

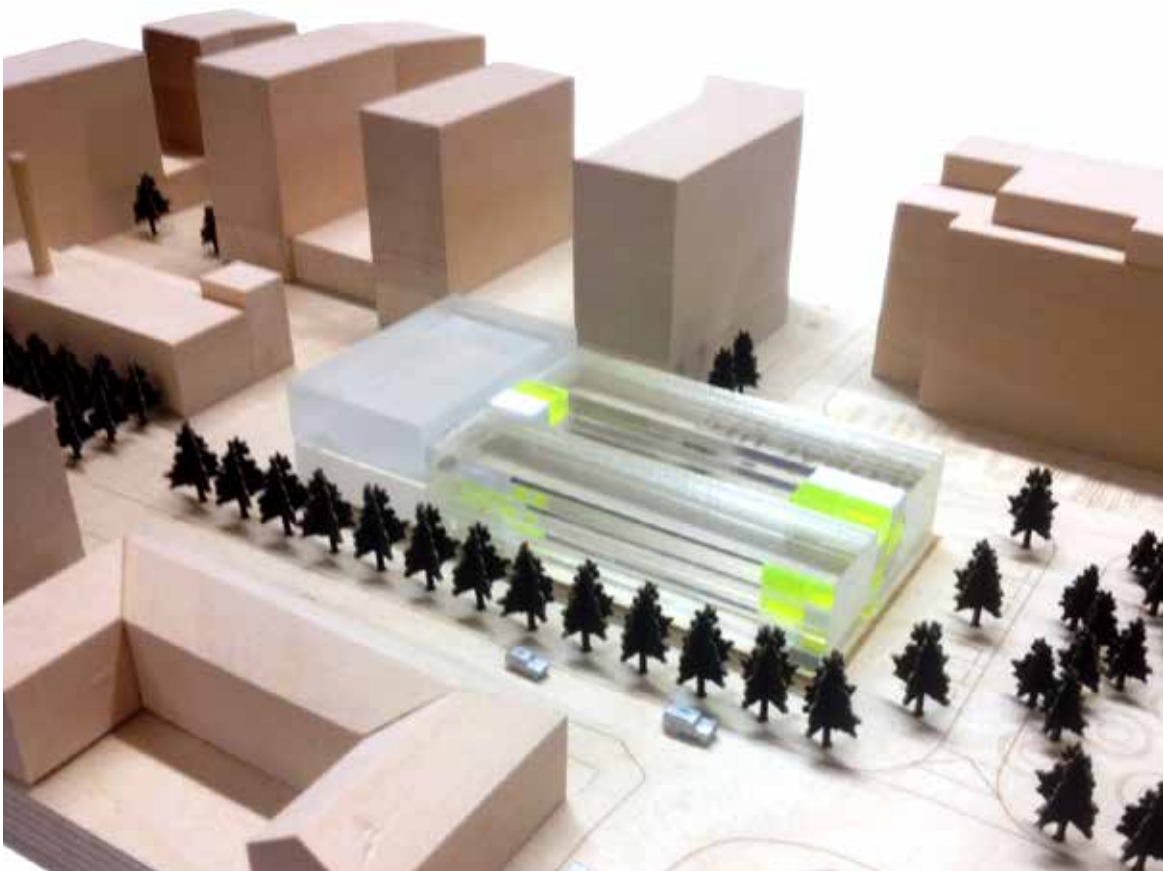
03 EXTERNAL MATERIALS



All materials as part of this project will be of the highest quality possible within the project limitations. The final selection of materials will be finalised in consultation with the Global Academy University Technical College (UTC), EFA, Cathedral and the Local Planning Authority. Materials conform to the material pallet of the masterplan.

Robust and appropriate materials will be used throughout the UTC paying particular attention at ground level to ensure a high level of endurance. The two long façades are, for the main part, covered with an anodised aluminium mesh with large slots cut out to allow natural light to penetrate into rooms. Behind the mesh will be either self coloured steel in the form of the modular facade, or SIPs panels for the traditional build elements. The colour of the steel and anodised aluminium is to be developed with the school, planners and Global.

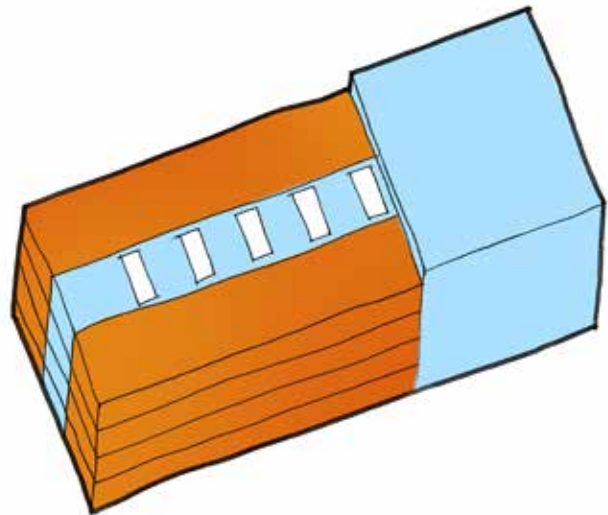
The mesh cladding will unitise the finish of the building between the modular and traditional build elements. A lighting designer has created a scheme that will help the building effervesce from the surroundings yet also blend in.



