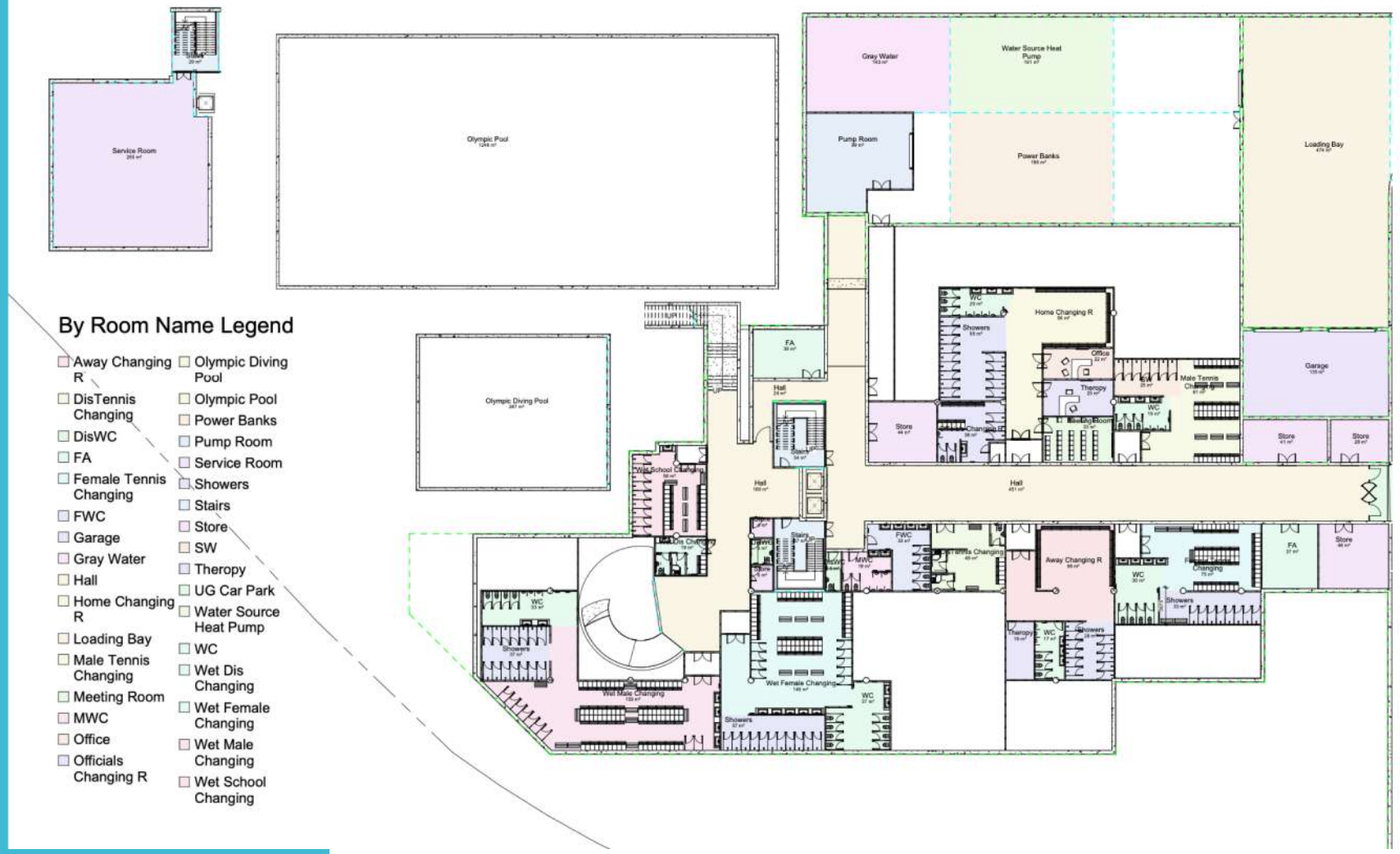
SA1 Leisure Centre Project

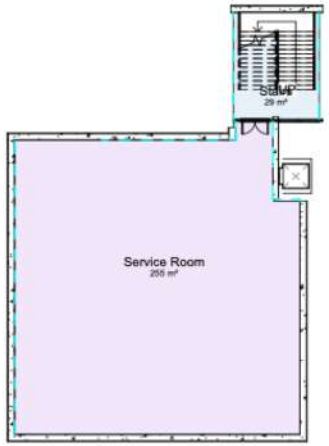
Materials Finishes



Basement Level



Plant and Service Rooms







The plantrooms located within the basement will be constructed using 6inch blockwork walls from floor slab to underside of soffit.

The blockwork walls will require wind posts, head restraints and ties in set locations as identified by the structural engineer.

All blockwork walls will be on show and will need to be installed to the highest quality, all blockwork walls in these plant rooms will be painted white before plant gets installed. The floors will be finished with a plant room paint.



Surface Mounted Pumps



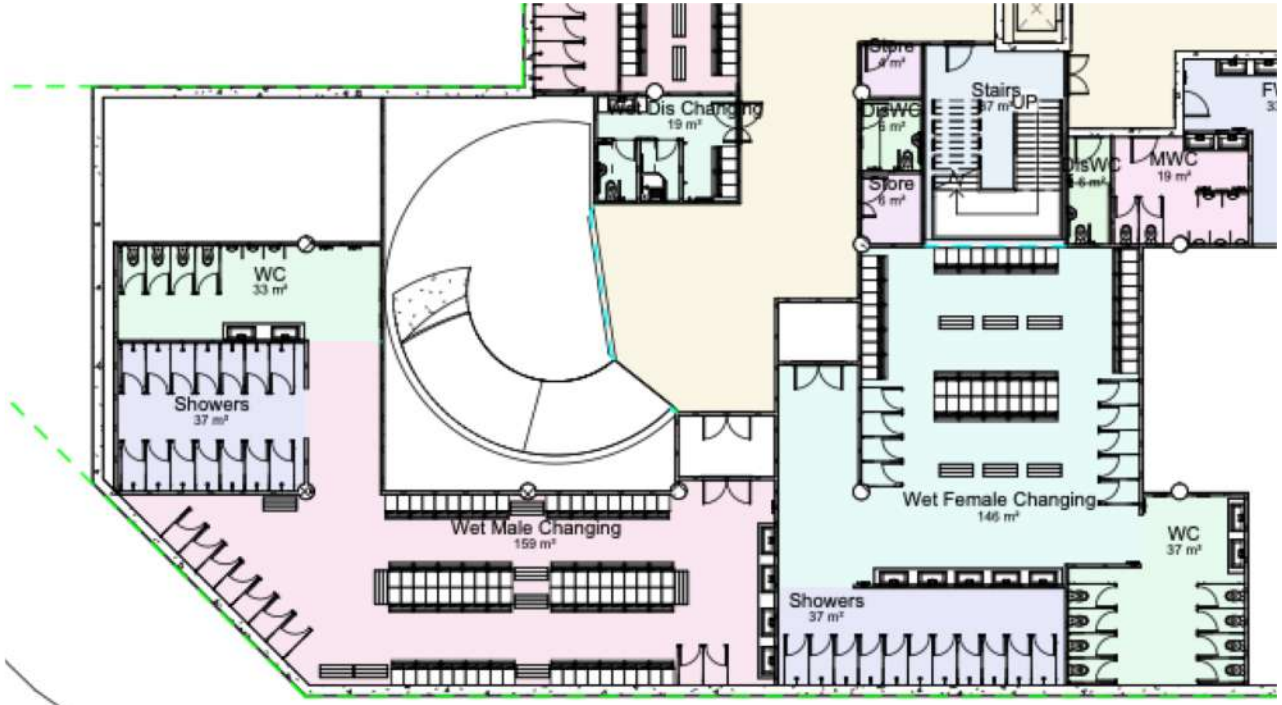
Energy Power Banks

Male & Female Swimming Changing Rooms

The male and female changing rooms in the basement will be internally decorated with bright modern colored walls, vinyl flooring and laminate products for vanity units, lockers and changing rooms.

Internal benches will be installed for customers to use whilst changing. The toilets and showers will be fairly basic – these rooms are designed to be easily cleaned and maintained.

Ceilings will be constructed from ceiling grid tiles to allow services to be easily accessed.







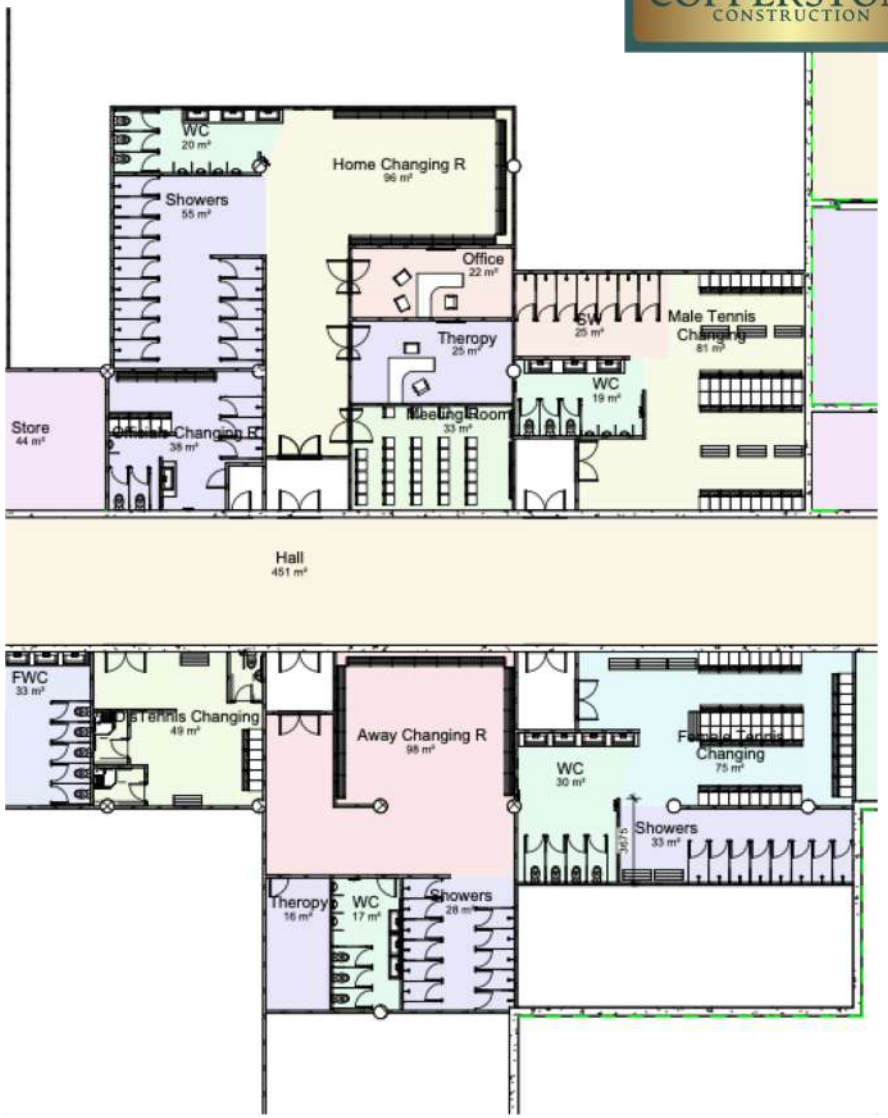


Rugby and Tennis Changing Rooms

The rugby and tennis changing rooms will follow the same interior theme as the swimming changing rooms but will be more suitable for the use of large teams including the addition of a meeting room, therapy room and office.



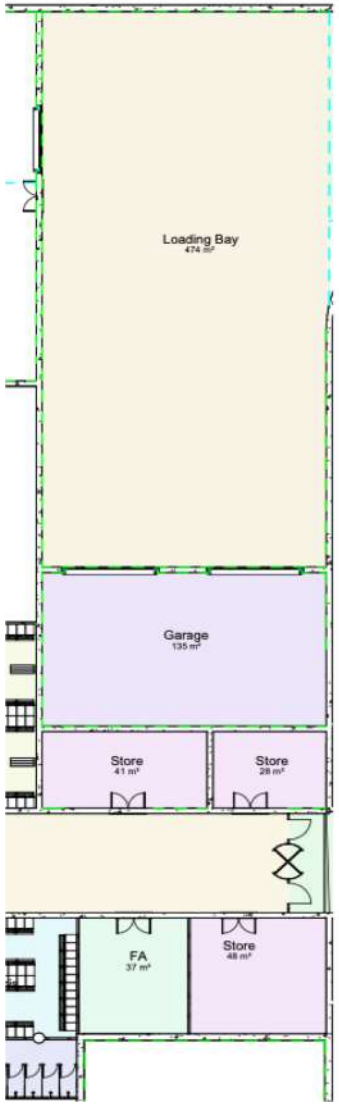


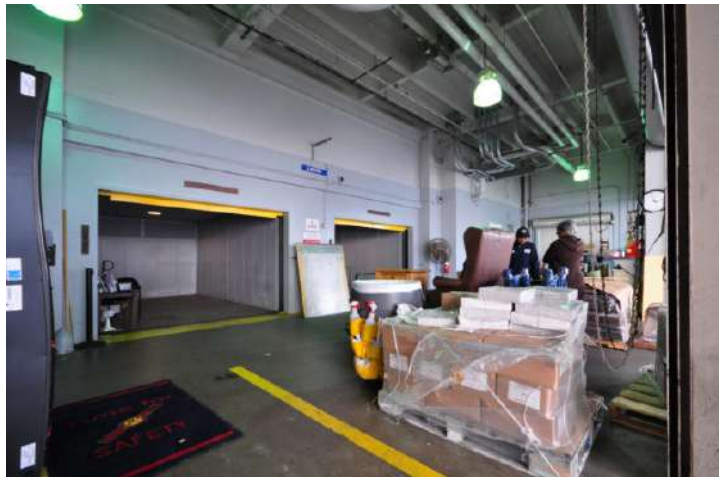


Loading Bay and Garages

The loading bay and garages are similarly build as that of the plant rooms. Concrete floors and blockwork painted walls are cost effective, hardwearing and clean

The stores rooms will be racked out with shelving for the storage of maintenance tools and materials.





