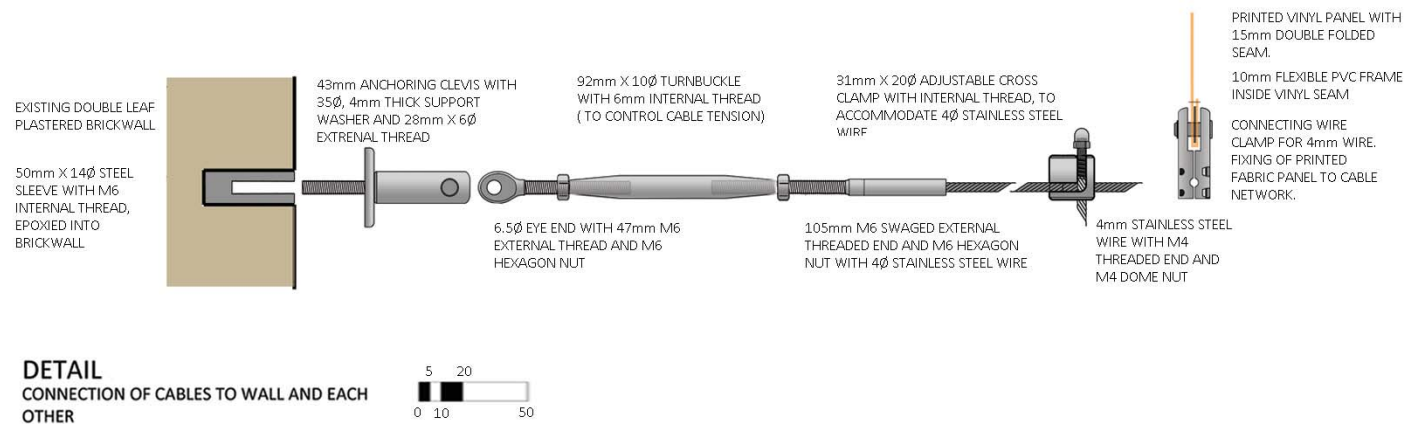
The cable network are connected to the walls, floor and soffit with anchoring clevises. Images that are printed onto vinyl sheets are attached between the cables in the network with connecting wire clamps.



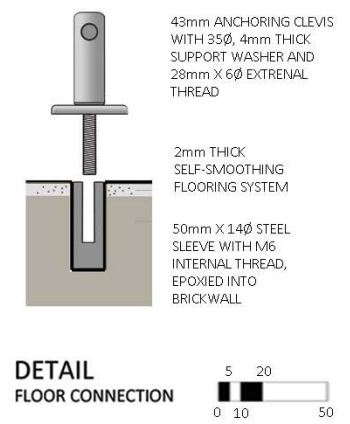
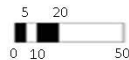
CABLE INSTALLATION - INTERIOR EXHIBITION INDICATING COMPONENTS

NOT TO SCALE

Fig 75.2 Cable Connection



DETAIL CONNECTION OF CABLES TO WALL AND EACH OTHER



DETAIL FLOOR CONNECTION

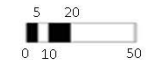
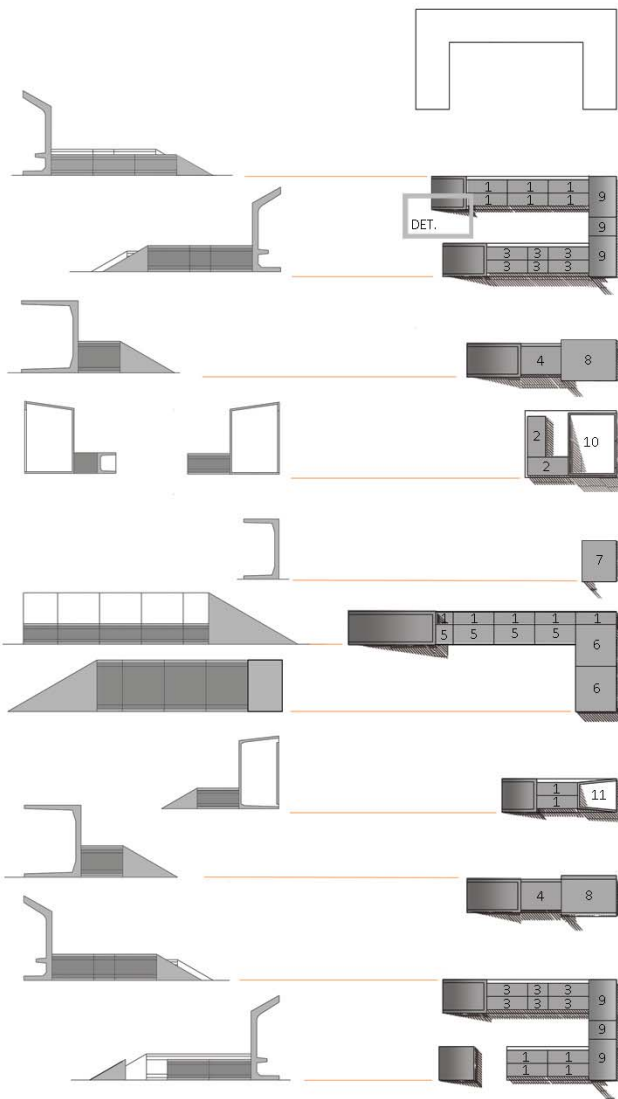


