

1.0	BUILDING STRUCTURE.
	<p>Substructure</p> <ul style="list-style-type: none"> ▪ Piled foundations to Structural Engineer's specification (SE spec.) ▪ Refer to Structural Engineer's specification for detailed information ▪
1.2	<p>Superstructure</p> <ul style="list-style-type: none"> ▪ Steel primary structural frame ▪ Details are provided in the Structural Engineer's specification ▪ Ground, first and second floor to floor heights are 2800mm ▪ The library gallery floor suspended ceiling height varies; refer to ceiling manufacturer's specification
1.3	<p>Frame and Floors</p> <ul style="list-style-type: none"> ▪ Steel circular columns designed as "pinned" sections. Refer to SE spec. ▪ 250mm concrete flat ground floor slab; smooth finish to exposed soffits to basement areas ▪ 350mm concrete flat first floor slab (staff mezzanine). Timber boarded finish to exposed first floor slab soffits. Perimeter toe to suit the cladding junction ▪ 350mm concrete flat second floor slab (library). Timber boarded finish to exposed second floor slab soffits to performance space. Smooth finish to exposed second floor slabs to staff areas. Perimeter toe to suit the cladding junction ▪ 350mm concrete flat third floor slab (library gallery). Smooth finish to exposed third floor slabs to library areas. Perimeter toe to suit the cladding junction. ▪ Lift shaft walls in situ concrete. ▪ Refer to SE spec. and drawings for detailed information
1.4	<p>Roof</p> <ul style="list-style-type: none"> ▪ 140mm composite concrete slab on metal decking carried metal trusses and beams to engineer's specifications. ▪ Insulated (inverted) flat asphalt roofing <p><u>Green roof</u></p> <ul style="list-style-type: none"> ▪ Extensive green roof consisting of sedum blanket on growing medium on combined filtration/drainage/separation/protection layer with ballast and perimeter paving for access <p><u>Screened roof top plant area</u></p> <ul style="list-style-type: none"> ▪ Paving to flat asphalt roof for plant access ▪ Steelwork frame to SE spec ▪ Steel Z purlins at centers as per SE spec to support solar water heating panels and perforated metal cladding over protective bird mesh ▪ High level metal walkway to provide maintenance access to solar water heating panels and perforated metal cladding
1.5	<p>Stairs</p> <p><u>Escape stair</u></p> <ul style="list-style-type: none"> ▪ Escape stairs to be precast concrete primary structure with lino finish and appropriate anti-slip contrasting nosing ▪ Painted mild steel balustrade and painted mild steel handrail with vinyl finish

	<p><u>Escape stair (continue)</u></p> <ul style="list-style-type: none"> ▪ Dry riser and remote opening smoke vent to top of north escape stair. ▪ Escape hatch with ladder <p><u>Central spiral stair</u></p> <ul style="list-style-type: none"> ▪ Spiral stair to be precast concrete primary structure with end grain timber and appropriate anti-slip nosing ▪ Ground to underside of library floor level: Timber balustrade incorporating sound absorbing material ▪ Library level: Glass balustrade ▪ Security barrier on second landing to be flush with wall when open. To be fastened into balustrade and floor when shut. <p><u>Linear stair from main library to library gallery level</u></p> <ul style="list-style-type: none"> ▪ Precast concrete primary structure ▪ Carpet finish with appropriate anti-slip and contrasting nosing ▪ Glass balustrade as per library level spiral staircase.
2.0	BUILDING ENVELOPE
2.1	<p>External Wall – Cladding</p> <ul style="list-style-type: none"> ▪ Preferred lightweight steel stud system: Lindab, Ayrshire metal or similar ▪ Preferred metal cladding supplier and manufacturer : James and Taylor <p><u>Typical wall construction</u></p> <ul style="list-style-type: none"> ▪ 12mm plasterboard, 50mm void for services, 12mm vapour check plasterboard, 252mm C studs with 250mm insulation between studs, 25mm thermal sheathing board, 50mm void with thermal insulation, 8mm Trespa rainscreen panel, perforated anodized aluminium cladding attached to metal top hat detail- thickness as per manufacturer's specification ▪ Metal cladding panels sequined from imperforate at ground level to apertures grading as per manufacturer's drawings ▪ To achieve U value of 0. 27W/m²K ▪ Where necessary, abseiling system of eyebolts to be incorporated between the cladding metal panels. <p><u>Sills and copings</u></p> <ul style="list-style-type: none"> ▪ Anodized aluminium copings with concealed fixings straps to Architect's details ▪ Reveals to inset windows as above, excluding the anodized perforated aluminium panels ▪ Color as per anodized aluminium panels.
2.2	<p>Windows, Glazed screens and External Doors</p> <ul style="list-style-type: none"> ▪ Preferred Manufacturer and System: Technal architectural aluminum systems pr similar approved ▪ Glass generally double glazed with 6/16/6 toughened or laminated with low E coating unless specified otherwise ▪ All external windows to be thermally broken ▪ To achieve U-value 2.2W/m²K ▪ Anodized aluminium frames with bronze anodized AA25 finish, to match cladding panels ▪ All doors to have Anti Finger trap styles ▪ Refer to window schedule for system components and dimensions