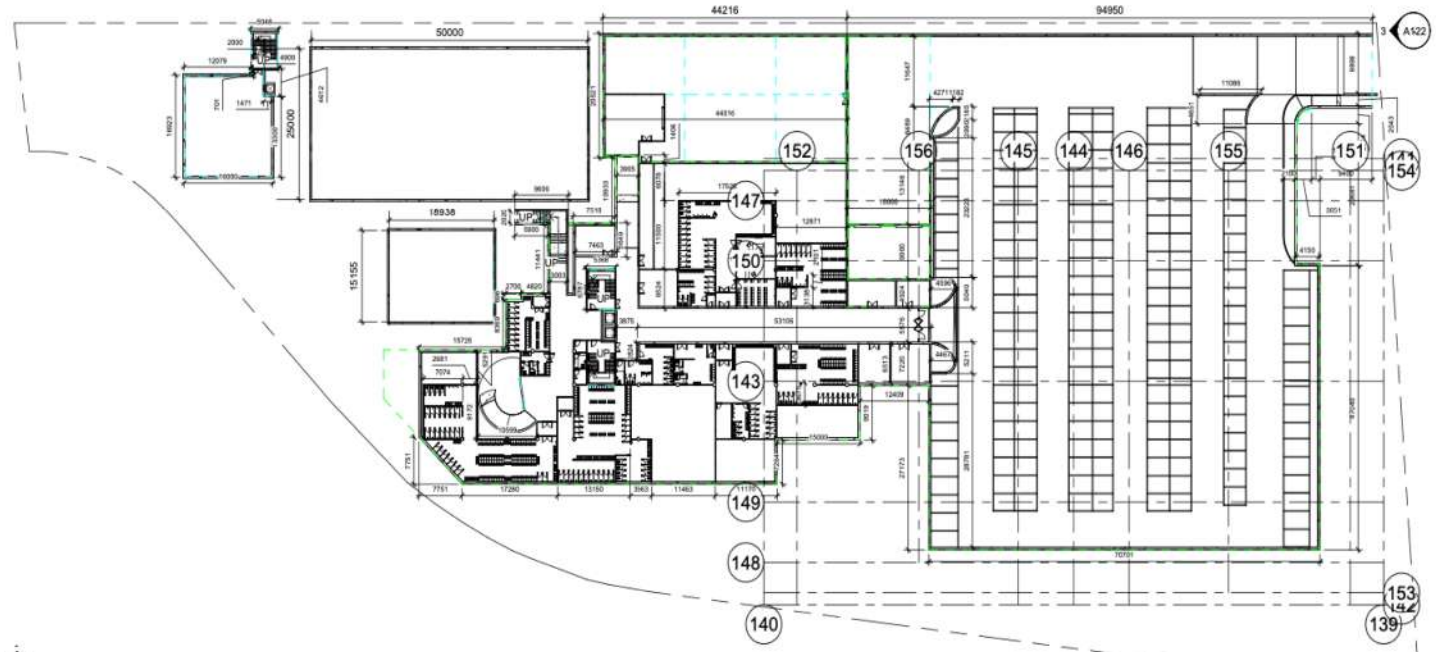




Car park and Stairwells

The carpark and stairwells of the basement build have been constructed with concrete. The carparking bays have been painted.

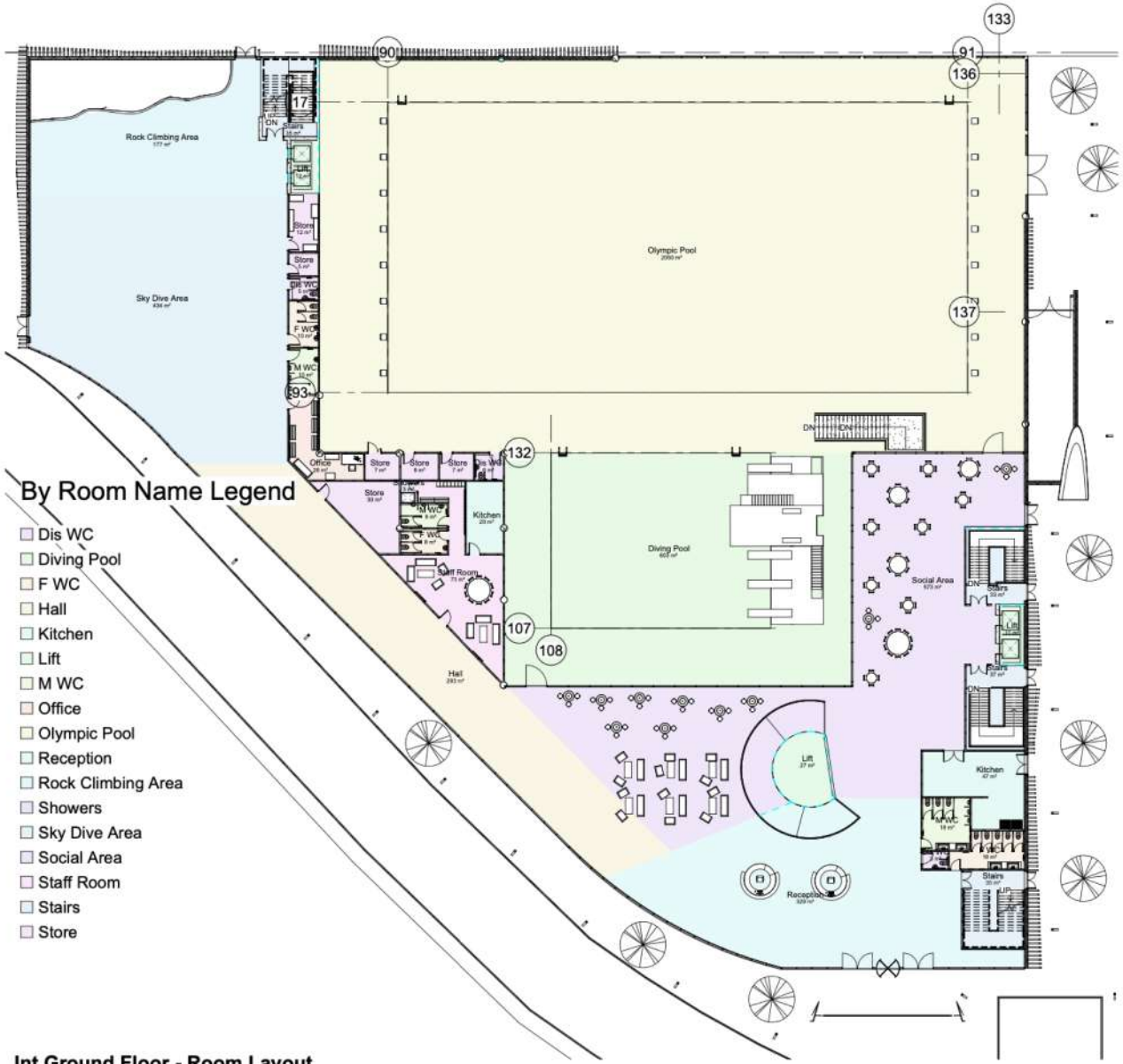
The stairwells have been carpeted with carpet tiled to add warmth and comfort to the building.







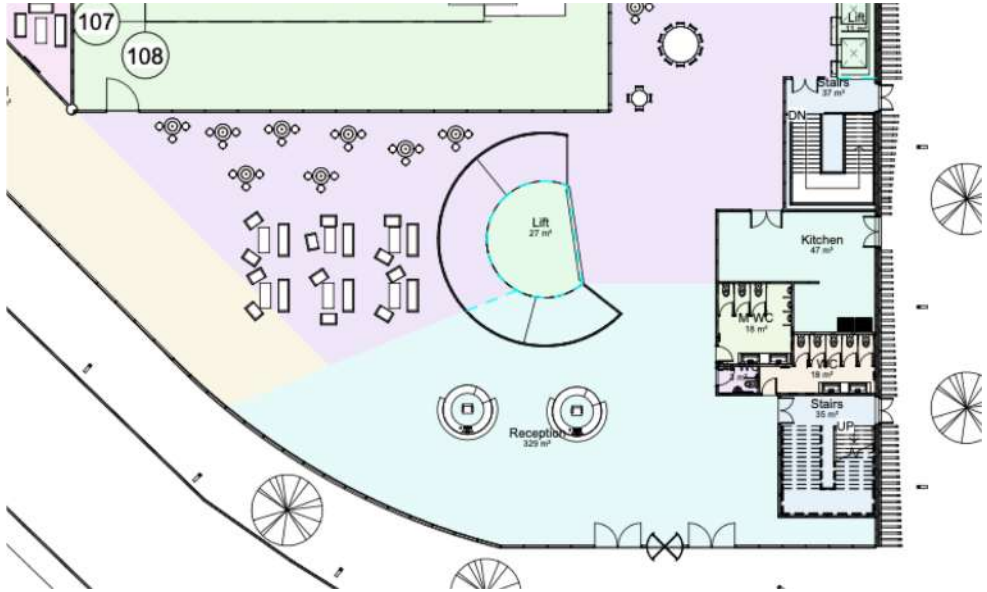
Ground Floor



Reception Entrance

The reception areas are constructed with high vaulted ceilings and glass curtain walling allowing plenty of natural light to flow through the building and give it a spacious feel.

Floor finishes in the entrance include areas of carpet and seating and areas of tiled flooring.

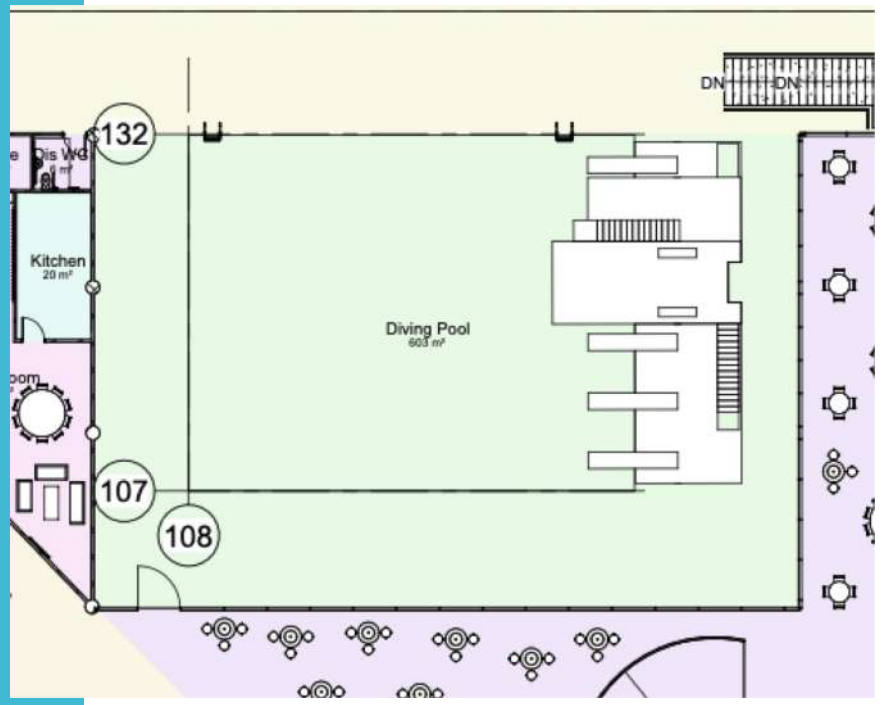


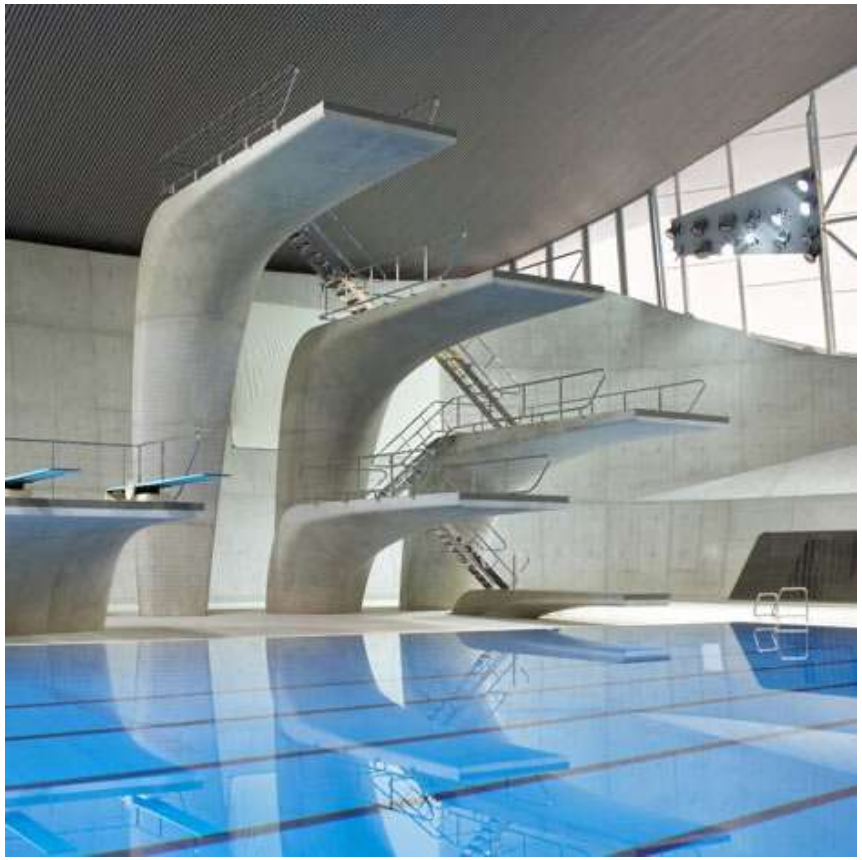




Diving Pool

The diving pool is tucked away with large ceilings. The diving boards are full height professional platforms. The modern and architectural concrete design of the diving boards are the first of its nature.

