

Description of Building's Architecture & Response to Context



The design was developed by looking at the constraints and opportunities on this difficult site to maximise the amount of floor space for the facilities, by working with the challenging topography to reach a suitable plan arrangement.

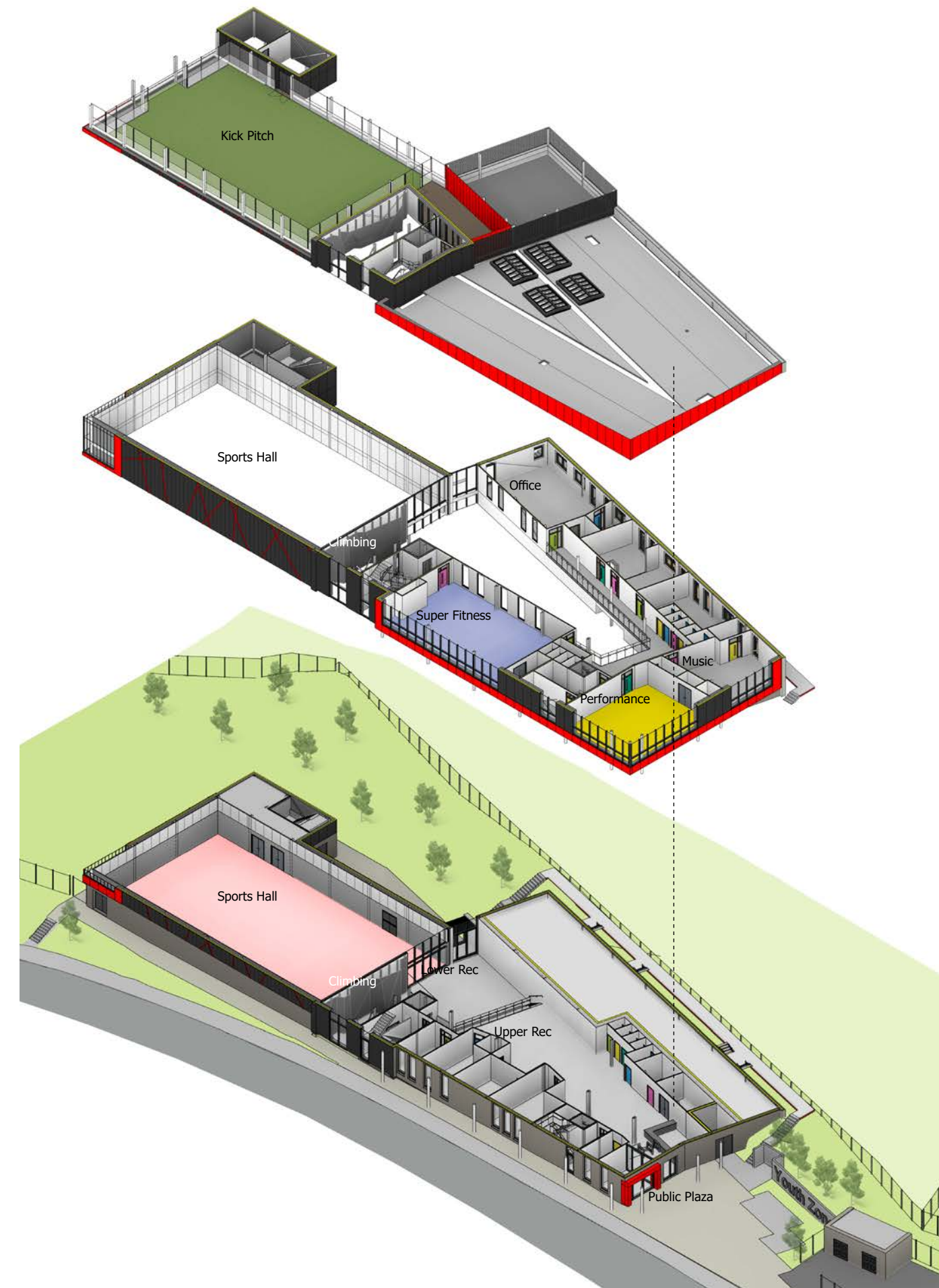
Consideration of the massing and positioning of facilities has been tested to respect the adjacent gateway location and residential amenity to the north and potential development to the east.

A key design driver has been creating a distinctive landmark building with an active frontage onto the public facing elevation that acts as a gateway into the town centre.

A projecting first floor along Schwäbisch Gmünd Way that overhangs the ground floor, frames areas of floor to ceiling glazing offering distance views of the internal activity and provides shelter at ground floor to the entrance.

A bold feature colour of red is used to give the facade a contemporary and exciting aesthetic which appeals to children of all ages. The red feature colour is set against a darker palette of materials to allow the feature colour to stand out. This feature colour is used to frame windows and other architectural features to add a vibrancy to the elevations.

Barnsley Youth Zone will enhance the area by providing a destination for the young people of Barnsley giving them somewhere to go, something to do, with someone to talk to.



Testing Views

Prepare a conceptual view as a gateway. Sketch this out as it's an important view. These images should show views both during daylight hours and at night.

Test and investigate in 3d what this building looks like from its approach and from residential areas.

Provide a clearer, more meaningful architectural response. This needs to be thoroughly tested in its context in 3d sketches and renders so the building's contribution to the town can be fully understood and assessed by the architects.



A Landmark Building

Make the building more distinctive to help it become more of a landmark building. Avoid taking historical design cues. The building needs to be fun, to be a gateway, with bright architecture, together with depth & modelling and active frontages. It needs a stronger, more inviting personality.

Materials proposed are to be high quality, robust finishes that will ensure longevity with minimum levels of maintenance. The building is designed to have a masonry base at low level on public and activity fronting areas, with slots of glazing giving glimpses of activity within.

