



Existing Property Details

Platting land of Varley Street / Sawley Road

Manchester City Council



Varley Street SEND Secondary School

Every Student
Every Opportunity
Every Chance

Design & Access Statement

jmarchitects
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ISG



MANCHESTER
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London Studio
37 Alfred Place
London, WC1E 7DP
T - 0207 580 5330
London@jmarchitects.net

Manchester Studio
3A, 54 Princess Street,
Manchester, M1 6HS
T - 0161 200 6300
Manchester@jmarchitects.net

Glasgow Studio
50 Bell Street
Glasgow, G1 1LQ
T - 0141 333 3920
Glasgow@jmarchitects.net

Edinburgh Studio
64 Queen Street,
Edinburgh, EH2 4NA
T - 0131 464 6100
Edinburgh@jmarchitects.net

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01 Introduction

jmarchitects

We are an award-winning architectural practice with extensive project experience across the residential, commercial, education, cultural, health and sports and leisure sectors

Since our formation in 1962, we have established 4 studios across the UK in Edinburgh, Glasgow, Manchester, and London, which together have evolved into one of the UK's leading design practices.

Our talented staff are our strength, collaborating and evolving design approaches that respect context and create economic and social value for our clients and the wider community.

By observing places, cultures and contexts we create unique solutions which build on best practice and our ongoing research. In this way our projects become integral parts of their diverse communities and provide a range of environments that support the needs of the individual and the wider community.

We have been working in the residential sector for over 50 years. We have a range of experience including one off houses, high density urban projects, suburban and rural developments for private developers and registered social landlords.

Our range of sector experience allows us to use good design to add value whilst putting the creation of 'place' and 'home' at the heart of our process.

Our work with a number of developers, investors and tenants along with our understanding of current demands and trends has led to a combined experience that allows us to create a holistic approach to all of our projects.

All our services are supported by innovative approaches to design and delivery utilising the latest BIM technologies.

- AJ100 #28 UK Practice, 2020
- BD Education Architect of the Year, 2019
- AJ Health & Wellbeing Architect of the Year, 2019
- AJ Executive Architect of the Year, 2018
- AJ Building of the year 2014 - Glasgow School of Art
- Voted No 1 in Scotland's 100 Best Architectural practices 2014, 2015 and 2018.

Photo: Halycon Way SEN School - Precedent Example Project Completed by jmarchitects



Design Team

jmarchitects - Architects

ISG - Contractor

Ridge - Civil & Structural

Ridge - M&E Engineer

DEP - Landscape Architect

Ridge - BREEAM Consultant

Jensen Hughes - Fire Engineer

Stroma - Acoustic Engineer

jmarchitects



Peter Menken
Project Director



Anastasia Kapagerof
Associate



James Eachus
Architectural Technologist

1.01 Executive Summary

Delivering an exceptional new SEND School for Manchester City Council & the people of Miles Platting.

Project Brief

MCC has outlined a requirement to build a new 150-place Special Educational Needs and Disabilities (SEND) school on Sawley Road in Miles Platting, East Manchester. MCC requires an expert contractor and consultant team to design and deliver the school building and associated external spaces including play areas, car parking and drop off zone, and has specified a desire to replicate the quality and space utilisation of the DfE exemplar school, Halcyon Way in Chaderton.

The school must be delivered in compliance with the Manchester Low Carbon Build Standard and with extensive social, local and economic benefits achieved for local communities. As part of the scope, there is a requirement to re-mediate the contaminated ground and existing mine workings. This also applies to a neighbouring site (Nelson Street) which is to be left as vacant plot upon completion.

Context

The Site in Miles Platting is over 15000m² and sits South of Sawley Road which connects to the main highway - Varley Street as the site is currently known as. This site is relatively flat, but largely overgrown vegetation and trees that encapsulate the site. South of the site hosts industrial facilities, which for the most part are obscured to the tree line. North of the site there is a residential housing off Sawley Road. To the East is the A6010 highway.



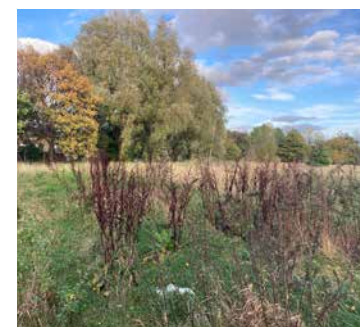
VIEW 1

SOUTH VIEW TOWARDS
JAMES STREET



VIEW 2

SOUTH-EAST VIEW
TOWARDS JAMES
STREET



VIEW 3

NORTH-EAST VIEW
TOWARDS SAWLEY
ROAD



VIEW 4

WESTERLY VIEW
TOWARDS NELSON
STREET



VIEW 5

NORTHERN VIEW
TOWARDS SAWLEY
ROAD

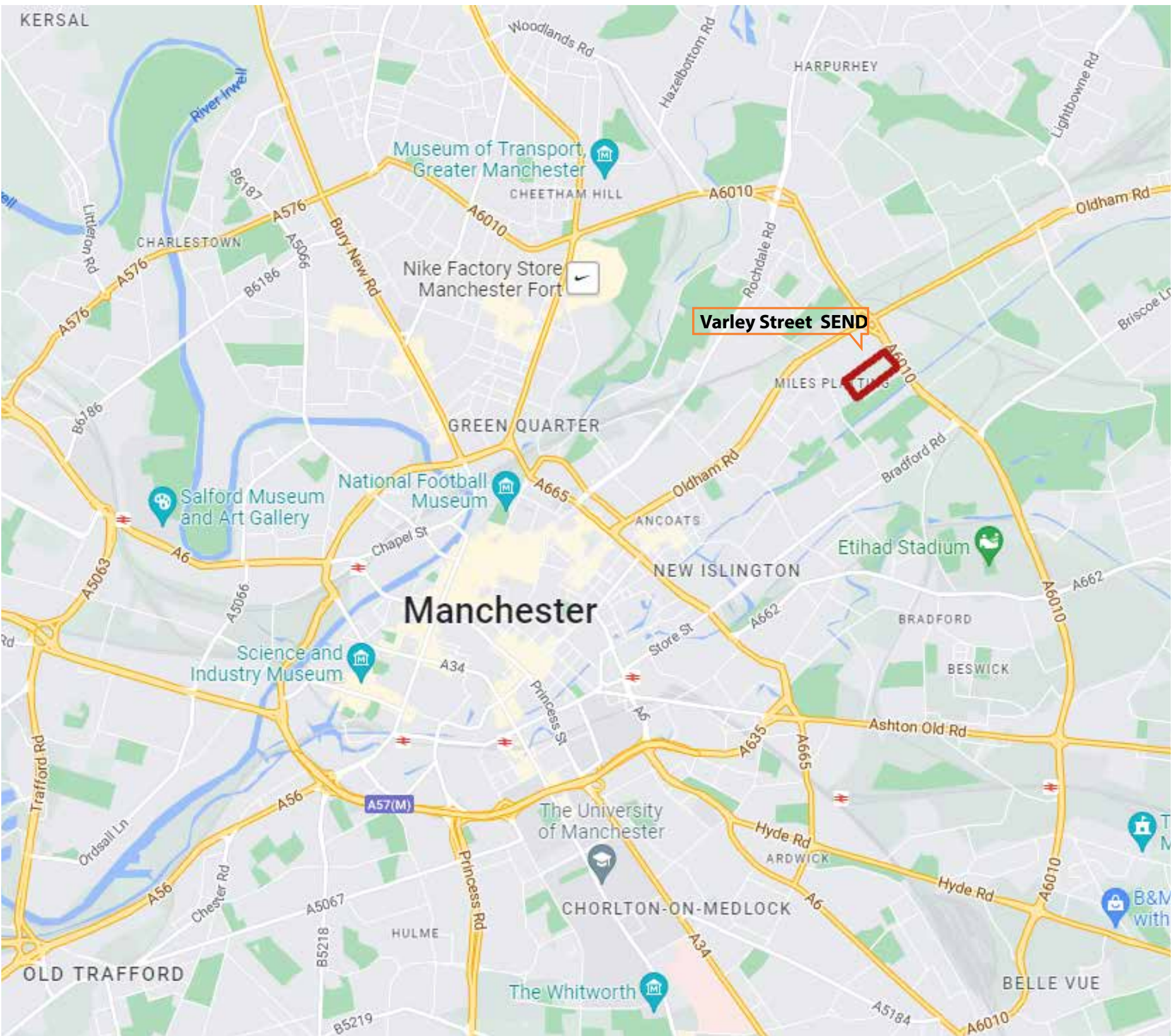


02 Site Overview



2.01 Site Location

The site is brownfield land in Miles Platting to the NorthEast of Manchester, with close proximity to the City Centre. To the north it is bordering a residential area, whilst to the south of the site there are industrial units. A main artery road to the east ensures accessibility to the site and to the west there is future expansion potential.



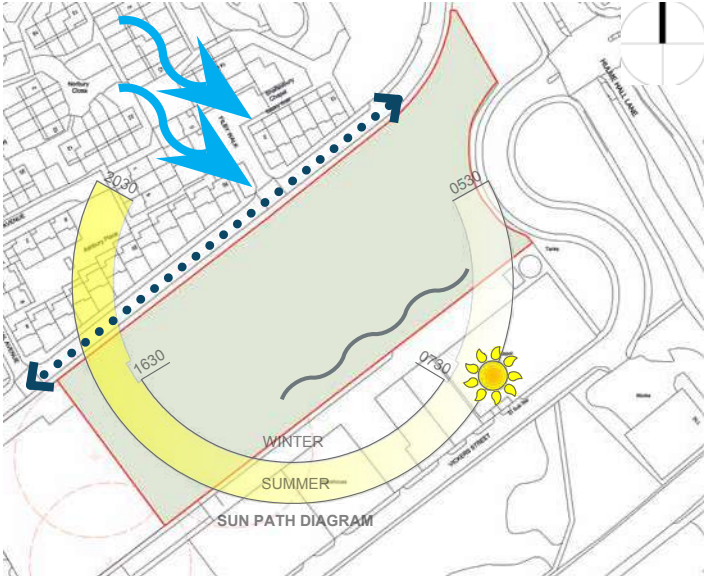
2.02 Site Analysis

Site Analysis

Building Orientation



Micro climate & Sustainability



- Permanent Area/proposed site boundary
- Main vehicular artery
- - - Pedestrians flow
- ~ Wind Direction
- ~ Noise & pollution

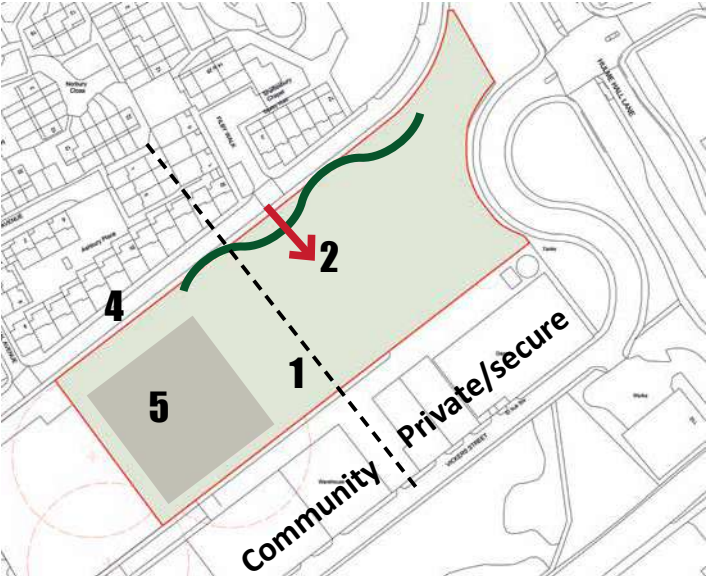
Sustainability Requirements, Targets & Aspirations:

- BREEAM "Excellent" requirements by MCC
- NZCiO target requirements by MCC
- Sustainable travel considerations and provision

Considerations:

- PVs
- Air source heat pump
- Habitats
- etc.

Planning Feedback



- ~ Natural screening
- Access from Sawley Rd

1. Out of hours community use, with parking allowance
2. Preferred access from Sawley Road
3. Natural screening to Sawley Rd
4. Parking defined to:
 - 76 cars (including 8 accessible and 8 EV Charging)
 - 16 minibus spaces
 - Drop off zone
 - 14 cycle spaces

Risks



- Mines / unstable ground
- Lowest risk building site area

1. Hazardous substances in made ground
2. Coal mining activity & glacial till
3. BREEAM excellent and NZCiO
4. Non-ambulant secondary SEND (as opposed to Halcyon which is an ambulant primary school)

2.03 Illustrative Site Layout

LEGEND

- 6 No. Spaces for car drop off / pick up
- 6 No. Minibus parking and drop off area
- 60 No. Staff and visitor 2.4m x 4.8m parking bays
- 8 No. Accessible 3.6m x 6m parking bays
- Deliveries and service compound (Size TBC following vehicle tracking)
- Hard ball games area with porous macadam surface. 37m x 18.5m to accommodate range of standard line markings (To be agreed)
- 10no Minibus parking bays
- Hard and soft social spaces - separated into 3 external zones for individual cohorts for pupil management and surveillance
- Space for external classroom enclosed by seating and tree planting.
- 7 No. cycle stands (14 No. Spaces)
- 8 No. Electric vehicle charging bays
- Pedestrian and cycle access point
- Primary vehicular access through secure boundary line with lockable gates
- Primary pedestrian access through secure boundary line with lockable gates
- Primary vehicular exit point through secure boundary with lockable gates
- Bin Store (size and capacity tbc)
- Existing trees retained where possible, planting enhanced with clearance of dense overgrown scrub and replanted with understory mixture of native and ornamental shrubs, herbaceous perennials and bulbs
- Existing trees to boundary cleared to facilitate access and construction. Trees of particular value retained otherwise replanted with large native street tree specimens
- Native hedgerow to southern boundary to provide soft screening to adjacent industrial area.
- Indicative location of underground 3m diameter sprinkler tank



2.04 Proposed Landscape Layout

LEGEND

Surfaces

-  Pedestrian asphalt to footpaths and hard play area
-  Vehicular asphalt to parking area, access roads and service yard
-  Porous pedestrian asphalt surface to hard surface games court

Boundaries

-  Secure Line: 2.4m height weldmesh fence (Colour TBC)
-  2.0m Close-boarded timber fence
-  1.2m Vertical bar railings (Colour TBC)
-  1.2m Timber post and rail fencing

Soft Landscaping

-  Existing trees to be retained (TBC)
-  Existing trees to be removed (TBC)
-  Proposed tree planting - 14-16cm girth
-  Proposed tree planting - 10-12cm girth
-  Native hedge 60-80cm height
-  Ornamental planting beds, 2-3L stock
-  Grass seeding: Eco-rich amenity seed mix
-  Grass seeding: Flowering meadow mix

Landscape Features

-  External benches TBC
-  Cycle store
-  EV Charging 8No.
-  Accessible parking bay 8No.
-  Parking bay 60No.



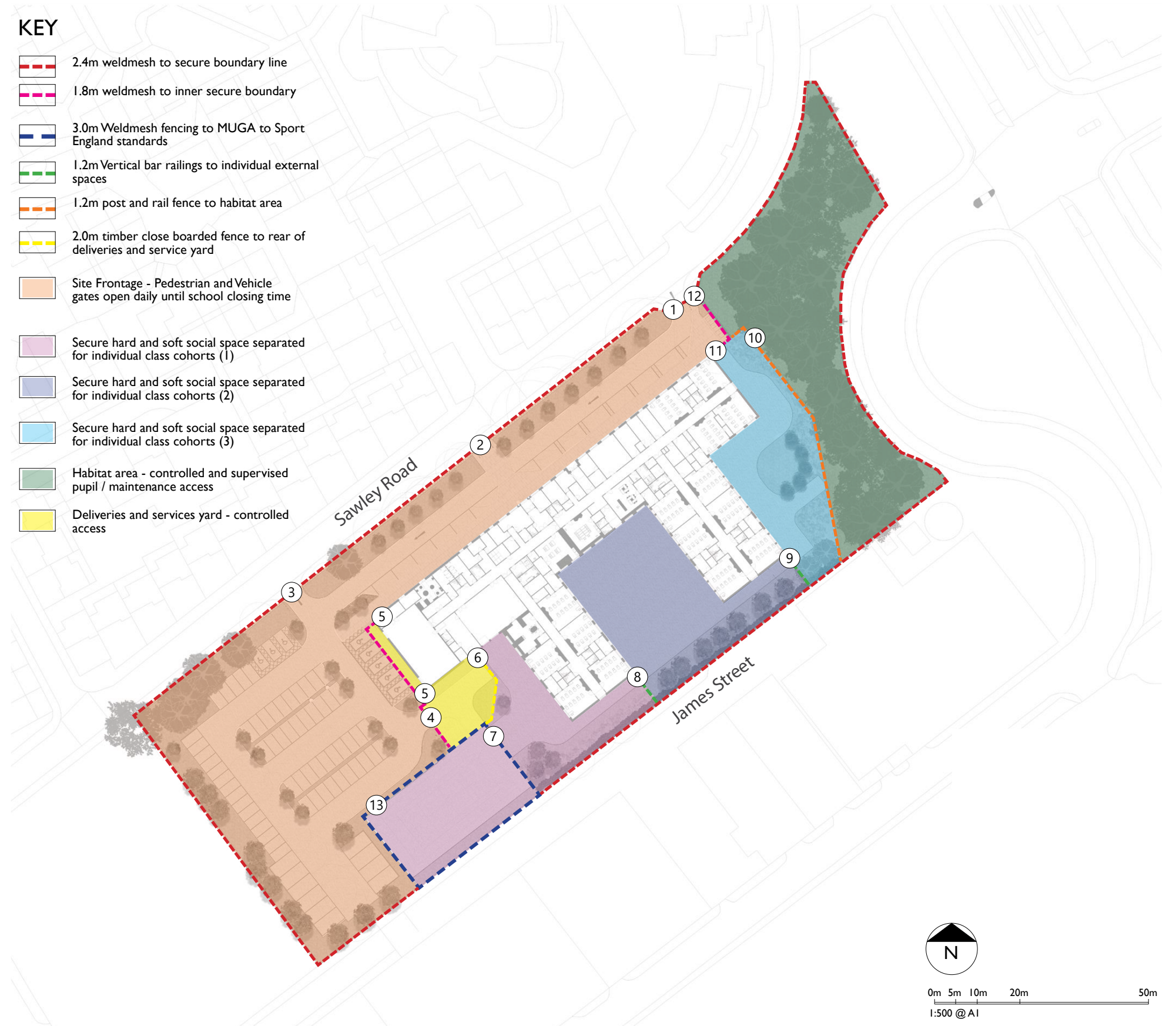
2.05 Proposed Security Strategy

GATE SCHEDULE

1. Double leaf vehicle entrance gate - Open during school day and community use. Locked overnight.
2. Double leaf pedestrian access gate. Open during school hours. Locked overnight.
3. Double leaf vehicle exit gate - Open during school day and community use. Locked overnight.
4. Double leaf service yard vehicular access gate - Controlled access, locked at all times except for maintenance and deliveries as part of regular school operations
5. Single leaf service yard pedestrian access gate - Controlled access. Locked throughout day and night.
6. Single leaf service yard pedestrian access gate - Controlled access. Locked throughout day and night.
7. Double leaf ball court access - open access for pupils
8. Single leaf pedestrian gate between external areas, lockable to allow staff to manage individual areas of external social space
9. Single leaf pedestrian gate between external areas, lockable to allow staff to manage individual areas of external social space
10. Single leaf pedestrian access gate to habitat area. Lockable to allow supervised staff access.
11. Double leaf pedestrian gate to allow emergency vehicle access to rear of school through secondary secure line. Locked at all times.
12. Single leaf pedestrian gate through secure line - open during school day and community use. Locked overnight
13. Single leaf pedestrian emergency access gate through ball court area - Locked at all times

KEY

-  2.4m weldmesh to secure boundary line
-  1.8m weldmesh to inner secure boundary
-  3.0m Weldmesh fencing to MUGA to Sport England standards
-  1.2m Vertical bar railings to individual external spaces
-  1.2m post and rail fence to habitat area
-  2.0m timber close boarded fence to rear of deliveries and service yard
-  Site Frontage - Pedestrian and Vehicle gates open daily until school closing time
-  Secure hard and soft social space separated for individual class cohorts (1)
-  Secure hard and soft social space separated for individual class cohorts (2)
-  Secure hard and soft social space separated for individual class cohorts (3)
-  Habitat area - controlled and supervised pupil / maintenance access
-  Deliveries and services yard - controlled access



2.06 Access & Circulation Strategy

Access Strategy

There are currently only two clear access points into the site. The first is into the western end from Nelson Street as previously described and is suitable for large vehicles.

The second is from James Street, at the point adjacent to the barrier with the private section of road and would also accommodate vehicle access.