Fig 75.4 Cable Detail



ELEVATIONS - CAPTURE
INDIVIDUAL ELEMENT ELEVATIONS



Fig 77.1 Seating elements in elevation

PLAN - CAPTURE
INDICATING SCHEDULE KEY TO ELEMENT SIZES



Fig 77.2 Seating elements in plan

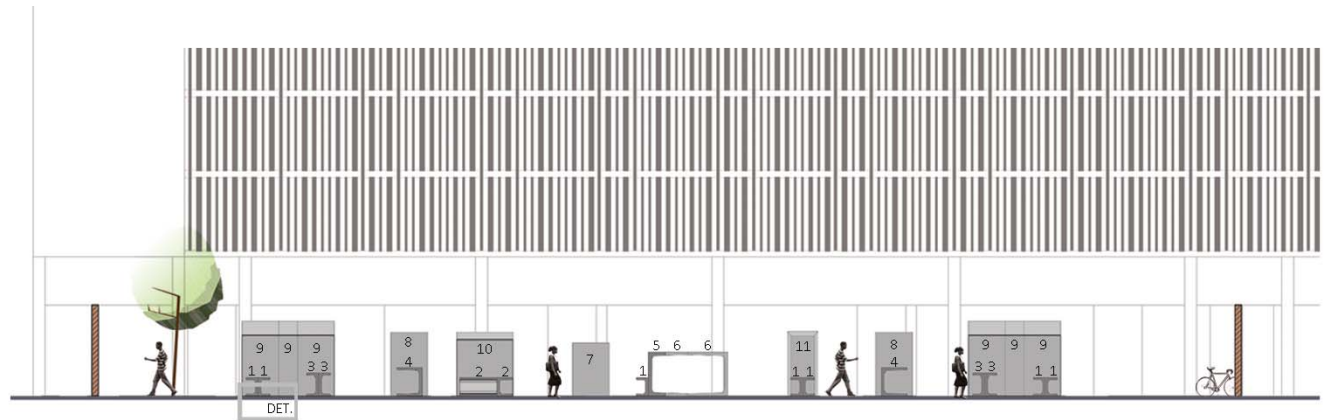
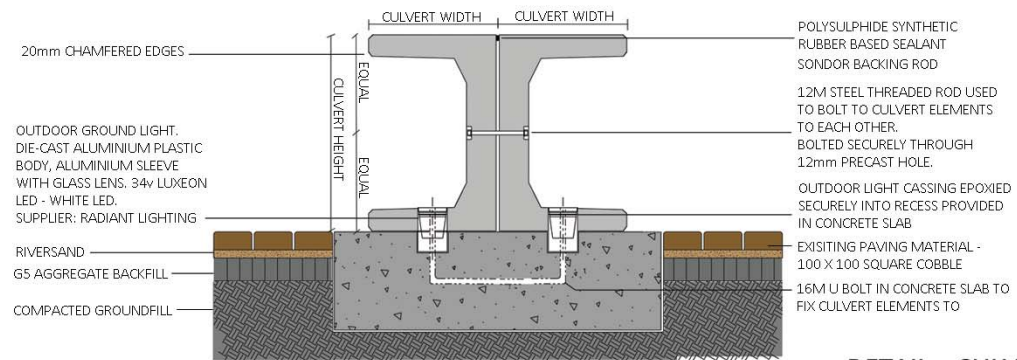