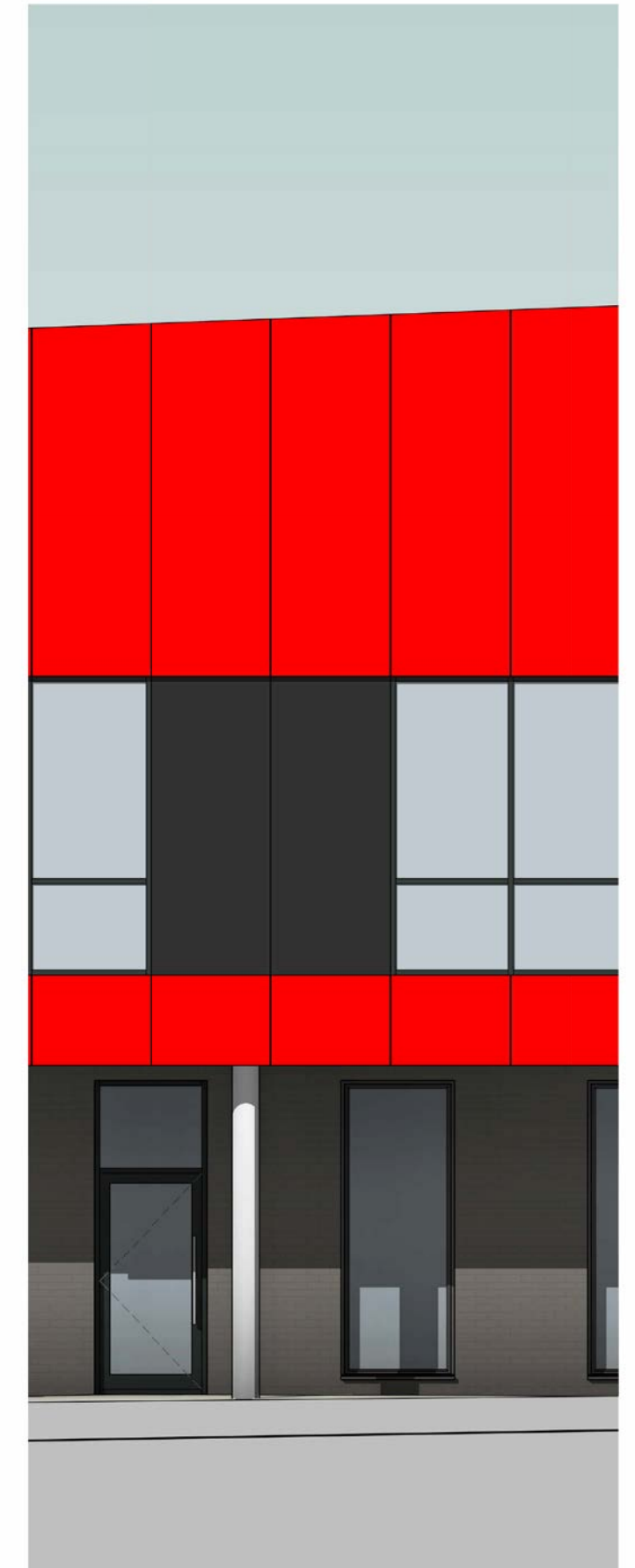
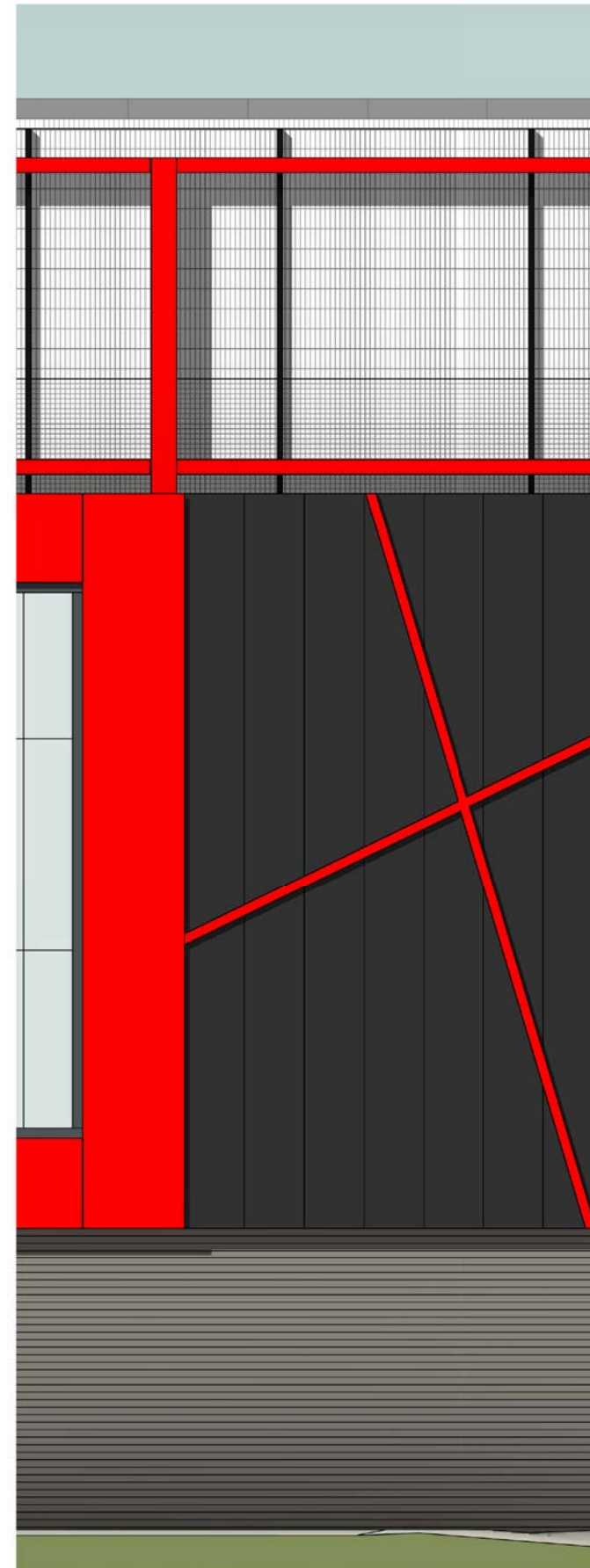
The projecting upper storey will be clad in Rockpanel, a fire resistance material, in a feature red colour with large glazed areas to activity rooms. This cladding has a raising parapet towards the corner opposite the station acting as a beacon towards the entrance.

The corner to the north will also use this feature colour to frame a backlit polycarbonate panel with the remainder of the sports hall covered in a dark cladding with expressive illuminated feature bands.

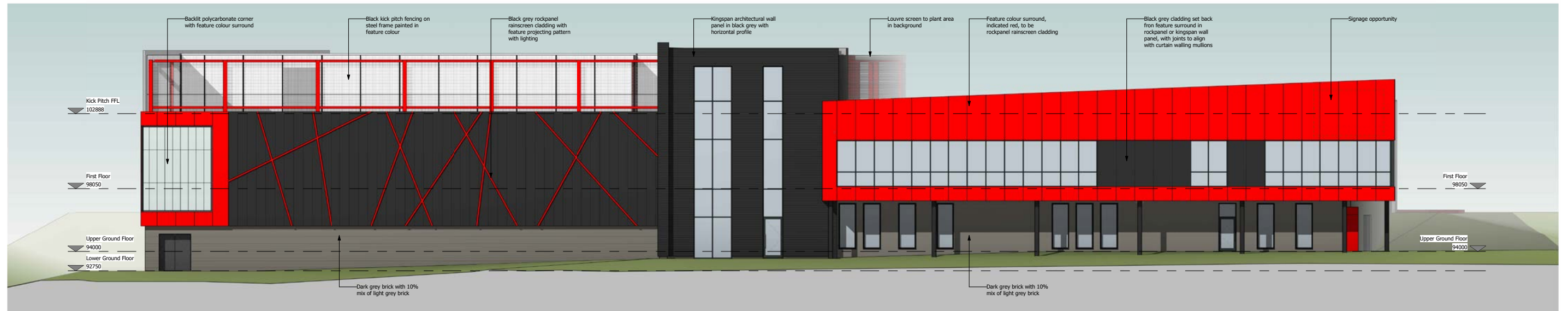
The mass of the sport hall is treated differently to the other elevations due to it being one large volume where glazing is not suitable due to glare when playing sports and damage from the activities. The materiality is considered to help break up the massing and also provide a sense of fun and energy.

We have tested various design options to break up the massing and have proposed a dark cladding with illuminated feature bands. Other options shown on the following page are a 'barcode' of differing panel colours interspersed with lighting strips. A further option using the feature red colour with a light grey panel below with reducing panel widths is a refinement of the feasibility elevations.

All the options have a kick pitch on the roof level which when in use will provide a 'halo' effect of light and activity above the volume of the sports hall below.



Elevation Options



Clearer Architectural Response

Provide a more through description of the building's architecture and context. Look at how the building needs to respond to the architecture of the neighbourhood.

The smaller scale elevation to the eastern boundary faces towards the existing residential areas and the future development site.

This elevation has been crafted to respond to this architecture by introducing a rhythm to the fenestration and detailing that echoes the domestic scale of terraced housing nearby.

It is proposed to split this elevation into bays with a recessed vertical band with each bay using a mix of light and dark grey bricks in varying amounts to echo the nearby residential terrace houses.



