

4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

GENERALLY

- A The following sections are to be read in accordance with preliminaries, preambles, drawings and the Pre Construction Health & Safety Information.
- B The main contractor is to act as Principal Contractor in accordance with the Construction (Design & Management) Regulations 2007 and is therefore to allow for the provision of all necessary site welfare facilities in order to satisfy the requirements of the regulations including for the following:
- Toilets
 - Hand washing facilities (hot and cold water)
 - Changing and drying rooms where necessary
 - Somewhere to take a break from works and be able to heat up food
 - A supply of clean drinking water
- C The contractor is to ensure that a full time working site foreman is in attendance on site for the duration of the works.
- D The contractor is to check all dimensions where specified on site prior to ordering any materials.
- E This schedule when completed by the contractor:
- Will be used for valuing variations and interim certificates only. It shall be priced in detail with breakdown of any extra costs, which the contractor wishes to be separated.
 - Preliminaries shall be priced separately in section 1 of the specification. The contractor is to include a full detailed breakdown of the preliminaries.
 - The schedule is to be proceed in conjunction with all items of works indicated in both preliminaries and on the drawings detailed in clause A11/120. Any items of works noted in the drawings but not directly indicated in the schedule are to be included within the tender return price.
- F All works are to conform to Building Regulations. The contractor is to include to liaise with the Building control Officer at London Borough of Brent throughout the project and include their sign off certificate within their O&M manuals.
- G The works are deemed to include for everything necessary for the complete execution of the works and for the full and proper operation of the installation, including all sundry components. The work also includes the whole of the labour and supply of the materials unless otherwise stated, to enable complete occupation of the new and modified areas by the client. All finishes to be as specified. All work to be in accordance with current legislation and good working practice.
Visible surface run cabling and pipework will not be permitted.

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- A Display at all times safety notices fully in accordance with the construction (Health, Safety and Welfare) Regulations 1996.
- B If additional areas of works are identified by the contractor during tendering, these are to be priced and stated in a covering letter accompanying the returned tender. Should additional works be identified during the contract that should have been foreseen by the contractor during tendering, the costs for such works shall be borne by the contractor.
- C The contractor is to undertake schedule of condition photographs of the school (internally and externally) prior to the commencement of the works. These are to be issued to the CA for approval.
- D Failure to provide all required information with the returned tender submission will result in automatic disqualification of the tender.
- E The contractor must allow for all necessary scaffolding, access platforms/lifts, chutes and hoists to necessitate the full extent of the works.
- F Allow to provide skips as necessary, within the site compound. All debris must be cleared away at the end of each working day, leaving the site area tidy. Arrange for the skip to be cleared at suitable intervals to ensure that rubbish is not left within the site area, in order to reduce health and safety risks.
- G The contractor is to maintain the site waste assessment and submit regular reports at progress meetings.

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EXPLANATION

- A The works comprise of the following, to construct new single storey building to provide 4 No. Classrooms, Group Rooms, and associated areas.

PHASING OF THE WORKS

- B The works are to be phased as follows to avoid any prolonged lengths of disruption to the normal operation of the school. All mechanical and electrical services are to be kept running, with any interruption minimised and scheduled to cause minimum disruption to the school.

MAIN WORKS 04/01/10 – 27/08/10 (34 Weeks)

- C For the purposes of tendering and programming, the contractor should be aware of the following school holiday dates:

Spring Half Term: 15th February 2010 – 19th February 2010
Easter Holiday: 5th April 2010 – 16th April 2010
Summer Half Term: 24th May 2010 – 28th May 2010
Summer Holiday: 23rd July 2010 – 1st September 2010

- D The contractor is to note and allow for the following to be classed as 'normal' working hours:

08.00 hrs – 17.00 hrs, Monday to Friday inclusive.

NOTE: Within the academic school term, there are restricted delivery times for the school- No deliveries between 8.30 and 9am, or 3pm and 3.45pm to avoid school drop off and pick up times.

- E Access into the school will be limited to outside of the above hours and to school holiday periods to run services within the existing school building. The contractor is to allow for these restrictions within their pricing and programming.

- F A comprehensive and detailed project programme **must** be included within the submitted tender documents including full allowance for M&E works.

- G The works may be undertaken during normal working hours, but will be subject to restriction in order to accommodate safe movement of staff and children around the site, and must be phased to ensure continued operation of the school for the duration of the works. The contractor is to prepare a detailed contract programme prior to commencement of the works including all trades and dates for the works to commence on site.

- H The contractors attention is drawn to potential vehicle movement, and general access restriction in the area around the site for the delivery and removal of materials. The contractor is to make all necessary enquiries and allowances to ensure that both external and school restrictions do not impinge on the contract programme.