Fig 77.3 Section 03

SECTION 03



DETAIL - CULVERT FIXING



Fig 77.4 Culvert connection Detail

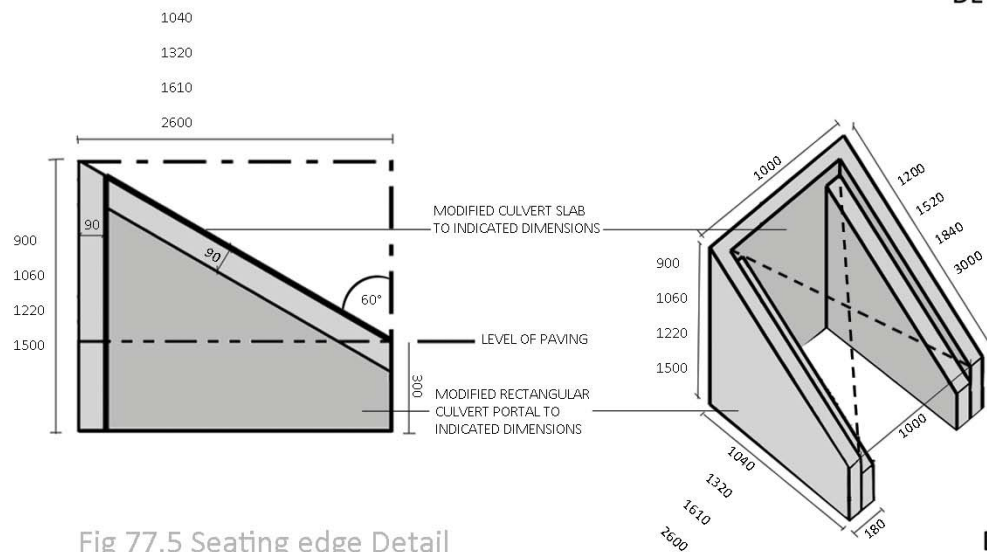
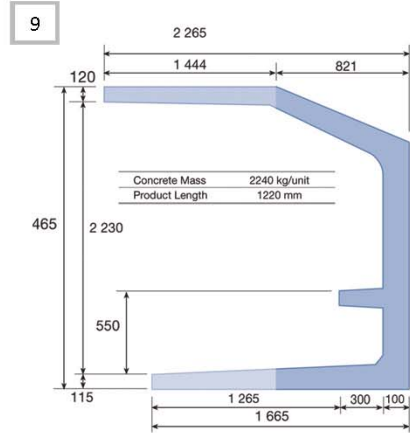


Fig 77.5 Seating edge Detail

DETAIL - EDGE DETAIL
NOT TO SCALE

ROCLA BUS SHELTER



5. [Three dimensional seating elements - Exterior Exhibition]

The three dimensionalThese elements are positioned in such a way as to ensure optimum, easy circulation through the space.

A three dimensional sequence of seating elements that are introduced into the street was initially investigated as being concrete elements. In the process of refining the design the possibility of *Rocla* pre cast products as material use where established. The products that are supplied by Rocla ranges from concrete culverts, busstops, culvert slabs, signal house units and toilet elements. These elements are implemented into the design of the seating elements, applied in certain ways to achieve the effect of a three dimensional word – *CAPTURE*.

ROCLA - SECURE SIGNAL HOUSE

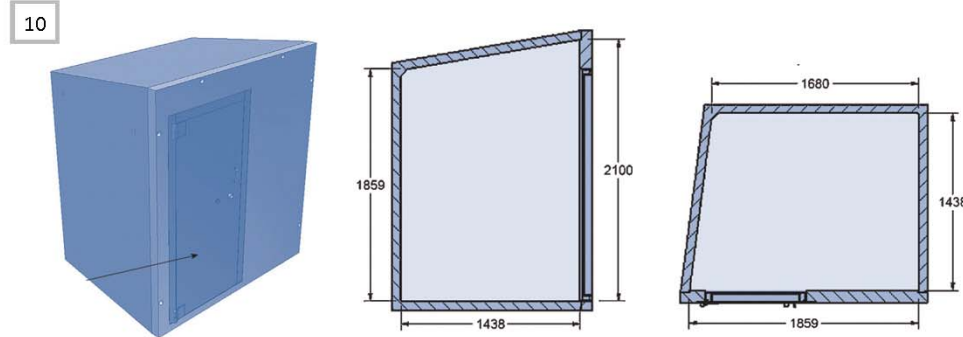
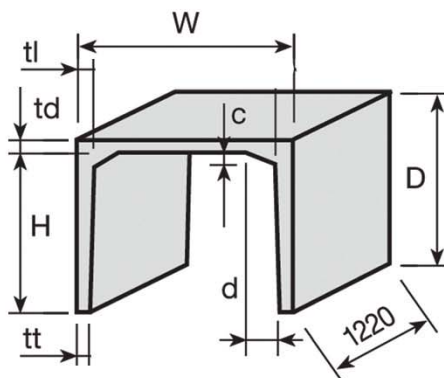