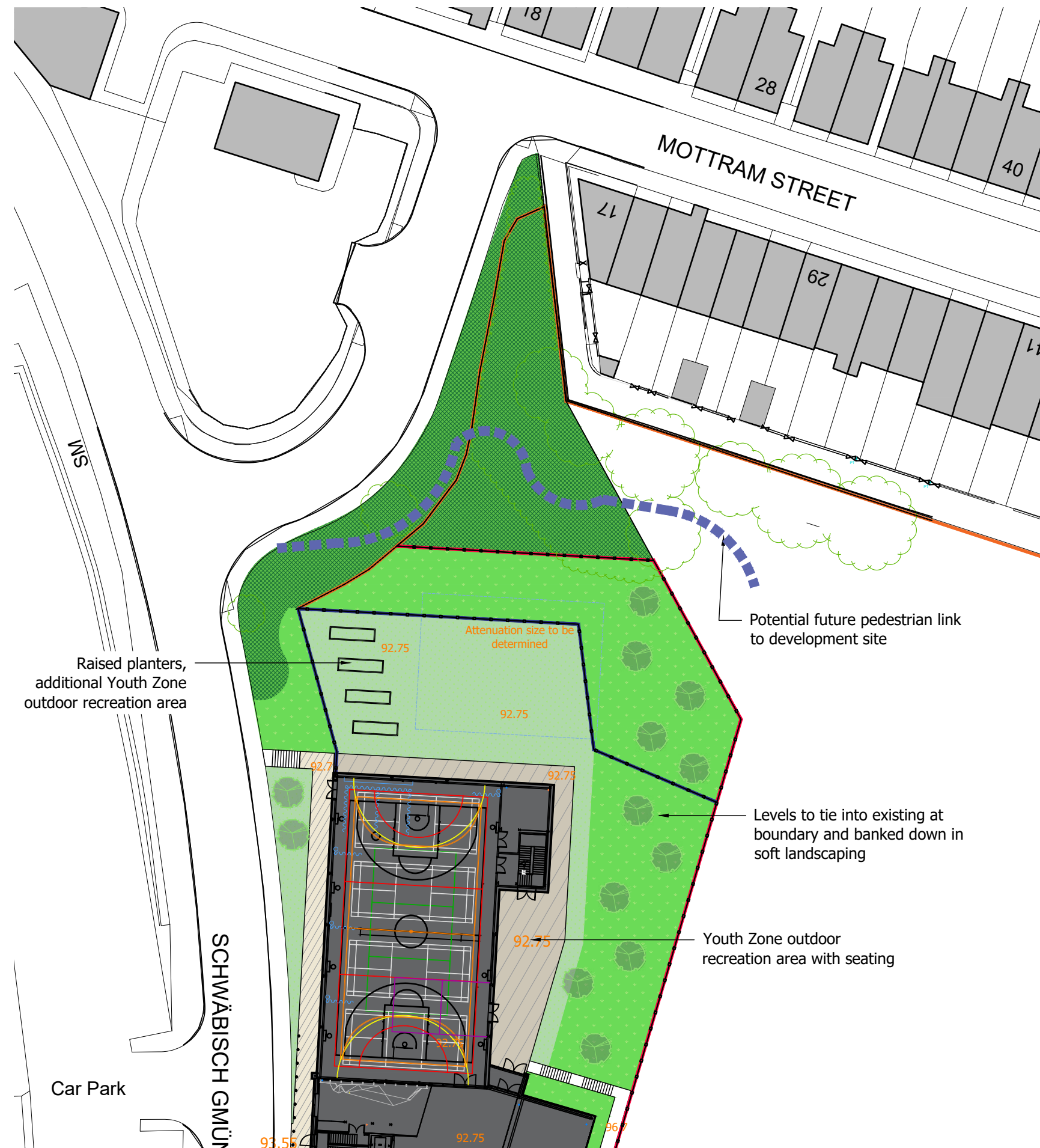
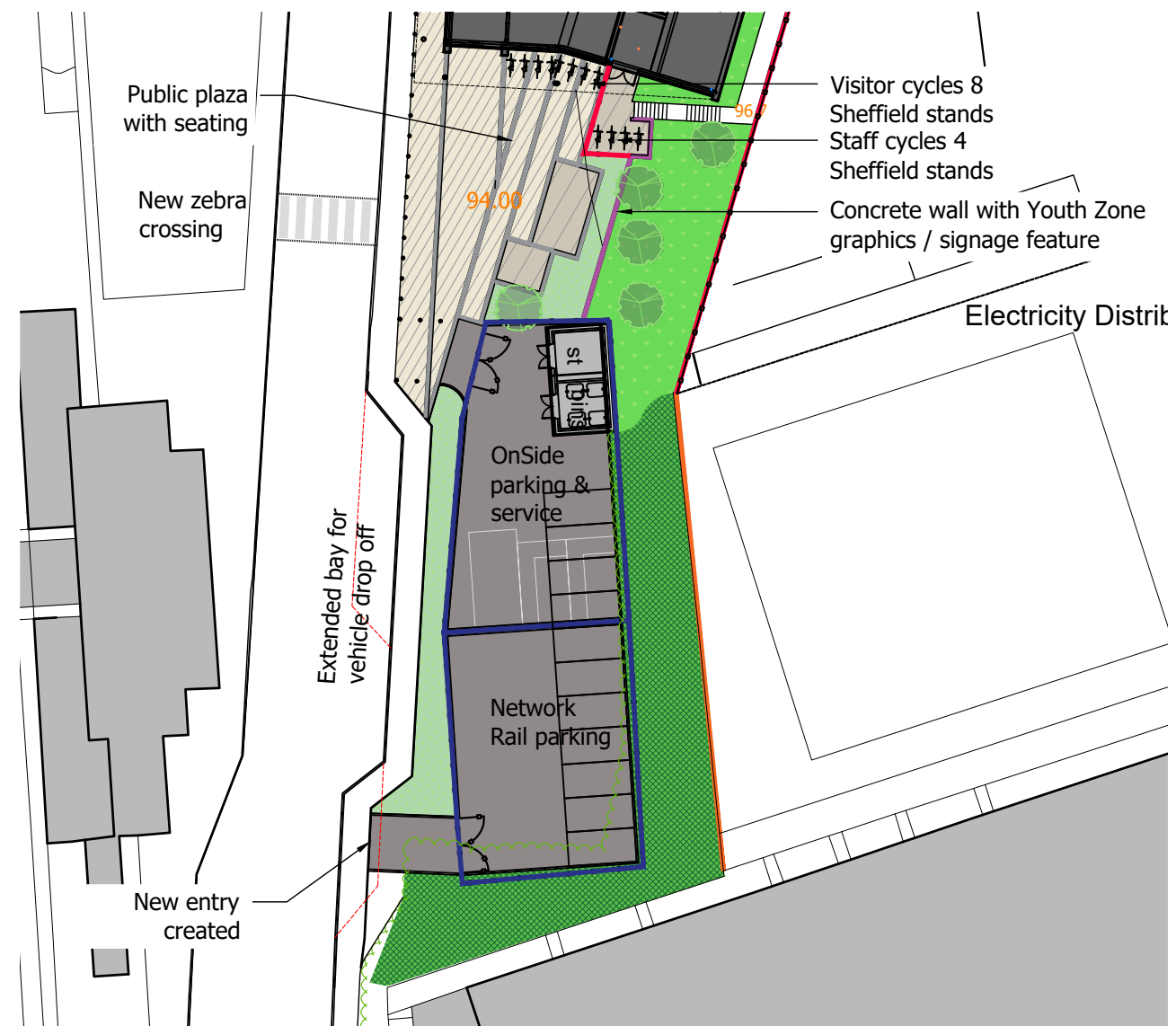
External Space

Opposite the station entrance is the compound used by network rail. We have sought to reduce the area of land they use and reorganise this space to provide the parking for network rail and the service area for the Youth Zone.

The existing lay by is to be relocated further toward the Youth Zone and extended to provide a drop off area and a new zebra crossing is proposed to provide safe access for pedestrians.

A new public plaza is created with surface treatments to leading to the entrance of the Youth Zone, imagined as a space to direct users to the building and offering moments to pause with seating along with cycle storage. This space is intended to be framed with some soft landscaping and a wall offering an opportunity for artwork or branding.

Around the youth zone there are challenging level changes between the site, the proposed floor levels, the surrounding footpath network, and adjacent site. Level changes around the youth zone will be graded and provided with soft landscaping for ecological enhancement. Some rainwater attenuation is located on the northern end of the sports hall. The extents of this area are to be finalised but there is potential for some further outdoor space for use by the Youth Zone for planters and outdoor activities and possible linkages to the residential streets and adjacent development site.