MODEL OF BUILDING AND SITE



- Materials
- 1 Polycarbonate
 - 2 Mesh
 - 3 Graphic Art Wall
 - 4 Structural Insulated Panels
 - 5 Modular



TRADITIONAL
MODULAR

MASSING DIAGRAM

RENDERS ILLUSTRATING FACADE TREATMENT (ABOVE BOTH)

03.1 POLYCARBONATE

1

The ground floor of the building is clad in translucent and opaque polycarbonate allowing light to penetrate into the building while having a sleek texture that helps ground the building. Potential backlighting of the polycarbonate from the top of the panels would create a soft glow to the base of the elevation.

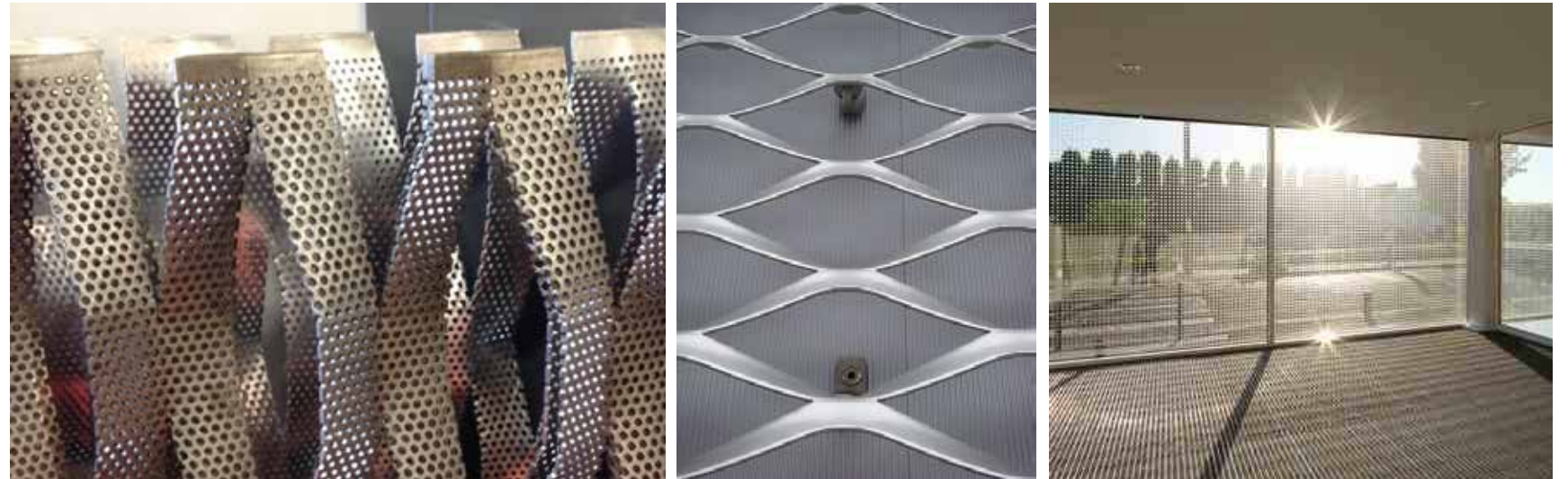
Material to be of sufficient thickness and strength to withstand vandalism attempts.



03.2 MESH

2

The exterior of the building has an overlay of anodised aluminium mesh that will allow indirect light to pass into the building while also acting as solar shading against solar gain and thus helping to keep the building cool in the summer. The mesh will step out over the main entrance to help highlight the area as well as aid visual difference along the facade of the building. The density of the mesh will be decided through consultation with the UTC, EFA, and the building sponsors, with scope for it to fluctuate in density across the facade to help create interest along the long façades.



03.3 GRAPHIC ART WALL

3

The upper floors of the west facade - traditionally constructed is to have applied graphic. The aspiration for the graphic is that it will express the ethos and aspirations of both the school and its sponsors whilst also being reminiscent of the history of the site. An artist and design will be selected through discussions with both the UTC and sponsors. Design to be confirmed, refer to 05.2 Branding Signage Key and 05.3 Artwork.



03.4 STRUCTURAL INSULATED PANELS

4

The traditional build element of the building will be clad using structural wall panels and structural framing system (SFS) with 80mm Kingspan Longspan structural wall panel composite cladding or Insulated Render System mounted on external steel framing system (150mm Metsec) infill wall. These panels will be colour coded to match in with the colour scheme selected for use on the face of the modular units.