Operating Schedule

Operating hours Monday - Friday
- 7.30am to 6pm

Pupil Hours
- 8.45am - 3.30pm

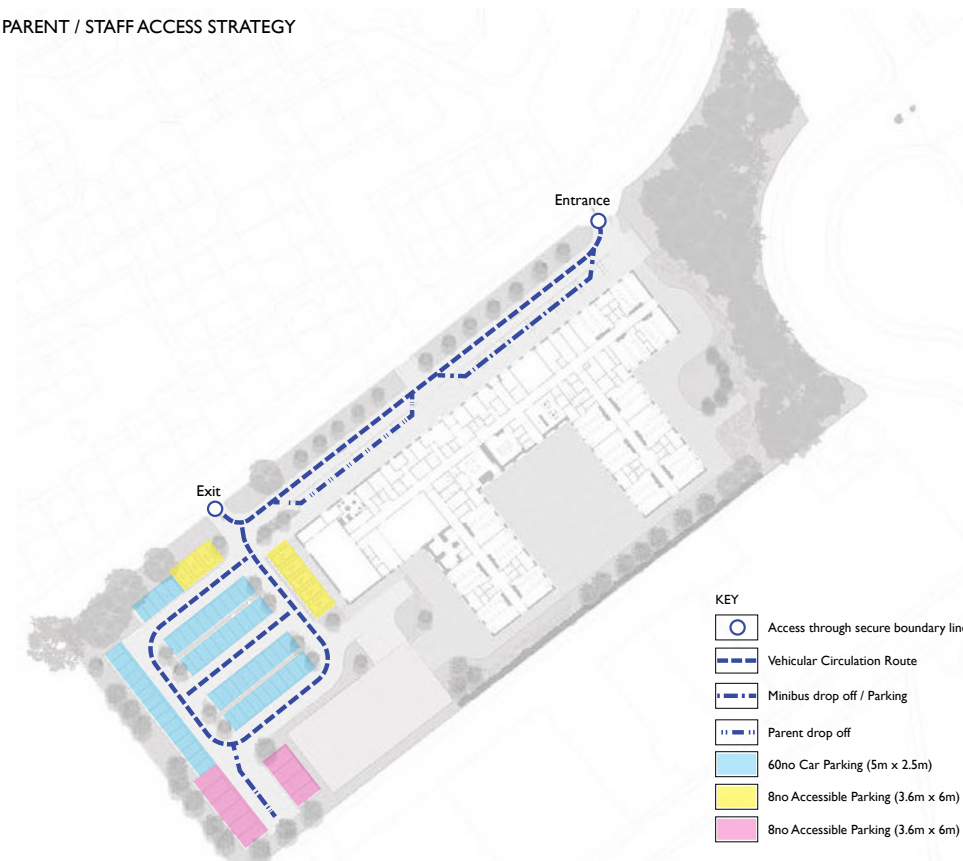
Operating hours Saturday - Sunday
- Saturday Community Access 9am-12pm
- Sunday Closed

Deliveries / Waste

Frequency
- 2/3 times per week

Times
Monday - Friday between 7.30am - 8.30am and 3.30pm - 6pm

PARENT / STAFF ACCESS STRATEGY



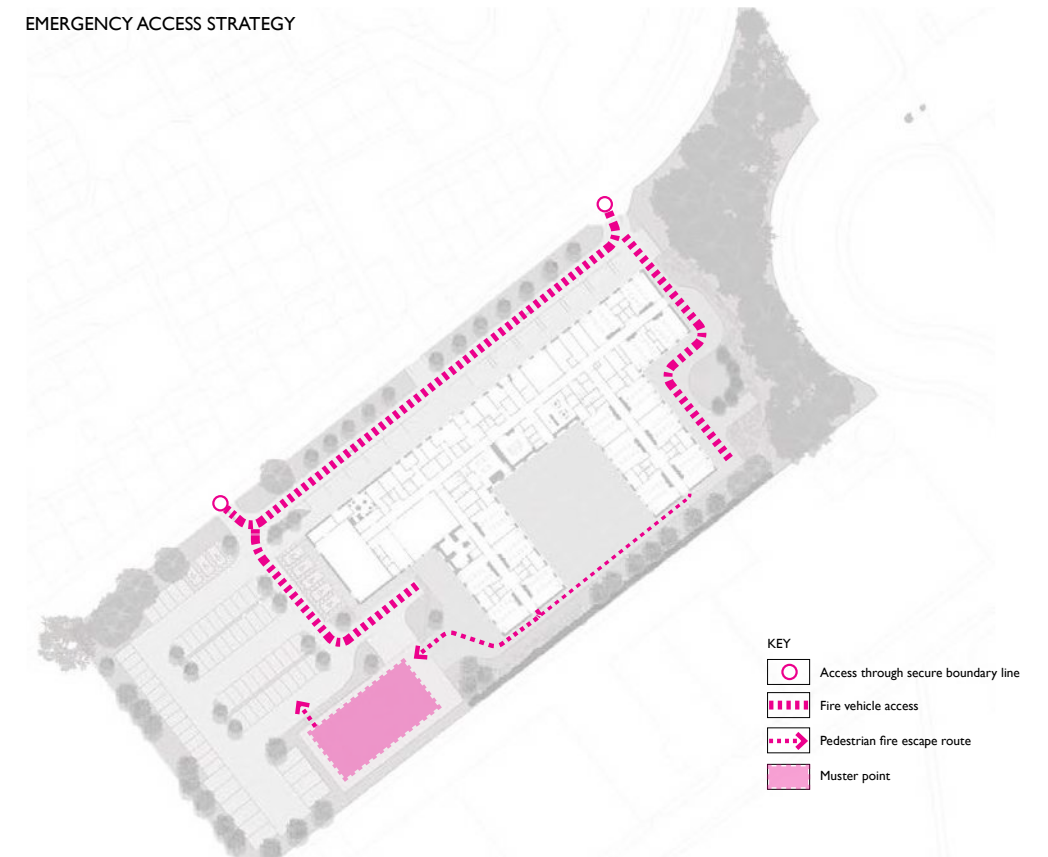
PEDESTRIAN / CYCLE ACCESS STRATEGY



DELIVERIES AND BIN COLLECTION ACCESS STRATEGY



EMERGENCY ACCESS STRATEGY



2.07 Passive Design Analysis

- 

Free heat in winter from solar gains with predominant façades facing south and limited overshadowing
- 

Simple building form for the warm spaces with a low exposed surface area

Due to single storey requirement and site availability, this is the most efficient east-west configuration
- 

High levels of insulation

Insulation and build-ups to GF, walls and roof will all meet or exceed required target.
- 

An extremely airtight building fabric

We are required to meet the ambitious air tightness target of 3
- 

Significantly reduced thermal bridges

All thermal bridges minimised or eliminated.
- 

High performance triple glazed windows with window proportions that are based on orientation

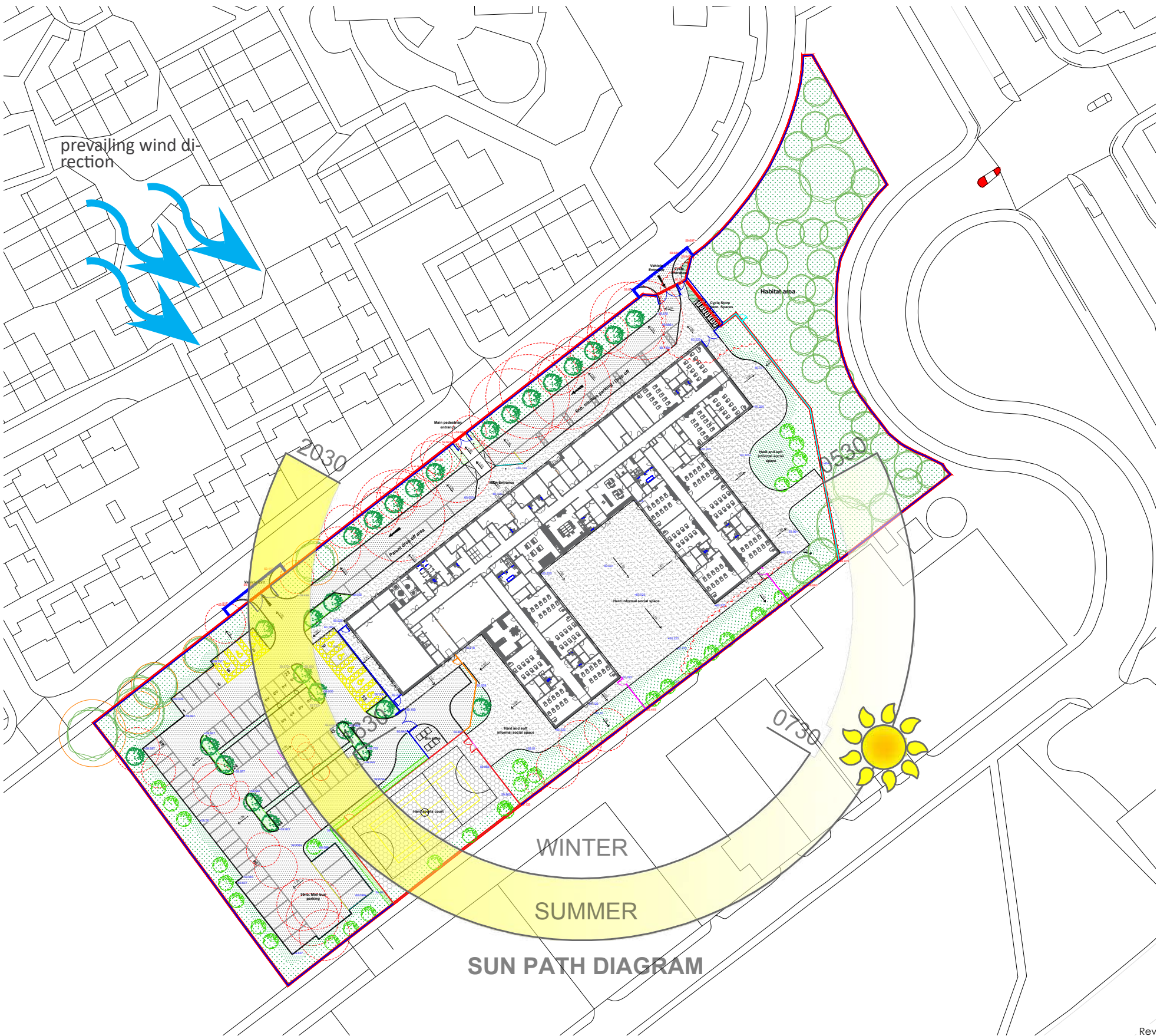
Windows currently under development to meet thermal and acoustic criteria
- 

Opening windows for natural purge ventilation, with the ability to cross ventilate

Fixed windows fulfil required performance criteria, and additional opening vents allow for, to provide extra comfort and purge ventilation.
- 

Efficient background mechanical ventilation with heat recovery (MVHR)

Provided to all teachin spaces



03 Layouts

Halcyon Way 2-storey layout

The Employer's requirements originally asked for a likeness to an existing prototype school. The layouts, adjacencies and the form of the building took cognisance of the existing school, and informed the optimal layout configuration of the new proposed school.

The single storey allows for best use of all facilities, equally accessible for all pupils regardless of their abilities.

Whilst reflecting the adjacencies of a prototype school, the layouts had to change from a fully ambulant Primary Facility to a partially (50/50) non-ambulant provision, which naturally requires reconfiguration and adjustments accordingly, to allow for the best utilisation of areas for a purpose built secondary SEND facility.

These diagrams showcase the departmental adjacencies for a single storey layout. These allow for 3No potential cohorts, each catering for the individual needs of the respective cohort. The grouping of those cohorts ensure ultimate flexibility for the provision of different SEND needs. The U-shape configuration allows equally for containment and also passive supervision of each cohort, whilst facilitating close proximity for all to centrally located shared teaching and social spaces.

The cohorts are zoned around a central external teaching area, allowing equal opportunity for use and direct access.

The admin areas are placed to ensure passive supervision, whilst also strategically located to facilitate secure zoning and opportunity for out-of hours community use.

3.01 Departmental Adjacencies

Varley Street Proposed single storey layout

Teaching Wing 01

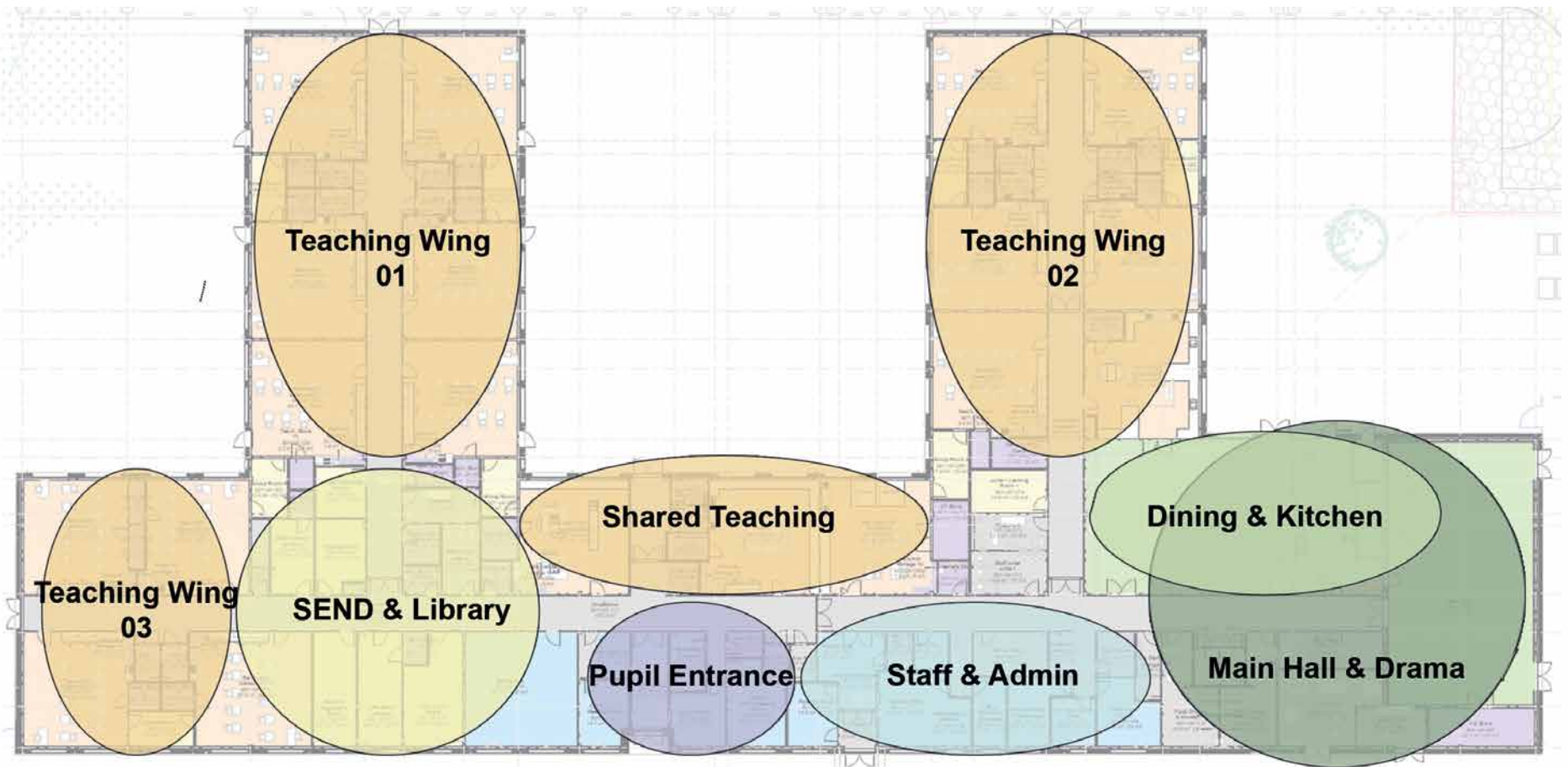
Retained cluster of classrooms like-for-like Halcyon Way, only relocated two classrooms to suit new layouts. Created dedicated cohort wing 1

Teaching Wing 02

Retained cluster of classrooms like-for-like only changing orientation. Created dedicated cohort wing 2

Dining & Kitchen

Retained layout and ensured close proximity to Main Hall to work in the same way as Halcyon. Zoning also aids community access and use as well as separation of communal outdoors space.



SEND & Library

Retained all adjacencies with linear configuration instead of across a corridor

Pupil Entrance

Retained adjacencies located to best suit building orientation and site logistics

Staff & Admin (Main Entrance)

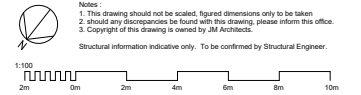
Retained adjacencies but instead of across the corridors grouped together in a linear configuration.

Main Hall & Drama

Retained Main Hall, stores & Drama studio adjacencies. Double height spaces works well with massing, whilst also creating sense of place. Zoned together with communal areas for out of hours use.