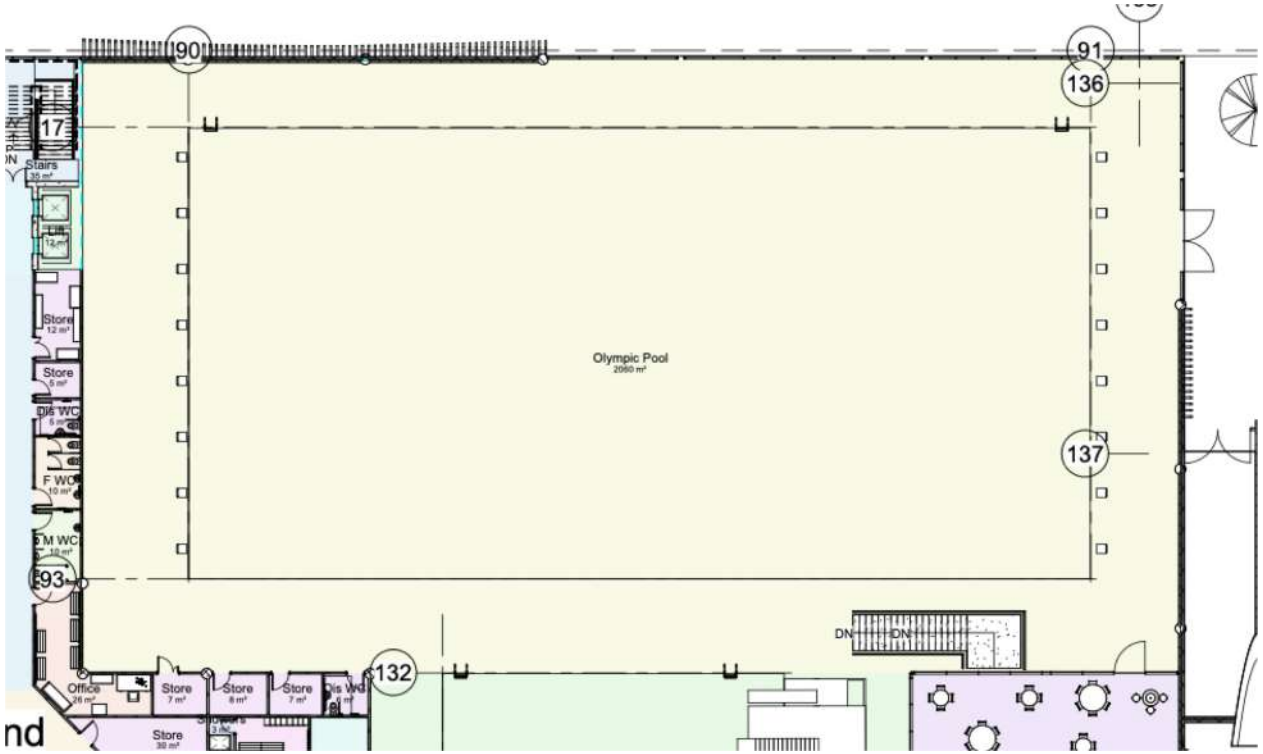




Olympic Pool

The Olympic pool is the focal point of this leisure center complex with the cafés and seating areas all positioned to watch the swimming competitions.

Constructed from modern tiling and light colors the pool has views of the docks. The ceiling of this building is timber glue laminate and is fully exposed.



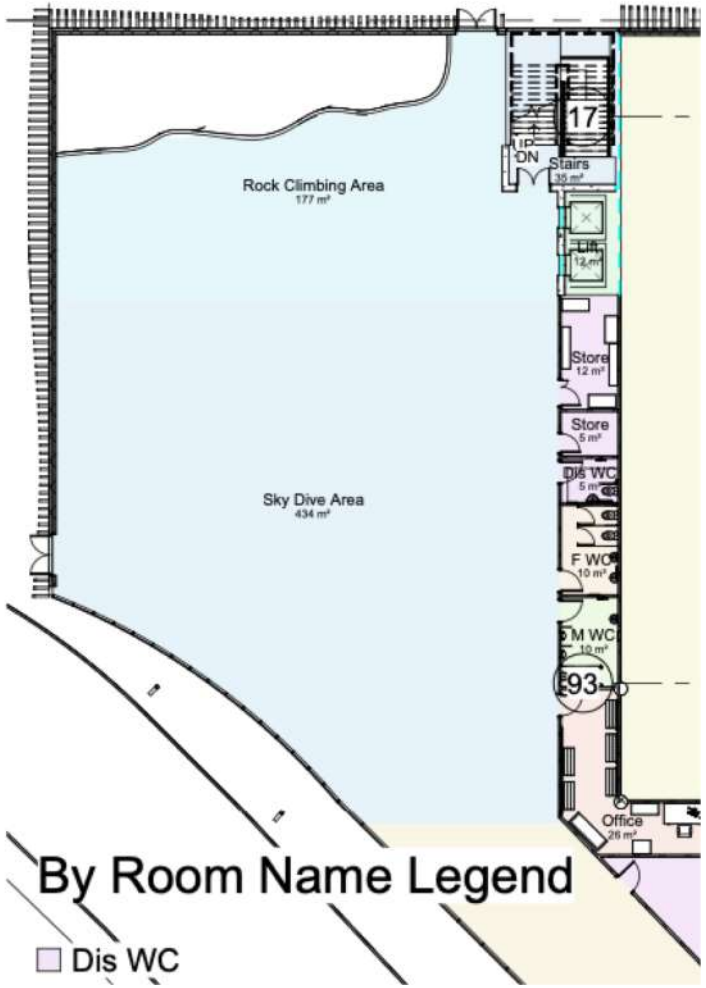


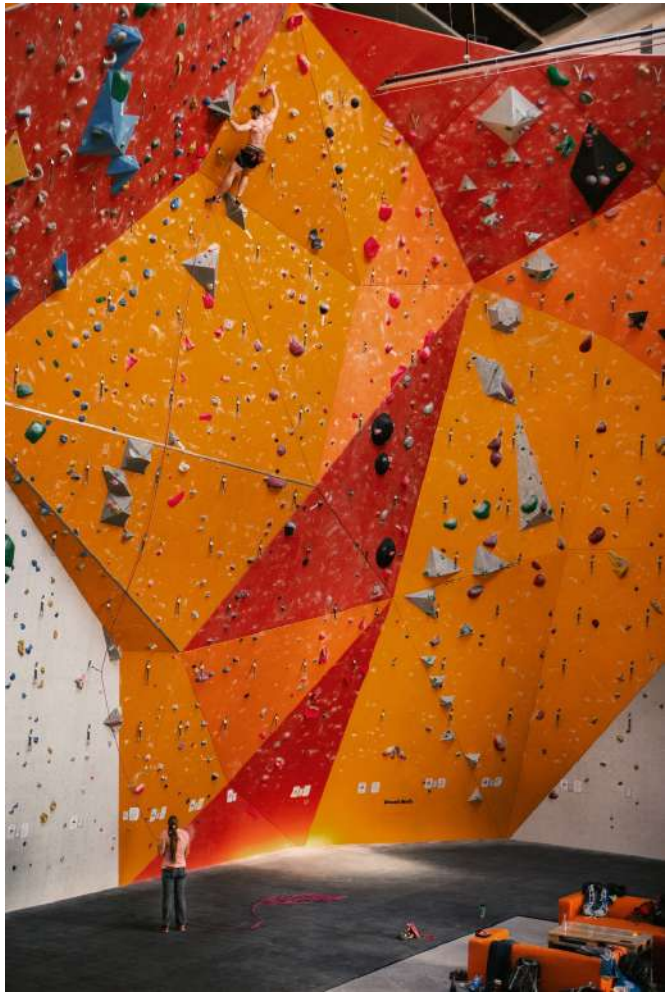


Rock Climbing Wall

The rock climbing wall is constructed from ply boards painted in different colors to add excitement to the high adrenaline activity.

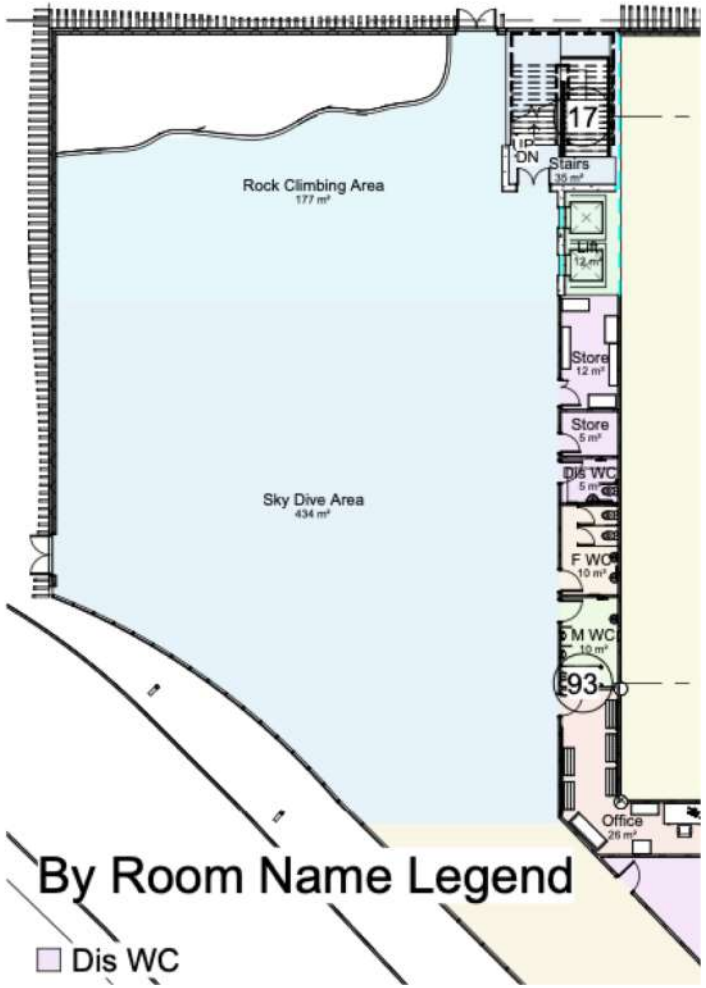
The floor is constructed from large foam mats with added foam protection around the base of the wall.





Skydive Area

The sky dive area is all open plan with a large wind tunnel to the center of the room where the public can watch people take to the skies.



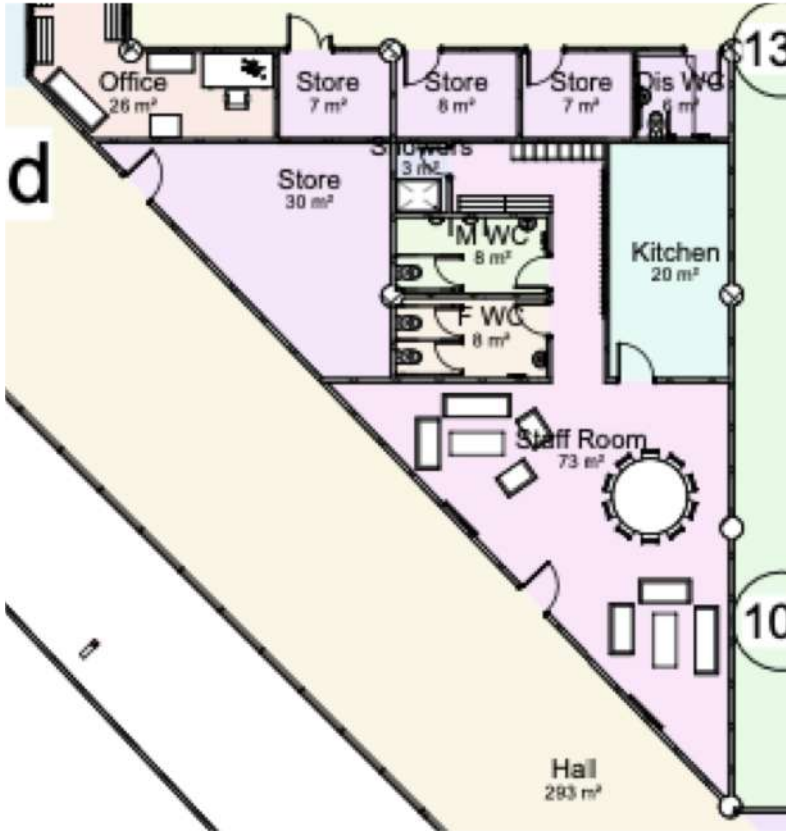




Staff Rooms

Staff Room and Toilet areas installed to a high quality finish using modern fixtures and fittings with bright colors.