03.5 MODULAR

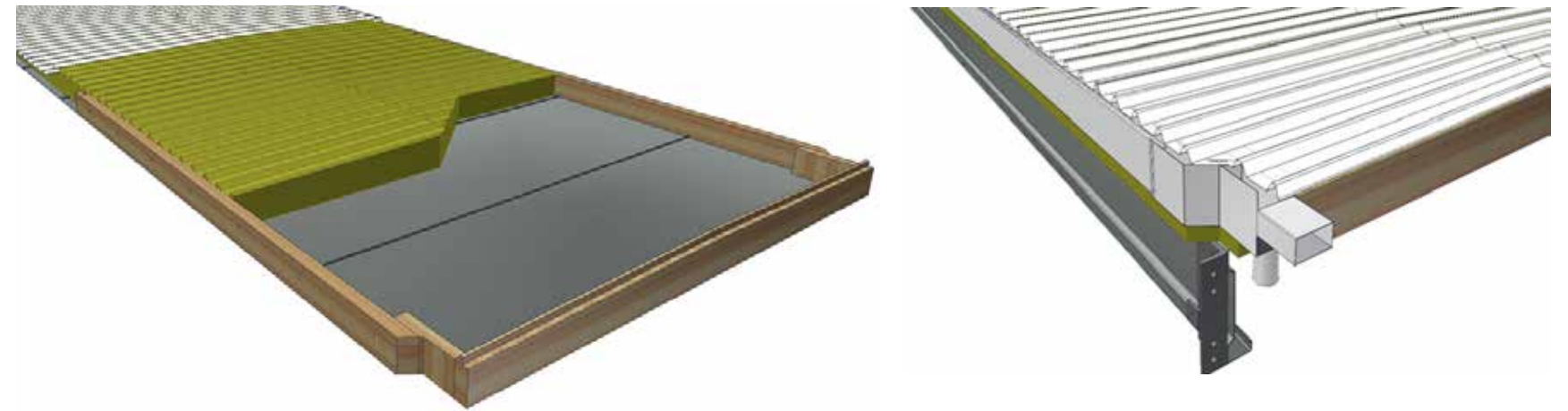
5

The exterior of the modular units is to be clad with structural framing system (SFS) to match with the colour scheme of the structural wall panels of the traditional build elements. These sit behind the mesh on upper floors and behind the polycarbonate on lower level.



03.6 ROOF

Flat metal roof (plastisol covered metal) to be used for the modular section of the building. A flat concrete deck roof with 150mm insulation and a single ply membrane will cover the traditional build elements of the building. The roof design incorporates both roof lights as well as the possibility of some photovoltaic panels.