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GENERAL PROTECTION TO ALL PHASES

- A The contractor shall allow for the protection of all existing (retained) internal and external finishes, fittings and equipment etc during the execution of the works. Any damage caused by the contractor to the existing and new finishes, fittings and equipment shall be made good at the contractor's own expense upon completion of the works.
- B The school is to remain fully operational for the school duration of the works. The contractor is to ensure that the health, safety and welfare of pupils, staff and visitors to the school is in no way compromised as a result of the works.

NB: Standards of workmanship and quality of materials, which are not specifically identified within the works section, have been comprehensively specified within the materials and workmanship section and must be read in conjunction with this schedule.

DRAWINGS

- C The works detailed within this specification refer to the areas indicated on the following drawings:

4282/99	Existing Site Survey
4282/100	Proposed Ground Floor Plan
4282/101	Proposed Below Roof Layout and reflected Ceiling Plan
4282/102	Proposed Roof Plan
4282/103	Foundation and setting out Plan
4282/104	Elevations Sheet 1 of 2
4282/105	Elevations Sheet 2 of 2
4282/106	Cross Section A-A and Details
4282/107	Cross Section B-B and Details
4282/108	Cross Section C-C and Details
4282/109	Cross Section D-D and Details
4282/110	Drainage Layout Plan
4282/111	External Works Plan
4282/112	External Window/Door Schedule and Screens
4282/113	Glass Screen Details
4282/114	Typical Internal Wall Casing Details
4282/115	External Balustrade Details
4282/116	Resource Wall Details
4282/117	Contractors Site Set Up Drawing
H39140/01	Structural Drawing – Foundation Plan
H39140/02	Structural Drawing – Ground Floor Plan Showing Structure over
H39140/03	Structural Drawing – Ceiling Level Structure & Cross Section 1-1, Typical Base Detail.
H39140/04	Structural Drawing – Ground Floor Reinforcement Plan

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H39140/05	Structural Drawing – Pile Setting Out and Pile Load Table
BS 001/01	Bar Bending Schedule sheet 01 (Appendix A)
BS 001/02	Bar Bending Schedule sheet 02 (Appendix A)
H39140/01 to 17	Structural Calculation Sheets (Appendix B)
H39140 GB01 to GB07	Structural Calculation Sheets (Appendix B)
4282/E01	Electrical Services – Proposed Lighting Services Layout
4282/E02	Electrical Services – Proposed Small Power & Data Services
4282/E03	Electrical Services – Proposed Fire Alarm & Security Services Layout
4282/E04	Electrical Services – Proposed Containment Routes for Electrical Services
4282/M01	Proposed Ground Floor Layout – Mechanical Services Within Existing School
4282/M02	Proposed Ground Floor Layout – CWS & HWS Services
4282/M03	Proposed Ground Floor Layout – Heating & Ventilation Services
4282/M04	Proposed Ground Floor Layout – Heating and Water Services Schematic.

PRELIMINARY / TEMPORARY WORKS

- A Allow to supply and install 2.0m high temporary timber hoarding as indicated on drawing No. 4282/117 to the perimeter of the site area to ensure that entire area is enclosed and cannot be accessed by unauthorised personnel.
- B The contractor is to include for all access constraints to the site. The proposed access route is via the gate adjacent to the proposed building off Lawrence Way. Access will only be permitted outside of school break/lunch, start and finish times, to ensure minimum risk in terms of health and safety to the building occupants. A banksman must accompany all vehicles across the proposed access route.
- C Relocation of Fence to Play Area: Allow to relocate the existing chain link fence to the play area as shown on drawing No. 4282/117 include for all posts, concrete supports to suit the application.

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STRIP OUT

- A The contractor is to view the schools asbestos survey (included within Appendix C) for any modification works to the existing building including for running new services for the proposed classroom block. Any asbestos materials which need to be removed from site, will need to be undertaken by an asbestos approved contractor, and only carried out during out of school hours the school holiday periods.
- B **Asbestos materials are identified as being within the floor tiles within the existing classrooms/corridors to the areas indicated within the report.**
- C The contractor is to include to remove floor tiles locally to enable the services as detailed on drawing No. 4282/M01. To be run through the store within classroom and below the floor to the underground duct location underground.
- D Under controlled conditions, allow for a licensed asbestos contractor to remove the floor tiles and dispose of within a licensed tip. Allow for all builders work in connection thereto. Contractor to provide details prior to commencement, together with copies of proposed licenses relating to the asbestos removal, transportation and disposal. All works to be in compliance with current Regulations and HSE Guidance. (All applicable costs in connection with the asbestos removal and monitoring to be provided here)
- E On completion of all cleaning and removal of all debris, the contractor shall arrange for visual site clearance checks and air monitoring to be carried out to the whole of the work area as required.
- F All required air monitoring shall be carried out, in full accordance with Guidance Note H10 from the Health & Safety Executive, and in particular the correct number of samples must be carried out in accordance with the guidelines dependent upon the size of the work area involved. A copy of air monitoring results/certificate shall be provided on completion of the works.