Second Design Review Recommendations

The discussion with the design review panel was a positive one and it was commented that

"It feels like you have certainly listened to what the panel said at the previous review and have endeavoured to take the panel's comments on board. The building has much improved. It's quite an exciting building, which is appropriate for a gateway building."

The panel expressed a concern that there was not a masterplan for the whole of the wider area. Paul Clifford, (the Head of Economic Development, BMBC), responded that the council is looking at the master planning of the wider site. It was viewed as an important, strategic site.

It was this comments that has lead to outline proposals described in the Activity Park Statement submitted as part of this application.

The chair concluded that Barnsley will clearly benefit from this youth zone- it's an interesting and exciting building & facility. The design of the building is going in the right direction and the panel wish to celebrate that fact and declare it; it looks very promising.

Give further careful thought as to how the design of the building can express its character. Look at more public focussed typologies, colours and forms to visually communicate that this is a public building, for kids and activity. Give a legible, clear visual message that its internal uses are civic and community orientated.

Look again at the design proposed on the residential side to make it more inspiring and holistic and so those driving along Harborough Hill Road are drawn to what the building is.

Look at the master planning of the wider site, to ensure that the design of the spaces around the youth zone don't fall behind. These areas need purpose and character.

Avoid using vague terminology to describe external spaces such as 'plaza', 'soft landscaping' and 'public open space'. There needs to be a named purpose for these areas that translates into a brief.

Carefully consider the building's impact on the residential amenity of nearby, existing residents. Look at mitigating any potential problems before they start.

Look further at the design of the front corner of the building to make it bolder. The colonnade needs more work to develop it further. The building entrance could be made more prominent.



Public Consultation

An online pre-application consultation ran for twelve days from Monday 13h December to Friday 24th December 2021. In conjunction, OnSide held a two-day public consultation event in Barnsley Market place on Wednesday 16th and Thursday 17th December 2021.

A Statement of Community Consultation is provided with the application to comply with the recommendation within Barnsley Metropolitan Borough Council’s Statement of Community Involvement (SCI): and with guidance within the National Planning Policy Framework (NPPF).

The approach taken to the pre-application consultation process was to provide detailed information about the proposed redevelopment scheme to members of the local community in order to help answer questions about the proposals and provide reassurance that key issues likely to affect the local community have been addressed as part of the development of the project. A range of communication methods were used to provide information and to give people the opportunity to get in touch to give feedback.

Barnsley Youth Zone will be a brand new facility for the young people of Barnsley. It will be located to the east of the train station on a prominent position just off Schwabisch Grönd Way.

Outside Youth Zones provide opportunities and challenges that inspire young people to lead healthier and more positive lives, raising their aspirations to grow up to become happy, caring and responsible citizens, with more to offer themselves, their families, the community and employers. Having opportunities to try new things and face challenges in a safe environment, supported by staff and volunteers who care, gives young people the chance to build career skills, life skills and confidence.

The design has been developed by looking at the constraints and opportunities on this difficult site to maximise the amount of floor space for the facilities, by working with the challenging topography to reach a suitable plan arrangement. Consideration of the existing and positioning of facilities has been tested to respect the adjacent gateway location and residential amenity to the north and potential development to the east.

A key design driver has been creating a distinctive landmark building with an active frontage onto the public facing elevation that acts as a gateway into the town centre. A projecting first floor that overhangs the ground floor

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The smaller scale elevation to the eastern boundary faces towards the existing residential areas and the future development site. This elevation has been crafted to respond to this architecture by introducing a rhythm to the fenestration and detailing that echoes the domestic scale of terraced housing nearby.

Barnsley Youth Zone will enhance the area by providing a destination for the young people of Barnsley giving them somewhere to go, something to do, with someone to talk to. This exciting new building forms part of the wider Barnsley regeneration of the Town Centre and improvements to the public realm.

View from Station Entrance

Barnsley Youth Zone

Public Consultation December 2021

harchitects OnSide Here for young people BARNLEY Metropolitan Borough Council

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Section 4 Design Proposals

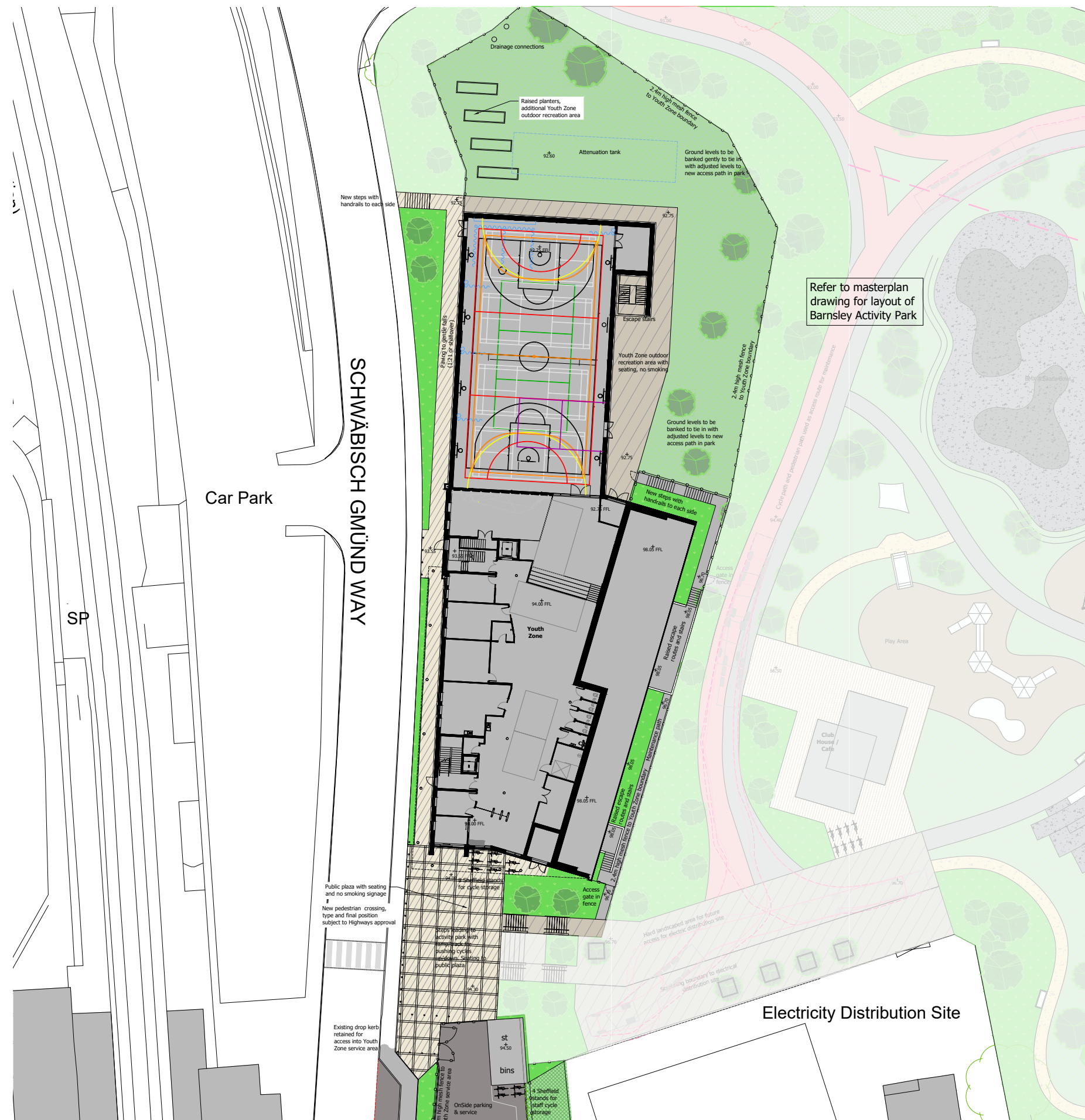
Site Plan Layout

A key client requirement is that there is only one entrance to the building and facilities and that this is supervised and controlled at all times. The layout has been designed so that visitors enter the building via a new civic space located at the front of the site opposite the station which will link into the wider Activity Park. This creates a legible and impressive single access point within the modernised and upgraded urban townscape.