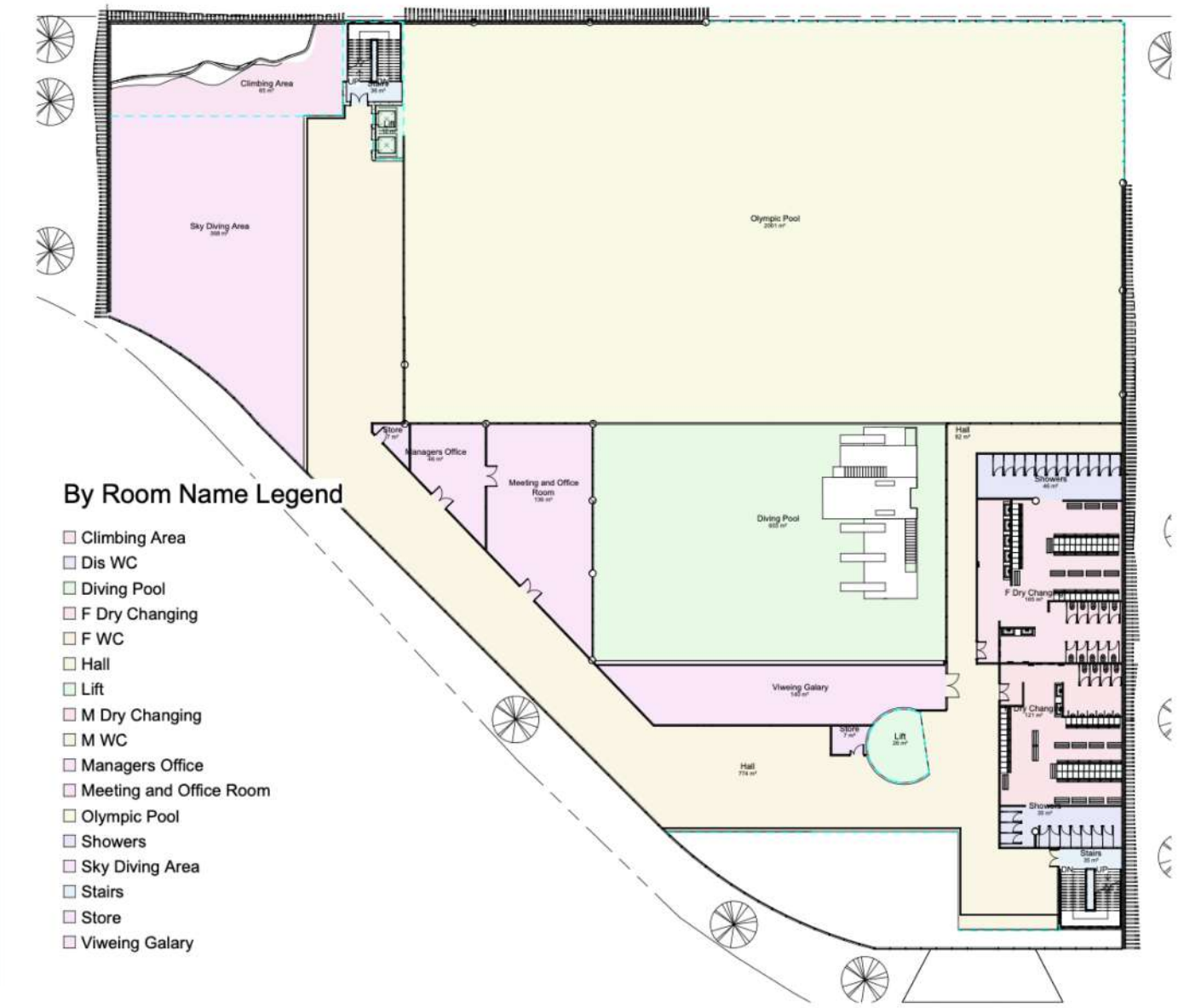
A space the members on staff on break can relax. Flooring will be carpet, toilets and showers will be mostly IPS units.







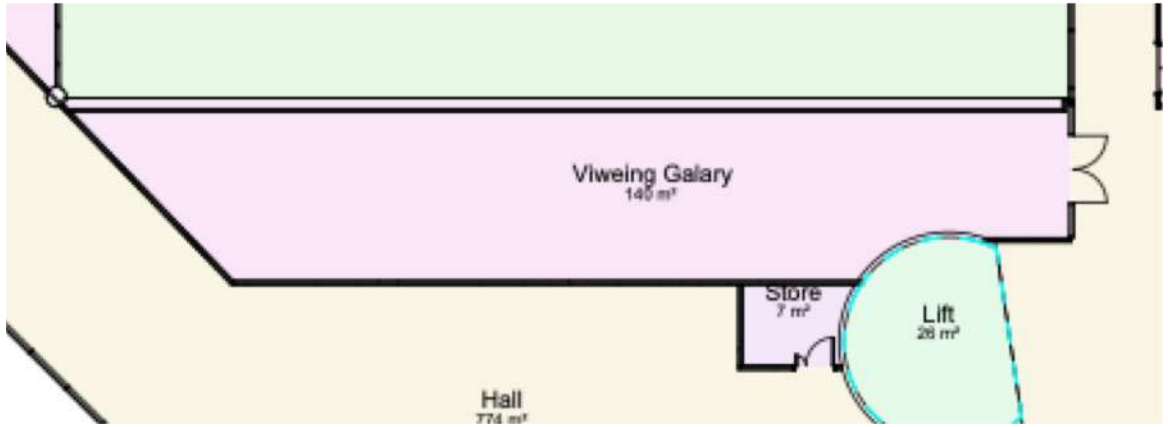
First Floor



1 **1st Floor - Room Layout**
1 : 200

Viewing Gallery

The spectators viewing gallery is on the first floor overlooking the diving pool and swimming pool, Guest can access this gallery via the Lifts and Feature staircase at the main reception

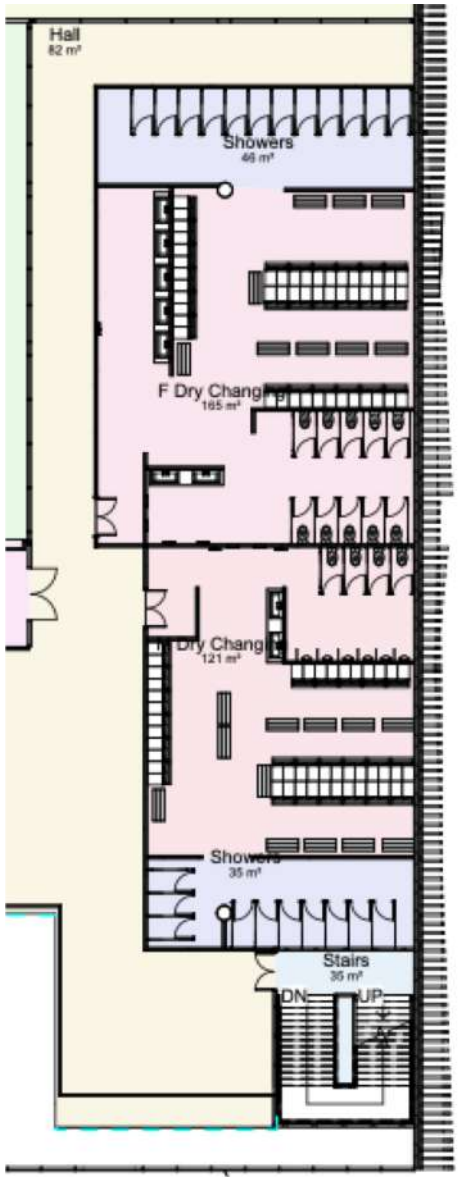




GYM Changing Rooms

The first floor also has a large male and female changing rooms for members who will be looking to use the GYM on the floor Above.

Similar to the changing rooms in the basement they will be finished with vinyl flooring, vanity units, lockers, changing bench's and IPS units for the toilets.





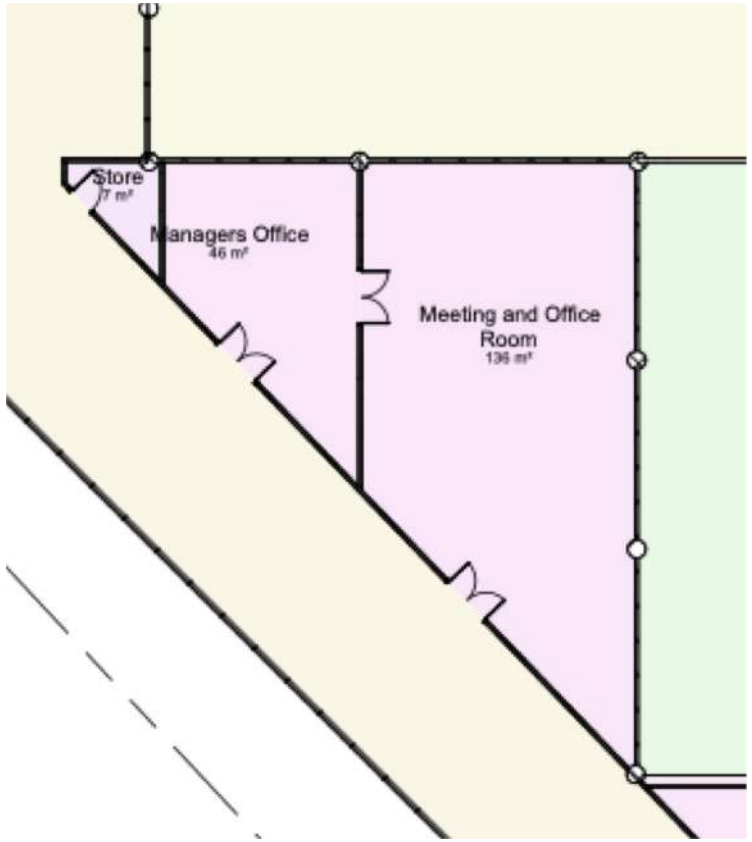


Managers Office & Meeting Room

The managers office is finished with Carpet, painted walls and a feature ceiling.

The managers office also has a lookout window overlooking the swimming pool so natural daylight can shine through.

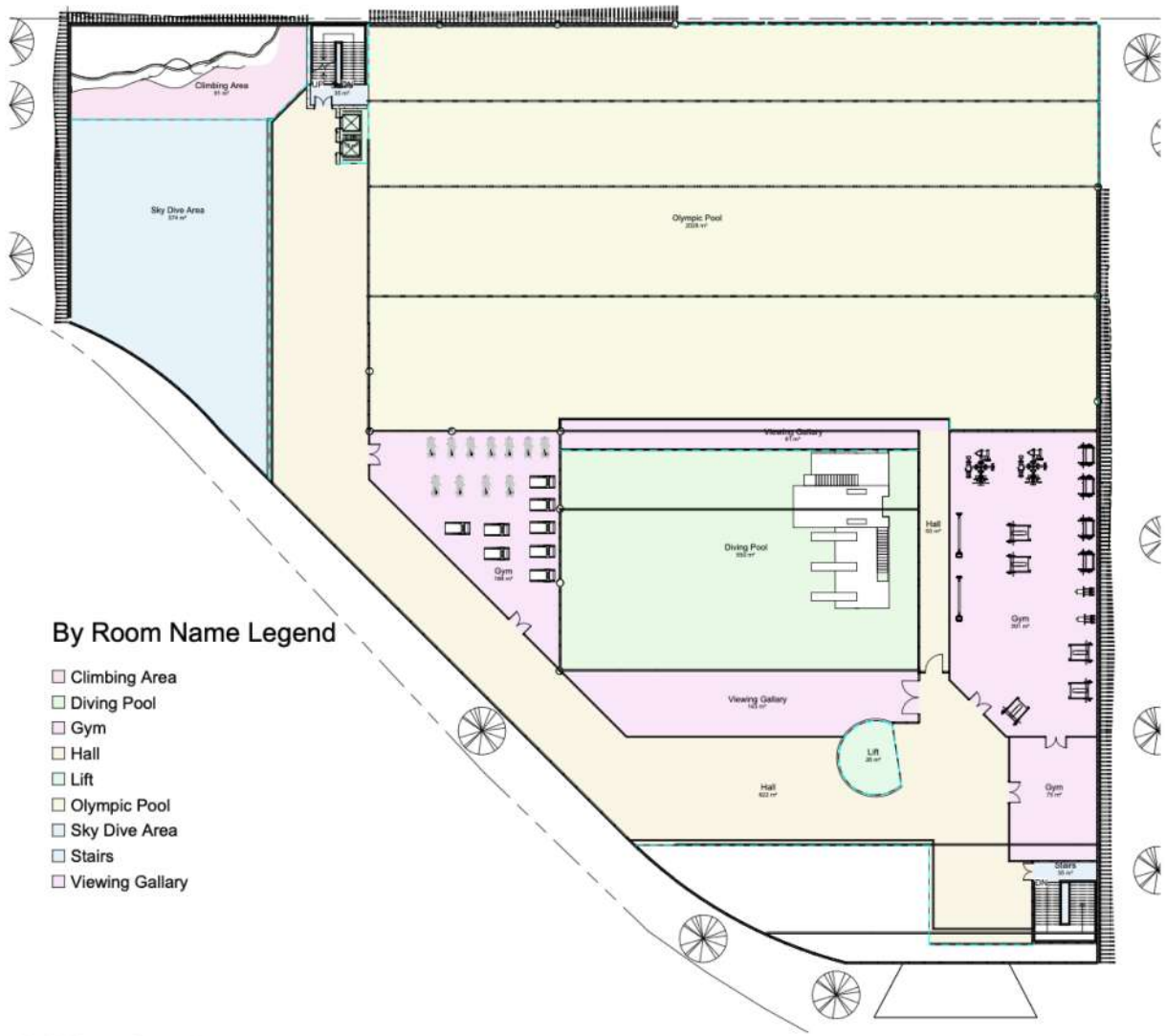
The meeting room is set up as a large open space with a board room type table located centrally to the room and a TV mounted onto the wall.