04 EXTERNAL LIGHTING

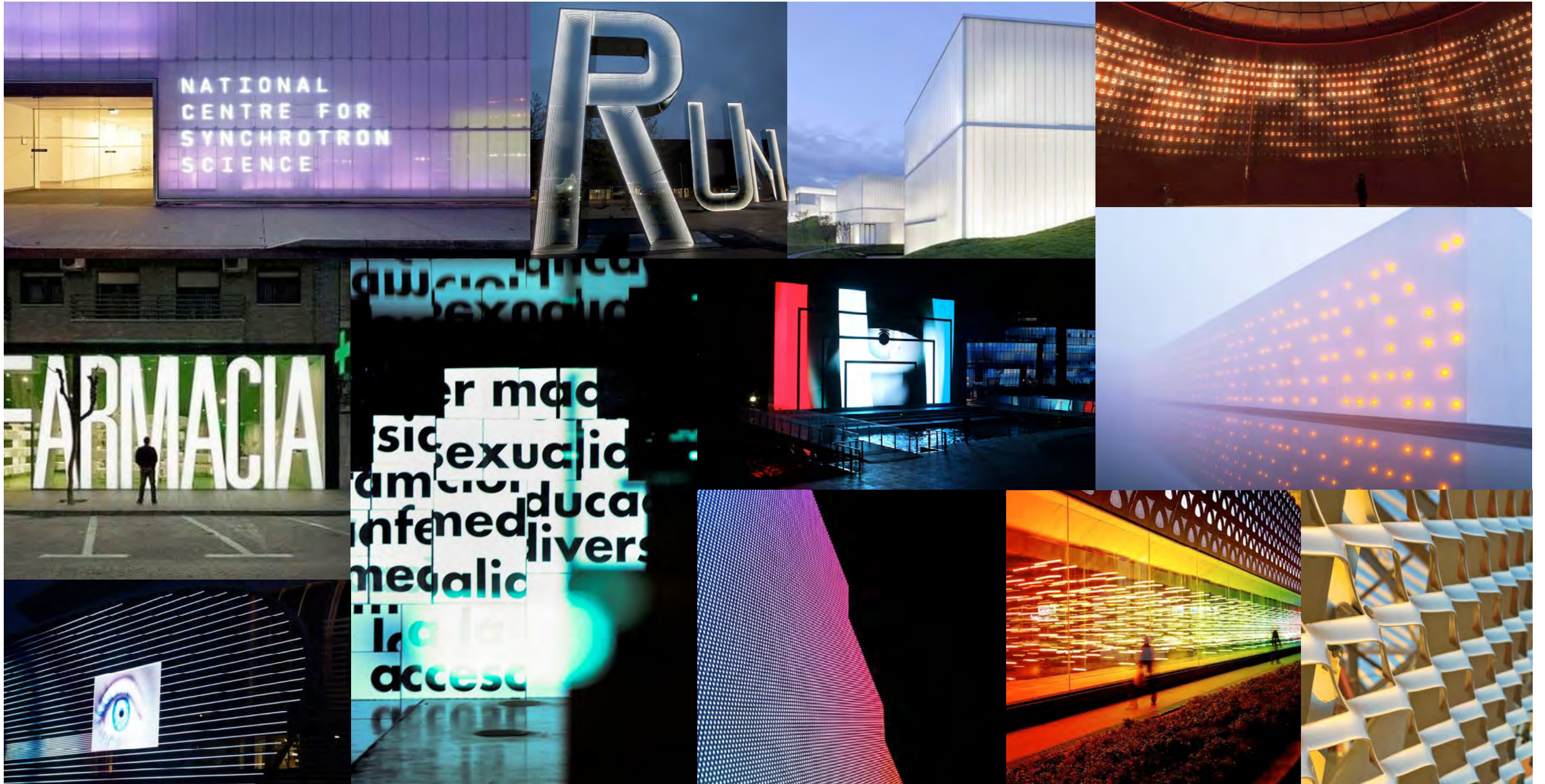


Paul Nulty Lighting Designers have created a lighting solution that aspires to make the building in tune with its surroundings while highlighting the beauty of its façades. They have used energy efficient lighting to accent the buildings features and change the moods of spaces over time.

The external building and landscaping lighting options, detailed within the following section of this report, are currently being considered in conjunction with the client branding opportunities by the client and project team to determine the most appropriate solutions that complement the masterplan ethos and create the best value within the enhanced lighting budget.

04.1 LIGHTING MOOD BOARD

Final specification, design and confirmation of the below illustrated design features are yet to be agreed.

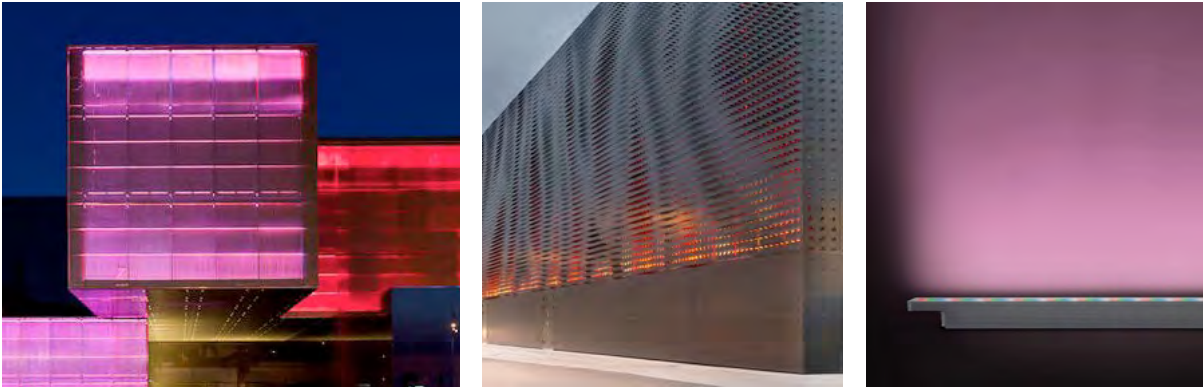


04.2 NORTH AND SOUTH FACADE LIGHTING STRATEGY

Final specification, design and confirmation of the below illustrated design features are yet to be agreed.



1 LIGHT GRAZE FORM BOTH TOP AND BOTTOM, VARYING IN WIDTH AND INTENSITY



2 GRAZE LIGHT ORIGINATING FROM THE TOP BEHIND POLY-CARBONATE FACADE, CREATING UNEVEN LIGHT BOX EFFECT



3 LOW-RES MEDIA INSTALLATION FOR LOGO AND BRANDING POSSIBILITIES



4 SOFT GLOW FROM THE INTERIOR WINDOWS SEEN THROUGH THE MESH



04.3 WEST FACADE LIGHTING STRATEGY

Final specification, design and confirmation of the below illustrated design features are yet to be agreed.