	<ul style="list-style-type: none"> Level threshold detail with drainage grating to doors at entrances and performing space <p><u>General Windows</u></p> <ul style="list-style-type: none"> MXGD section by Technal or similar approved. Concealed opening inserts with PX opening doors where appropriate <p><u>Windows to west elevation</u></p> <ul style="list-style-type: none"> FXi65 section by Technal or similar approved. With tilt and turn opening lights and ventilator with locking handles. <p><u>Windows to performance space</u></p> <ul style="list-style-type: none"> Same as above but with tilt and turn top hung opening lights and ventilators. <p><u>Glazed screens to LUL entrance</u></p> <ul style="list-style-type: none"> GGF section by Technal or similar approved. Anodized aluminium non thermally broken, single glazed Screen printed signage subject to LUL agreement <p><u>Glazed doors to staff kitchen terrace</u></p> <ul style="list-style-type: none"> PXi section by Technal or similar approved. Double leaf hinged doors, anodized aluminium, thermally broken <p><u>Glazed screens to south entrance and café area</u></p> <ul style="list-style-type: none"> MXSSG section by Technal or similar approved. Thermally insulated curtain walling system with screen printed signage to area shown. <p><u>Glazed screens to north entrance and café area</u></p> <ul style="list-style-type: none"> Same as south entrance Including spandrel panel and MXSSG glazed balustrade to staff kitchen terrace area. Incorporating french doors (PXi system) to café area <p><u>Entrance doors</u></p> <ul style="list-style-type: none"> All glass revolving doors, semi-automatic (push and go) with adjacent automatic disabled access door/fire egress Preferred Manufacturer and System for revolving door: G-U Technologies or similar approved Preferred System and Manufacturer for side door: PXi system (Technal) or similar approved <p>Additional items for revolving doors:</p> <ul style="list-style-type: none"> Turnstile: 4 rigid door leaves of 12mm clear toughened glass with slim frames, horizontal handles of stainless steel Patch locks on door leaves, EMCO mat, stainless steel floor ring <p><u>Performance space double height doors</u></p> <ul style="list-style-type: none"> Preferred Manufacturer and System: Clark Door or similar approved Double horizontal sliding power operated acoustical door, complete with electric operator and sealing system as per manufacturer's spec. Heading and vertical casings which form the frame to be bolted to the masonry wall Designed to provide attenuation as per acoustician's requirement of Rw40dB <p><u>Performance space escape doors</u></p> <ul style="list-style-type: none"> Preferred Manufacturer and System: Clark Door or similar approved Hinged in-fitting double leaf acoustic door complete with sub frame for building into a prepared opening. Designed to provide attenuation as per acoustician's requirement of Rw40dB Powder coated door and frame finish.
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	<p><u>Other ground floor doors</u></p> <ul style="list-style-type: none"> Solid core timber doors faced with 8mm Trespa panels to match reveals. 500mm high kick plate of 2mm anodized aluminium, color to match cladding, External threshold drainage channels to be installed for external doors to the north escape stair; café seating; performance space and main entrances side access doors
2.3	<p>Roof Terrace to north elevation</p> <ul style="list-style-type: none"> Structural slab as per SE's spec. Roof make-up and finish as per main roof Glass balustrade as described in windows section.
2.4.1	<p>Balconies to south elevation</p> <ul style="list-style-type: none"> Steel frame balcony bolted to concrete slab with thermal break. Steel grating deck with perforated aluminium to soffit. Glass balustrade bolted to steel frame as per engineers spec. Isolating washers to all junctions between steel and aluminium elements to prevent electrolytic action
2.4.2	<p>Balconies at south and southeast elevation – (for external window cleaning access)</p> <ul style="list-style-type: none"> Steel grating deck on steel frame with steel and cable balustrade. Structurally bolted to concrete slab with thermal break. All steel to be galvanized and powder coated.
2.5.1	<p>Floors - Ground</p> <p><u>Entrance area/ café/serverly/general circulation area</u></p> <ul style="list-style-type: none"> 20mm end grain timber blocks glued to 10mm plywood subfloor on 150mm screed. Preferred timber supplier: Naturally wood floors or similar approved Overall buildup above structural slab: 180mm Timber skirting to match floor To achieve U value of 0. 22W/m²K <p><u>Performance space</u></p> <ul style="list-style-type: none"> Partially sprung floor: 15mm engineered 3 layer timber blocks with 4mm end grain top layer on 30mm semi flexible support layer on 135mm screed. Non sprung floor at localized areas behind bleacher seating as shown on architect's drawing. Timber blocks directly fixed on additional 30mm screed to support bleacher seating weight.
2.5.2	<p>Floors – Staff Mezzanine</p> <p><u>All staff areas except kitchen staff area</u></p> <ul style="list-style-type: none"> Carpet tiles on 450mm raised access floor comprising of metal encased panels on pedestals. <p><u>Kitchen staff area</u></p> <ul style="list-style-type: none"> Linoleum tiles on 450mm raised access floor, as above, returning to form skirting.
2.5.3	<p>Floors – Library</p> <p><u>All library areas except children's' library area</u></p>