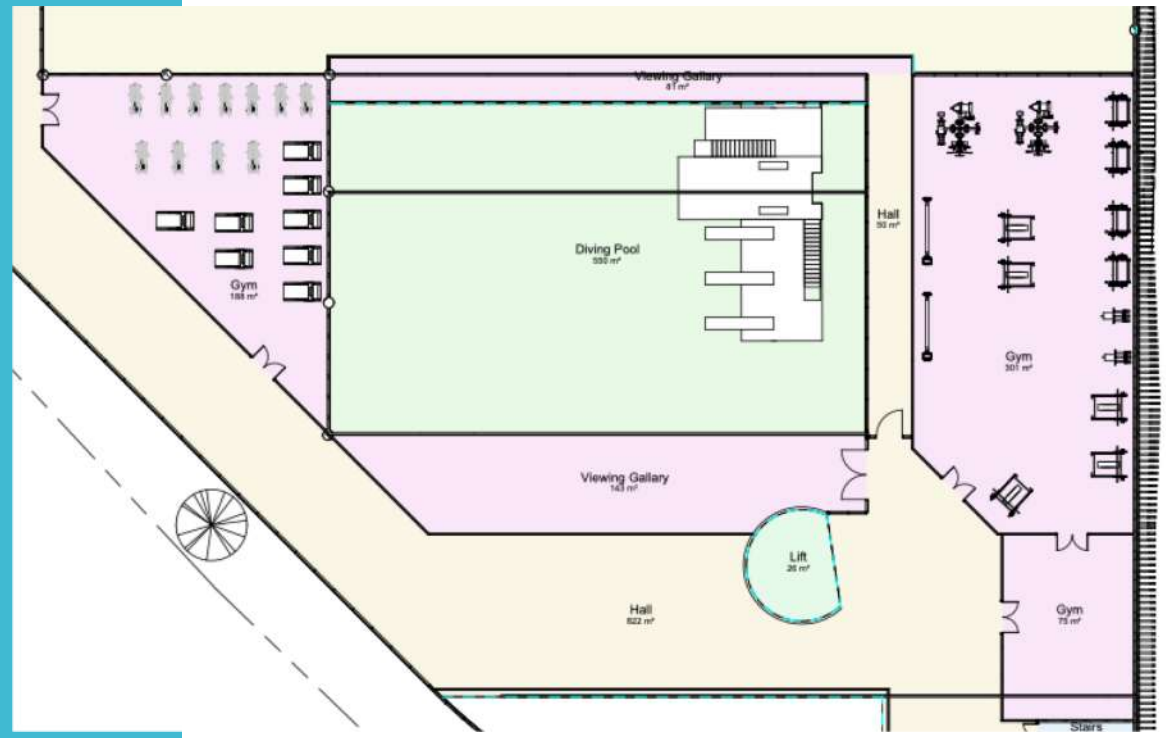
Second Floor



1 **2nd Floor - Room Layout**
1 : 200

The Gyms

The commercial gym on the second floor will be split over two areas, the first being more specific to cardio training with running machines and bikes, the second room will be catered for the use of weights.



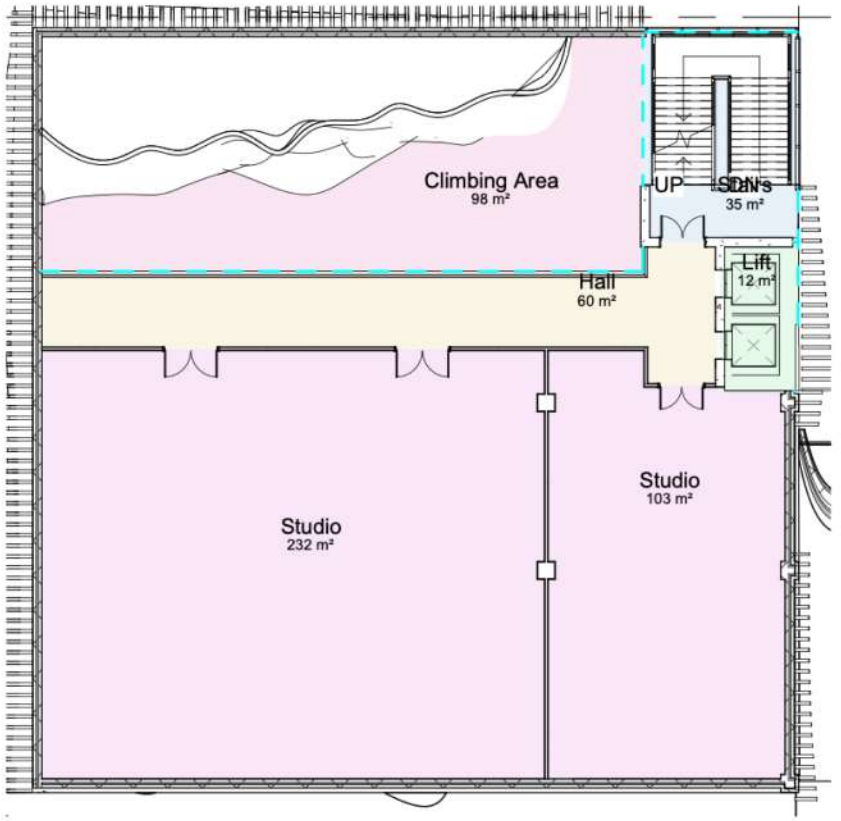




Third, Fourth and Fifth Floors

By Room Name Legend

- Climbing Area
- Hall
- Lift
- Stairs
- Studio

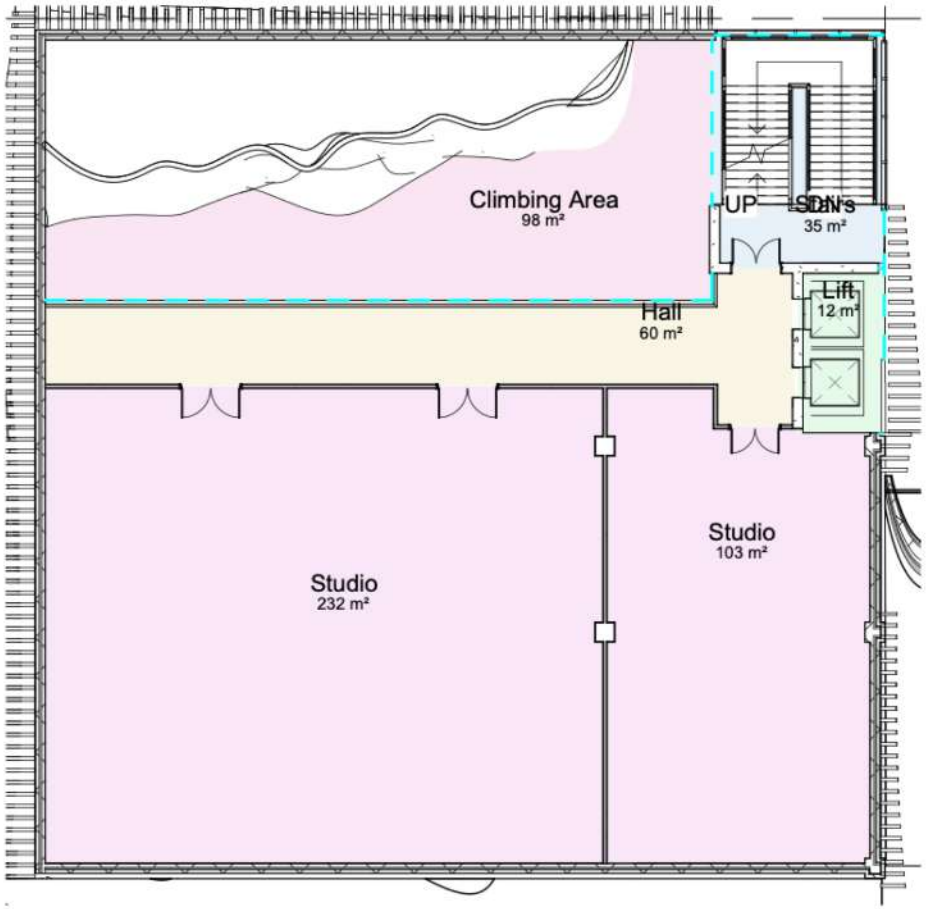


1 3rd Floor - Room Layout
1 : 200

The Studios

The studios on the third, fourth and fifth floors will be situated within the tower block and will have a total of 6 studios.

Within these studios a variety of classes from Spin, Circuits, Yoga, dance and Boxercise will be undertaken.