1 GRAZE LIGHT ORIGINATING FROM THE TOP BEHIND POLY-CARBONATE FACADE, CREATING UNEVEN LIGHT BOX EFFECT



2 NARROW LINE OF LIGHT AROUND WINDOW FRAME



3 LINE OF LIGHT SET IN THE ARCHITECTURE, THROWING GLOW ONTO THE INSIDE EDGES



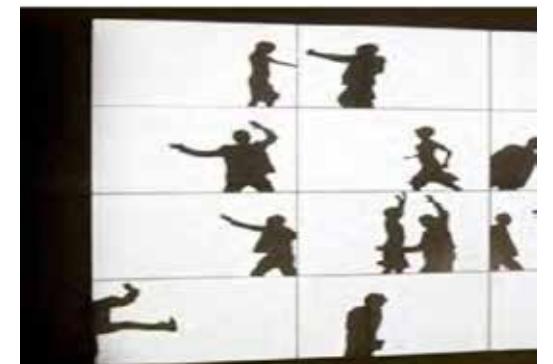
4 COLOURED GRAZE (RGBW) AROUND WINDOW FRAME AND ETCH OVER GLASS



5 WIDE BAND OF LIGHT INSET INTO SPACE



6 WALL MOUNTED SCREEN



04.4 EAST FACADE LIGHTING STRATEGY

Final specification, design and confirmation of the below illustrated design features are yet to be agreed.



- 1 GRAZE LIGHT ORIGINATING FROM THE TOP BEHIND ALL FOUR LEVELS OF POLYCARBONATE FACADE, CREATING UNEVEN LIGHT BOX EFFECT - POSSIBILITY OF INTEGRATING MEDIA CONTENT OR HAVE INDIVIDUAL CONTROLLED UNITS TO CREATE DIFFERENT EFFECTS.

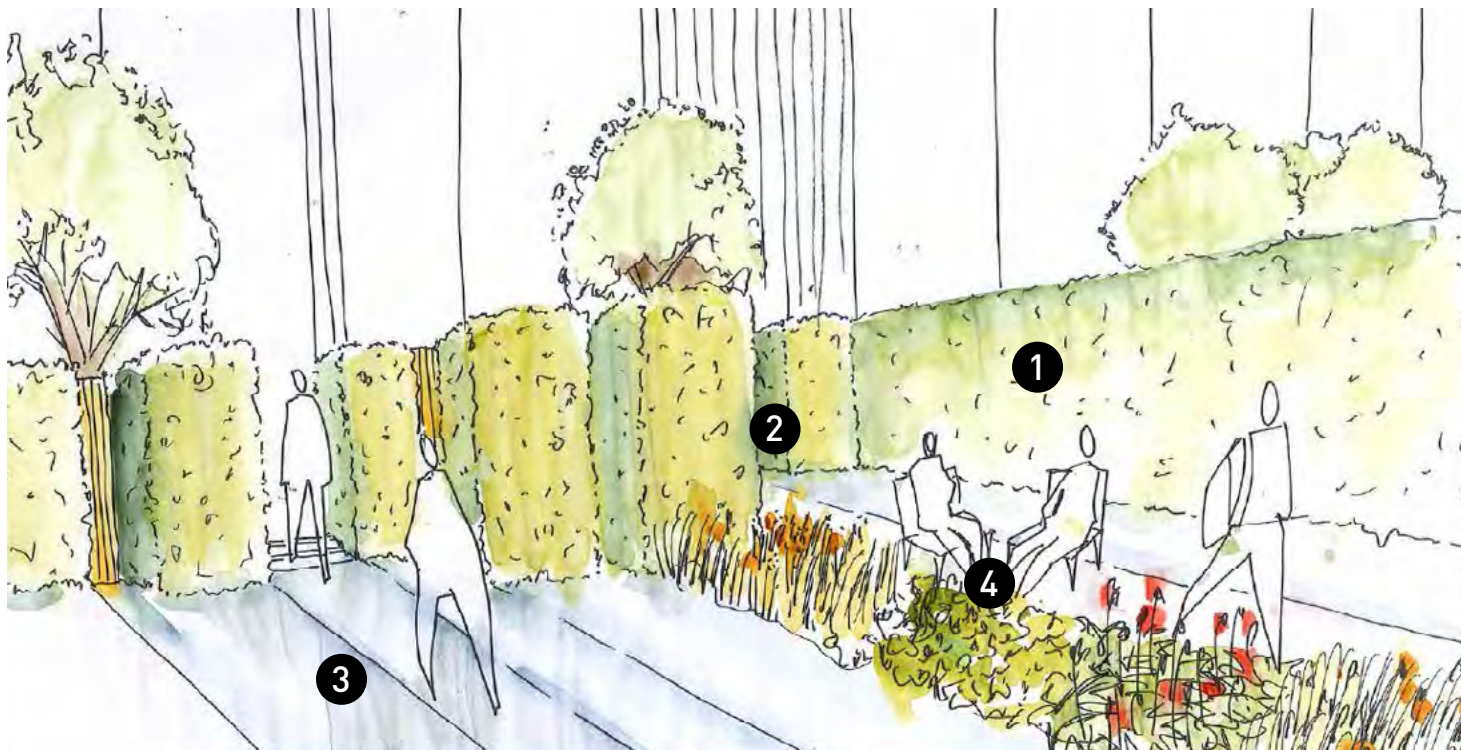


- 2 R.G.B. GRAFFITI WALL - SUPER-IMPOSED IMAGES ONTO THE BACK OF THE WALL CREATING INTERESTING COLOURED MURAL DURING THE DAY. DIFFERENT ELEMENTS CHANGE UNDER DIFFERENT LIGHTING CONDITIONS. GOOD OPPORTUNITY FOR 'HIDDEN' BRANDING i.e. ONLY SEEN UNDER ONE COLOURED LIGHT.