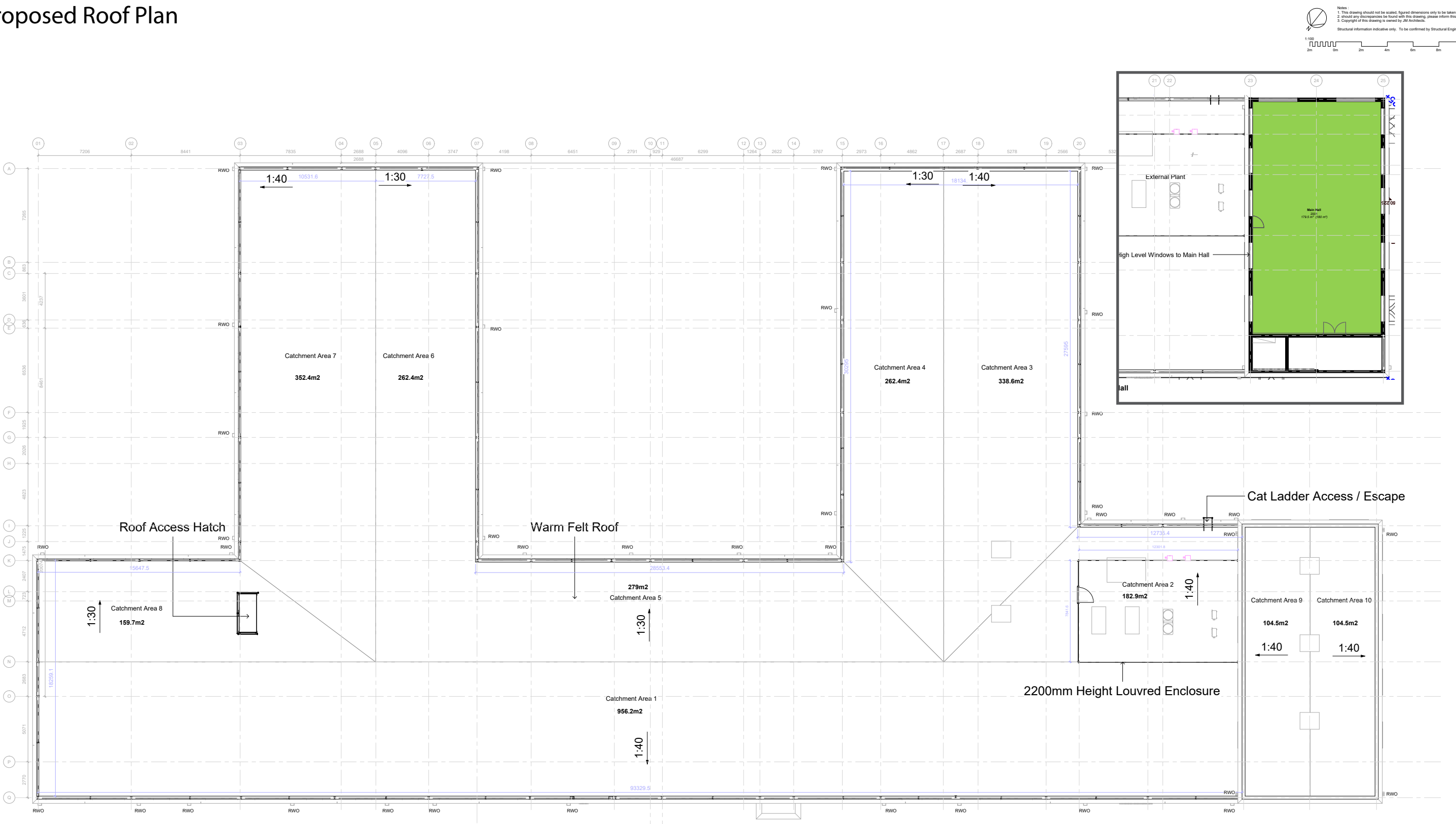
3.02 Ground Floor Plan

Proposed Ground Floor Plan



3.03 Roof Plan

Proposed Roof Plan



3.04 Access Strategy

Pupil Access & Movement Strategy

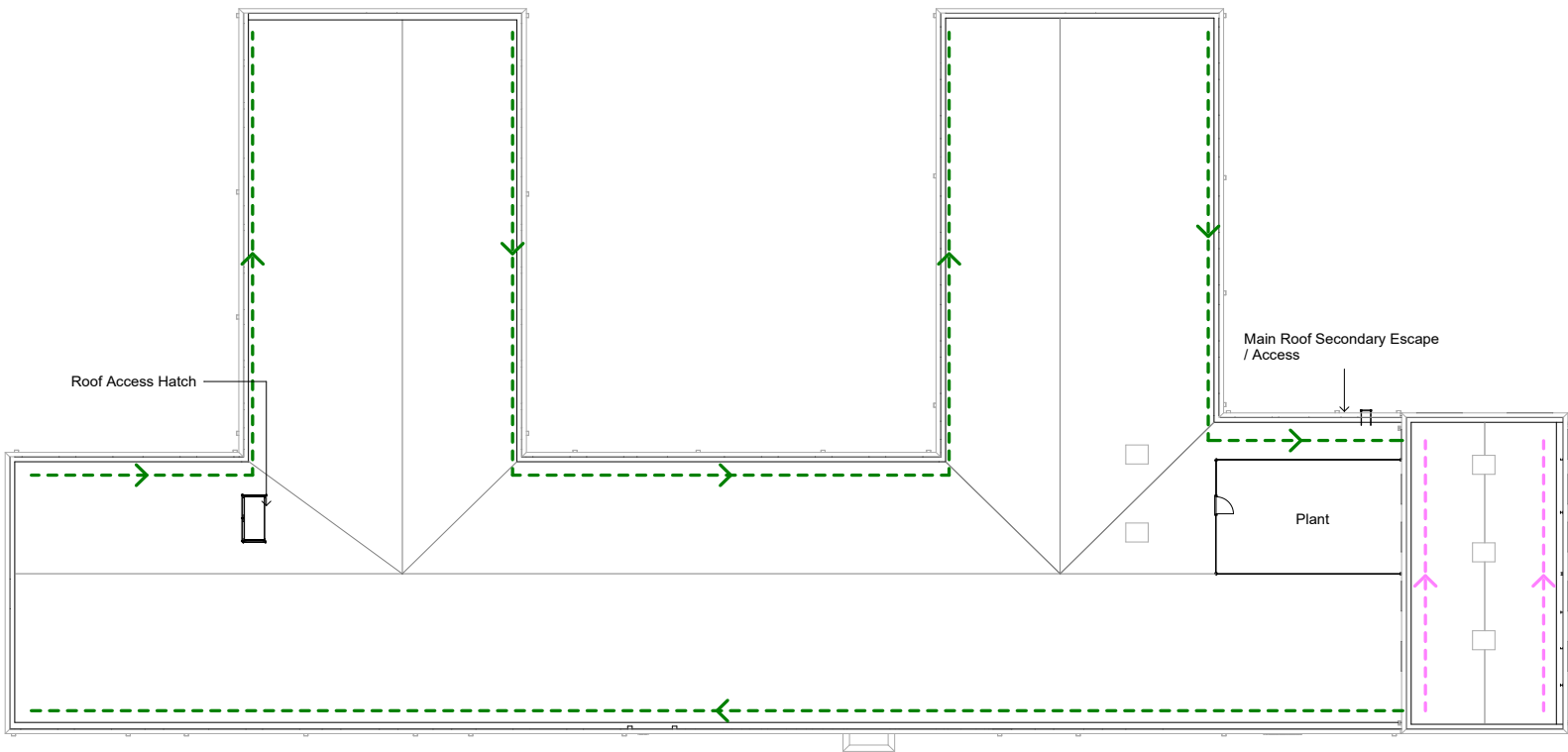


3.05 Cleaning & Maintenance Strategy

An Access and Maintenance will be developed together with our Principal Designer throughout the development of the project and will be included in the O&M upon completion.



Ground Floor Cleaning and Maintenance Plan



Roof Cleaning and Maintenance Plan

- Pole-Fed, High Level Window Cleaning Route
- Gutter Route, Telescopic gutter cleaning from ground level to Main Roof
- Sports Hall Roof Gutter Routes, Telescopic cleaning from Main roof / Ground level

04 SoA

Varley Street SEND, Secondary

SoA based on Baseline DfE ADS, to reflect suitable accommodation for 2 SEND cohorts for a total of 150 pupils and 100 staff.

Assumed 50/50 split between ambulant and non-ambulant pupils

Secondary Classroom Areas based on:

Zone	Room type	Typical setting	Recommended area range for typical group size	Recommended standard size within range
upper G	Secondary classroom (ambulant)	special school, Unit	49-56m ² for 12	55m ²
upper J	Secondary classroom (non-ambulant)		58-66m ² for 6	62m ²
H	Secondary classroom (severe SEMH)		42-52m ² for 8	48m ²
I	Secondary classroom (severe autism)		44-53m ² for 6	48m ²

Dining Areas based on:

Dining in special schools

The total area of spaces used for dining should allow 1.3m² per 'cover' for ambulant pupils and 3 to 4m² per 'cover' for non-ambulant pupils. The recommended total areas for halls, PE, dining and social are based on two sittings for ambulant pupils and one sitting for non-ambulant pupils; multiple sittings may not be practical in some special schools.

4.01 Schedule of Accommodation

Parent ADS Type Code	Unique Room Code	MCC Room Code	Unique room name	Proposed Area - Varley Street GA
CLA60	1001	B01-GF-087	Secondary classroom (with quiet/group bay off) 1	55.0
CLA60	1002	B01-GF-083	Secondary classroom (with quiet/group bay off) 2	55.0
CLA60	1003	B01-GF-082	Secondary classroom (with quiet/group bay off) 3	55.0
CLA60	1004	B01-GF-078	Secondary classroom (with quiet/group bay off) 4	55.0
CLA60	1005	B01-GF-077	Secondary classroom (with quiet/group bay off) 5	62.4
CLA60	1006	B01-GF-052	Secondary classroom (with quiet/group bay off) 6	62.0
CLA60	1007	B01-GF-049	Secondary classroom (with quiet/group bay off) 7	62.0
CLA60	1008	B01-GF-045	Secondary classroom (with quiet/group bay off) 8	62.4
CLA60	1009	B01-GF-044	Secondary classroom (with quiet/group bay off) 9	62.4
CLA60	1010	B01-GF-040	Secondary classroom (with quiet/group bay off) 10	62.0
CLA60	1011	B01-GF-039	Secondary classroom (with quiet/group bay off) 11	62.0
CLA60	1012	B01-GF-029	Secondary classroom (with quiet/group bay off) 12	55.0
CLA60	1013	B01-GF-026	Secondary classroom (with quiet/group bay off) 13	55.2
CLA60	1014	B01-GF-023	Secondary classroom (with quiet/group bay off) 14	55.2
Teaching Total :				820.6
CLA70	1101	B01-GF-019	Secondary classroom (with quiet/group bay off) 15	62.0
SCI50	1102	B01-GF-062	secondary science studio (autism or SEMH)	58.0
DAT50	1103	B01-GF-067	secondary art room (autism or SEMH)	58.0
DAT80	1104	B01-GF-091	secondary food room (ambulant)	62.0
DAT90	1105	B01-GF-068	secondary DT workshop (ambulant)	58.2
Specialist Practical Total :				298.2
HAL50	2001	B01-GF-097	main hall (ambulant)	180.0
DIN50	2003	B01-GF-092	dining area (ambulant)	150.0
Large Spaces Total :				330.0
LIB50	3001	B01-GF-016	Resource Space (ambulant)	28.0
RES70	3002	B01-GF-018	life skills kitchen (ambulant)	23.0
SEN11	3003	B01-GF-032	SEN therapy/ MI room	15.0
RES50	3004	B01-GF-085	group room 1	10.6
RES50	3005	B01-GF-080	group room 2	10.6
RES50	3006	B01-GF-069	group room 3	11.6
RES50	3007	B01-GF-021	group room 4	10.6
RES50	3008	B01-GF-054	group room 5	10.0
RES50	3009	B01-GF-047	group room 6	10.6
RES50	3010	B01-GF-042	group room 7	10.5
RES50	3011	B01-GF-030	group room 8	10.1
SEN30	3028	B01-GF-074	quiet/ calming room (ambulant) 1	15.0
SEN30	3029	B01-GF-037	quiet/ calming room (ambulant) 2	12.0
SEN12	3031	B01-GF-036	therapy (ambulant)	15.0
SEN40	3032	B01-GF-015	sensory room (ambulant)	23.0
SEN and support Total :				215.6
OFF31	4001	B01-GF-014	staff room (prep and social)	60.3
OFF33	4002	B01-GF-108	staff work room	15.0
OFF10	4003	B01-GF-012	conference/ meeting room	15.0
ADM09	4004	B01-GF-013	Reprographics	7.1
ADM11	4006	B01-GF-007	heads office (meeting room)	20.9
ADM05	4007	B01-GF-114	general office (2 recep desks)	21.6
ADM20	4008	B01-GF-006	parents room	15.0
ADM31	4009	B01-GF-002	entrance / reception (50% circ)	15.0
ADM03	4010	B01-GF-115	Sick bay	6.0
OFF10	4012	B01-GF-010	office/meeting (1 person) 2	10.0
OFF10	4013	B01-GF-114a	office/meeting (2 person)	10.0
OFF20	4014	B01-GF-113	office (visiting professional)	14.0

4.01 SoA continued...

OFF15	4015	B01-GF-110	office/ workroom (ICT tec)	10.5
OFF15	4016	B01-GF-109	office/ workroom (premise)	10.0
ADM31	4017	B01-GF-011	Pupil Entrance / reception (50% circ) 2	16.4
ADM03	4018	B01-GF-003	waiting area 1	5.0
ADM13	4019	B01-GF-009	admin. office	14.7
Staff and Administration Total :				266.5
STT40	5001	B01-GF-086	teaching store (off room) 1	3.7
STT40	5002	B01-GF-084	teaching store (off room) 2	3.7
STT40	5003	B01-GF-081	teaching store (off room) 3	3.7
STT40	5004	B01-GF-079	teaching store (off room) 4	3.7
STT40	5005	B01-GF-076	teaching store (off room) 5	3.6
STT40	5006	B01-GF-053	teaching store (off room) 6	3.3
STT40	5007	B01-GF-048	teaching store (off room) 7	4.0
STT40	5008	B01-GF-046	teaching store (off room) 8	4.0
STT40	5009	B01-GF-043	teaching store (off room) 9	4.0
STT40	5010	B01-GF-041	teaching store (off room) 10	4.0
STT40	5011	B01-GF-038	teaching store (off room) 11	3.6
STT40	5012	B01-GF-028	teaching store (off room) 12	3.4
STT40	5013	B01-GF-027	teaching store (off room) 13	3.4
STT40	5014	B01-GF-022	teaching store (off room) 14	4.1
STT40	5015	B01-GF-020	teaching store (off room) 15	4.1
STT40	5016	B01-GF-017	teaching store (off room) 16	3.5
STT05	5023	B01-GF-061	specialist store (science)	7.0
STT05	5024	B01-GF-065	specialist store (off art room)	5.1
STT35	5025	B01-GF-090	food store (off food room)	5.0
STT10	5027	B01-GF-058	general store (off corridor)	4.7
STT10	5028	B01-GF-008	general store	4.0
STT08	5029	B01-GF-070	DT Store (off room)	10.0
STH00	5030	B01-GF-098	PE store(s) (off hall)	20.0
STH05	5031	B01-GF-094	external PE store	6.7
STH10	5032	B01-GF-101	chair/ table store(s) (off hall)	18.2
STN21	5033	B01-GF-055	general store (central stock)	5.1
STN21	5034	B01-GF-112	secure/ exam/ archive store 1	8.0
STN51	5036	B01-GF-033	medical store	3.1
CIR00	5038	B01-GF-066	wheelchair/ appliance bay(s) 1	5.0
CIR00	5039	B01-GF-107	wheelchair/ appliance bay(s) 2	5.1
STN01	5040	B01-GF-087a	personal storage (coat hooks) 1	1.6
STN01	5041	B01-GF-083a	personal storage (coat hooks) 2	1.6
STN01	5042	B01-GF-082a	personal storage (coat hooks) 3	1.5
STN01	5043	B01-GF-078a	personal storage (coat hooks) 4	1.5
STN01	5044	B01-GF-077a	personal storage (coat hooks) 5	1.6
STN01	5045	B01-GF-052a	personal storage (coat hooks) 6	1.6
STN01	5046	B01-GF-049a	personal storage (coat hooks) 7	1.6
STN01	5047	B01-GF-045a	personal storage (coat hooks) 8	1.7
STN01	5048	B01-GF-044a	personal storage (coat hooks) 9	1.6
STN01	5049	B01-GF-040a	personal storage (coat hooks) 10	1.6
STN01	5050	B01-GF-039a	personal storage (coat hooks) 11	2.0
STN01	5051	B01-GF-029a	personal storage (coat hooks) 12	1.0
STN01	5052	B01-GF-026a	personal storage (coat hooks) 13	1.0
STN01	5053	B01-GF-023a	personal storage (coat hooks) 14	1.6
STN01	5054	B01-GF-019a	personal storage (coat hooks) 15	1.6
STN01	5055	B01-GF-067a	personal storage (coat hooks) 16	1.9
STN01	5056	B01-GF-062a	personal storage (coat hooks) 17	1.5
STN01	5057	B01-GF-068a	personal storage (coat hooks) 18	1.5
STN31	5062	B01-GF-071	cleaners' store(s) 1	4.6
STN31	5063	B01-GF-060	cleaners' store(s) 2	4.5
STN31	5064	B01-GF-057	general store (maintenance)	7.0
STN21	5068	B01-GF-075	general store (central stock)	7.8
Teaching Storage Total:				218.7

KIT02	6001	B01-GF-093	kitchen prep/ servery suite	48.4
KIT20	6002	B01-GF-096	kitchen store (s)	2.0
KIT40	6003	B01-GF-095	kitchen toilet/ changing area	6.0
TOC51	6004	01-GF-102 & 10	pupil changing and showers (ambulant)	45.8
TOC05	6005	B01-GF-073	small hygiene room (1 door) 1	12.4
TOC05	6006	B01-GF-056	small hygiene room (1 door) 2	12.0
TOC15	6007	B01-GF-089	Acc WC 1	4.3
TOC15	6008	B01-GF-088	Acc WC 2	4.3
TOC15	6009	B01-GF-084	Acc WC 3	4.3
TOC15	6010	B01-GF-083	Acc WC 4	4.3
TOC15	6011	B01-GF-063	Acc WC 5	4.3
TOC15	6012	B01-GF-064	Acc WC 6	4.3
TOC15	6013	B01-GF-004	Acc WC 7	4.3
TOC15	6014	B01-GF-005	Acc WC 8	4.3
TOC15	6015	B01-GF-051	Acc WC 9	4.3
TOC15	6016	B01-GF-050	Acc WC 10	4.3
TOC15	6017	B01-GF-045	Acc WC 11	4.3
TOC15	6018	B01-GF-046	Acc WC 12	4.3
TOC10	6023	B01-GF-072	staff toilet suite(s) 1	15.0
TOC10	6024	B01-GF-059	staff toilet suite(s) 2	15.0
TOC21	6025	B01-GF-116	accessible/ staff toilet 1	4.3
PLA01	6029	B01-GF-100	central plant room (total incl. LV switch & incoming ser	32.4
PLA06	6036	B01-GF-034	risers, flues and vertical ducts 1	0.8
PLA06	6037	B01-GF-035	risers, flues and vertical ducts 2	0.8
PLA06	6038	B01-GF-099	LV switchroom	12.6
PLA10	6040	B01-GF-111	server room	15.0
CIR00	6047	B01-GF-117	main circulation	480.5
TOC15	6049	B01-GF-024	Pupil toilets & AWC 1	4.3
TOC15	6050	B01-GF-025	Pupil toilets & AWC 2	4.3
TOC15	6051	B01-GF-104	Pupil toilets & AWC 3	4.3
TOC15	6052	B01-GF-105	Pupil toilets & AWC 4	4.3
TOC02	6057	B01-GF-106	accessible/ staff changing	8
CIR12	6058	B01-GF-031	stairwell(s) 7	6.1
			partitons (5.5%)	114.5
Non Net Total:				900.4
TOTAL Area:				3050.0

4.02 Sanitary Provision

Sanitary Provision Calculation & Strategic locations

Total 150No pupils + 100 staff	75No ambulant	75No non-ambulant	TOTAL required	TOTAL achieved
WCs (1/10 pupils)	8No WCs	8No Accessible WCs	16No	18No
Washbasins (1/1 to WC provision)	8No Washbasins	8No Washbasins	16No	18No
Showers	bespoke		tbc	6No
Staff assumed total 100No	8No. WCs		8No	8No

Table 6 Minimum provision of sanitary appliances for schools			
Type of school	Sanitary appliance	Number of sanitary appliances	Remarks
Special	WC and urinal	1 per 10 pupils, or part thereof	Not more than 2/3rds of boys' appliances to be urinals
	Washbasin	1 per WC/urinal	Every WC/urinal to be close to a washbasin
	Shower (where provided)	As Table 12	—
Table 12 Minimum provision of sanitary appliances for swimming pools			
Sanitary appliance	For male pool users	For female pool users	
WC	2 for up to 100 males; plus 1 for every additional 100 males or part thereof	1 per 5 females up to 50 females ^{A)} ; plus 1 for every additional 10 females or part thereof up to 100 females; plus 1 per 50 females or part thereof thereafter	
Urinal	1 per 20 males up to 100; and 1 per 80 males or part thereafter	—	
Washbasin	1 per WC, plus 1 per 5 urinals or part thereof	1, plus 1 per 2 WCs or part thereof	
Shower	1 per 10 males or part thereof	1 per 10 females or part thereof	
Cleaners' sink	As 5.5		
^{A)} Where female pool users will not be using the pool in timed sessions, i.e. will not be changing at the same time, 1 WC per 10 females will be acceptable.			
Table 3 Minimum scale of provision of sanitary appliances for staff toilets in offices, shops, factories and other non-domestic premises used as place of work			
Sanitary appliances for female staff, and for male staff where urinals are not installed			
Number of persons at work	Number of WCs	Number of washbasins	
1 to 5	1	1	
6 to 15	2	2	
16 to 30	3	3	
31 to 45	4	4	
46 to 60	5	5	
61 to 75	6	6	
76 to 90	7	7	
91 to 100	8	8	
Above 100	8, plus 1 WC and washbasin for every unit or fraction of a unit of 25 persons		

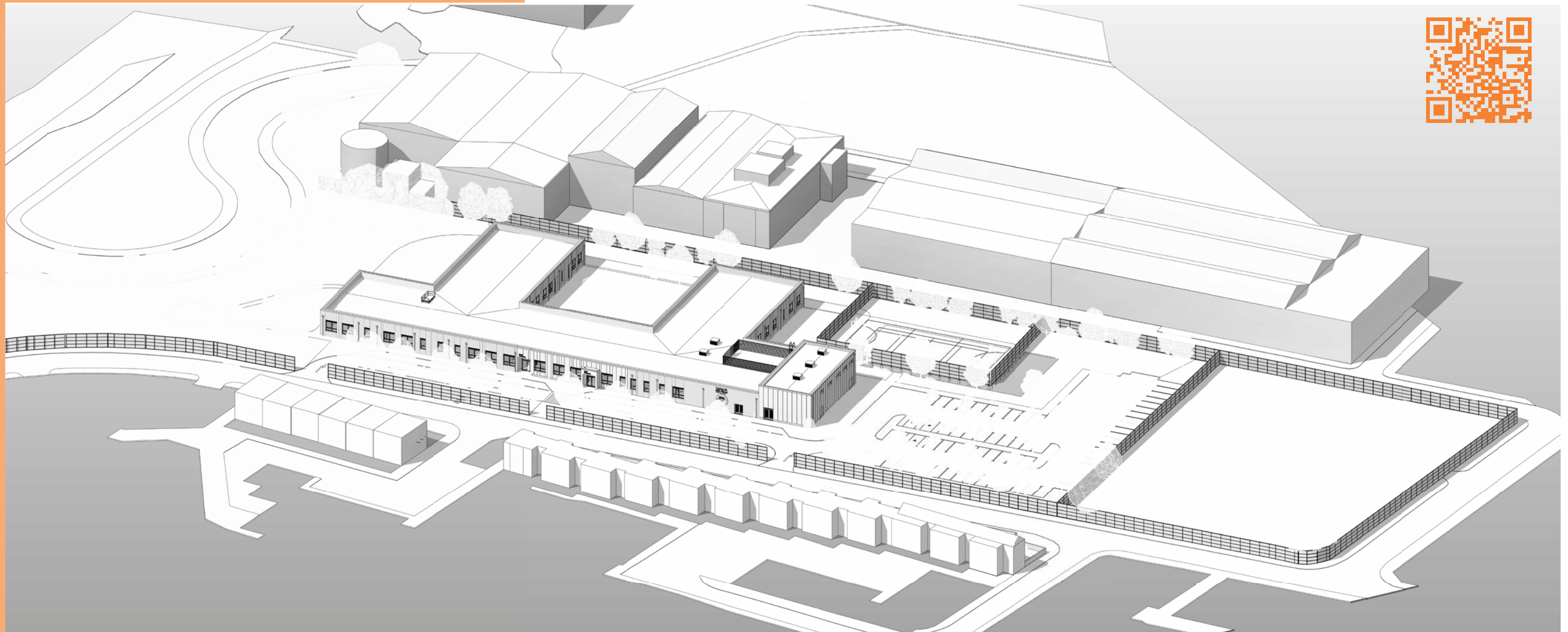


Ground Floor WC provision strategy

05 Massing & Materiality

Massing model

5.01 Proposed Site Configuration



5.02 Context & materiality

The nature of the building, the constraints of the site and the aspirations of the school informed the design and orientation of the building. A palette of different materials has been proposed to define different sections of the facade and create an identity for the school. This palette responds in part to the local vernacular, whilst also creating a modern and contemporary building.