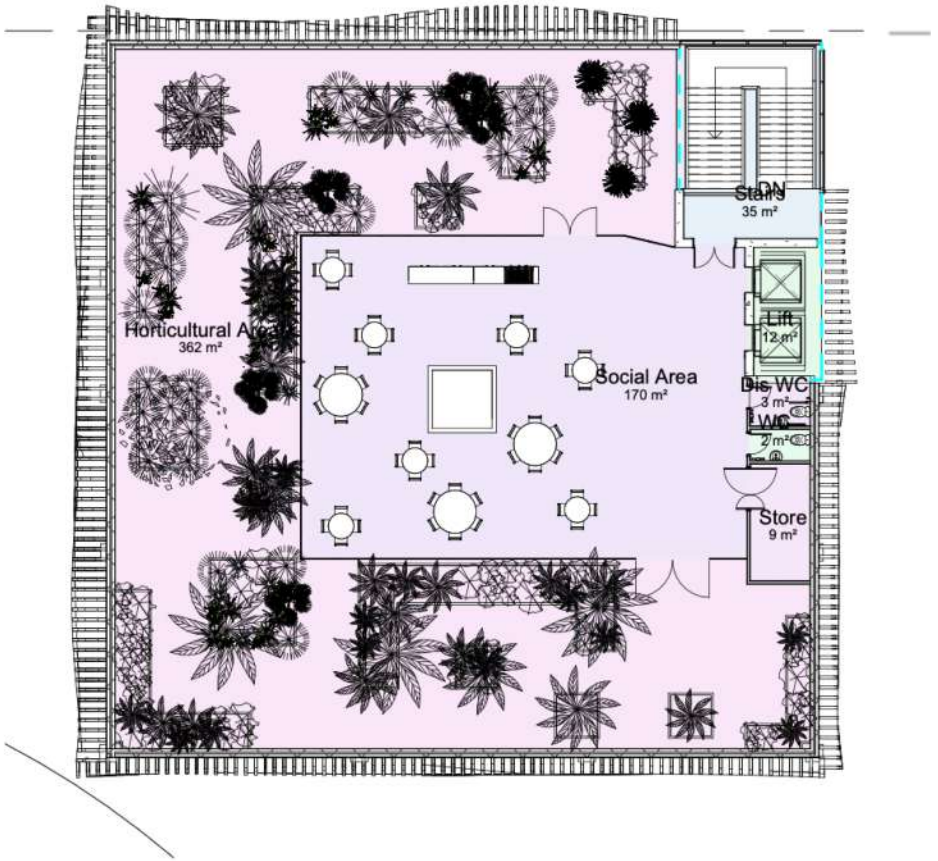




Sixth Floor

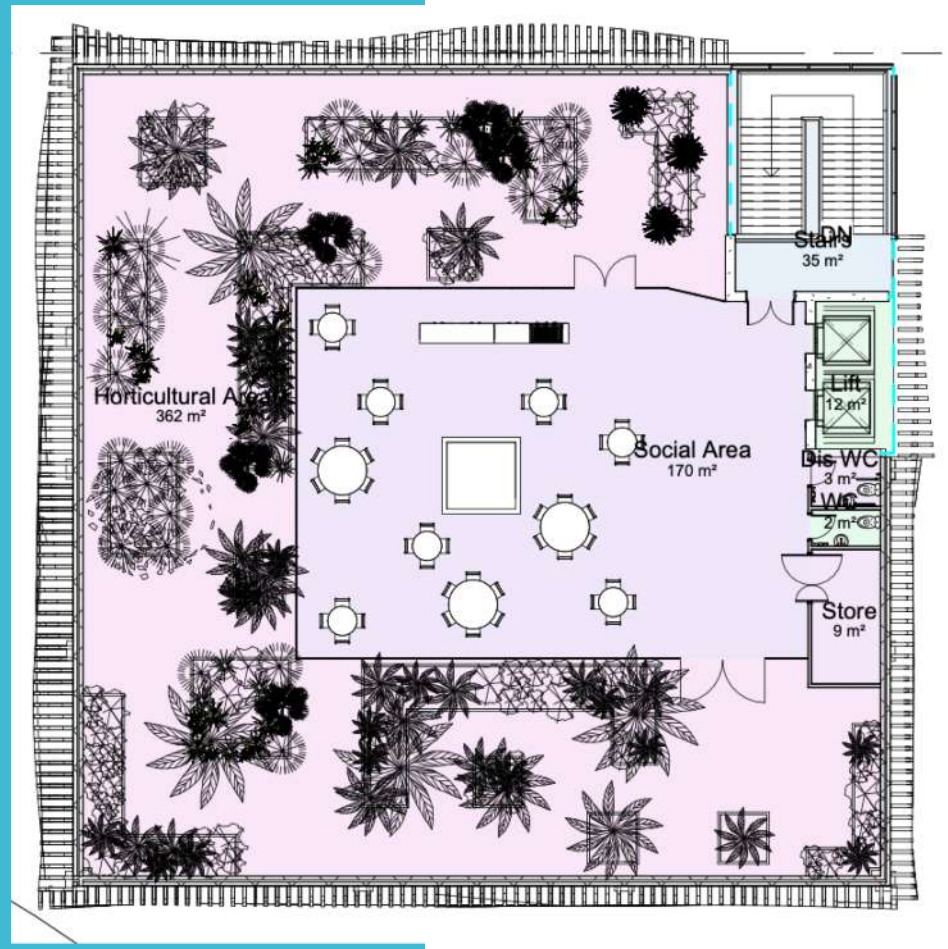
By Room Name Legend

- Dis WC
- Horticultural Area
- Lift
- Social Area
- Stairs
- Store
- WC



4 6th Floor - Room Layout
1 : 200

Roof Level Social Seating Area







SA1 Leisure Centre Project

Build Process Map

COPPERSTONE
CONSTRUCTION

Groundworks – reduced dig & cart away





Controlled material stockpile

For reduced level dig and cart away there will be a number of plant a vehicles to stockpile and control the material as it leaves site via Lorry.



2 Number. 20T excavators



1 Number. Large dumper truck



20T much away lorries on turn around

Groundworks – Piling Mat Install



The Piling mat will expand the extent of site to allow the piling rig to situate itself in a position to access all piles. The mat is usually around 950mm thick depending on the size of piles.



1 Number. 20T excavators



1 Number. Large Roller



Geogrid Material between 150mm hardcore layers

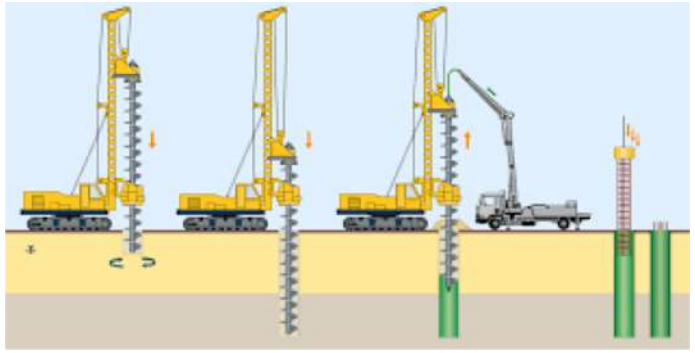


Deliveries of 6F2 Hardcore – 20T of Stone per Lorry

Groundworks – Piling



Piling will commence in the top left hand corner of site and progress backwards exiting the site towards the top right of site when complete.

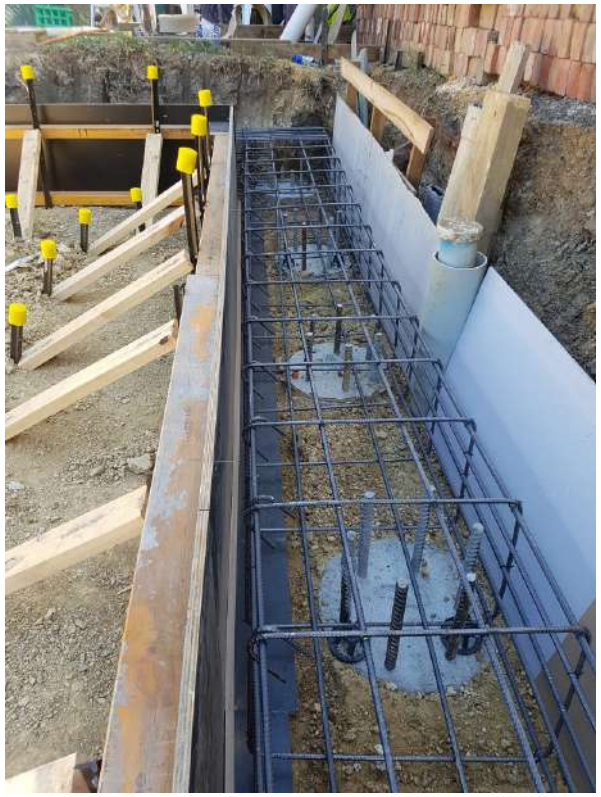




Concrete wagons will back onto site and feed the concrete pump which delivers the concrete through the piling rig and into the open pile.

Groundworks – Pile Caps and Ground Beams





Pecka Fill boards will be used surrounding the beams and pile caps, earth will be backfilled surrounding the beams ready to receive the concrete.





A pile cropper will be used to break out the concrete surrounding the piles and exposing the steel re-bar.

Ground beams and pile caps will be constructed with steel to create the structured foundation.

Groundworks – Basement Concrete Floor





The concrete pour will include the use of a large concrete pump to assist with the delivery of concrete to all corners of the project.





When the ground beams have been poured preparation will begin on the concrete basement floor slab.

Steel re-bar will be fabricated and installed on site, concrete will then be poured by a concrete team.

Steel Frame Install – All Levels





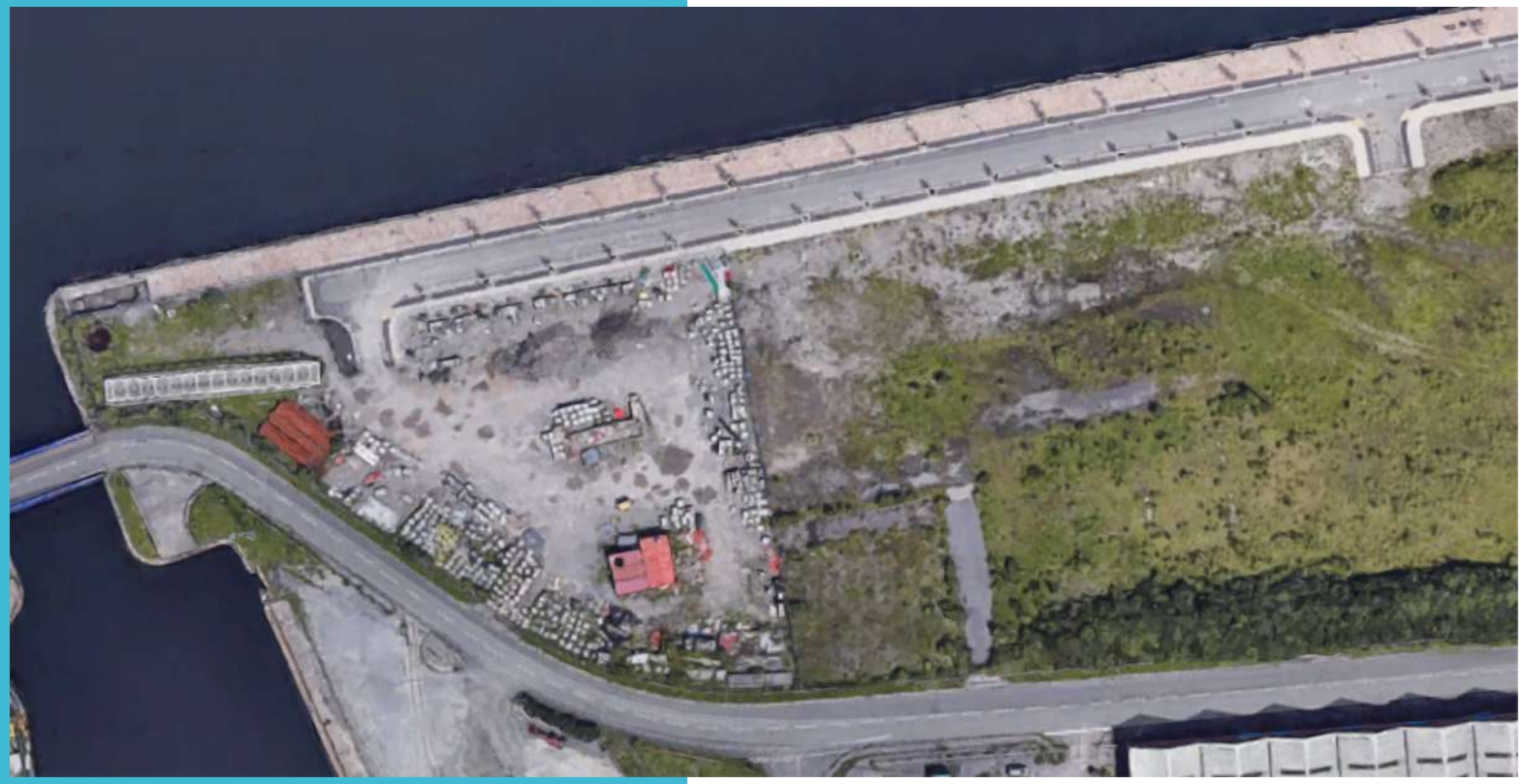
Steel frame installation to be complete to ground floor Level. Concrete floor to be poured for FFL on all floors.





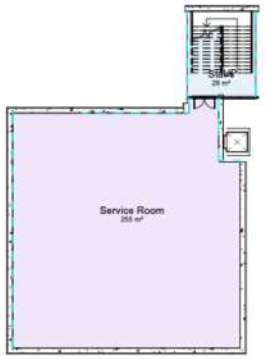
Steel frame installation lifted into position by the mobile crane and assembled by steel erectors using MEWP access to fasten the bolts on connections.

Steel Frame Install – All Levels

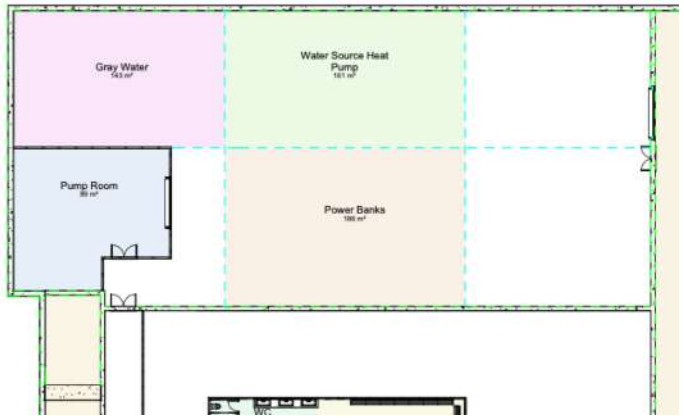


Steel frame installation lifted into position by the mobile crane and assembled by steel erectors using MEWP access to fasten the bolts on connections.

Basement - Plant and Service Rooms









Basement level plant rooms are constructed from dense concrete blocks.

The blocks are offloaded from their delivery trucks via telehandler, all materials must be palletized to enable ease of movement. Pallet trucks are used to distribute the materials through the plant rooms.













Scaffold structures are installed at half of the wall height to allow the bricklayers to finish the walls to the underside of GF soffit.

Concrete plinths are installed for all large plant items to site on.

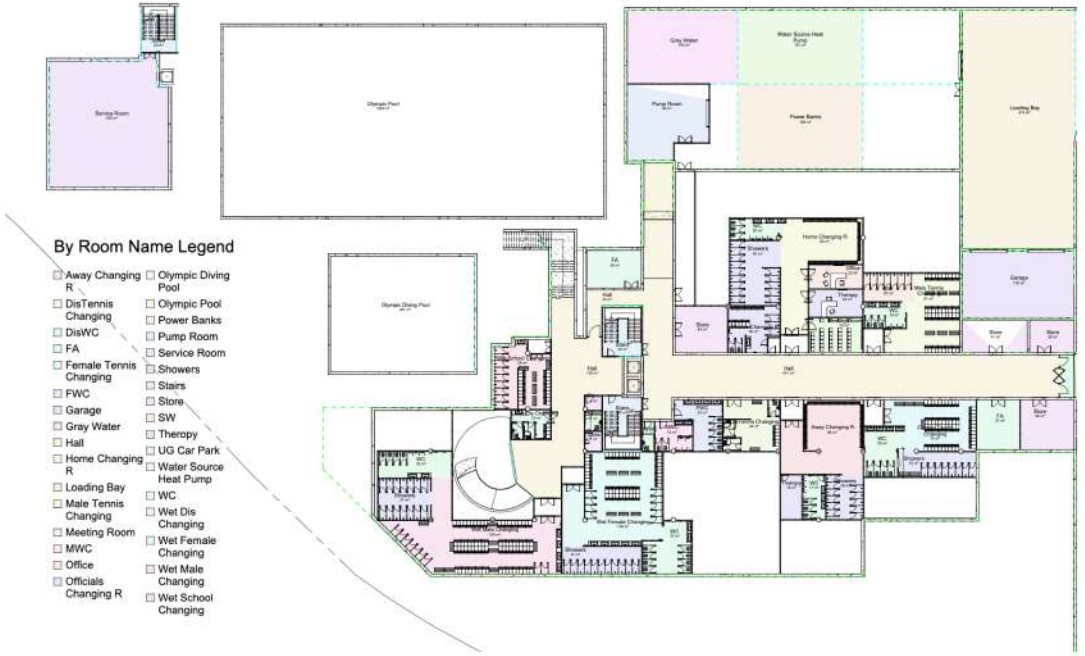
Internal Finishing Contractors

Internal Fit out contractors will have materials delivered via hi-ab offloading vehicles.