The building is set back slightly facing Schwäbisch Gmünd Way to enhance pedestrian connectivity and provide arrival point in the street scene. A new pedestrian crossing is proposed from station to further improve pedestrian connectivity. As the levels change towards the north of the site, the landscaped strip increases to accommodate this change and provides an area of soft landscaping to improve biodiversity.

External amenity space is created to the north on the higher ground and to the east with a banked landscaped buffer to the activity park. The east elevation is made secure with fencing and masonry walls to afford emergency escape from the first floor in a narrow strip of land that sits adjacent to the activity park.

To the south the existing network rail compound is adjusted to provide two service areas, one for the Youth Zone and one for Network Rail with an improved drop off area.



Internal Layout Facilities

OnSide Youth Zones provide flagship facilities for young people in prominent, accessible positions in neutral locations. They are landmark buildings, making strong visual statements and are finished to a high internal specification, with the best equipment and a clear focus on the quality of the environment and facilities. The buildings offer a wide range of sporting, artistic, cultural, physical and recreational activities for young people as well as opportunities for personal development and informal education to help raise aspirations and improve prospects. Youth Zones are accessible to all young people and are open every day of the year.

At the core of a Youth Zone's offer is its 'universal service'. With at least 20 different activities every session, Barnsley Youth Zone will be open to young people aged from 8-19 years (up to 25 years for those with additional needs), offering the chance to learn new skills, make new friends and develop interests.

The universal service comprises the programme elements set out below.

Get Active:

The comprehensive facilities at the Youth Zone will enable young people to participate in a wide range of sports and physical activities including: football, badminton, netball, basketball, cricket, climbing, martial arts, boxing and fitness training amongst many others. They will be able to engage at every level from just 'having a go' to developing their skills and engaging competitively.

Get Creative:

Young people in the Youth Zone will be able to access a broad range of arts and media opportunities. The facility will have a specialist dance and performing arts studio, film and music suites and art and craft workshops.

Get Sorted:

Support will be available for young people around personal health and wellbeing issues including sexual health, relationships, stress, drugs and alcohol. The Youth Zone will link in with existing services in the area to ensure it is supporting young people to access the information, advice and guidance they really need. For those that need more individual focused support a mentoring programme will be a valuable resource.

Get Outdoors:

Young people should have the chance to explore different environments, experience new things and reconnect with nature. Barnsley Youth Zone will offer a range of outdoor experiences including, using the area's local resources or potentially travelling further afield to broaden horizons.

Get Connected:

OnSide want young people to play a real role in the running of their Youth Zone and to have a clear and coherent voice in the wider community. Barnet Youth Zone will support young people to become more connected to what's going on around them and to develop their leadership skills.

Get Ahead:

The applicant recognises that having the right skills and support is key to getting ahead. With the help of partners and local businesses Barnsley Youth Zone will support young people to get on the right path for the future.



Lower & Upper Ground Floors

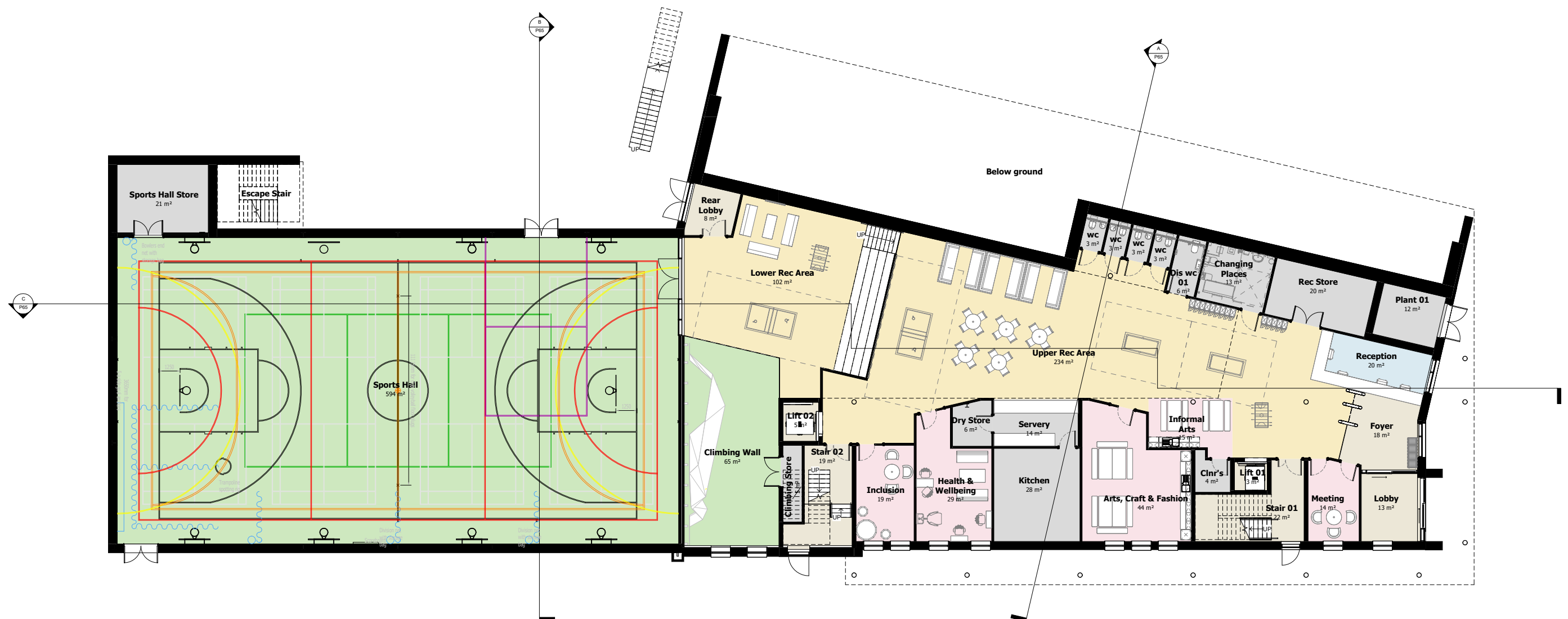
The design is based upon legibility and connectivity and from the front area, visitors enter the building through a glazed lobby and foyer area where they are greeted by a reception with controlled access into the complex. The visitors are then allowed through the controlled access where they pass into an open plan recreation area.

The most important aspect of the layout from this visitor entrance position is legibility. To this end the arrival / recreation area, has visibility into the vast majority of the activity and social areas.

In particular the sports hall is positioned so that it is accessed at the centre from the long side facing into recreation area. This gives maximum flexibility to the sports hall by simplifying subdivision and therefore multi activity use.

The open plan recreation area has also been designed as double height space; this again gives a visual link on entering the building with the facilities at first floor level. These are accessed via a balcony with glazed edge protection giving views over and into the ground floor recreation area.

The 'open' climbing wall opens onto the recreation area and is an exciting part of the space. The recreation area also legibly leads through to the external areas.