The elevation treatment uses dark and light grey, coloured metal panels and grey window and door frames. The roof will be an anthracite metal standing seam.

Brick is very robust and durable and fits in with the wider vernacular.

The proposed building will utilise different shades of blue and green metal panels above the Main Entrances in order to enhance them and to bring some colour to the elevations, creating a building where pupils are inspired and motivated to grow, learn and be creative.

The length of the facade is broken down vertically, breaking up the mass and seemingly reducing the scale of the building. This in turn allows for pupils to feel more grounded. The play of colours with the proposed material palette uses branding colours, creating an identity for the new school.



Usmania Banqueting Hall



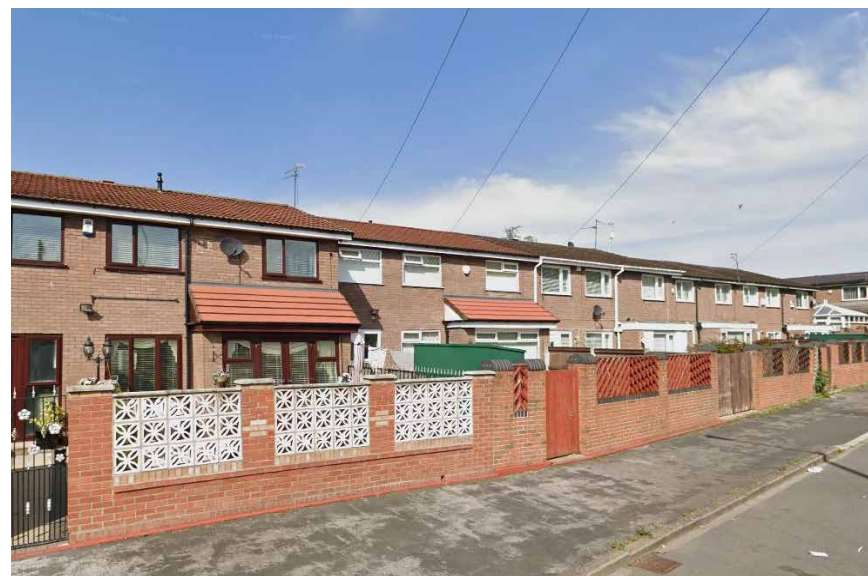
Victoria Mill Learning Centre



Industrial buildings to James Street



Main Industrial building facing Varley Street



Residential properties to Sawley Road - Main Access street to school site



Residential properties to Sawley Road - Main Access street to school site

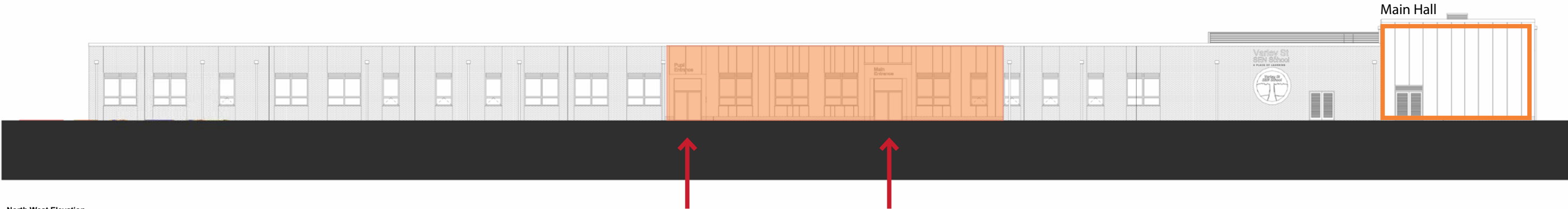
5.03 Elevational Strategy



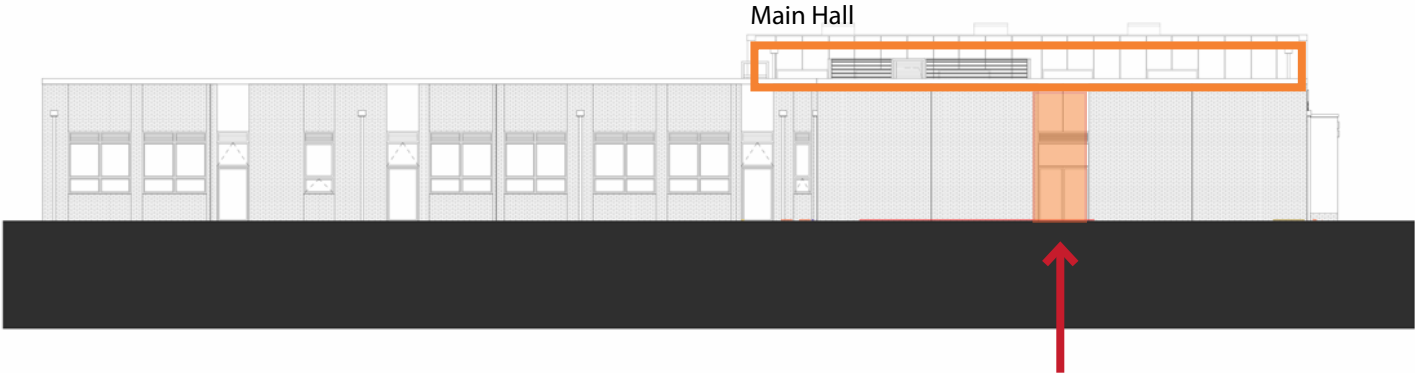
South East Elevation
1 : 100



South West Elevation
1 : 100

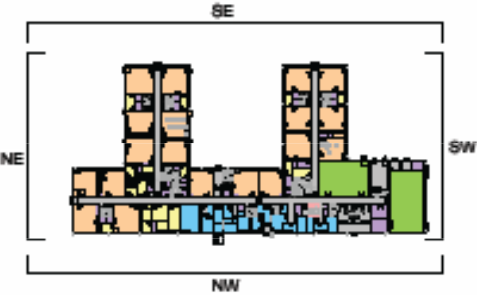


North West Elevation
1 : 100

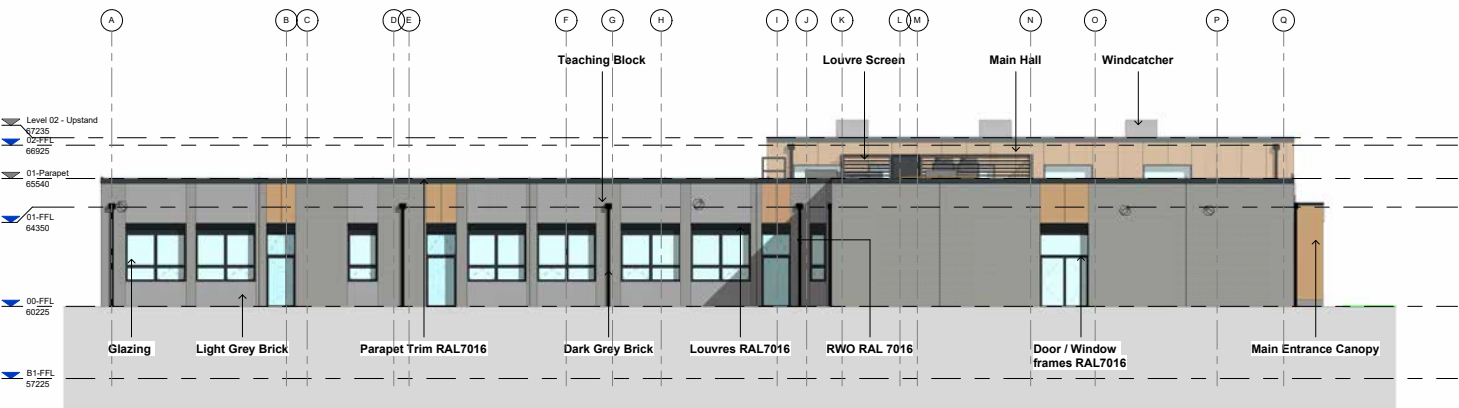
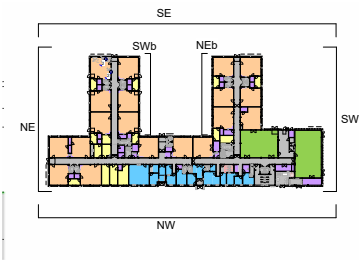
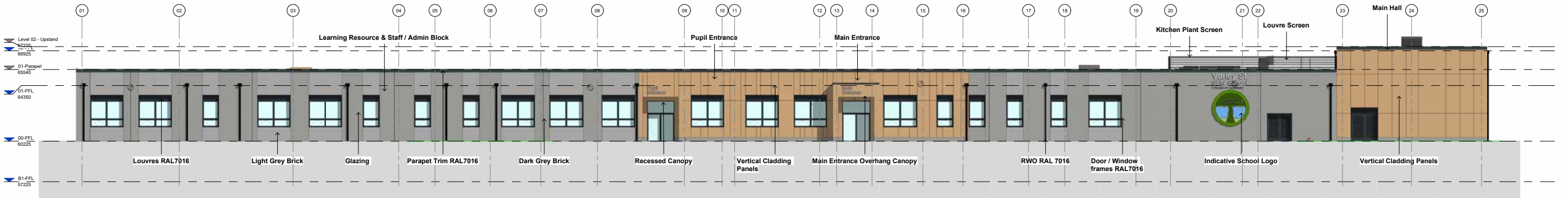
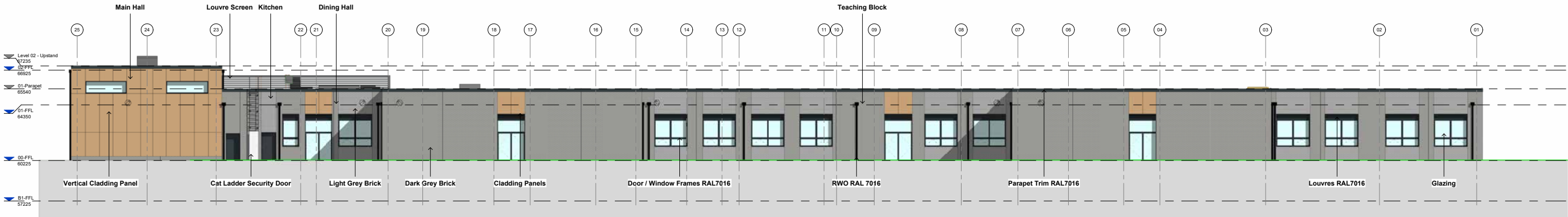


North East Elevation
1 : 100

-  Highlighted access points to aid wayfinding
-  Toned down facade material to subdue the mass

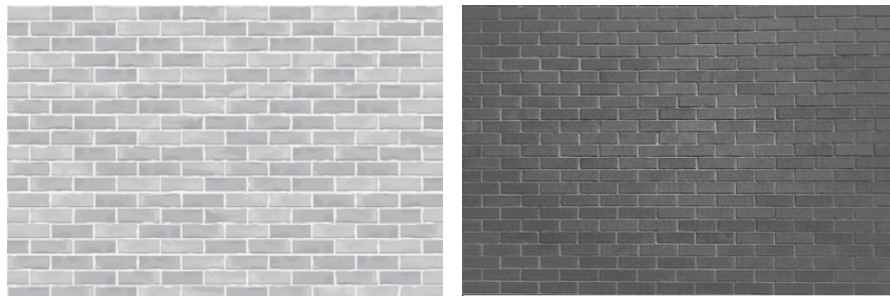


5.04 Elevations



5.05 Elevational Materials

Grey brick



Robust; Subtle colour; Smooth options available

Cladding infills



External cladding system; Subtle colour palette to highlight main entrances - Colour TBC



South-East ELEVATION



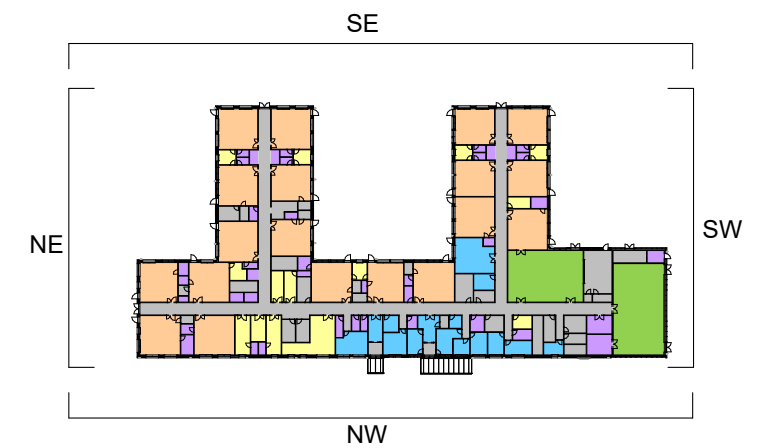
North-West ELEVATION



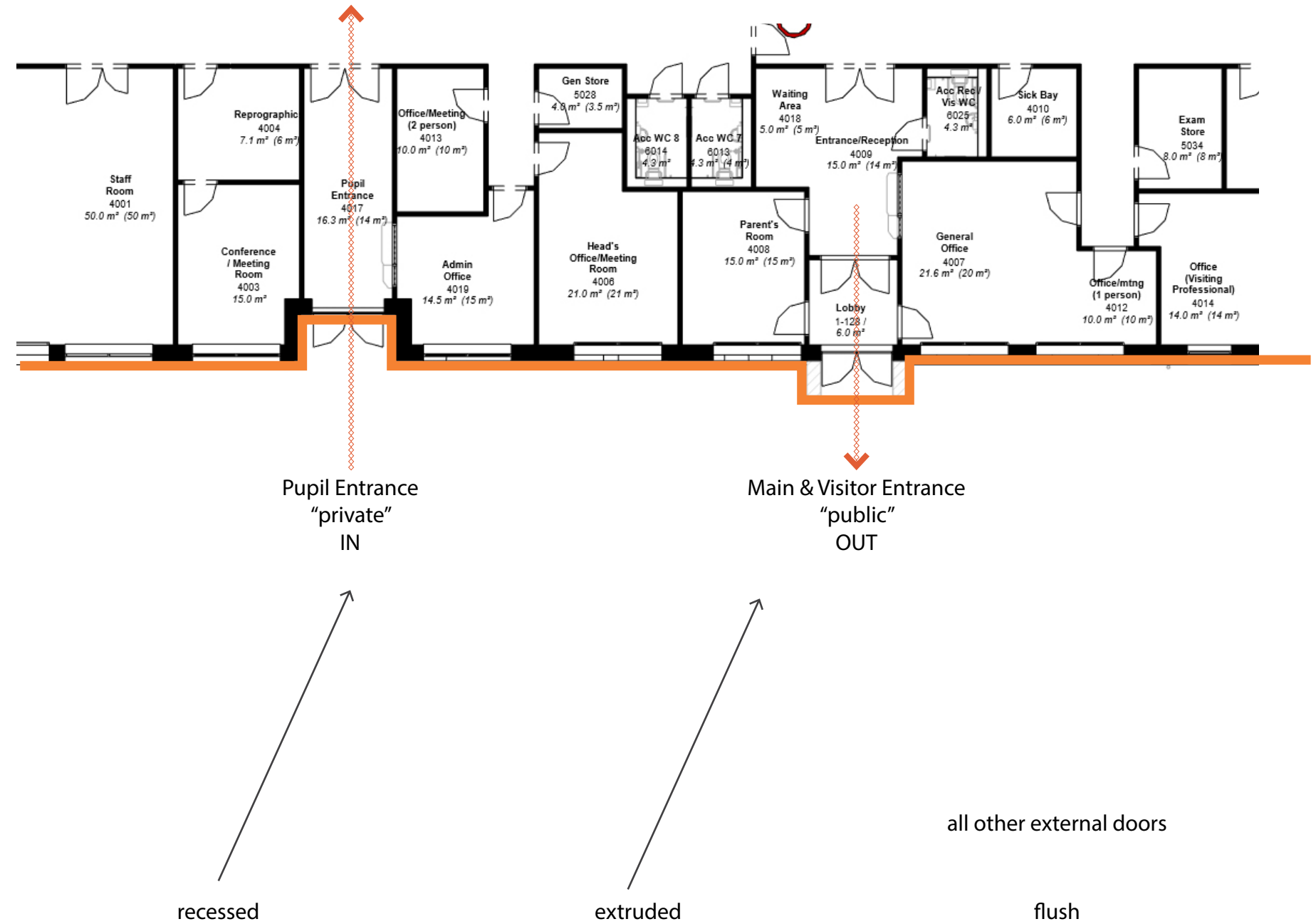
South-West ELEVATION



North-east ELEVATION



Pupil Entrance



5.10 Visual - Entrances

Main & Pupil Entrances



5.11 Visual - Aerial View 01



5.12 Visual - Aerial View 02



5.13 Visual - Aerial View 03

05. Massing & Materiality



6.01 Typical Sections

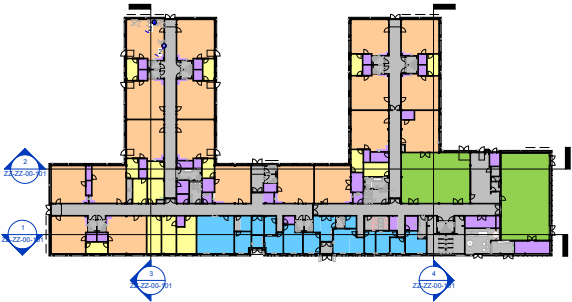
- FFL: 60.225m
- Sill heights: 1050mm
- Window height: 3060mm
- Louvre height & dims: 3460 (400mm)
- Void size: Min 600mm at Eaves
- Roof build up to main building: Bauder Total Roof system
275.7mm Total Thickness
- Roof build up to Main Hall: Bauder Total Roof system 275.7mm
Total Thickness
- Parapet height: 1100mm at Ridge
- Wall build up: SFS - Sheathing Board - Insulation - Cavity -
Masonry or Rockpanel Finish



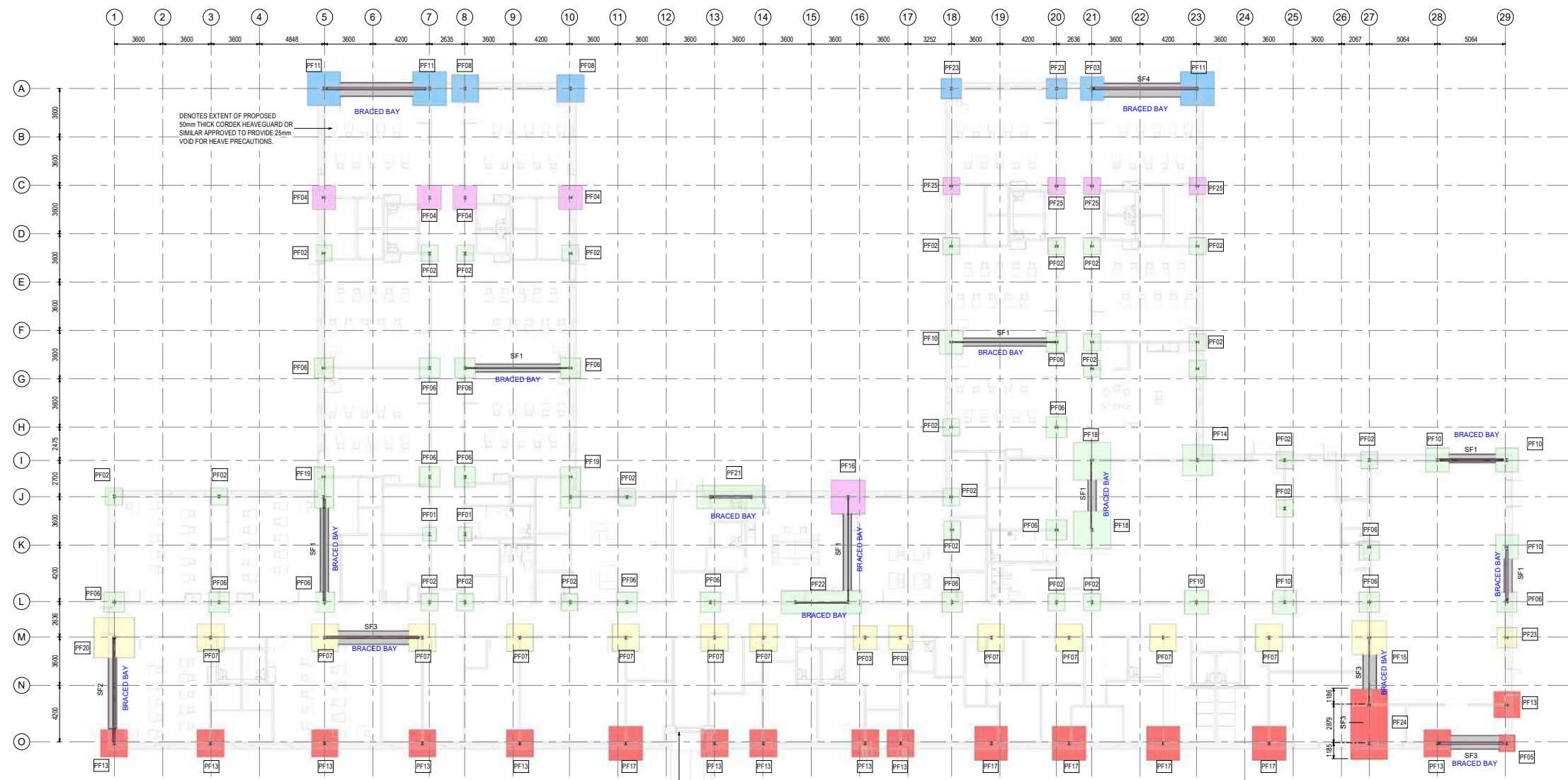
Typical Office Section - Cladding Wall build-up