Small lightweight materials will be stored in the basement and carried through, pumped on a pallet truck or distributed with an a frame trolley on wheels.

Internal fit out contractors will use A frame ladders and small alloy towers to access areas.





Basement - Room Layout
1 : 200











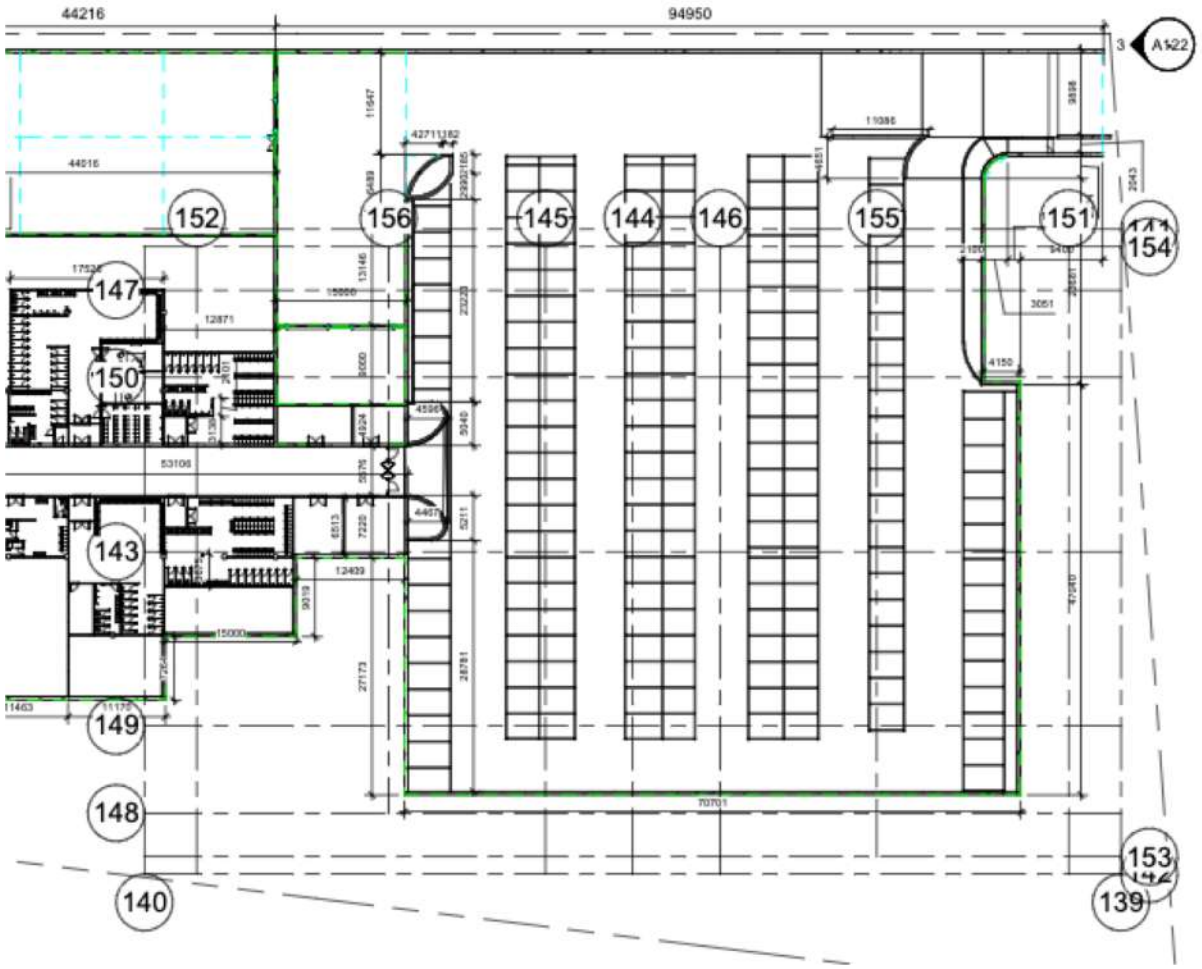
Basement – White Lining to Car Park



White lining vehicle will attend site at the end of the project when the basement has been cleaned out and the dust has settled.

This vehicle will drive into the basement and work its way out until all white line painting is complete. The area should be fully barriered off to prevent anyone from walking in the vicinity of the works.



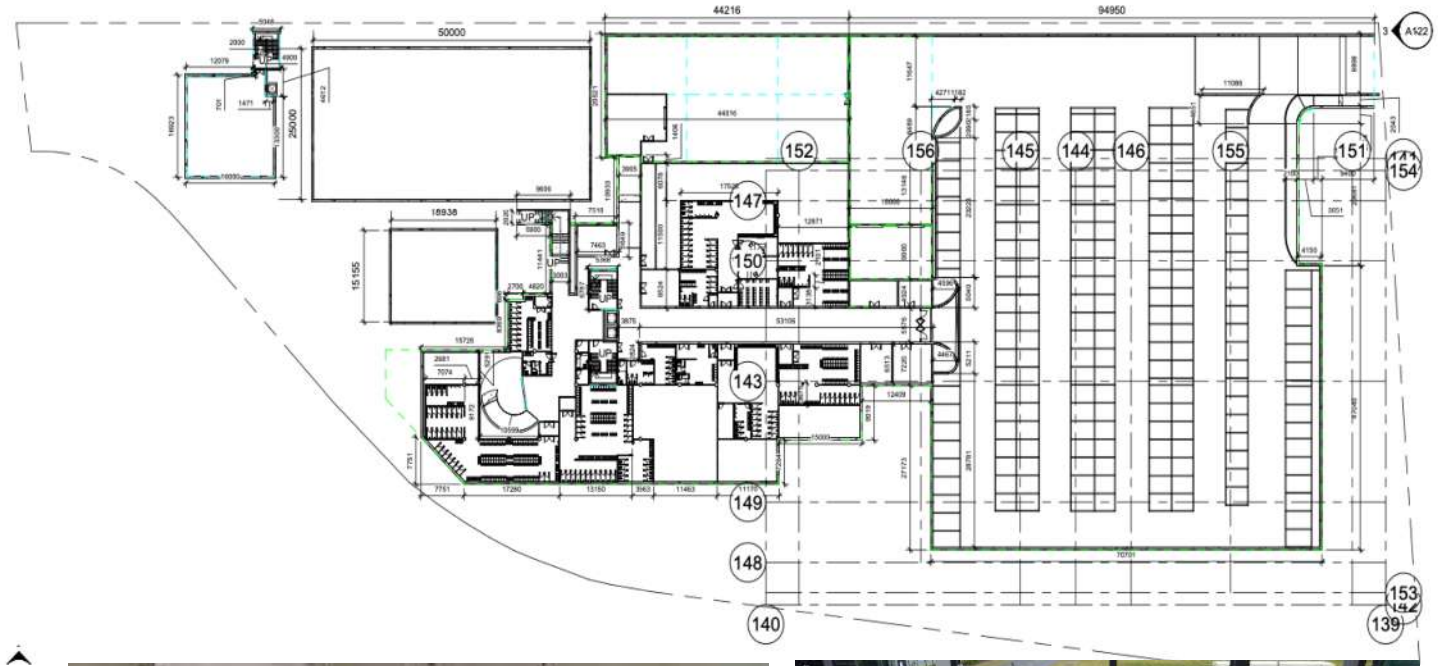


Stairwell Installations

Staircases to be installed on completion of the steel frame installation before the roof coverings are installed.

A mobile crane will assist with lifting the sections of the staircase off the back of a delivery lorry and straight into the stair cores.

The fixers of the staircases will ensure the level and datum's are accurate. Installation will be complete with operatives wearing harnesses and clipped on to a structure above.



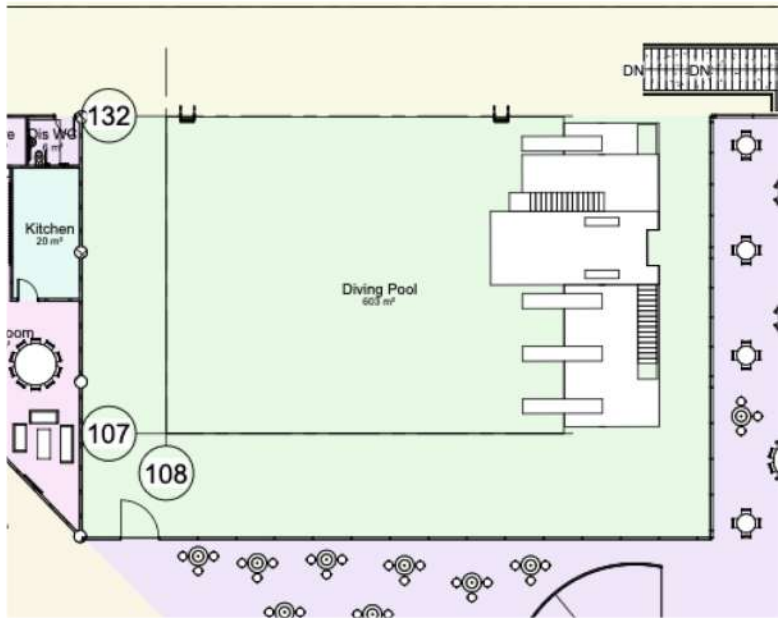




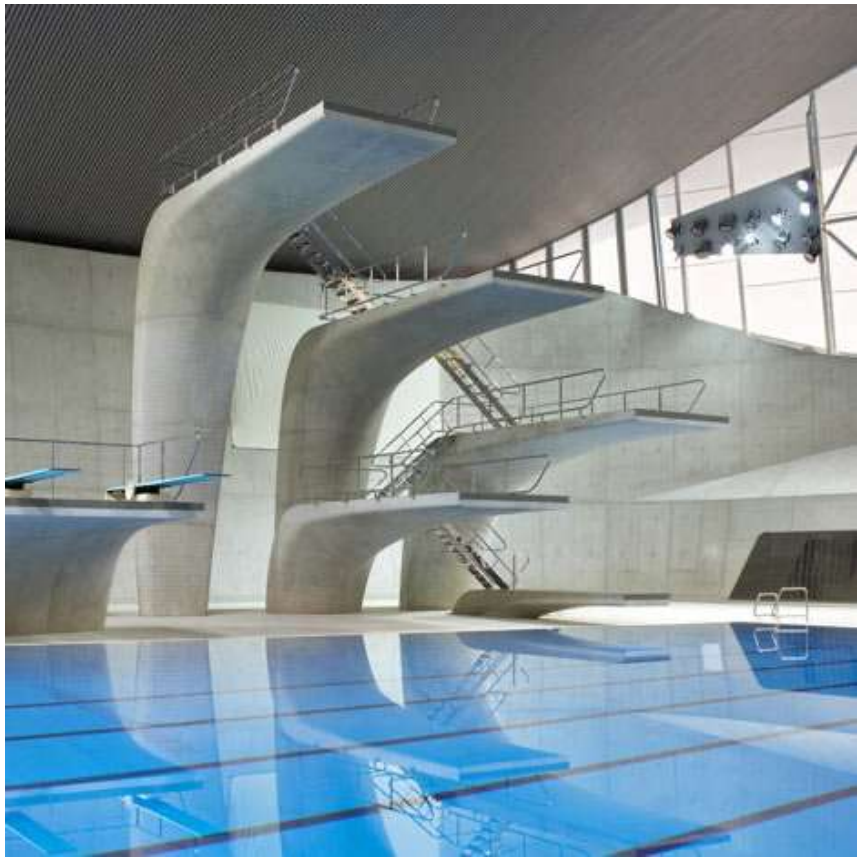
Diving Pool

The concrete framed diving board platforms will be poured in situ. Large timber shutters will be in place to allow the concrete to be place rising 2m each pour until they reach the top.

The pool will be constructed from mass pour concrete walls assembled from the basement just after the pour of the basement slab.