	<ul style="list-style-type: none"> Carpet tiles on 175mm raised access floor comprising of metal encased panels on pedestals. <p><u>Children's library area</u></p> <ul style="list-style-type: none"> Linoleum tiles on 175mm raised access floor, as above, returning to form skirting.
2.5.4	<p>Floors – Library Gallery</p> <p><u>All library areas</u></p> <ul style="list-style-type: none"> Same as main library areas.
3.0	INTERNAL FINISHES - GENERAL
3.1	Lifts
3.1.1	<p>Passengers Lifts</p> <ul style="list-style-type: none"> 2 No. 17 person lifts as per ME's specifications End grain timber blocks, as per ground floor specification Timber skirting to match floor Satin stainless steel (s/s) wall panels with half mirror to one wall Satin s/s doors and architrave Powder coated ceiling panel with recessed spot lights and concealed fluorescent lighting DDA compliant
3.1.2	<p>Books Lift</p> <ul style="list-style-type: none"> As per ME's specifications, without mirror
3.2	Ceilings
3.2.1	<p>Ceilings- Main Library/Learning Facilities/Meeting rooms</p> <p><u>Ceiling</u></p> <ul style="list-style-type: none"> Panels preferred supplier: Decoustic or similar approved Ceiling fixing system preferred manufacturer: Cowley Timberworks or similar approved Suspended ceiling to follow bottom chord of the main steel roof trusses at varying centers from 4.0 to 7.5m Ceiling primary support beams to be 90 x 200 to 300mm deep Glulam positioned on the steel bottom chord at around 1500mm ccs. Secondary support to be 50 x 150 TR26 grade timber at 1200ccs on the Glulam. Allow simple jointing to both elements to enable easily achieved correct positioning. Demountable 24mm glass fiber panels with coating, Claro finish or similar, cut triangular with 1200mm long sides, Class A as per acoustician's specification. Panels' support at each corner by threaded steel studding and/or timber hangers from the secondary joists. Quick release hanger fixings for maintenance access. <p><u>Roof lights</u></p> <ul style="list-style-type: none"> Preferred supplier: Glazing Vision or similar approved Flushglaze style, flat, double glazed roof light units on insulated raised kerbs Glass: 6mm toughened outer pane, 16mm black silicone sealed spacer, 6mm Low E coated toughened inner pane. <p><u>Shaft between ceiling and roof lights</u></p> <ul style="list-style-type: none"> Lined in glass fiber panels, as per ceiling specification
3.2.2	Ceilings- WCs