Typical Main Hall Section - Cladding Wall build-up

6.02 Sections



6.03 Structural Strategy - Foundations



FOUNDATION DEPTH SCHEDULE

- DENOTES 600mm DEEP FOUNDATION, REFER TO PAD FOUNDATION SCHEDULE FOR SIZE REQUIREMENT
- DENOTES 850mm DEEP FOUNDATION, REFER TO PAD FOUNDATION SCHEDULE FOR SIZE REQUIREMENT
- DENOTES 1000mm DEEP FOUNDATION, REFER TO PAD FOUNDATION SCHEDULE FOR SIZE REQUIREMENT
- DENOTES 1300mm DEEP FOUNDATION, REFER TO PAD FOUNDATION SCHEDULE FOR SIZE REQUIREMENT
- DENOTES 1600mm DEEP FOUNDATION, REFER TO PAD FOUNDATION SCHEDULE FOR SIZE REQUIREMENT

CONCRETE GRADES

- BLINDING CONCRETE - GEN 1
- MASS FILL - GEN 3
- SUBSTRUCTURE FOUNDATIONS - C28/35
- GROUND SLAB - C28/35

*ALL BELOW GROUND CONCRETE TO BE DESIGNED FOR DS-1, AC-1

DENOTES EXTENT OF PROPOSED 50mm THICK CORDEX HEAVEGUARD OR SIMILAR APPROVED TO PROVIDE 25mm VOID FOR HEAVE PRECAUTIONS.

FOUNDATION NOTES

ALL FOUNDATION TO BE SET 750mm BELOW FFL UNLESS NOTED OTHERWISE

ALL FOUNDATIONS TO BE SUPPORTED ON VIBRO IMPROVED GROUND TO A MINIMUM BEARING PRESSURE OF 125kN/m2. FOUNDATION DESIGN BASED ON 125kN/m2. SPECIALIST SUB-CONTRACTOR TO CONFIRM WHETHER 150kN/m2 IS ACHIEVABLE.

CONTRACTOR TO ALLOW FOR THE FOLLOWING REINFORCEMENT RATES;

- STRIP FOOTINGS - 2No. LAYERS B785 MESH
- PAD FOUNDATIONS - 110kg/m3

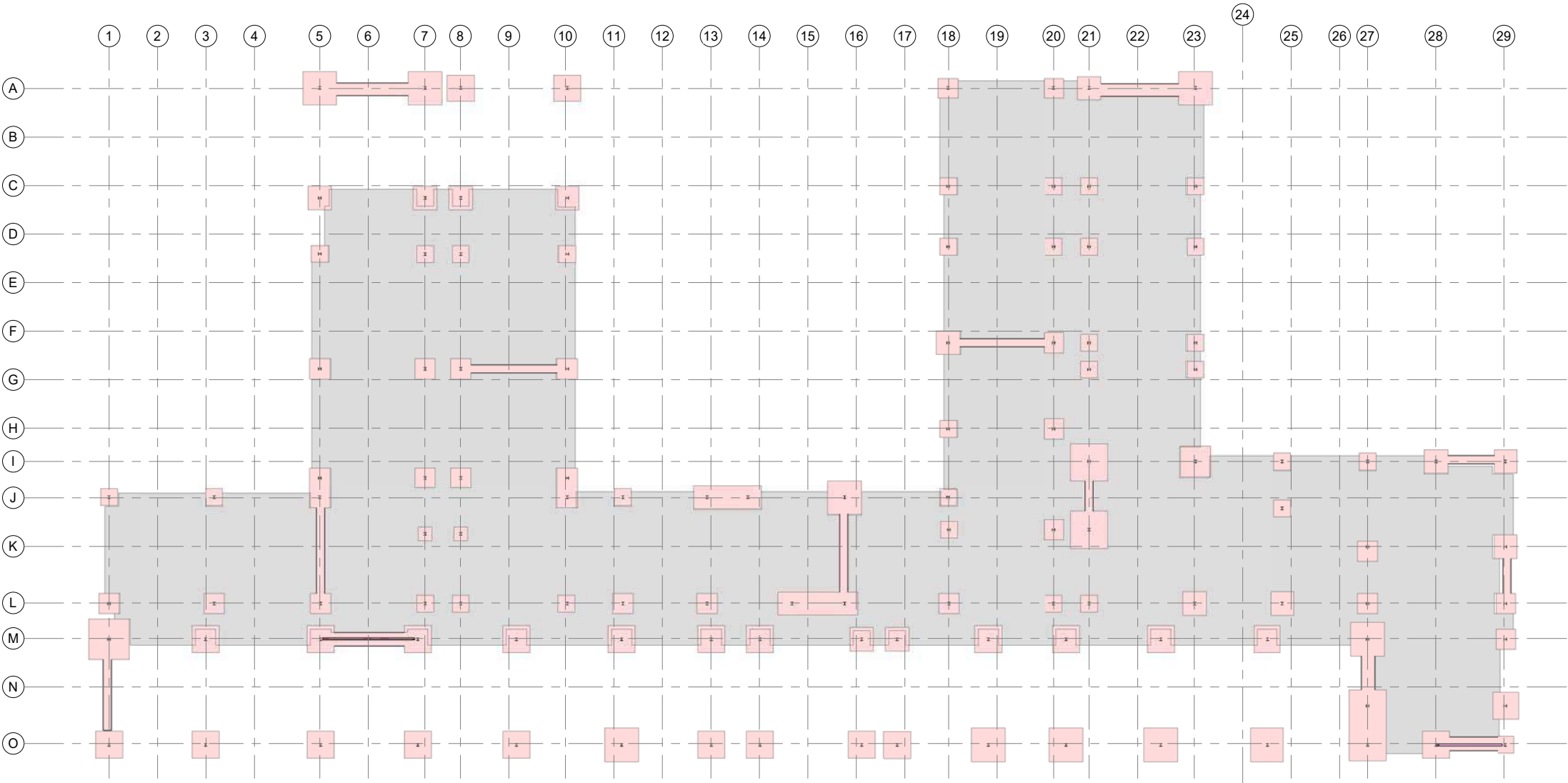
PAD FOUNDATION SCHEDULE			
(REF)	Count	(SIZE)	(R.C. RATE)
PF01	2	1000x1000x600	110kg/m3
PF02	26	1250x1250x600	110kg/m3
PF03	2	1250x1250x850	110kg/m3
PF04	8	1250x1250x1000	110kg/m3
PF05	1	1250x1250x1600	110kg/m3
PF06	18	1500x1500x600	110kg/m3
PF07	12	1500x1500x850	110kg/m3
PF08	4	1500x1500x1300	110kg/m3
PF09	9	1500x1500x1600	110kg/m3
PF10	6	1750x1750x600	110kg/m3
PF11	4	1750x1750x1300	110kg/m3
PF12	5	1750x1750x1600	110kg/m3
PF13	3	2000x2000x1600	110kg/m3

PAD FOUNDATION SCHEDULE			
(REF)	Count	(SIZE)	(R.C. RATE)
PF14	1	2250x2250x600	110kg/m3
PF15	1	2500x2500x850	110kg/m3
PF16	1	2500x2500x1000	110kg/m3
PF17	1	2500x2500x1600	110kg/m3
PF18	2	2750x2750x600	110kg/m3
PF19	2	3000x1500x600	110kg/m3
PF20	1	3000x3000x850	110kg/m3
PF21	1	5000x1700x600	110kg/m3
PF22	1	6000x1700x600	110kg/m3

STRIP FOOTING SCHEDULE		
(REF)	(SIZE)	(R.C. RATE)
SF1	600x300 STRIP FOOTING	2np. LAYERS B785 MESH
SF2	600x850 STRIP FOOTING	2np. LAYERS B785 MESH
SF3	1000x850 STRIP FOOTING	2np. LAYERS B785 MESH
SF4	1000x1300 STRIP FOOTING	2np. LAYERS B785 MESH

ALL TOP OF FOUNDATIONS
LEVELS (T.O.F.) TO BE:
+59.550m
UNLESS NOTED OTHERWISE

6.04 Structural Strategy - Virbro improvement layout

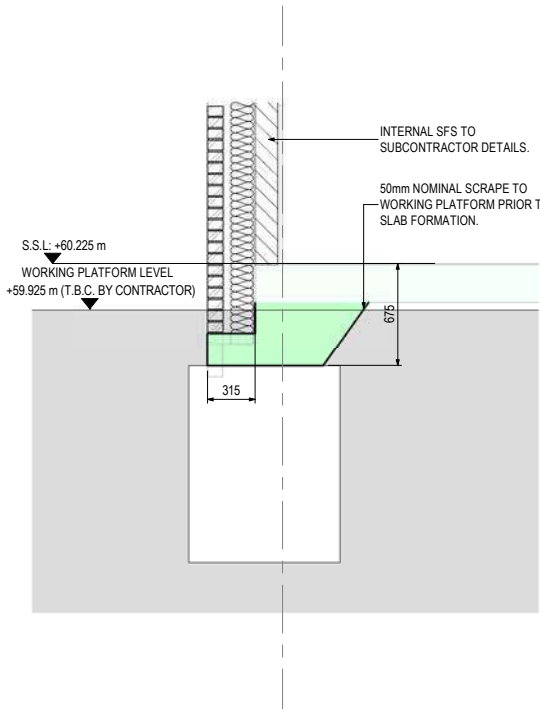


VIBRO IMPROVEMENT LAYOUT
SCALE 1 : 200

VIBRO LEGEND

DENOTES AREA BENEATH FOUNDATIONS TO BE IMPROVED TO 150kN/m²

DENOTES AREA BENEATH GROUND BEARING SLAB TO BE IMPROVED TO 25kN/m²



FOUNDATION DETAIL - TYPICAL VIBRO SECTION
SCALE 1 : 25

THE FOLLOWING SUMMARISES THE MAIN ISSUES HIGHLIGHTED BY THE SITE INVESTIGATION REPORT (REF CL102 BY ENVIRO SOLUTION) REPORT & GEO-ENVIRONMENTAL INVESTIGATION RISK ASSEMENT AND REMEDIATION STRATEGY, BUT MUST NOT BE CONSIDERED EXHAUSTIVE			
SUMMARY OF GROUND CONDITIONS AT SHALLOW DEPTH	TOP SOIL OVER SANDS AND UNDERLYING CLAYS	MINING	EXISTING MINESHAFTS AND SHALLOW SEAMS PRESENT ON SITE AND REQUIRE FURTHER INVESTIGATION AND APPROPRIATE REMEDIATION.
TREE INFLUENCE	PRECAUTIONS SHOWN ON FOUNDATION LAYOUT	GROUND GAS PROTECTION MEASURES	CS2
CLAY PLASTICITY	MEDIUM PLASTICITY	RADON PROTECTION MEASURES	NONE
GROUNDWATER AND SHALLOW EXCAVATION INSTABILITY	PERCHED GROUNDWATER ENCOUNTERED BETWEEN 0.85m & 4.95m - REFER TO SI REPORT. MAY VARY SEASONALLY.	DESIGN SULPHATE CLASS	DS-1
CONTAMINATION	TOP SOIL AND UPPER MATERIALS CONTAINED SIGNIFICANT CONTAMINATION. REFER TO SITE INVESTIGATION REPORT FOR FURTHER DETAILS	ACEC CLASS	AC-1
		SPECIAL REQUIREMENTS FOR CONCRETE	NONE
OBSTRUCTIONS	POTENTIAL HISTORIC BASEMENT WALLS - CONTRACTOR TO ENSURE ALL OBSTRUCTIONS REMOVED PRIOR TO VIBRO IMPROVEMENT WORKS	BEARING CAPACITY	REFER TO VIBRO GROUND IMPROVEMENT DRAWING
		FURTHER INVESTIGATION NEEDED	FURTHER INVESTIGATION TO EXISTING MINSHAFTS AND SHALLOW COAL SEAMS REQUIRED VIBRO-IMPROVEMENT CONTRACTOR TO WITNESS TRIAL PITS CONTAMINATION WITHIN TP 12 AND 14 TO BE DELINEATED TO INFORM REMEDIATION STRATEGY

GROUND IMPROVEMENT NOTES

MAXIMUM GROUND IMPROVEMENT LONG TERM SETTLEMENT AT ANY LOCATION AT WORKING LOAD MUST NOT EXCEED 25mm WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OVER A 2M LENGTH OF 5MM AND A HORIZONTAL DIFFERENTIAL SETTLEMENT OF LESS THAN 1:500 GRADIENT. (LONG TERM SETTLEMENT IS DEFINED AS WITHIN 30 YEARS OF CONSTRUCTION).

WORKING PLATFORM IS BE INSTALLED BY THE CONTRACTOR TO THE SPECIFICATION AND DESIGN PROVIDED BY THE SPECIALIST SUB-CONTRACTOR. FINAL WORKING PLATFORM LEVEL IS SUBJECT TO APPROVAL BY THE ENGINEER.

ALL AREAS BENEATH FOUNDATIONS SHALL BE IMPROVED TO ACHIEVE AN ALLOWABLE BEARING PRESSURE OF 150kN/m2.

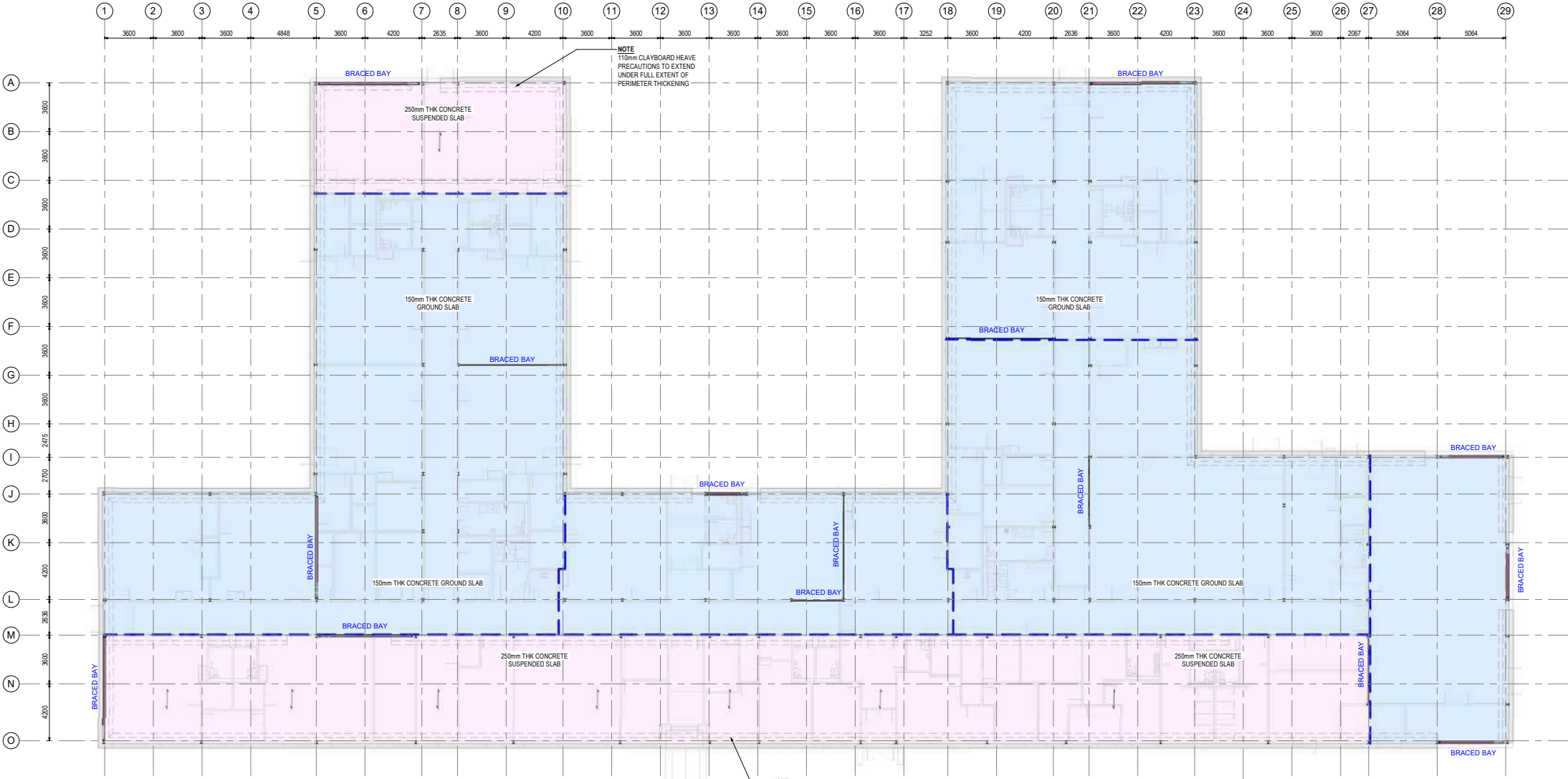
ALL AREAS BENEATH GROUND BEARING SLABS TO BE IMPROVED TO ACHIEVE AN ALLOWABLE BEARING PRESSURE OF 25kN/m3.

CONTRACTOR TO CONFIRM WHETHER ANY AREAS OUTSIDE OF THE BUILDING ARE RECEIVE GROUND IMPROVEMENT. FOR EXAMPLE, BIN STORES.

SUITABLE TESTS SHALL BE CARRIED OUT TO ENSURE CONSISTENCY OF VIBRO IMPROVED GROUND. TESTS TO COMPRISE 600mm DIAMETER PLATE LOAD TESTS PLACED CONCENTRICALLY ON INDIVIDUAL COLUMNS. MINIMUM 10 NO. PLATE LOAD TEST AND 4 NO. DUMMY FOOTING TEST. FINAL TEST REGIME TO BE CONFIRMED WITH BUILDING CONTROL.

FOR FURTHER GROUND DETAILS REFER TO GROUND INVESTIGATION REPORT.

6.05 Structural Strategy - Ground Floor Slabs



GAS MITIGATION STRATEGY

FOLLOWING THE RESULTS OF THE SITE INVESTIGATION AND IN LINE WITH THE LK REMEDIATION STRATEGY GROUND GAS PROTECTION STRATEGY TO MEET REQUIREMENTS FOR A CHARACTERISTIC SITUATION 2 ACHIEVING 2.5 POINTS FOR A TYPE C BUILDING IN LINE WITH THE LATEST VERSION OF BS 8485.