Fig 77.6 ROCLA element schedule

ROCLA - RECTANGULAR PORTALS



ROCLA ELEMENT SCHEDULE

	Nominal Size			Dimensions						Approximate Mass		
	S	x	H	W	D	td	tl	tt	c	d	per m	per unit
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/unit
1	450	x	300	600	390	90	75	65	37	75	255	311
2			450	600	540	90	75	60	37	75	303	370
3	600	x	300	760	390	90	80	70	50	100	305	373
4	750	x	750	920	840	90	85	60	50	100	507	619
5	1200	x	450	1440	570	120	120	105	50	100	720	878
6			1200	1440	1320	120	120	80	50	100	1078	1315
7	1500	x	900	1750	1025	125	125	95	75	225	1119	1365
8	1800	x				150	150	100	100	300	1858	2266

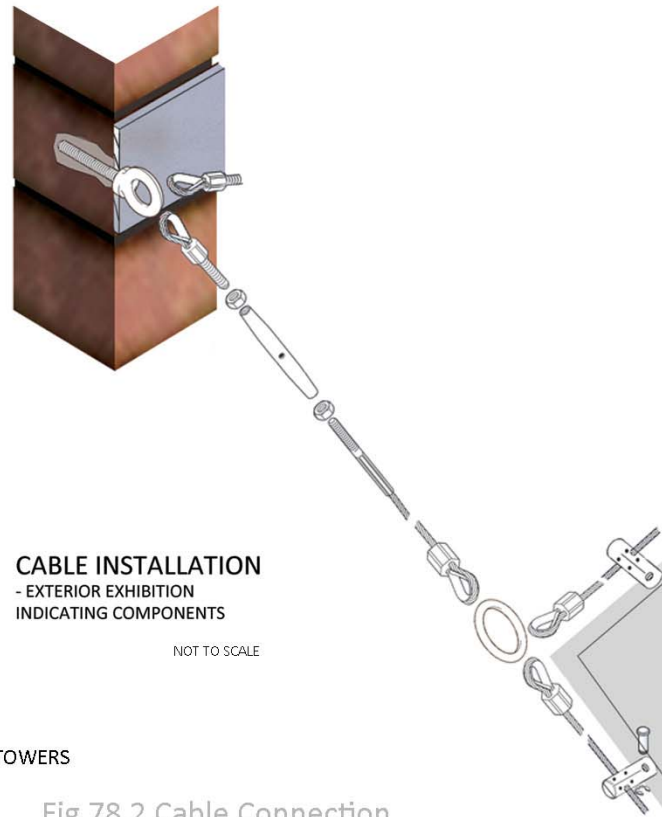
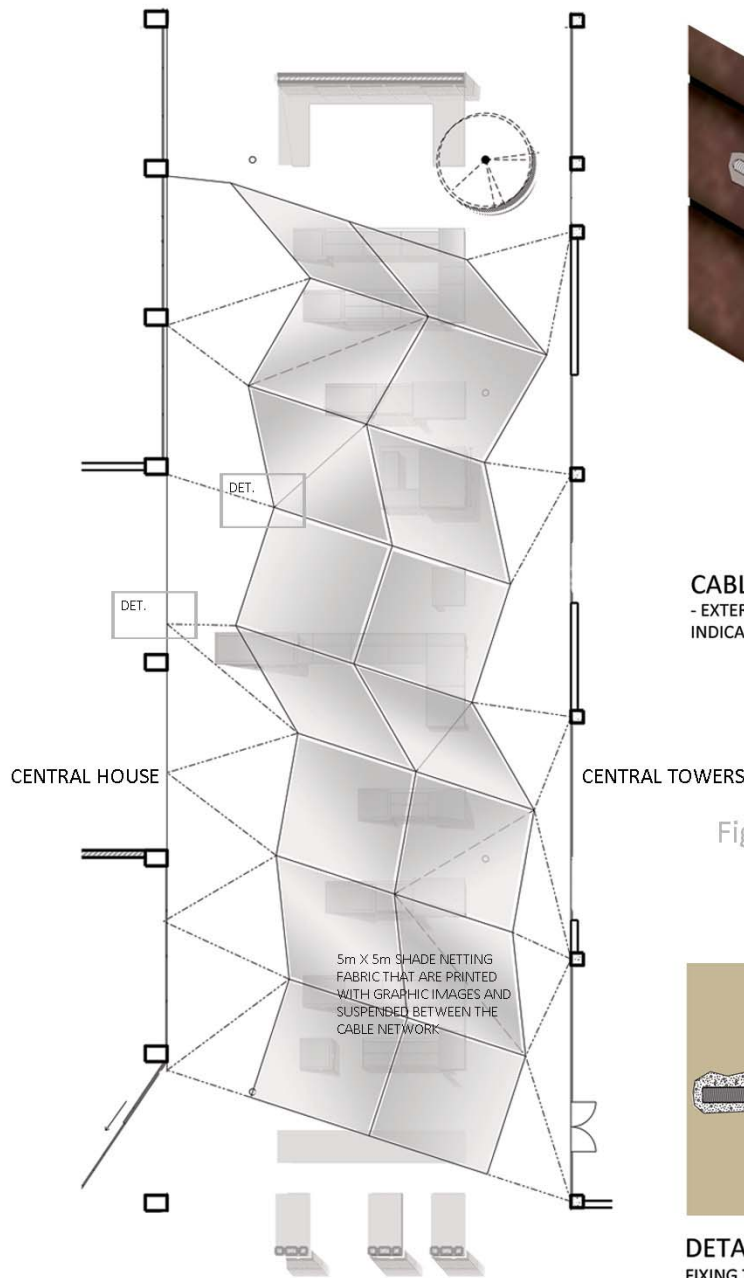