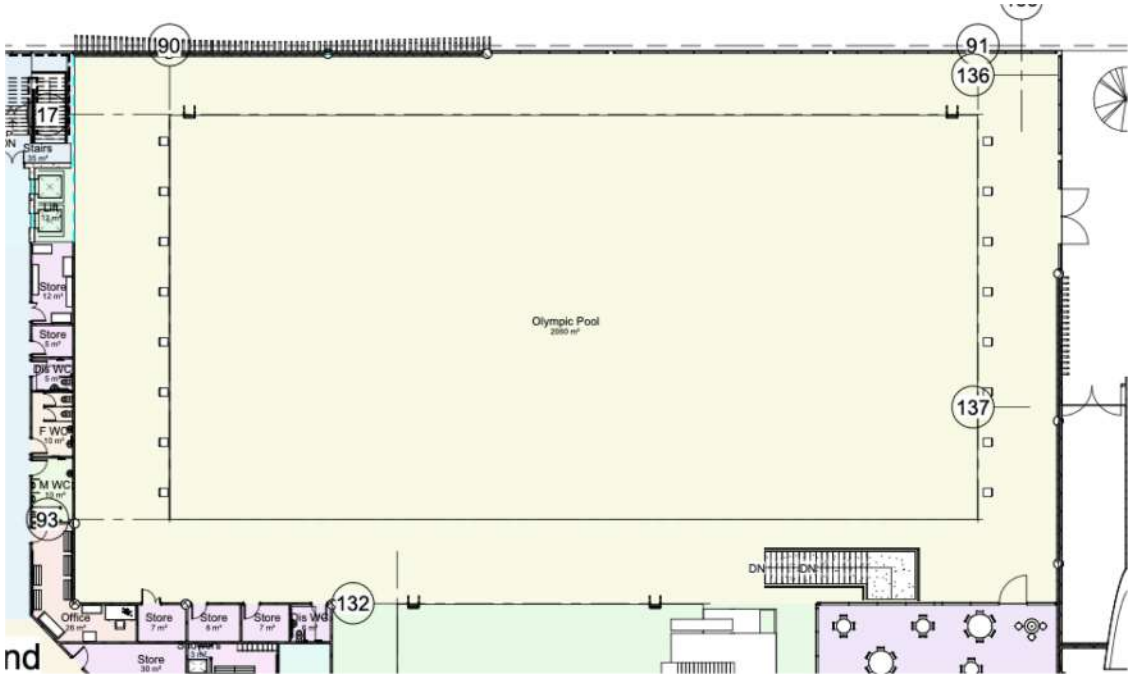






Olympic Pool

The Olympic pool similarly to the diving pool is poured in-situ with large concrete mass pour walls constructed off the basement floor slab.





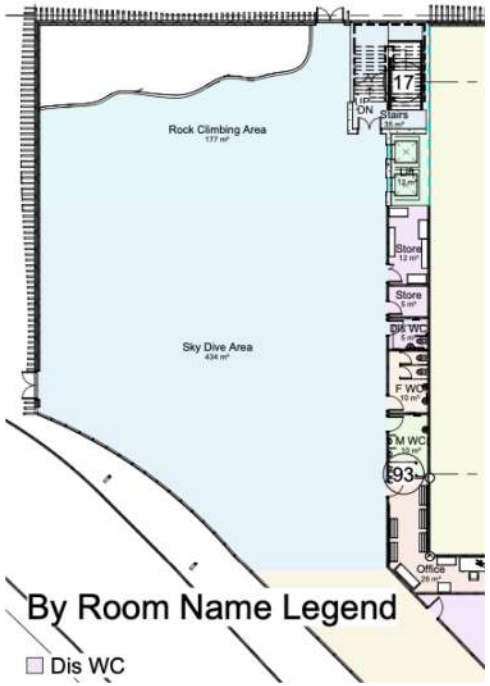




Rock Climbing Wall

The rock climbing wall is constructed from a steel frame structure with plywood fastened over the top of the steel sections. From this anchor points with hand and foot grabs are installed and the boards are then painted.

All steelwork will be lifted in and installed with MEWPS, The plywood and spray painting is also undertaken from a scissor lift of MEWP.









Lifts

The lift components are brought onto site in palletized crates and distributed towards the lift cores.

A scaffold cantilevered structure is installed at the top of the shaft to install 3 steel beams which will assist with the installation of the lift cart.

The cart and rails of the lift are built within the shaft with the operatives building the cart and working from the roof deck.

Lift operators who are working within the lift shaft must be wearing harnesses and be clipped onto structure above to prevent fall.













Roof Installation

The roofing components and materials will be lifted onto the roof sections via Mobile crane. Edge protection handrails will be installed and safety harnesses worn to enable the roofers to access all areas of the roof to install the solar panel roof tiles.

Access MEWPs will also be used to carry materials and install from a safe working platform.











External SFS Weather Defense Wall

SFS or structural framed façade is a metal product that is used to frame between metal structural columns and beams to build the fabric of the external wall, within the stud sits insulation and screwed into the external side of the studs is a weather defense plasterboard type material or cement board.

Access is supplied by large scissor lists and mast climbers materials will be stored and cut at ground level with workers taking the materials up to install.







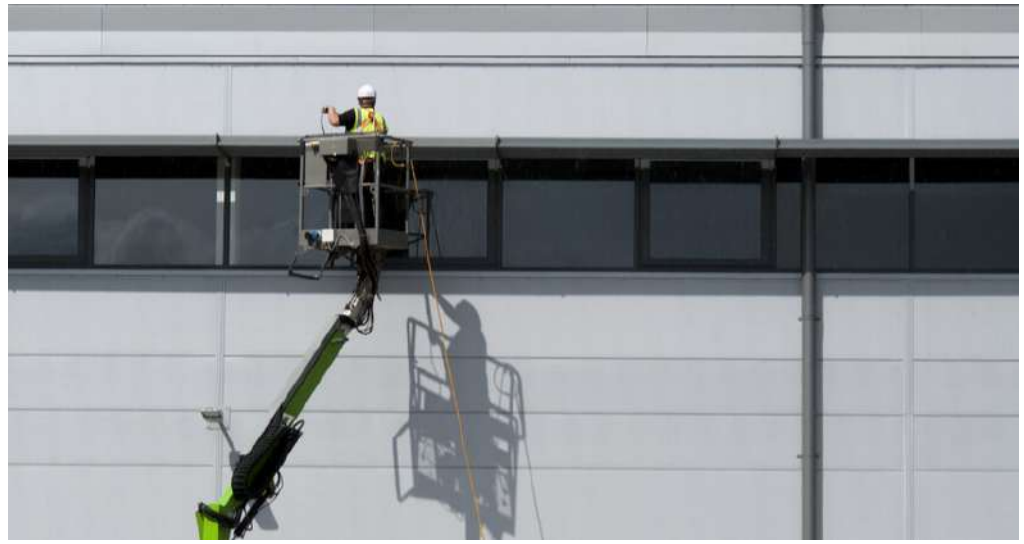


External Cladding

SFS or structural framed façade is a metal product that is used to frame between metal structural columns and beams to build the fabric of the external wall, within the stud sits insulation and screwed into the external side of the studs is a weather defense plasterboard type material or cement board.

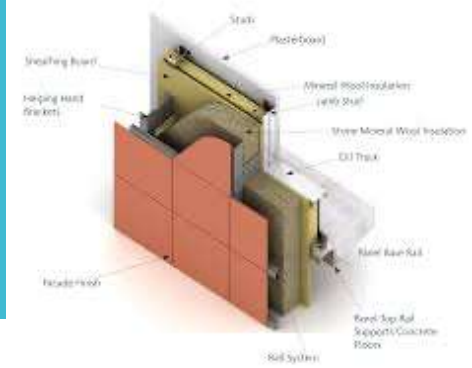
Access is supplied by large scissor lists and mast climbers materials will be stored and cut at ground level with workers taking the materials up to install.











External Rugby Pitch Install

Access to the rugby pitch will be via the main entrance of site, large deliveries of hardcore sand and soil will be delivered and distributed around the pitch.

Tractors and landscaping tools will be used to sow the pitch and aerate the lawn.

White lining will be undertaken when complete to highlight the boundary areas of a rugby pitch.









External Tennis Courts Install

The tennis courts will be constructed using lorry's to deliver hardcore. This will then be covered with a number of layers of rubber matt material.

White lining will be undertaken when complete to highlight the boundary areas of a tennis court.









External Landscaping

External landscaping will be undertaken at the very last period of the build just before the project is handed over to the client.

Small gangs with machines will be on site to install the resin bound pathways, feature patio areas and public seating areas.









MONTH: January 2022

MILESTONES:
1) Ground works Completion 13/02/23



Exclusion zones around working areas to control access into the danger zone.

Activities Key:

- Gateman
- COSHH Stores
- Working Zones
- Site Welfare / Double Stacked.
- Turnstile
- Visitor Parking
- Entrance Gates
- Tool Stores
- Lifting Equip. Stores
- Tower Crane

Not To Scale

COPPERSTONE CONSTRUCTION

SA1 Leisure Centre

Master Programme
Time Slices

Date: 17/01/22

Rev: X

MONTH: January 2022

MILESTONES:
1) Steel Frame works Completion 15/07/23



Exclusion zones around working areas to control access into the danger zone.

Flat bed lorry containing steel sections for install.

Entrance to Basement or Upper portion of the site.

Steel Frame Install

Material Lay-down

Site Toilets

Site Canteen

Managers Office

Designated Smoking Area

Fire assembly point

Additional gated access for skip changes.

Activities Key:

- Gateman
- COSHH Stores
- Working Zones
- Site Welfare / Double Stacked.
- Turnstile
- Visitor Parking
- Entrance Gates
- Tool Stores
- Lifting Equip. Stores
- Tower Crane

Not To Scale

COPPERSTONE CONSTRUCTION

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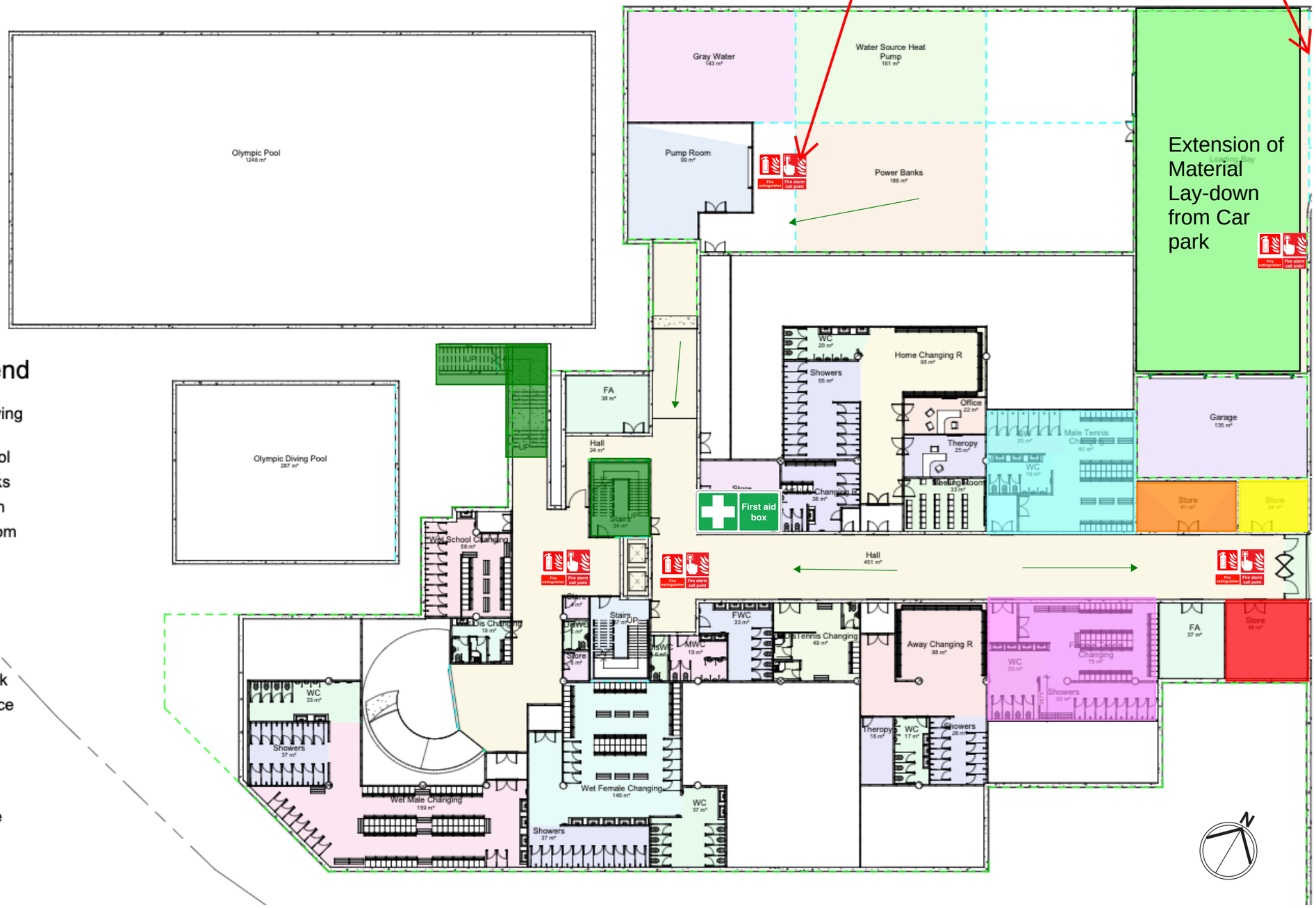
MONTH: February 2023

MILESTONES:
1) Internal Fit out works Completion 04/03/24



Call point and fire hydrant as fire stand in image to the left.

Entrance to Material Loading Bay From Basement Carpark



Activities Key:

- Gateman
- Fire Escape Stairs
- Working Zones
- MALE — Temp Basement Toilets and Changing Room
- FEMALE — Temp Basement Toilets and Changing Room
- Basement COSHH Store
- Materials and Fixings Store
- Tool Stores
- Fire Hydrant Stands

Not To Scale

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