AS A MINIMUM CONTRACTOR TO ALLOW FOR:

- 2000 GAUGE PROPRIETARY GAS MEMBRANE INSTALLED TO REASONABLE LEVELS OF WORKMANSHIP IN LINE WITH GOOD PRACTICE UNDER CQA, COMPLETE WITH INDEPENDANT INTEGRITY TESTING AND VALIDATION. (2 POINTS)
- REINFORCED CAST IN-SITU SUSPENDED FLOOR SLAB WITH MINIMAL PENETRATIONS. (1.5 POINTS)

ALTERNATIVELY IN AREAS OF GROUND BEARING SLAB CONSTRUCTION:

- 2000 GAUGE PROPRIETARY GAS MEMBRANE INSTALLED TO REASONABLE LEVELS OF WORKMANSHIP IN LINE WITH GOOD PRACTICE UNDER CQA, COMPLETE WITH INDEPENDANT INTEGRITY TESTING AND VALIDATION. (2 POINTS)
- CAST IN-SITU GROUND BEARING SLAB WITH NOMINAL MESH REINFORCEMENT (0.5 POINTS)
- PRESSURE RELIEF PATHWAY TERMINATED IN A VENTING TRENCH (OR SIMILAR) TO ATMOSPHERE, ACS GASFLOW 25 OR SIMILAR APPROVED (0.5 POINTS)
- FINAL SYSTEM TO SPECIALIST SUB-CONTRACTOR DESIGN, DETAIL AND SPECIFICATION AND TO BE AGREED WITH THE LOCAL ENVIRONMENTAL HEALTH OFFICER PRIOR TO INSTALLATION.

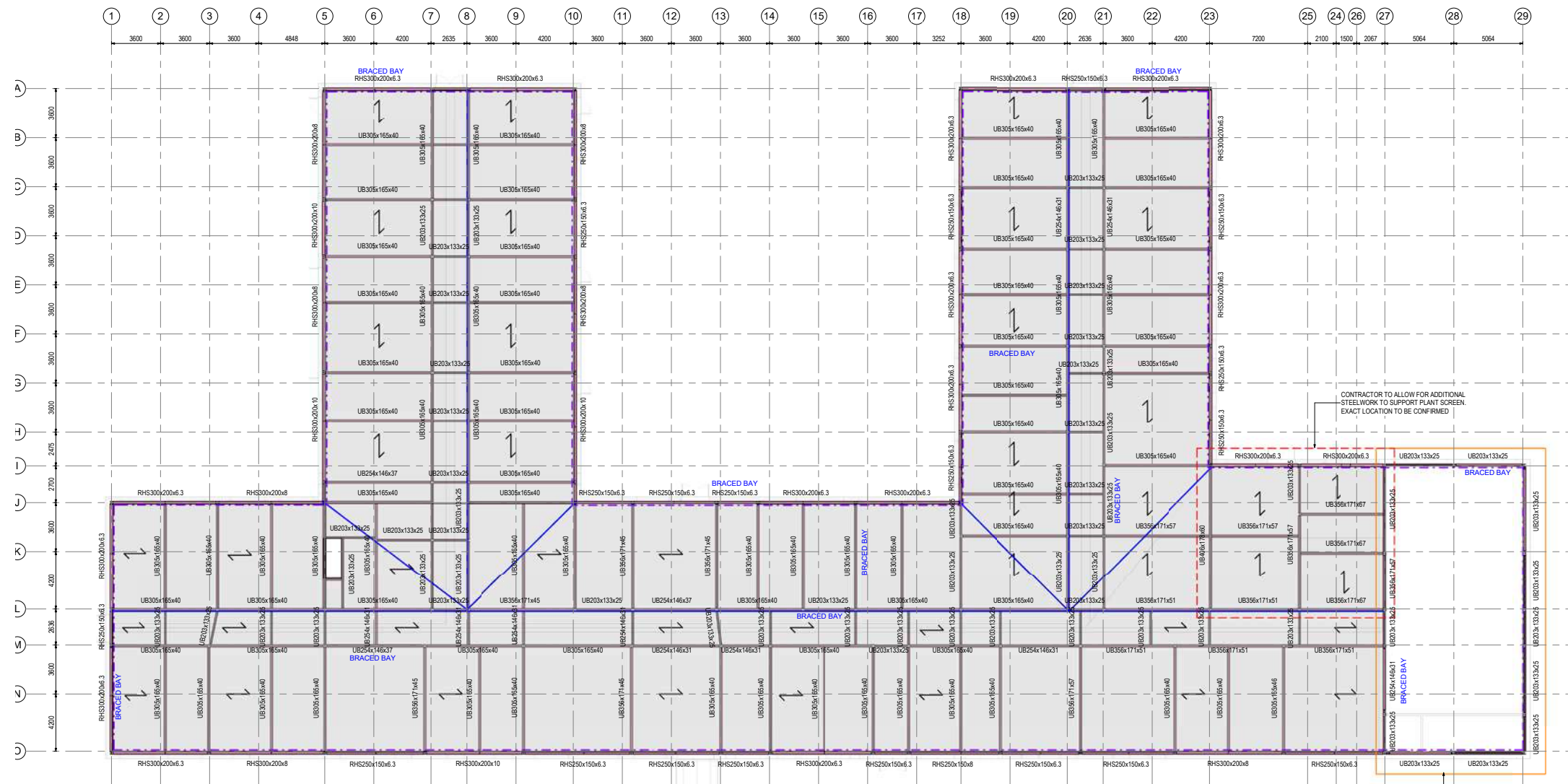
SLAB LEGEND

DENOTES 150mm THICK GROUND BEARING SLAB.GROUND BEARING SLAB TO BE FORMED ON APPROPRIATE DPM/GAS MEMBRANE OVER 25mm SAND BLINDING OVER 150mm D.O.T. TYPE 1 OVER VIBRO IMPROVED GROUND.

DENOTES SPAN OF 250mm THICK SUSPENDED, TO BE FORMED ON D.P.M./ SEPARATION MEMBRANE OVER 110mm CLAYBOARD OVER D.P.M. / SEPARTATION MEMBRANE OVER 150mm COMPACTED D.O.T. TYPE 1.

*ALLOWANCE TO BE MADE FOR FULL FORMED FREE MOVEMENT JOINTS AT 30m CENTRES. ALL FINISHES TO BE BROKEN AT MOVEMENT JOINTS.

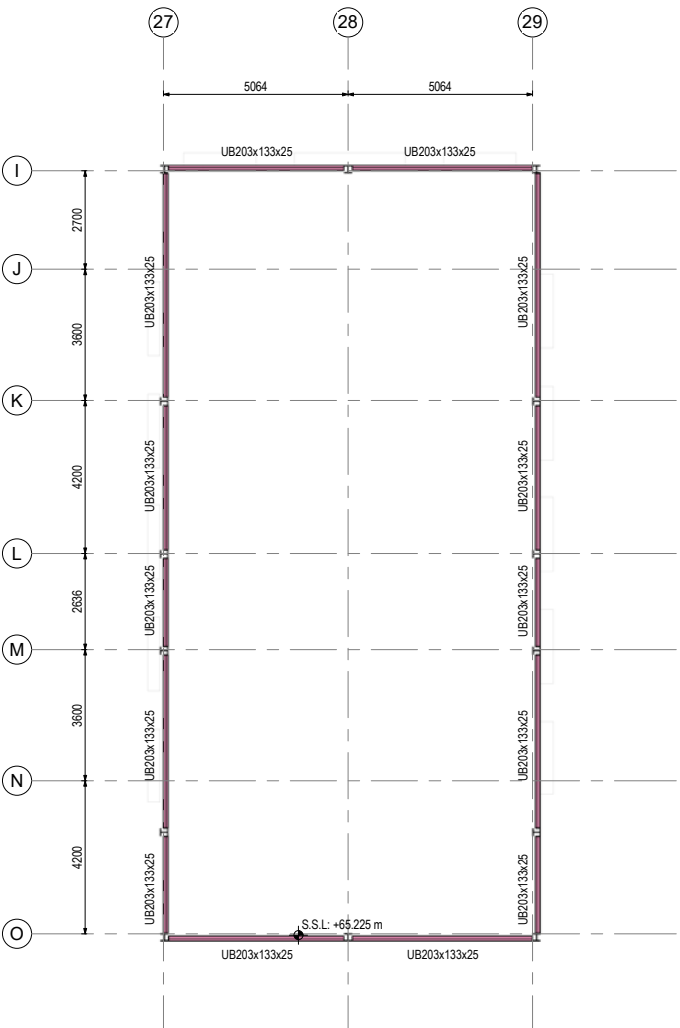
*ALLOWANCE TO BE MADE FOR INDUCED SAWN JOINTS AT TYPICALLY 6 TO 8m CENTRES. JOINT LAYOUT TO BE DEVELOPED AT NEXT STAGE



	DENOTES PROPOSED RIDGE LINE TO BE CO-ORDINATED WITH ARCHITECT. CONTRACTOR TO ALLOW FOR ADDITIONAL STEELWORK AT ALL ROOF PITCH CHANGES (IE RIDGE/VALLEY LINES)	
	DENOTES SPAN OF TATA D200 STRUCTURAL METAL ROOFDEK. ROOFDEK TO BE DESIGNED TO ACT AS DIAPHRAGM TO TRANSFER HORIZONTAL LOADS TO VERTICAL BRACED BAYS. FINAL DESIGN, DETAIL AND SPECIFICATION TO SPECIALIST SUB-CONTRACTOR	
	DENOTES ALLOWANCE FOR 8mm THICK PLATE WELDED TO UNDERSIDE PERIMETER RHS TO PROVIDE SUPPORT FOR ROOF STEELWORK	

*NOTE: ALL ROOF STEEL TO BE SET TO FALLS TO SUIT ROOF PITCH.
*ALLOWANCE TO BE MADE FOR 150x75x18 PFC UPSTAND WITH 152x152x23 UC POSTS TO ALL WIND CATCHER/
ACCESS HATCH AND OTHER OPENINGS.
*ALLOWANCE TO BE MADE FOR SECONDARY TRIMMING STEEL AROUND ALL OPENINGS.

6.07 Structural Strategy - Main Hall



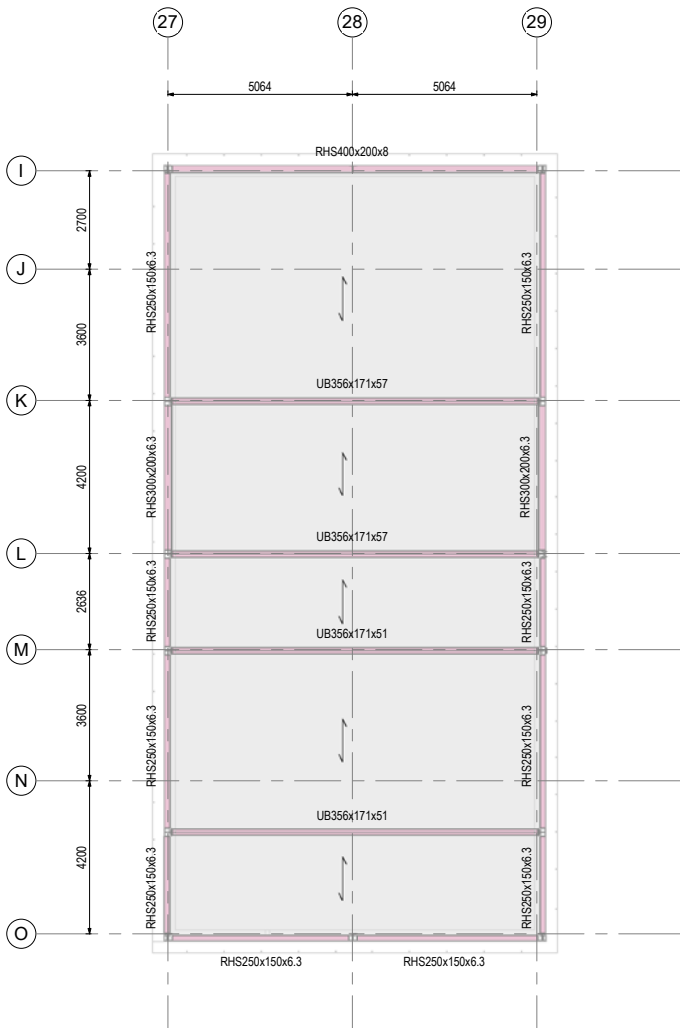
MAIN HALL - LOWER STEELWORK

SCALE 1 : 100

ALL TOP OF STEEL LEVELS
(T.O.S) TO BE:

+t.b.cm

UNLESS NOTED OTHERWISE



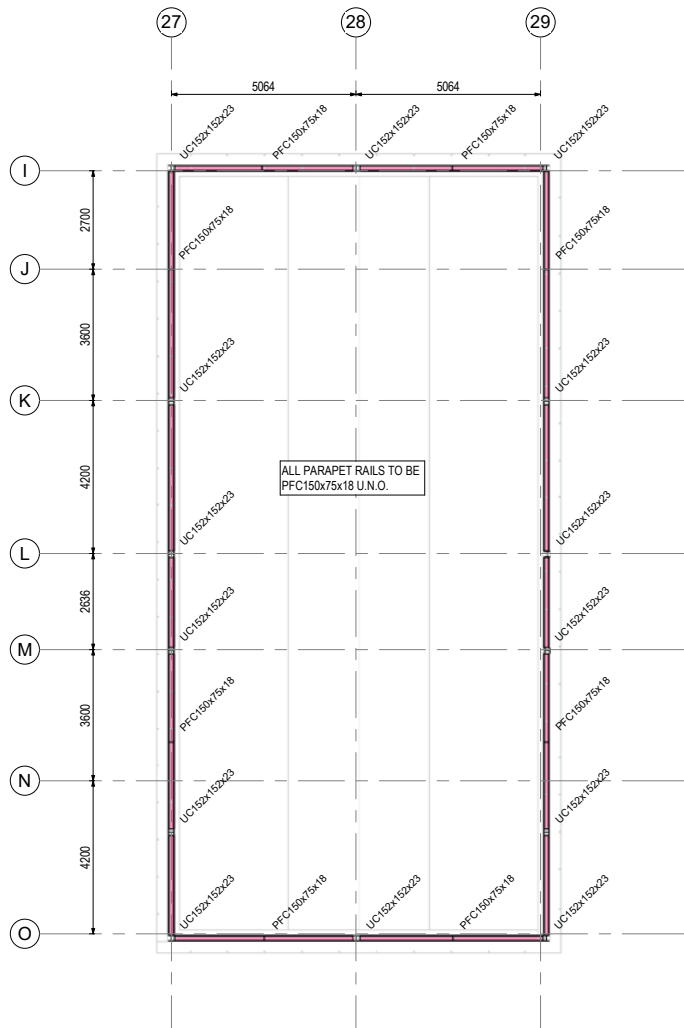
MAIN HALL - ROOF STEELWORK

SCALE 1 : 100

ALL TOP OF STEEL LEVELS
(T.O.S) TO BE:

+t.b.cm

UNLESS NOTED OTHERWISE



MAIN HALL - PARAPET STEELWORK

SCALE 1 : 100

ALL TOP OF STEEL LEVELS
(T.O.S) TO BE:

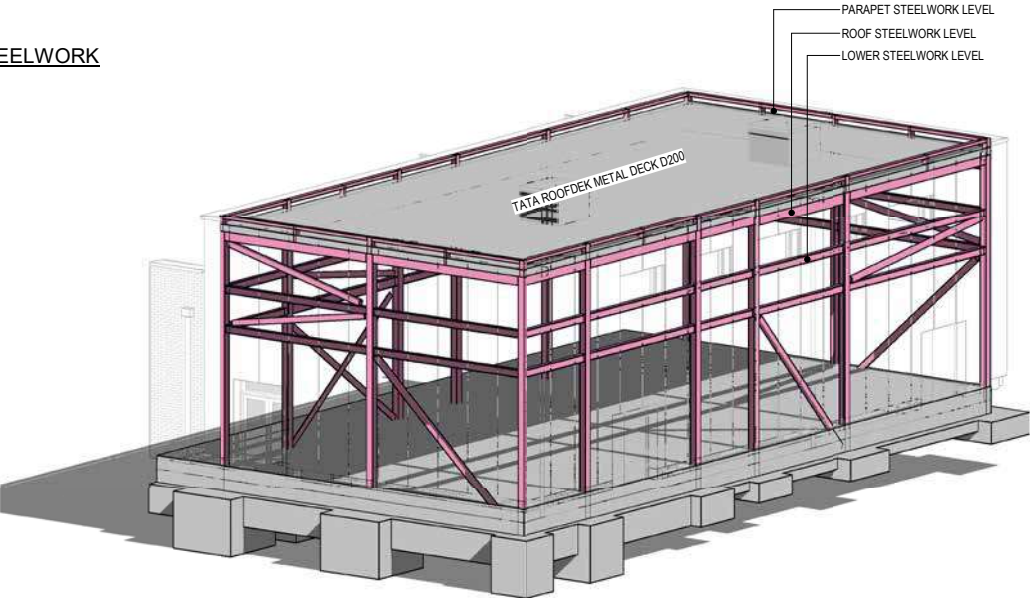
+t.b.cm

UNLESS NOTED OTHERWISE

ROOF LEGEND

← DENOTES SPAN OF TATA D200 STRUCTURAL METAL ROOFDEK. ROOFDEK TO BE DESIGNED TO ACT AS DIAPHRAGM TO TRANSFER HORIZONTAL LOADS TO VERTICAL BRACED BAYS. FINAL DESIGN, DETAIL AND SPECIFICATION TO SPECIALIST SUB-CONTRACTOR.

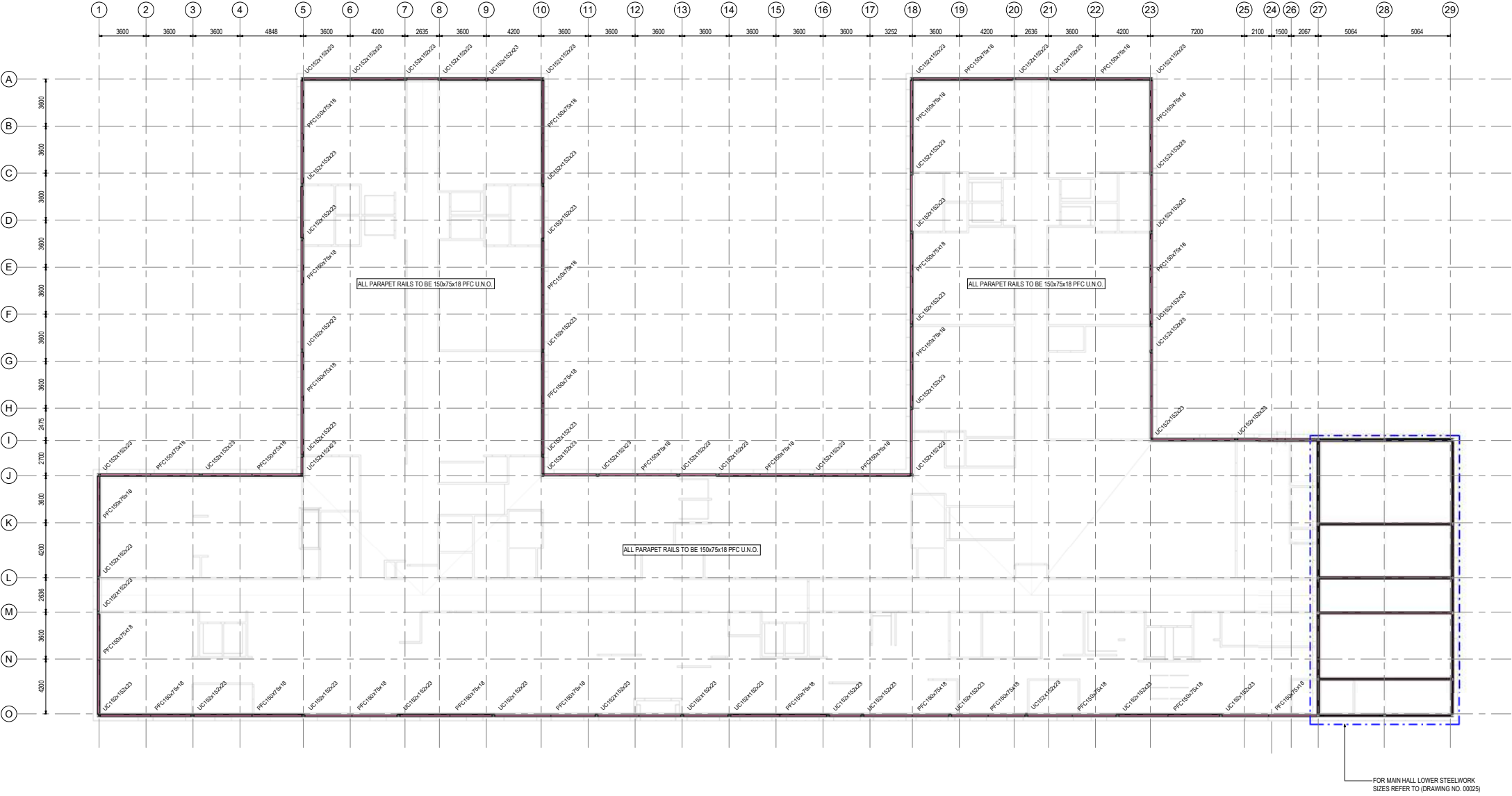
*NOTE: ALL ROOF STEEL TO BE SET TO FALLS TO SUIT ROOF PITCH.
*ALLOWANCE TO BE MADE FOR 150x75x18 PFC UPSTAND WITH 152x152x23 UC POSTS TO ALL WIND CATCHER/ ACCESS HATCH AND OTHER OPENINGS.
*ALLOWANCE TO BE MADE FOR SECONDARY TRIMMING STEEL AROUND ALL OPENINGS.