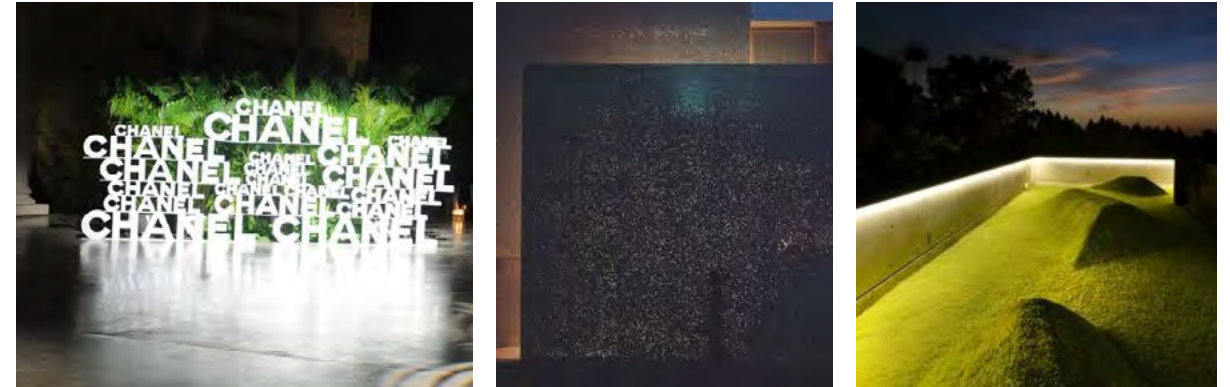


04.5 EXTERNAL DINING/ COURTYARD LIGHTING STRATEGY

Final specification, design and confirmation of the below illustrated design features are yet to be agreed.



- 1 DIFFERENT OPPORTUNITIES OF LIGHT INTEGRATION INTO THE ARCHITECTURAL DIVIDERS .



- 2 HUMAN-SCALE LIGHTING ELEMENT INTEGRATED WITHIN THE PARAMETERS OF THE SPACE - INTO THE BASE ARCHITECTURE AND LAYOUT, OR FREE-STANDING ELEMENTS.