	<ul style="list-style-type: none"> Suspended ceiling system with integrated ventilation grill and lighting Removable panels for access to services.
3.3	<p>Internal partitions -General</p> <ul style="list-style-type: none"> Partitions thickness and construction subject to acoustic requirements per area : refer to acoustic report regarding partitions' acoustic requirements per area Drywall type construction: 12.5mm plasterboard on metal stud (insulation when required) 2 coats emulsion paint to dry lining Gloss finish to MDF skirtings
3.3.1	<p>Internal partitions - Ground floor areas</p> <p><u>Main entrance/café/servery/ circulation areas</u></p> <ul style="list-style-type: none"> Boarding with 75mm vertical timber battens, to suit timber floor finish Complete with timber skirting to match floor <p><u>Performance space area</u></p> <ul style="list-style-type: none"> Boarding with 75mm vertical timber battens veneered to 10mm wide mineral fiber backing Complete with timber skirting to match performance space floor
3.3.2	<p>Internal partitions - WCs</p> <ul style="list-style-type: none"> Full height stud wall partitions- subject to LBS confirmation Ceramic tiles finish, floor to ceiling
3.4	Internal doors
3.4.1	<p>Internal doors- Ground floor</p> <ul style="list-style-type: none"> Timber veneered solid core fire doors - refer to door schedule for components locations and dimensions Refer to fire consultants report for fire rating
3.4.2	<p>Internal doors- Other floors</p> <ul style="list-style-type: none"> Laminate faced solid core fire doors- refer to door schedule for components locations and dimensions Satin stainless steel kick plates at 300mm Satin stainless steel door ironmongery and statutory signage
3.4.3	<p>Internal access doors to service ducts</p> <ul style="list-style-type: none"> Timber veneered solid core fire doors on the ground floor- refer to door schedule for components locations and dimensions Laminate faced solid core fire doors on all other floors- refer to door schedule for components locations and dimensions
3.4.4	<p>Architraves</p> <ul style="list-style-type: none"> Timber to match wall cladding on ground floor Painted MDF on upper floors

4.0	INTERNAL FEATURES - GENERAL
4.1	<p>Bathrooms</p> <ul style="list-style-type: none"> ▪ Ceramic floor mounted WC with matching seat and cover. Geberit concealed dual flush cistern and framing including access panel, or similar approved ▪ Ceramic wash hand basin with automatic flow control, chrome finish taps ▪ Wall mounted ceramic urinals with PRI control water supply ▪ Wall mounted mirrors above wash hand basins ▪ Electric hand dryers ▪ Stud wall partitions to individual booths subject to LBS confirmation, tiled finished floor to ceiling with laminate face doors
4.2	<p>Kitchens</p> <ul style="list-style-type: none"> ▪ High efficiency white goods ▪ High and low level storage units with hardwood worktops ▪ Tiled splash back to all walls over worktops ▪ Two 600mm shelves in stainless steel ▪ Stainless steel plinth to match splashback ▪ Power sockets and switch plates as per M+E engineers' spec.
4.3	<p>Plant rooms</p> <ul style="list-style-type: none"> ▪ Transformer room: finishes to EDF specification ▪ Waterproofing as per SE's spec.
4.4	<p>Performance space</p> <p><u>Bleacher seating</u></p> <ul style="list-style-type: none"> ▪ Preferred manufacturer: Hussey Seatway or similar approved. ▪ Benches with steel framed bench backrest, manual folding. ▪ Preformed plywood seats and back structure with fully contoured upholstery ▪ Veneered or paint finished front fascia boards. <p><u>Technicians Gallery</u></p> <ul style="list-style-type: none"> ▪ Steel grating flooring on steel frame structure, steel balustrade, powder coated finish
4.5	<p>LUL entrance</p> <ul style="list-style-type: none"> ▪ Reinstate existing floors, wall finishes and lighting as per LUL requirements ▪ Thermal insulation to soffit of slab above LUL entrance
4.6	<p>Café servery</p> <ul style="list-style-type: none"> ▪ To be specified following response from prospect café operators. ▪ For services refer to ME's specs
4.7	<p>Main library area items</p> <p><u>Furniture</u></p> <ul style="list-style-type: none"> ▪ Quantity and location noted on drawings. ▪ Subject to further discussion with LBS

	<p><u>Shelving</u></p> <ul style="list-style-type: none"> ▪ Built-in, fixed, painted mdf shelving ▪ Positions at main library and library gallery areas as indicated at drawings. <p><u>Seating</u></p> <ul style="list-style-type: none"> ▪ Built-in, fixed seating at children's library area, as indicated at drawings ▪ Ply construction, finish in lino to match floor finish. <p><u>Library gallery balustrade</u></p> <ul style="list-style-type: none"> ▪ Raking glass balustrade with laminate finish workstations, as indicated at drawings. ▪ Manifestation as necessary. ▪ Fixing detail to concrete slab as per engineer's specification <p><u>Signage</u></p> <ul style="list-style-type: none"> ▪ Non statutory signage specification to follow, subject to further discussion with LBS.
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