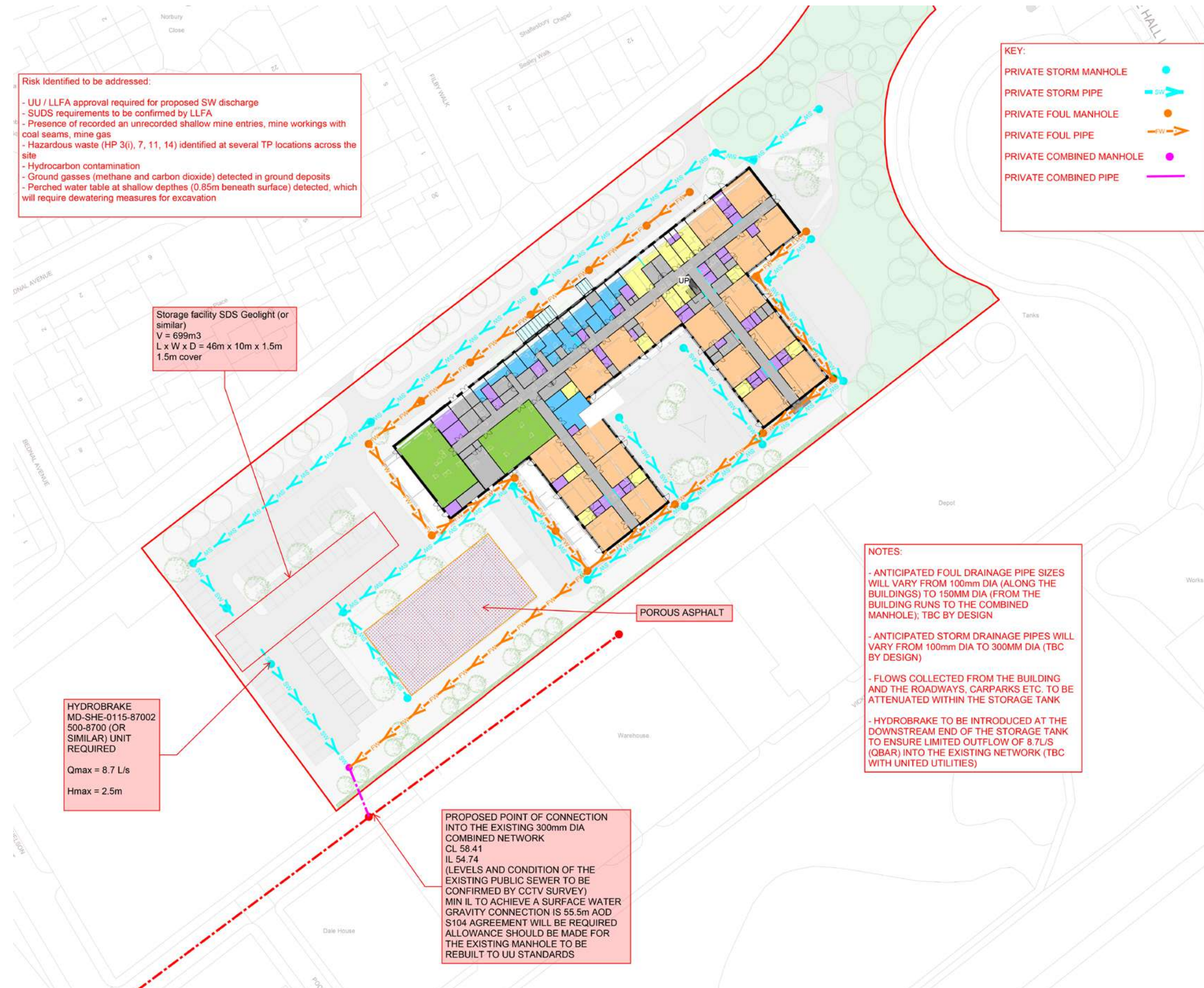
MAIN HALL - 3D PERSPECTIVE VIEW

SCALE

6.08 Structural Strategy - Parapet steelwork



6.04 Drainage Strategy



07 M&E Strategy

RIDGE



Manchester

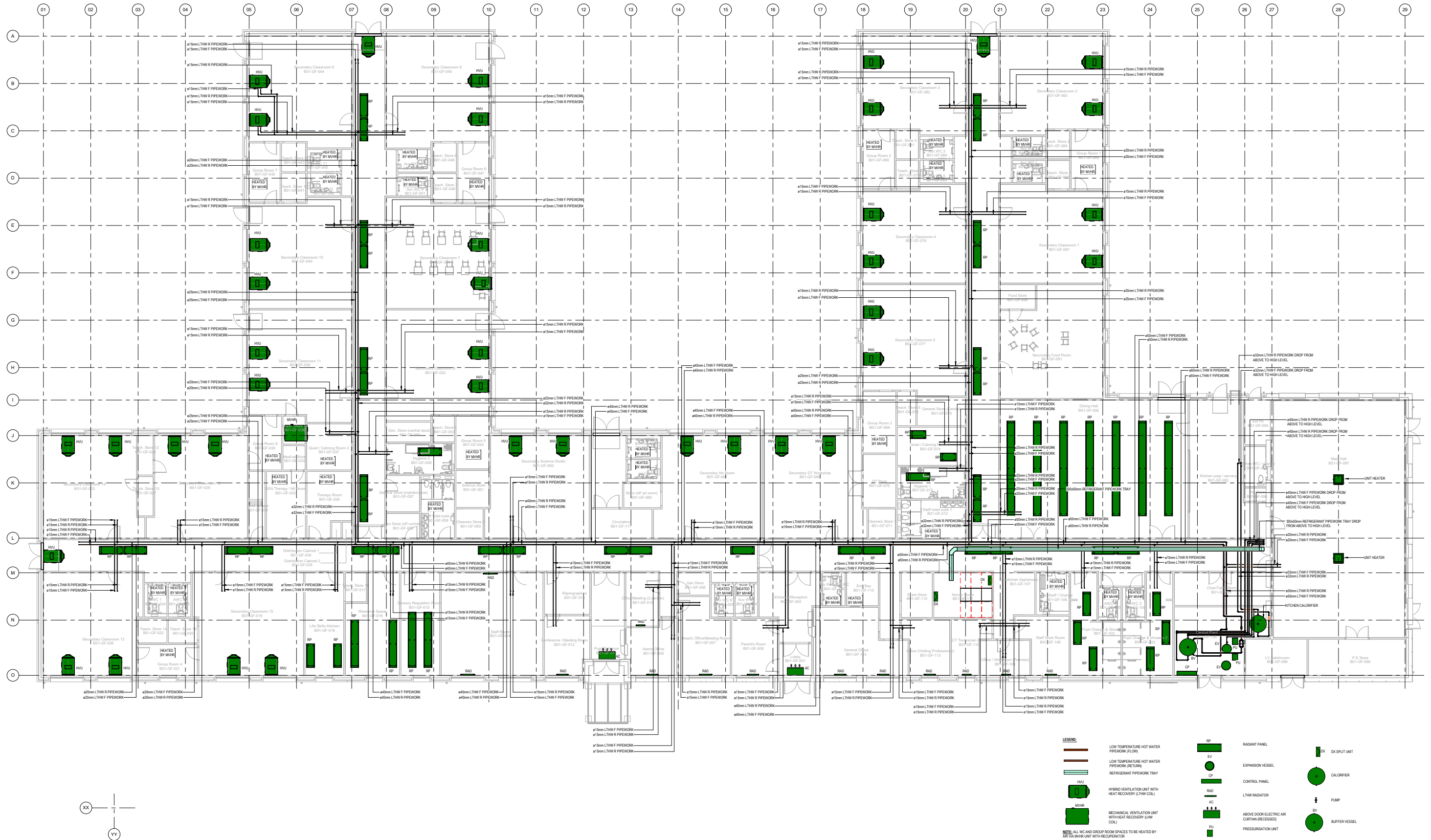
Belvedere House, 5th Floor
12 Booth Street
Manchester, M2 4AW

0161 833 9579

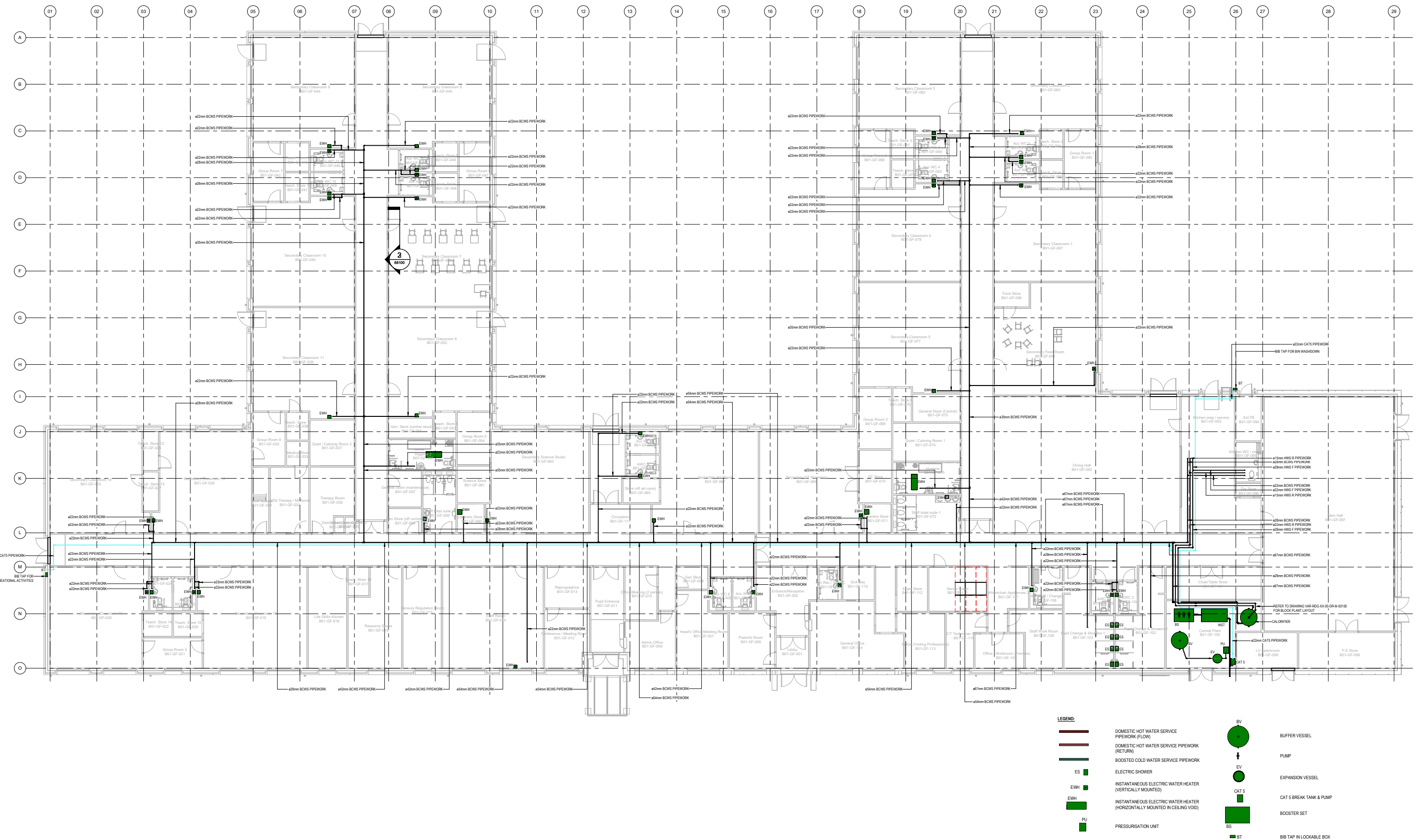
Building Services Engineers

FABRIC ELEMENT	U-VALUE (W/M2.K)	G-VALUE
External Wall	0.15	-
Roof	0.15	-
External Doors	1.6	
Ground Floor	0.15	
Windows	1.40	0.40

7.01 Heating & Cooling Strategy



7.02 Domestic Water Services Strategy



TYPICAL CLASSROOM LIGHTING

Secondary Classroom 9
B01-GF-044
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Acc WC 11
B01-GF-045
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 9
B01-GF-043
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 7
B01-GF-042
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 10
B01-GF-041
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc WC 12
B01-GF-046
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Secondary Classroom 10
B01-GF-040
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Secondary Classroom 7
B01-GF-048
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Secondary Classroom 6
B01-GF-052
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Gen. Store (central stock)
B01-GF-053
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 8
B01-GF-048
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 6
B01-GF-047
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 7
B01-GF-046
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc WC 9
B01-GF-051
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Secondary Classroom 4
B01-GF-038
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Secondary Classroom 3
B01-GF-082
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Acc WC 3
B01-GF-084
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 3
B01-GF-081
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 2
B01-GF-080
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 4
B01-GF-079
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc WC 4
B01-GF-083
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Secondary Classroom 2
B01-GF-083
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Acc WC 2
B01-GF-086
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 2
B01-GF-084
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 1
B01-GF-085
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 1
B01-GF-086
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc WC 1
B01-GF-089
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Food Store
B01-GF-090
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Secondary Classroom 1
B01-GF-087
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Secondary Food Room
B01-GF-091
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Dry Store
B01-GF-096
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

East PE
B01-GF-094
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Kitchen WC / change
B01-GF-095
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 11
B01-GF-039
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 8
B01-GF-038
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 13
B01-GF-037
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Medical Store
B01-GF-033
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Quiet / Calming Room 2
B01-GF-037
Lighting Control Strategy: D
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 50

Secondary Classroom 11
B01-GF-039
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Secondary Classroom 8
B01-GF-055
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Teach. Store 6
B01-GF-053
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 5
B01-GF-054
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Science Store
B01-GF-051
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Acc WC 5
B01-GF-053
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Teach. Store 5
B01-GF-076
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Group Room 3
B01-GF-089
Lighting Control Strategy: B
Lux Level: 300
Uniformity: 0.6

Teach. Store 4
B01-GF-075
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc WC 6
B01-GF-077
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

General Store (Central)
B01-GF-078
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Quiet / Calming Room 1
B01-GF-074
Lighting Control Strategy: D
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 50

Hygiene 1
B01-GF-073
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Staff toilet suite 1
B01-GF-072
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Acc Staff / Change
B01-GF-071
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Secondary OT Workshop
B01-GF-068
Lighting Control Strategy: A
Lux Level: 300
Uniformity: 0.6
Cylindrical Illuminance: 150
Emergency Lighting: Yes

Acc Res / Vis WC
B01-GF-118
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

Sick Bay
B01-GF-115
Lighting Control Strategy: F
Lux Level: 300
Uniformity: 0.6

Cleaners Store 1
B01-GF-107
Lighting Control Strategy: F
Lux Level: 100
Uniformity: 0.4

Acc Staff / Change
B01-GF-106
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC 4
B01-GF-105
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC 3
B01-GF-104
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC 2
B01-GF-103
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC 1
B01-GF-102
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC 0
B01-GF-101
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -1
B01-GF-100
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -2
B01-GF-099
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -3
B01-GF-098
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -4
B01-GF-097
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -5
B01-GF-096
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -6
B01-GF-095
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -7
B01-GF-094
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -8
B01-GF-093
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -9
B01-GF-092
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -10
B01-GF-091
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -11
B01-GF-090
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -12
B01-GF-089
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -13
B01-GF-088
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -14
B01-GF-087
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -15
B01-GF-086
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -16
B01-GF-085
Lighting Control Strategy: E
Lux Level: 100
Uniformity: 0.4

WC -17

	RECESSED LIGHT FITTING (600x600)
	TWO GANG RETRACTIVE LIGHT SWITCH
	ABSENCE DETECTOR

- Circular Bulkhead
- Recessed 600x600
- Recessed Downlight
- Recessed Linear
- Surface Mounted Linear IP66
- Suspended Linear



TYPE A - ABSENCE DETECTION COMPLETE WITH SEPARATE SWITCHING FOR TEACHING WALL, DAYLIGHT DIMMING.

TYPE B - ABSENCE DETECTION, DAYLIGHT DIMMING.