- 3 LINEAR LIGHTING ELEMENTS INTEGRATED INTO THE GROUND - IN-LINE WITH FLOOR PATTERN



- 4 LIGHTING ELEMENTS INTEGRATED INTO THE FURNITURE

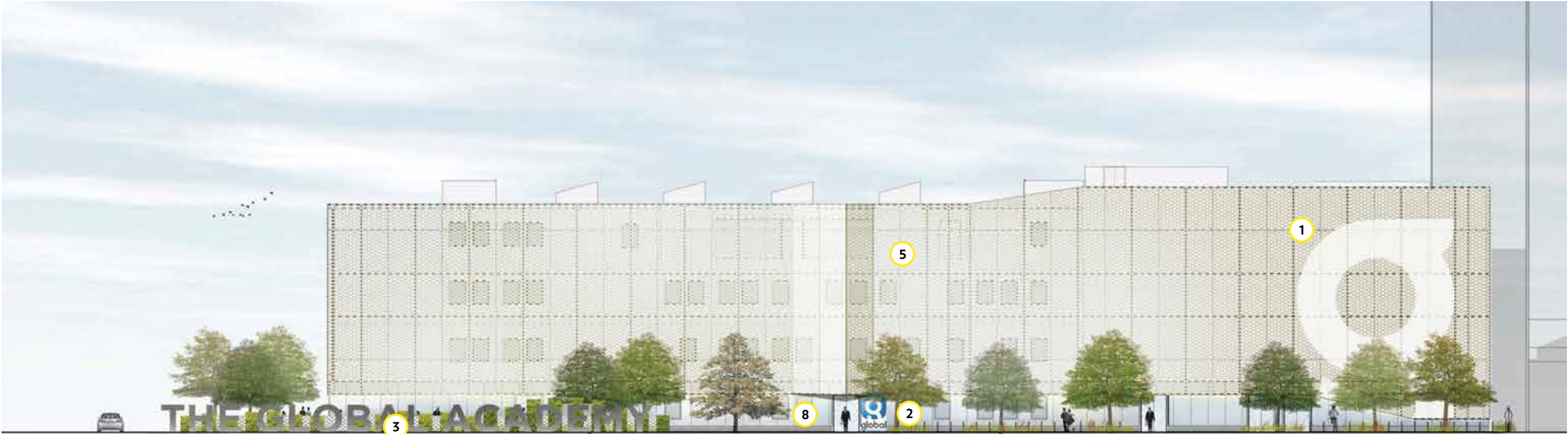


05 SPONSOR BRANDING OPPORTUNITIES

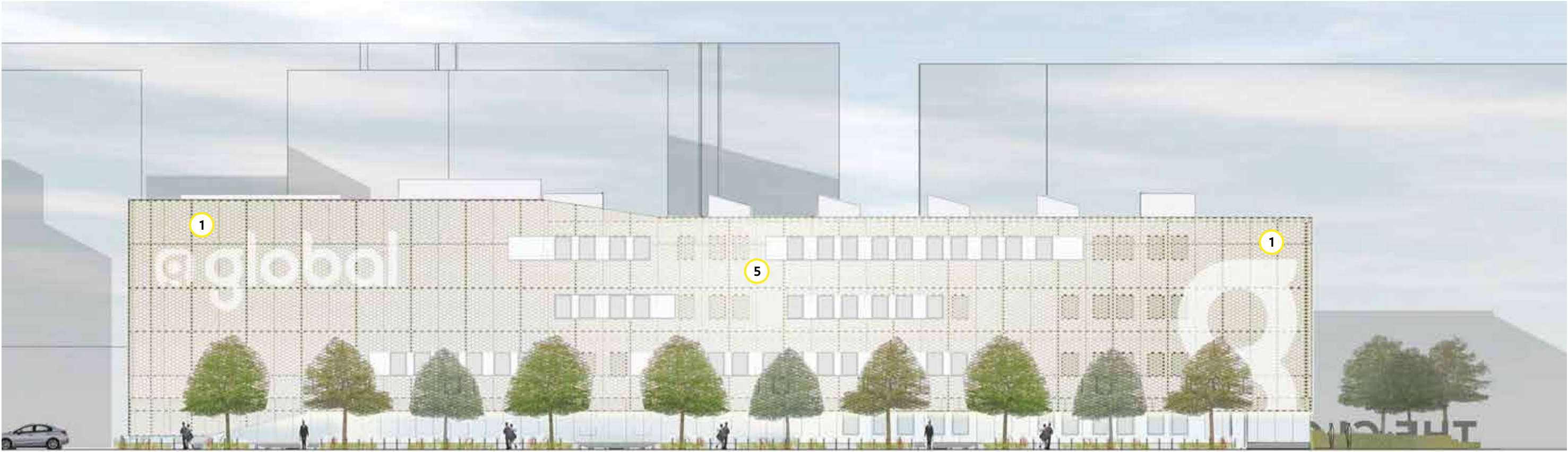


Global Academy University Technical College (UTC) is sponsored by Global Group and its university partner, the University of the Arts London.

The Global Group radio brand will be promoted through the interior and exterior architecture. This section outlines the branding opportunities within the design.



SOUTH ELEVATION



NORTH ELEVATION

BRANDING / SIGNAGE KEY**WEST ELEVATION****EAST ELEVATION****1****LARGE BRAND GRAPHIC**

Single colour/material. Integrated with / mounted behind mesh.
Low level illumination - enough to express shape in low light levels.
Materials to be of sufficient thickness and strength to withstand vandalism attempts.

2**SMALL BRAND GRAPHIC / SIGNAGE**

Range of materials / colours in signage. Bright illumination – to boldly identify detail on sign.

3**LETTER SIGN / FENCING**

Human scale text up-lighting to express letter forms.
Final specification, design and confirmation of this design feature is yet to be agreed.

4**VIDEO SCREENS**

Displaying student information / news etc.

5**BRAND COLOUR LIGHTING WASH**

(colour tbc) – controllable illumination to mesh façades.

6**BRAND COLOUR 'ON/OFF' LIGHTING**

(colour tbc) – bright illumination.