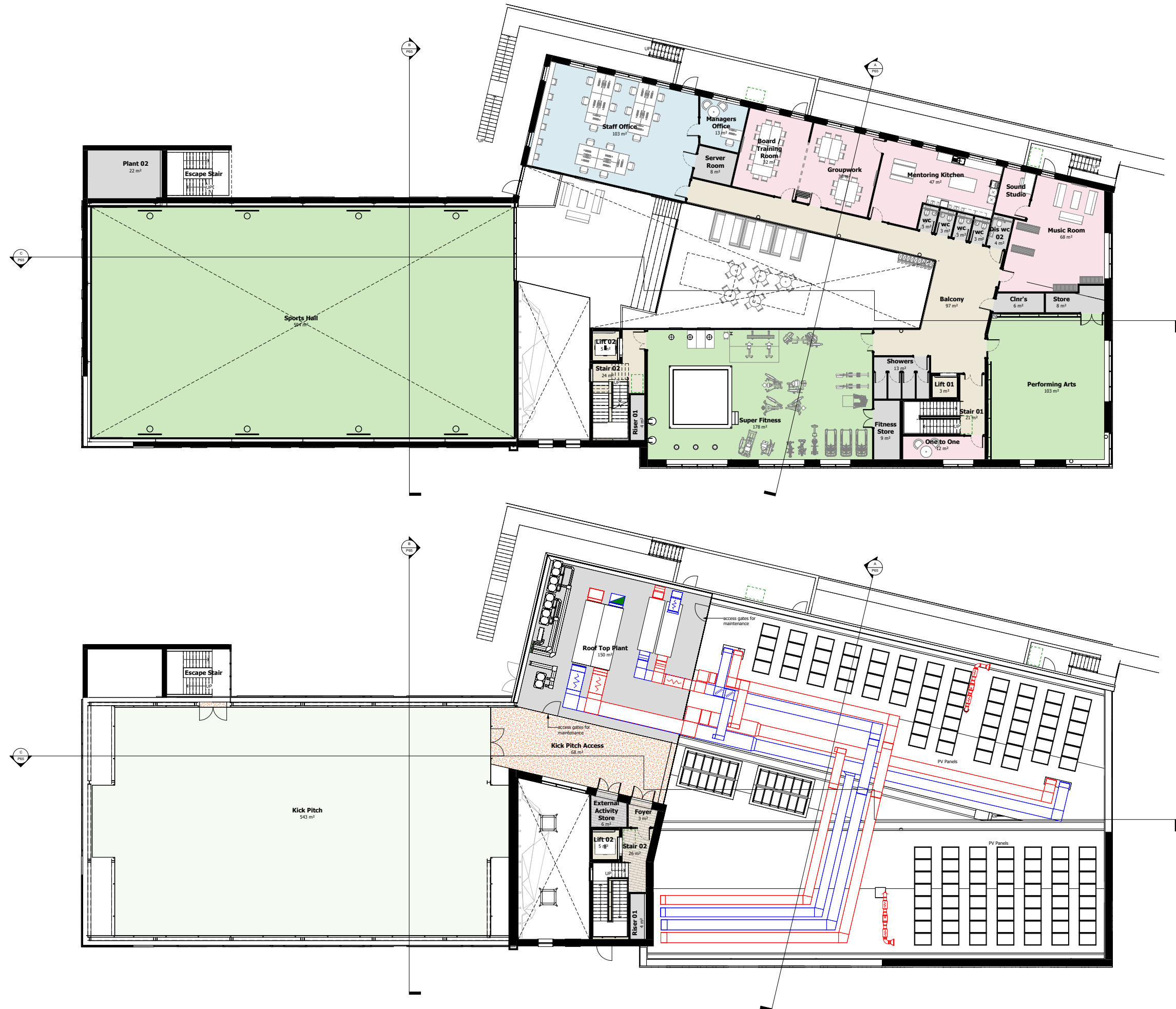


First Floor & Roof Plan

All first floor facilities are wrapped around and overlook the open double height recreation area creating a legible exciting space.

Key facilities including the super fitness suite and performing arts studio are located 'front of house' overlooking Schwäbisch Gmünd Way and the external entrance space to create active street elevations.

Stair and lift access is provided to the roof top kick pitch which will provide an architectural 'halo' visible from the town centre and approaches to the Youth Zone.



Accommodation Schedule

The different activities comprising the universal service all have particular space needs in order to meet the objectives of the Youth Zone delivery programme and respond to the requirements of its user group. The building has thus been designed to incorporate a wide variety of spaces, meeting areas and other facilities.

The sports hall will accommodate four marked courts and be set out for various other sports courts to a minimum internal size of 18m x 35m, the floor will be a specialist sprung sports floor with a seamless polyurethane playing surface.

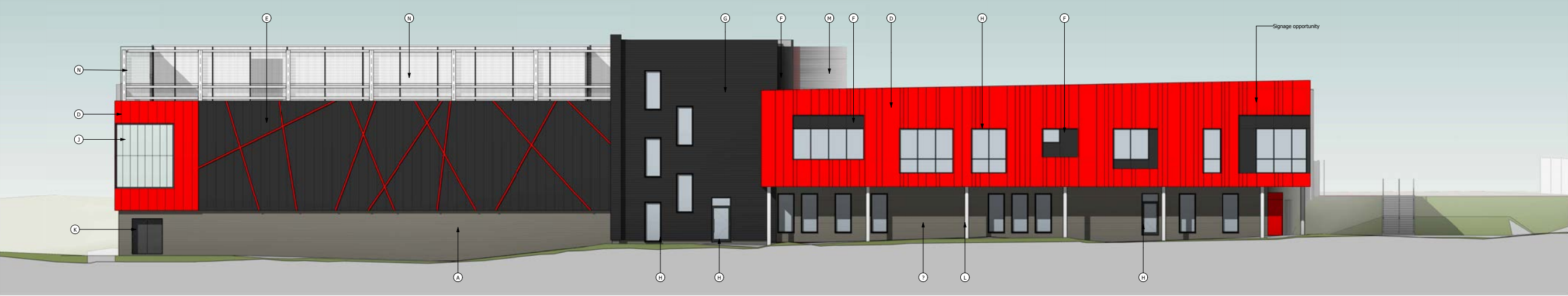
The facility has been designed to be as compact as possible making the most efficient use of the land that is to be 'gifted' to the applicant by the council, whilst still achieving the activity spaces required. The table below provides some figures for comparison purposes of other Youth Zone sizes:

Youth Zone	Gross Internal Area (m ²)
Carlisle	1725
Oldham	2282
Blackburn	2319
Manchester (North)	2931
Wigan	3460
Wolverhampton	2614
Chorley	1915
Wirral	2850
Barking & Dagenham	2175
Barnet	2260
Croydon	2264
Manchester (East)	2519
Warrington (On Site)	2640
Grimsby (Proposed)	2956
Basildon (Proposed)	2324
Barnsley	2298

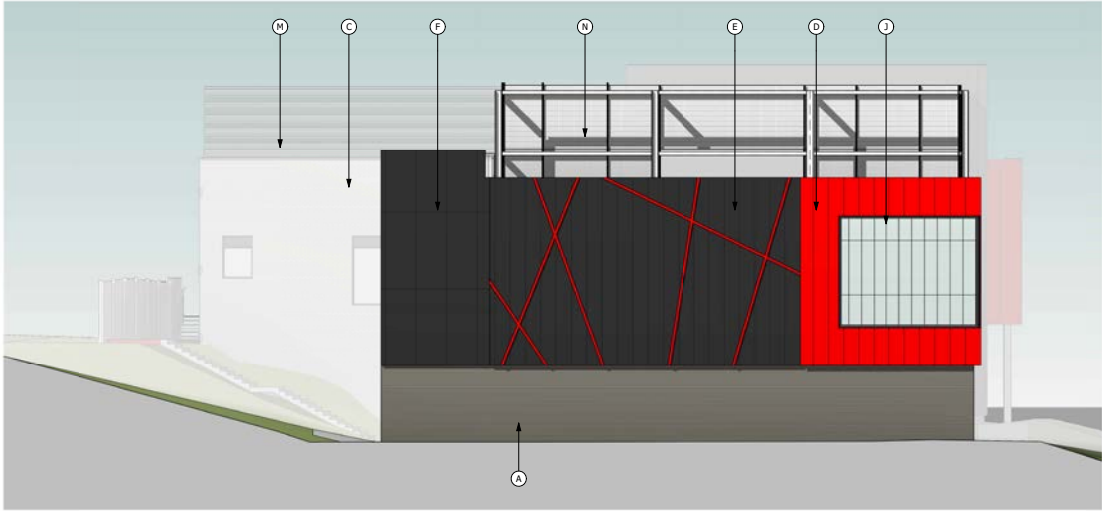
Room Schedule			
Level	Number	Name	Area
Upper Ground Floor	00.01	Lobby	13 m ²
Upper Ground Floor	00.02	Foyer	18 m ²
Upper Ground Floor	00.03	Reception	20 m ²
Upper Ground Floor	00.04	Plant 01	12 m ²
Upper Ground Floor	00.05	Rec Store	20 m ²
Upper Ground Floor	00.06	Meeting	14 m ²
Upper Ground Floor	00.07	Upper Rec Area	234 m ²
Upper Ground Floor	00.08	Stair 01	22 m ²
Upper Ground Floor	00.09	Changing Places	13 m ²
Upper Ground Floor	00.10	Lift 01	3 m ²
Upper Ground Floor	00.11	Clnr's	4 m ²
Upper Ground Floor	00.12	Dis wc 01	6 m ²
Upper Ground Floor	00.13	Informal Arts	15 m ²
Upper Ground Floor	00.14	Arts, Craft & Fashion	44 m ²
Upper Ground Floor	00.15	wc	3 m ²
Upper Ground Floor	00.16	wc	3 m ²
Upper Ground Floor	00.17	wc	3 m ²
Upper Ground Floor	00.18	wc	3 m ²
Upper Ground Floor	00.19	Kitchen	28 m ²
Upper Ground Floor	00.20	Servery	14 m ²
Upper Ground Floor	00.21	Dry Store	6 m ²
Upper Ground Floor	00.22	Health & Wellbeing	29 m ²
Upper Ground Floor	00.23	Inclusion	19 m ²
Lower Ground Floor	00.24	Lower Rec Area	102 m ²
Upper Ground Floor	00.25	Stair 02	19 m ²
Lower Ground Floor	00.26	Climbing Store	5 m ²
Lower Ground Floor	00.27	Lift 02	5 m ²
Lower Ground Floor	00.28	Climbing Wall	65 m ²
Lower Ground Floor	00.29	Sports Hall	594 m ²
Lower Ground Floor	00.31	Sports Hall Store	21 m ²
Upper Ground Floor	00.32	Workshop	12 m ²
Upper Ground Floor	00.33	Bin Store	12 m ²
Lower Ground Floor	00.34	Rear Lobby	8 m ²