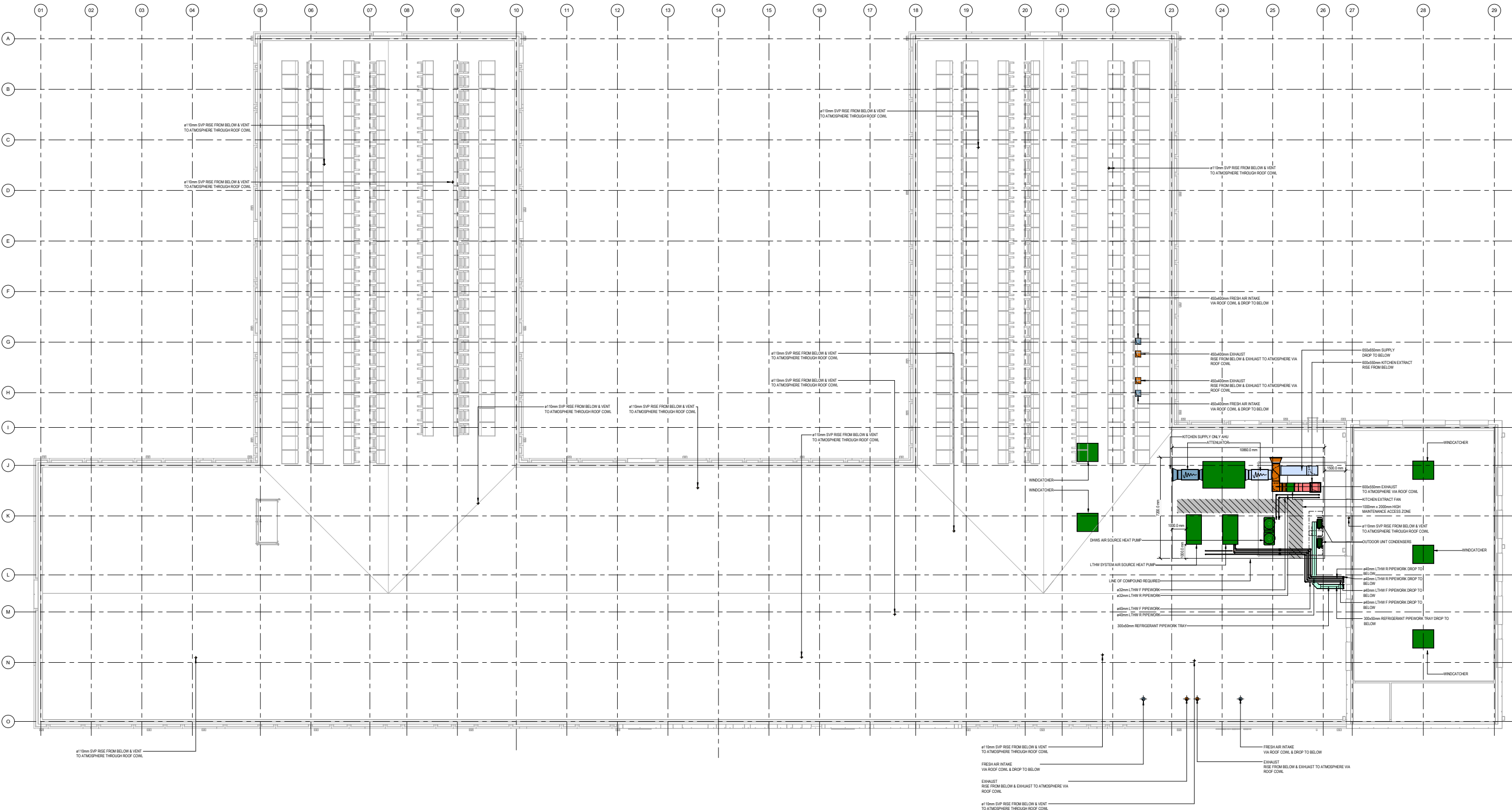
TYPE C - ABSENCE DETECTION, DAYLIGHT DIMMING, SCENE SETTING

TYPE D - ABSENCE DETECTION, SCENE SETTING

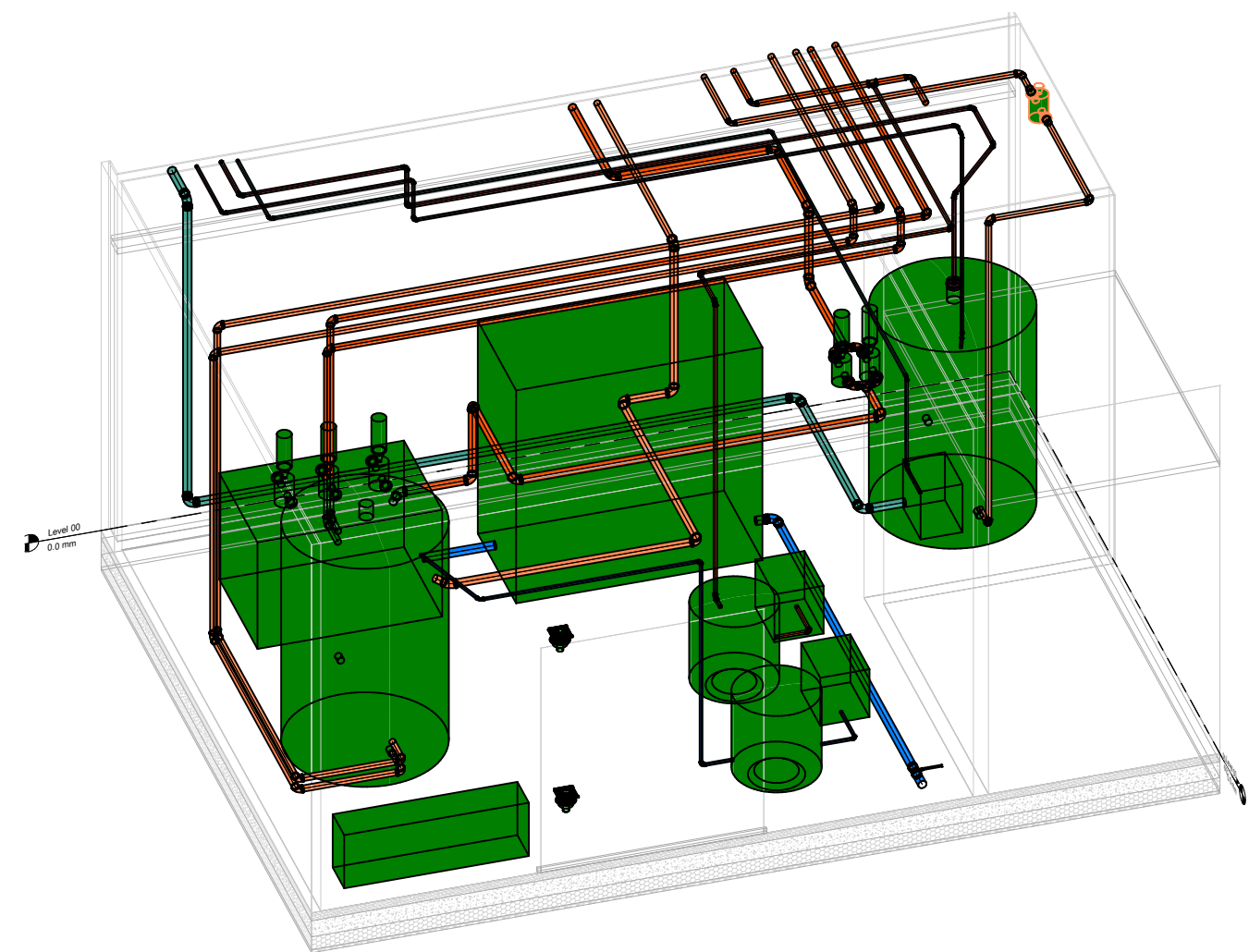
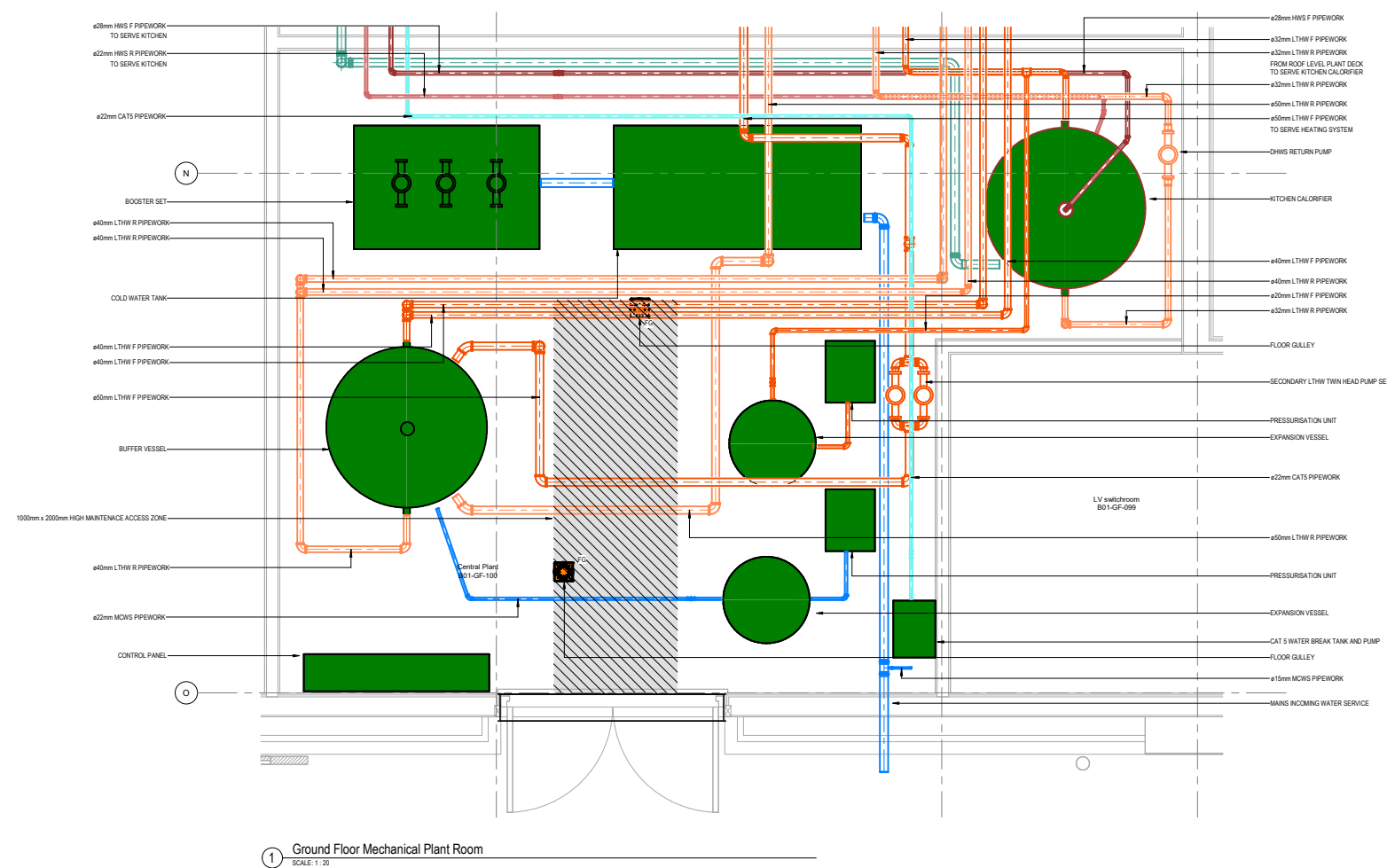
TYPE E - PRESENCE DETECTION, DIMMABLE TO 10% UPON NO PRESENCE DETECTED.

TYPE F - MANUAL SWITCHING

7.04 Roof Plant Layout



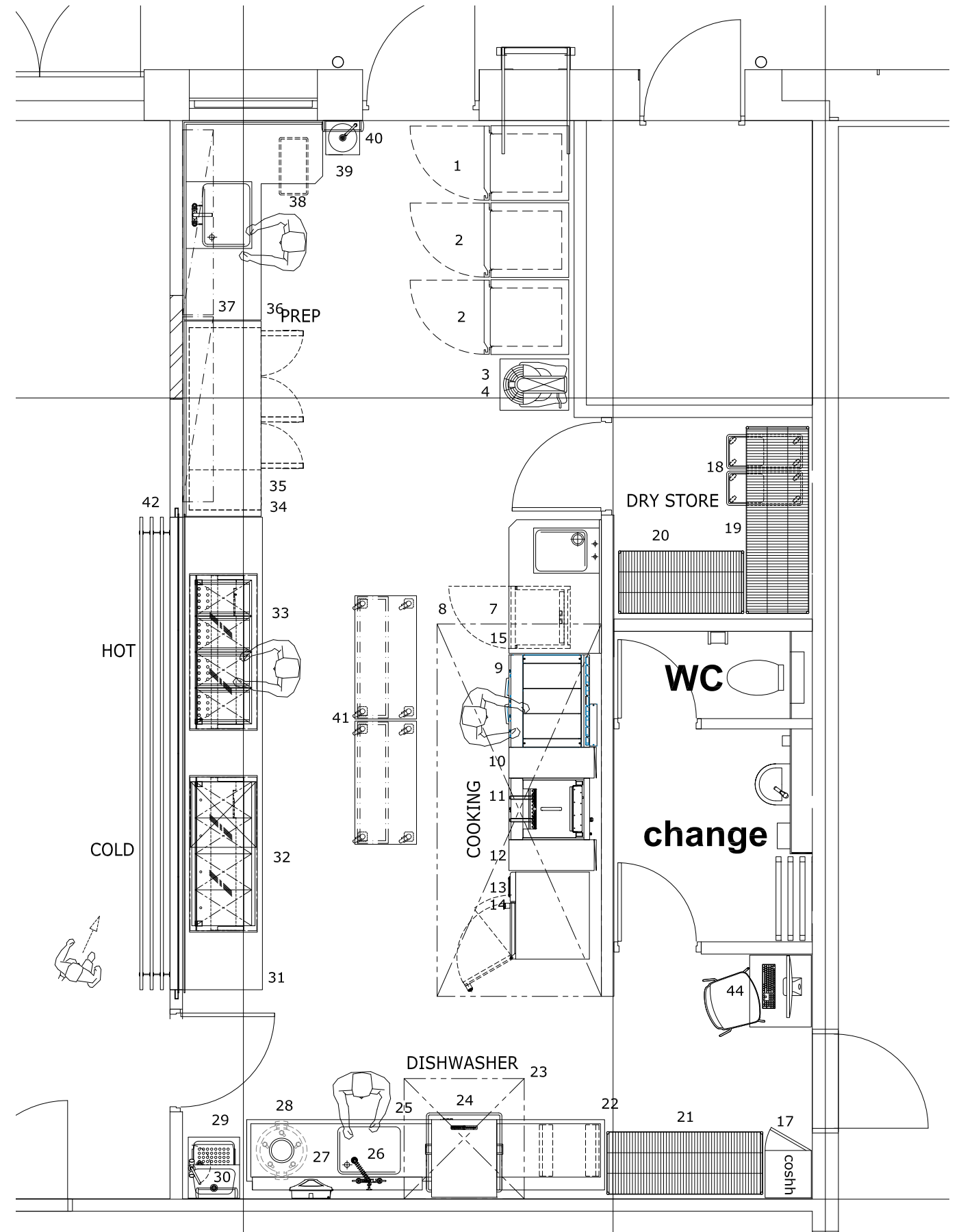
7.05 Plant Room Layout (GF)

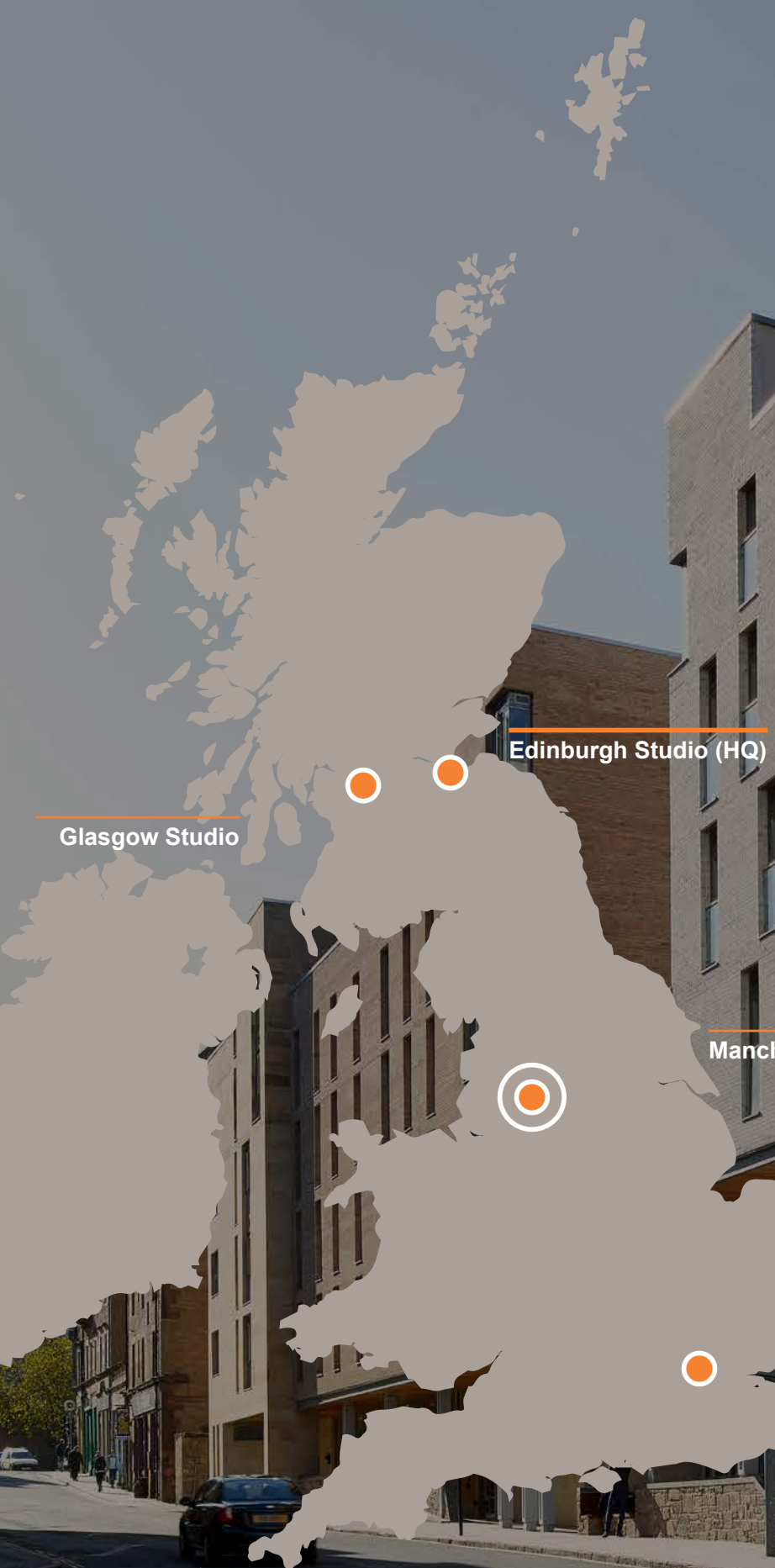
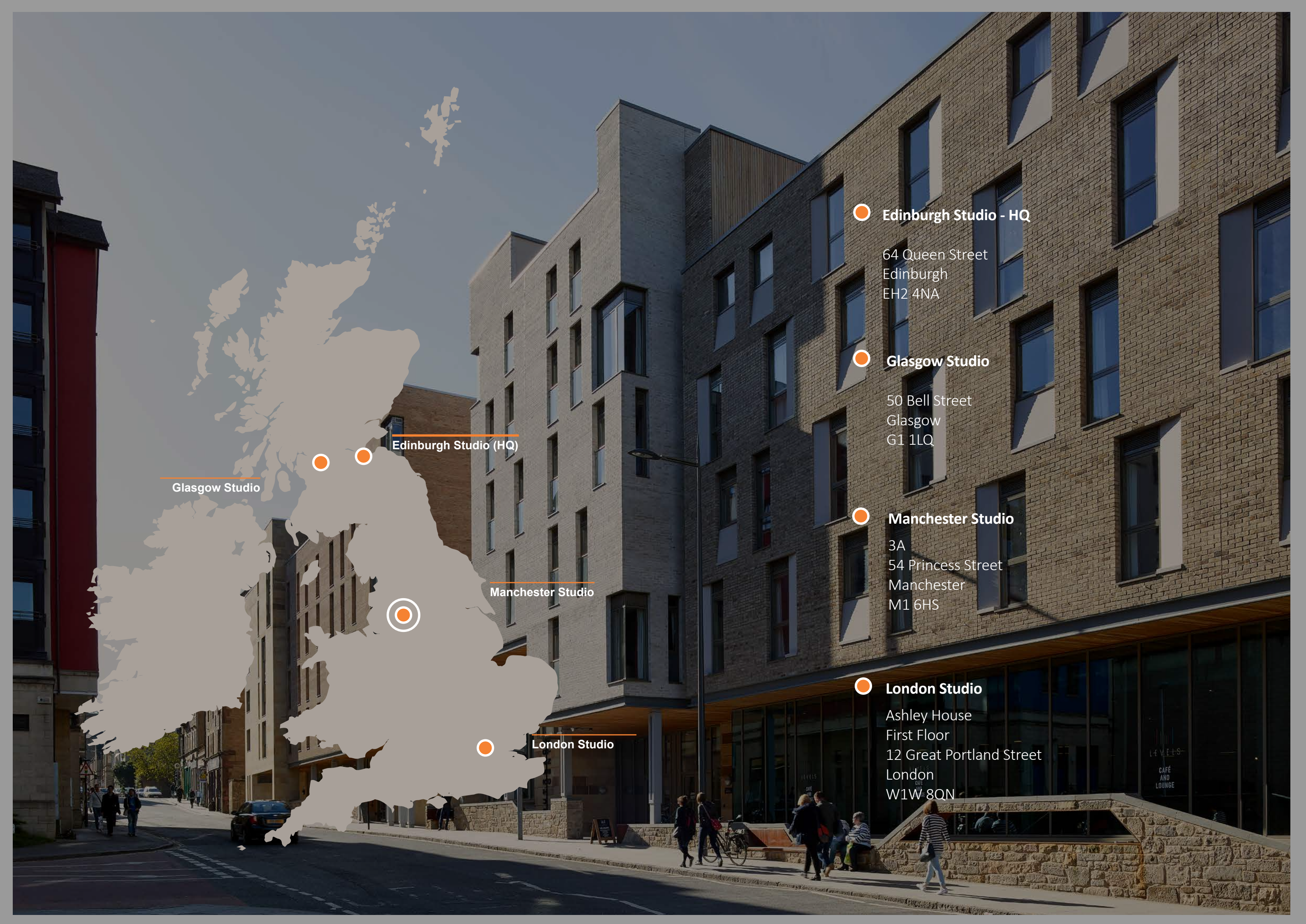


7.06 Catering Strategy

SCHEDULE OF EQUIPMENT

- 1::UPRIGHT FREEZER
- 2::UPRIGHT FRIDGES - 2 OFF
- 3::MIXER
- 4::MIXER STAND
- 5::OMITTED
- 6::OMITTED
- 7::U/C FREEZER
- 8::VENTILATION HOOD
- 9::ELECTRIC OVEN RANGE
- 10::S/S WORKTOP
- 11::TWIN FRYER
- 12::S/S WORKTOP
- 13::COMBINATION OVEN 10GN STACKED ON
- 14::COMBINATION OVEN 6GN
- 15::S/S WORKTOP/SINK
- 16::GP CART (NOT SHOWN)
- 17::S/S COSHH CUPBOARD
- 18::INGREDIENT BINS -2 OFF
- 19::STORAGE RACKING - 2 OFF
- 20::STORAGE RACKING
- 21::CLEANS STORAGE RACKING
- 22::S/S CLEANS OUTLET
- 23::CONDENSE HOOD
- 24::PASS THRU DISHWASHER
- 25::S/S DIRTIES TABLE/ PRE WASH SINK
- 26::SPRAY ARM
- 27::GREASE DOSING UNIT
- 28::SCRAPPING BIN
- 29::JANITORAIL SINK
- 30::FLYKILLER
- 31::SERVERY/ HOTCUPBOARD/TRAYSLIDE
- 32::DRIOP-IN CHILLED 4GN COLD WELL
- 33::DROP-IN HOT BAIN MARIE 4 GN
- 34::S/S WORKTOP
- 35::U/C 3 DOOR FRIDGE
- 36::S/S WORKTOP/SINK
- 37::S/S WALLSHELF - 2 OFF
- 38::BIN
- 39::WASH BASIN
- 40::FLYKILLER
- 41::MOBILE S/S ISLAND TABLES - 2 OFF
- 42::FIRE SHUTTER
- 43::RECYCLING / CLEARING STATION
- 44::DESK/CHAIR/PC - BY OTHERS





Glasgow Studio

Edinburgh Studio (HQ)

Manchester Studio

London Studio

Edinburgh Studio - HQ

64 Queen Street
Edinburgh
EH2 4NA

Glasgow Studio

50 Bell Street
Glasgow
G1 1LQ

Manchester Studio

3A
54 Princess Street
Manchester
M1 6HS

London Studio

Ashley House
First Floor
12 Great Portland Street
London
W1W 8QN

LEVELS
CAFÉ
AND
LOUNGE