7**ARTWORK / PROFESSIONAL ILLUSTRATION WALL**

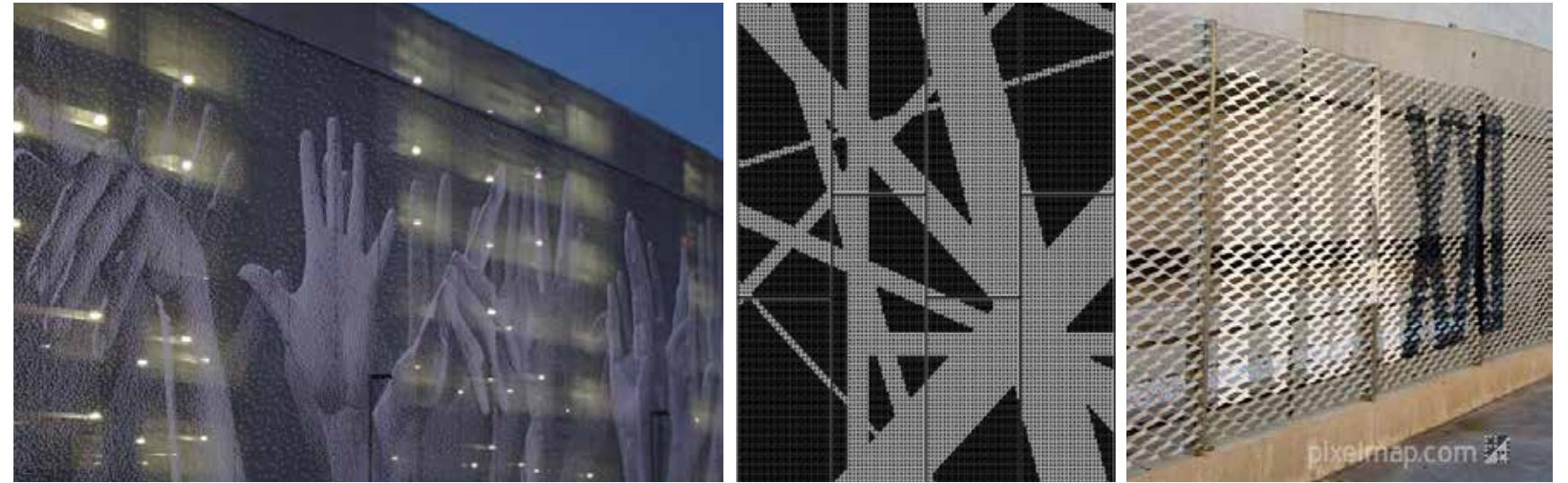
Top-level wash lighting. Potential branding opportunity. Low level illumination - enough to show artwork in low light levels.

8**SIGNAGE TOTEM**

Directional signage Global UTC information.
Final specification, design and confirmation of this design feature is yet to be agreed.

LARGE BRAND GRAPHIC

1



SMALL BRAND GRAPHIC

2



LETTER SIGN FENCING

3



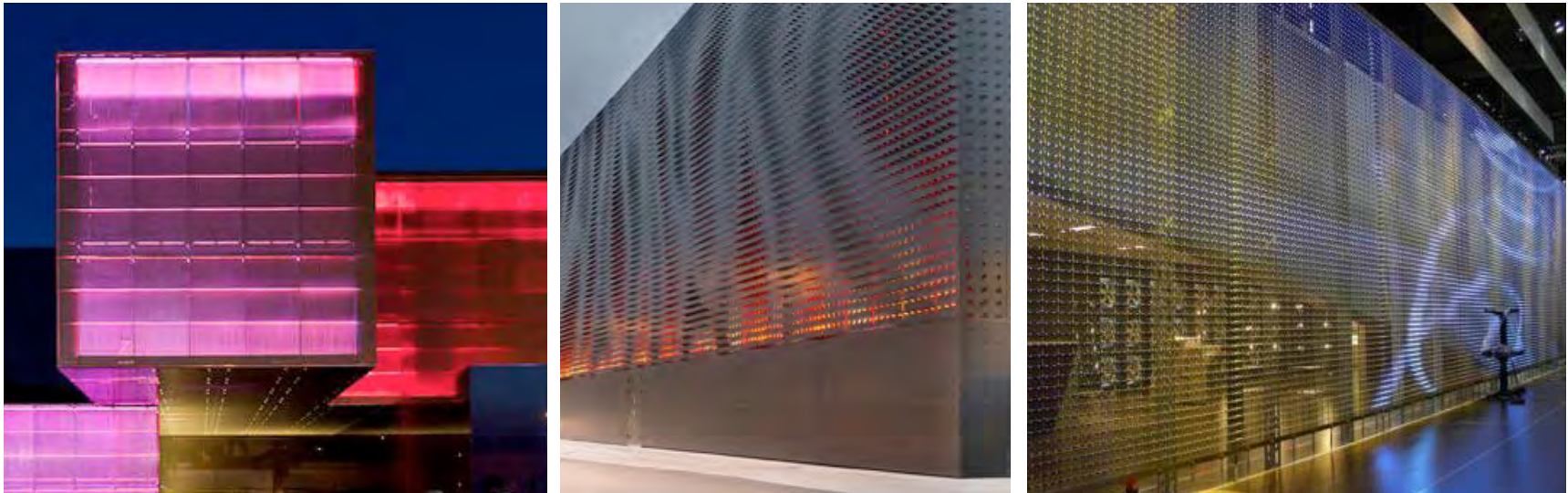
VIDEO SCREEN

4



BRAND COLOUR LIGHTING WASH

5



BRAND COLOUR LIGHTING 'ON / OFF'

6



ARTWORK

1 7



SIGNAGE TOTEM

8