Fig 78.2 Cable Connection

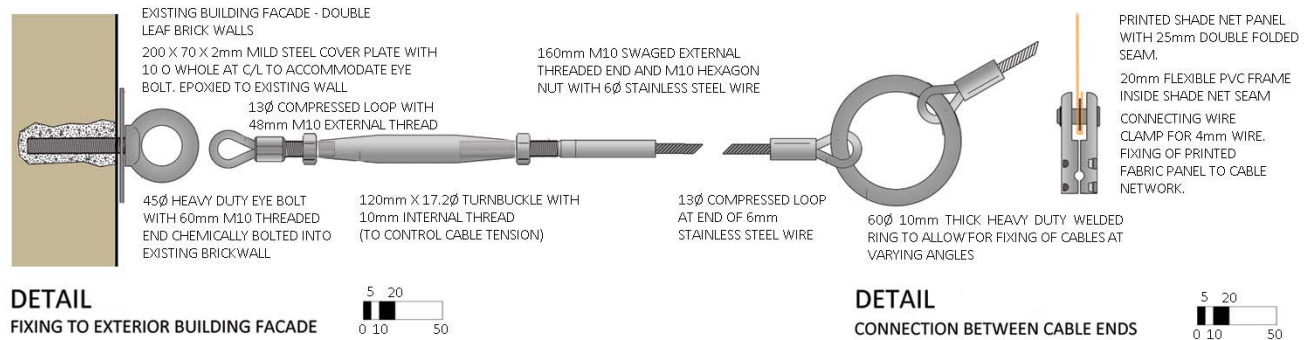


Fig 78.3 Cable Connection Detail

Fig 78.1 Cable

6. [Cable Network - Exterior Exhibition]

The overhead cable network stretches between Central House and Central Towers where they are connected to the building envelope. The cables connect to each other. The cables form rectangular or trapezium shapes which is then filled with printed shade net panels. The panels are provided with seams through which a flexible PVC frame is guided to ensure a smooth stretched surface.

Fig 78.4 Cable Detail



7. [Flooring Materials]

The flooring material used in the spaces is a Polyurethane based flooring system used for protection of concrete floors. The existing screed floors must be carefully examined and made good where needed before the installation of the flooring system takes place. The different spaces are designated by different colours and products that are determined by the intended use of the spaces.