Room Schedule			
Level	Number	Name	Area
First Floor	01.40	Stair 01	21 m ²
First Floor	01.41	Balcony	97 m ²
First Floor	01.42	Performing Arts	103 m ²
First Floor	01.43	Store	8 m ²
First Floor	01.44	Clnr's	6 m ²
First Floor	01.46	Music Room	68 m ²
First Floor	01.47	Dis wc 02	4 m ²
First Floor	01.48	wc	3 m ²
First Floor	01.49	wc	3 m ²
First Floor	01.50	wc	3 m ²
First Floor	01.51	wc	3 m ²
First Floor	01.52	Mentoring Kitchen	47 m ²
First Floor	01.53	Groupwork	36 m ²
First Floor	01.54	Board / Training Room	32 m ²
First Floor	01.55	Staff Office	103 m ²
First Floor	01.56	Managers Office	13 m ²
First Floor	01.57	Server Room	8 m ²
First Floor	01.58	One to One	12 m ²
First Floor	01.59	Showers	13 m ²
First Floor	01.60	Super Fitness	178 m ²
First Floor	01.61	Fitness Store	9 m ²
First Floor	01.62	Riser 01	4 m ²
First Floor	01.63	Stair 02	24 m ²
First Floor	01.64	Plant 02	22 m ²
Kick Pitch FFL	02.70	Stair 02	26 m ²
Kick Pitch FFL	02.71	Foyer	3 m ²
Kick Pitch FFL	02.72	Kick Pitch Access	68 m ²
Kick Pitch FFL	02.73	Roof Top Plant	150 m ²
Kick Pitch FFL	02.74	Kick Pitch	543 m ²
Kick Pitch FFL	02.75	External Activity Store	6 m ²

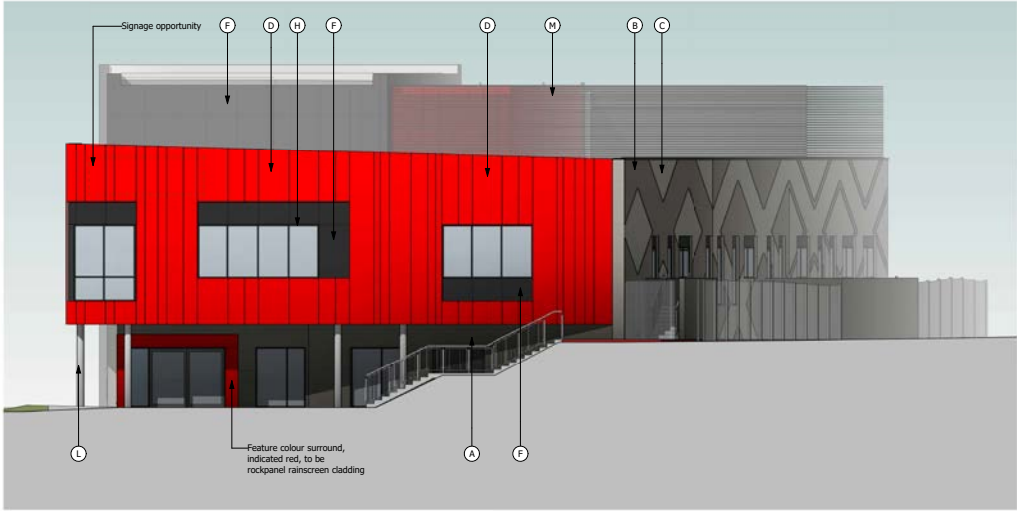
Section 5 Appearance & Scale
Proposed Elevations



West Elevation



North Elevation



South Elevation



East Elevation

Materials Key

- (A) Dark grey brick with 10% mix of light grey brick
- (B) Dark grey brick
- (C) Light grey brick
- (D) Rockpanel mineral wool cladding, red RAL 3028, varying width boards
- (E) Rockpanel mineral wool cladding, black grey RAL 7021, with recessed feature lighting strips
- (F) PPC Aluminium / Rockpanel cladding, black grey RAL 7021
- (G) PPC Aluminium horizontal profiled cladding, black grey RAL 7021
- (H) PPC Aluminium glazing / curtain walling system / doors
- (I) Back lit polycarbonate glazing system
- (J) PPC Aluminium service doors, copings and flashings
- (K) Painted columns and exposed steelwork
- (L) Louvre plant screen
- (M) Black mesh fence to kick pitch with painted steel supporting structure
- (N)

Proposed Sections

The design of the external envelope has developed following feedback and comments from the design review panels. As previously mentioned the proposed materials are to be high quality, robust finishes that will ensure longevity with minimum levels of maintenance. The building is designed to have a masonry base at low level on public and activity fronting areas, with slots of glazing giving glimpses of activity within.

The projecting upper storey will be clad in Rockpanel, a fire resistance material, in a feature red colour with punched windows to activity rooms. This cladding has a gently raising parapet towards the corner opposite the station acting as a beacon towards the entrance with a varying width panel profile to introduce animation to the facade.

The corner to the north will also use this feature colour to frame a backlit polycarbonate panel with the remainder of the sports hall covered in a dark cladding with expressive illuminated feature bands.

The mass of the sport hall is treated differently to the other elevations due to it being one large volume where glazing is not suitable due to glare when playing sports and damage from the activities. The materiality is considered to help break up the massing and also provide a sense of fun and energy.

A kick pitch on the roof level which when in use will provide a 'halo' effect of light and activity above the volume of the sports hall below.

The east brick elevation has been redesigned to echo the diagonal line pattern but using brickwork in a more regular diagonal pattern with changes to the mix of brick colours. This more domestic scale elevation faces the Activity Park and uses fenestration in a pattern that references the domestic properties on Mottram Street.