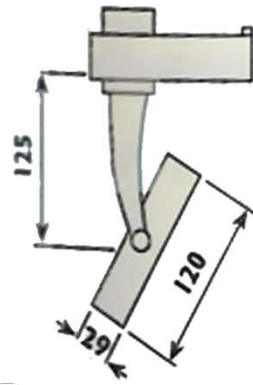
The majority of the floor surface which include the artists studio the student research space as well as some of the exterior circulation area will be covered with a seamless, self- smoothing heavy duty polyurethane based flooring system. A product from BASF The Chemical Company will be utilized. According to the BASF flooring submittal (2006) the Mastertop 1324 has a matt, durable abrasion resistant, non slip surface finish, designed for use in areas with high levels of traffic such as exhibition halls and service corridors. The colour that will be used is Dusty Grey from the companies colour chart.



The section of floor that is located between the artists studio and the student research space requires flooring material which will resist chemicals. The area will be covered with an epoxy resin coating intended for concrete floors and walls. A product from BASF The Chemical Company will be utilized. According to the BASF flooring submittal (2006) the Mastertop 1120T offers resistance to a wide range of chemicals and aggressive solutions found in general industry and may be applied in Laboratories and engineering workshops. The colour specification is Tomato Red from the companies colour chart.

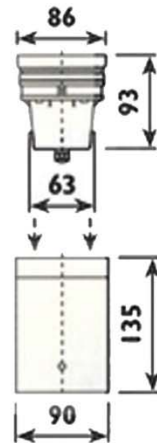
The floor surface in the interior exhibition space will be covered in a seamless, decorative self-smoothing polyurethane floor system intended for commercial application. A product from BASF The Chemical Company will be utilized. According to the BASF flooring submittal (2006) the Mastertop 1326ArtFloor is durable, flexible and acoustically absorbent with uses ranging from galleries, canteens and reception areas. The colour specification is Light Grey from the companies colour chart.

Fig 80 Flooring products from BASF The Chemical Company (BASF Flooring Submittal, 2006).



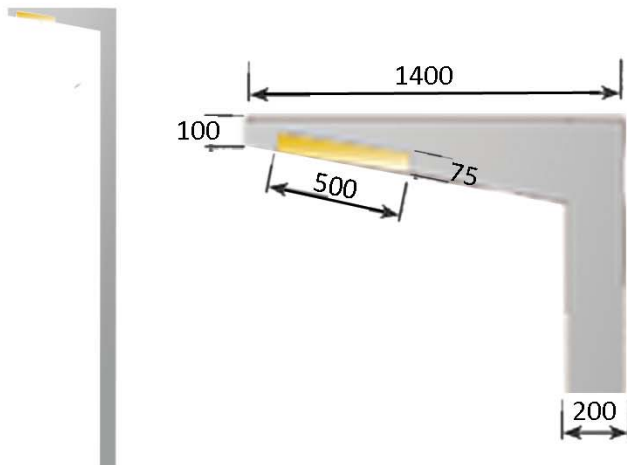
12V Spotlight with Halogen lamp
3 Wire Mounting Track
Satin Chrome Finish
Supplier: Radiant Lighting

Fig 81 Lighting – Spotlight
(Radiant Lighting Product catalogue, 2006)



34V Outdoor Ground Light with
Luxeon LED source
Frosted Body
Supplier: Radiant Lighting

Fig 82 Lighting – Outdoor downlight
(Radiant Lighting Product catalogue, 2006)



240V Compact Fluorescent
Extruded anodised aluminium 6m
high mast and polycarbonate
cover.
Mast embedded in substrate

Fig 83 Lighting – Street lighting

8. [Lighting]

The lighting system implemented in the interior spaces are mounted on track systems to ensure flexibility within the spaces. The lighting used in the artists studio, the student research space and the interior exhibition space are spotlights which house halogen lamps, generating quality lighting and colour rendering.

Compact fluorescent lamps will be used in the street lighting .

The concrete elements will house outdoor groundlights with LED lights fitted to them.



APPROACH FROM PRETORIUS STR.



VIEW INTO ARTIST STUDIO FROM PRETORIUS STR.



ENTRANCE TO CENTRAL STR.



PLAN VIEW OF THE SPACES



OVERHEAD CABLE AND GRAPHIC PANEL NETWORK



ARTIST ACTIVITY IN THE ARTIST STUDIO



VIEWING OF ARTWORK WITHIN INTERIOR EXHIBITION

APPROACH FROM CHURCH STR.



VIEW OF 3D SEATING ELEMENTS



PEOPLE UTILIZING THE SPACE WITH CENTRAL STR.