Cross Section A



Cross Section B



Long Section C

External Views

View from South along Schwäbisch Gmünd Way



View from North along Schwäbisch Gmünd Way



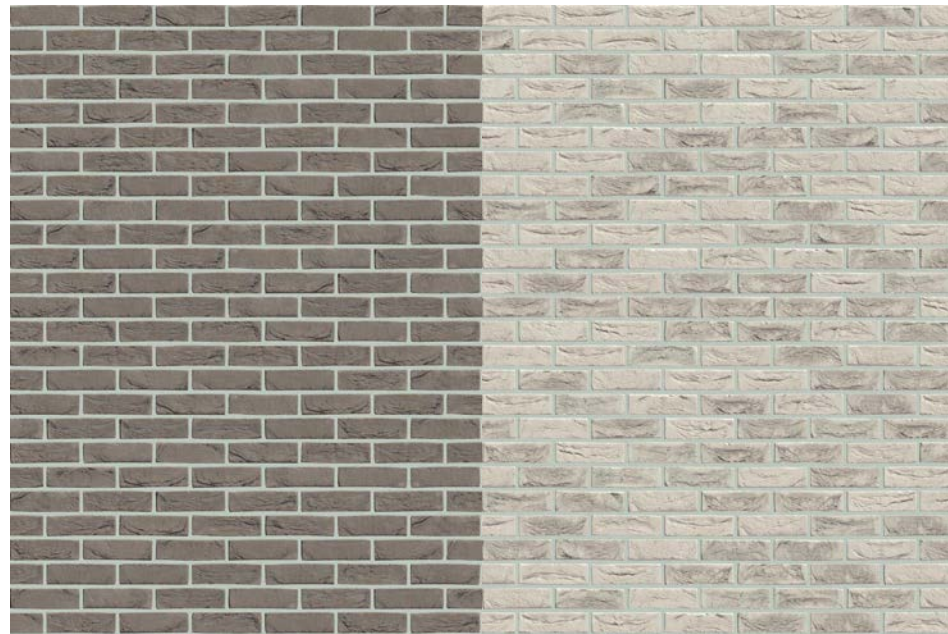
View from the transport interchange & station



Proposed Materials

Grey brickwork laid in mixed colours

Used for the lower areas on public facing sides to give a robust finish and to the residential and park facing elevation



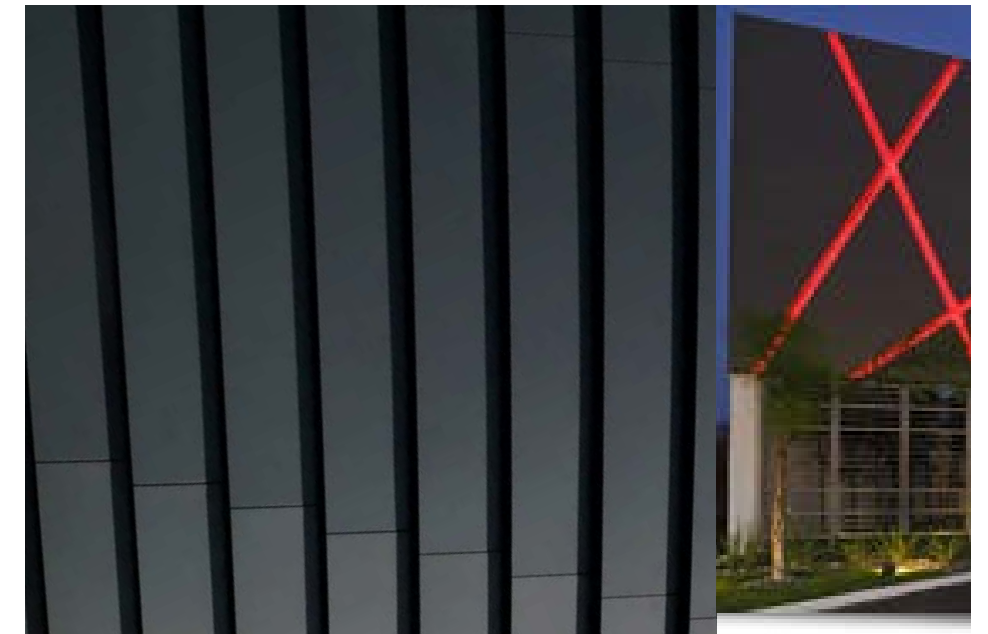
Rockpanel mineral wool cladding panels

Used for the upper areas of the main building to give a varied pattern and colour.



Rockpanel mineral wool cladding panels with lights

Used for the sports hall facade, dark panels with strips of recessed lighting to animate the facade.



Curtain walling system

Powder coated aluminium curtain walling and windows



Aluminium window system

Punched windows in various sizes are set in darker cladding and surrounded by the red rockpanel cladding with varied width panels.



Horizontal profile cladding

Used for the climbing wall and roof top access element, using a horizontal profile



Fire Strategy

An important factor of consideration in any building is that of fire safety and one that has been brought to the public attention following the tragedy at Grenfell. The proposals have been developed with this in mind from day one as it is now considered a topic that needs addressing earlier on in the design process.

Although the building will be less than 18m in height, being a recreational facility, there are requirements upon the fire resistance of materials and how means of escape are designed that need to be addressed.

The development consists of a construction of a new 3-storey (GF+2) assembly and recreation building containing various recreation areas (gyms, kitchen, performing arts, music, etc.), office areas, ancillary areas (storage plant etc.) along with an adjoining single storey sports hall with a rooftop kick pitch.

As a key architectural feature, a large central void connecting both floors is present. The first floor is served by two protected stairs. The main stair to the upstairs accommodation is approached from a circulation balcony.

The second floor, which contains the kick pitch, plant areas and forms a roof access level, is provided with two stairs: a dedicated external stair, and a protected internal stair shared with the rest of the building.

The building is constructed on a slope (from east to west), which results in a part of the 1st floor accommodation being provided with exits directly to outside.

The treatment of elevations is another consideration, the initial concept designs have included the use of non-combustible, and limited combustibility materials and those with a low spread of flame.

As part of the design process advice has been sought from a Fire Engineering Consultant who has reviewed the principal design. They have identified the following aspects for consideration;

- The building will be designed to meet the function requirements of Part B of the Building Regulations 2010, through compliance with BS 9999.
- The building will include a Category L2 fire detection and alarm system in accordance with BS 5839-1, in order to provide early detection and warning in all areas.
- A simultaneous evacuation regime will be implemented, whereby the entire building will be evacuated at the same time upon detection or activation of a manual call point anywhere within the building.
- Travel distances will keep with the limitation of BS 9999 (20m in a single direction and 40m in more than one direction).
- As a key project aspiration, the first floor will be served by an open balcony, with a central void connecting to the ground floor. This innovative layout will have to comply with BS 9999 open special planning requirements. However, as the escape route will be within 4.5m of the void edge, a bespoke package of fire safety provisions is proposed to ensure that occupants on the first floor can escape. It is proposed that an imperforate protected balustrade, at least 1.1m high is provided, with reference to similar design recommendations from BS 9991. This will ensure occupants can be protected from smoke rising from below in a fire scenario, and then have a choice of escape via one of the two escape stairs provided.
- Horizontal escape from both floors will be via final exits and storey exits. These exit widths will be in accordance with BS 9999, providing sufficient horizontal exit capacity for the proposed occupancy.
- Vertical escape from the first floor will be via stairs. Exit widths will be in accordance with BS 9999, providing sufficient vertical exit capacity for the proposed occupancy. Stairs will include refuge areas including emergency voice communication devices as per BS 5839-8 in support of disabled occupants.
- Internal compartmentation will include high risk areas (plant areas and storage areas) enclosed in fire resisting construction, however the entire building will be in a single fire compartment in accordance with BS 9999.
- The external surface of the cladding will achieve Class B-s3, d2 rating. BS 9999 does not impose restrictions of combustibility of external walls for a building of this height. External fire spread requirements will include only localised fire resisting façade only if confirmed following a detailed assessment.
- Fire Service access will be within 4m of the building, which will result in 15% of the building perimeter being within 18m and line of sight of the pump appliance. Access doors will be provided within these areas for the fire service. This is in accordance with BS 9999 recommendations.
- Overall a L2 management system will be implemented in accordance with BS 9999.