SITE PREPARATION / CLEARANCE

- G The existing timber fixed gazebo is to be carefully dismantled and set aside for reinstallation at a later date as detailed later in the schedule of works. New position to be agreed with the school on site.
- H The existing timber stage area is to be carefully dismantled and set aside for reinstallation at a later date as detailed later in the schedule of works. New position to be agreed with the school on site.
- J The existing timber fence to the habitat area is to be dismantled and removed from site.

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- A Existing Benches (3No.) are to be carefully dismantled and set aside for reinstallation at a later date as detailed later in the schedule of works. New positions to be agreed with the school.
- B Clear site area shrubs and planting.
- C Remove tarmac (and base) and topsoil to a depth of 200mm across the site in preparation for the new extension works and muck away.
- D Allow to reduce levels as necessary to enable installation of ground beams, pile caps, foundations etc and to allow for void below the new precast concrete floors to the proposed classroom block, all as detailed on structural drawings Nos H39140/01 and 03.
- E Allow to reduce levels as necessary to enable excavation to suit new external surfaces finish levels and internal floor levels as shown on project drawings. Excavate / fill as necessary to enable access and level bases for foundations.
- F A soil report is included in Appendix D. The report notes slightly elevated levels of contamination within the made ground encountered at this site. The contractor shall allow to undertake any further testing deemed to be necessary to dispose of said materials. The contractor is to allow for disposal of arising assuming slightly elevated levels of contamination within the made ground in accordance with Albury SI Report and test results.
- G The landfill directive indicates that there is a duty of care that all controlled wastes are transferred to an authorised person on site. The waste holder should take all reasonable steps to ensure that there are no unauthorised deposits and documentation is maintained for the movement and management and should include a List of Wastes code, in accordance with the 2005 Regulations. The soils description and contamination test results should be used by the waste producer to provide a List of Waste Code and thus identify sites which will accept the excavated materials.
- H The contractor is to be responsible for establishing the exact depth and location of drainage, electric and gas serve runs prior to commencement of excavation works. All excavation works are to be carried out carefully in order not to damage existing service runs where these are to be retained.
- J Provide all necessary formwork, shoring and ground water control as necessary to carry out piling operation.

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TREE PROTECTION

- A All trees indicated on drawings to be retained are to be protected. Protection to be erected prior to any operations, demolition or construction works are carried out. The contractor is to allow for the provision of suitable tree and canopy protection to areas indicated on drawing 4282/117 in accordance with BS5837:2005 Section 9. All protection fencing to be well braced and robust, minimum height of 1200mm.
- B Fencing to tree protection zones should be constructed of scaffold tube uprights (set at 3m interval with diagonal braces driven securely into the ground). Faced with heras type fencing attached to uprights with steel strapping or scaffold clamps sited along the protection zone perimeters as indicated on drawings.
- C The fencing shall completely exclude access during the construction process. The protected areas shall not be used either for the storage of materials or spoil not for the mixing of substances or the disposal of any residues note shall be allowed to be contaminated by run-off from activated beyond the protection zones.

PILED FOUNDATIONS (CONTRACTORS DESIGN PORTION)

- D The contractor is to employ a specialist piling contractor to design and undertake 30 No. non driven pile foundations and ground beam as per details on Structural Drawings. The piling contractor is to comply with the latest edition of the Specification for Piling and Embedded Retaining walls (SPERW) unless specified otherwise in this section.
- E The contractor is to allow for a pile matt if required to be installed to house the piling rig, and then for the removal of such matt upon completion of the works.
- F Piles are to comply with the following requirement as stated by the structural engineer and as indicated on drawing H39140/01 & 05:
- Piles to be designed for a Factor of Safety 3.
 - Piles are to be designed for the effects of negative skin friction, either by suitable tension reinforcement or sleeving the top of the pile length.
 - All piles are to be integrity tested.
 - Concrete grade to be RC35
 - All concrete to be fully vibrated
 - Reinforcement details to be as outlined in Bar Bending Schedule

- G Ground beams to be cast onto piles as structural engineers details, in a continuous strip with reinforced steel bars.

- H Internal and external pile and ground beam details to be protected with 175mm Coredek Cellcore and 50mm Coredek Claymaster compressible cellular polystyrene as per structural engineers details.

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- A In addition to the information listed in SPERW table 1.1, submit the following information with tender returns:
- Proposals for reducing noise and vibration from different piling operations and the effect of distance on attenuation.
 - Method of penetrating obstructions presented by former foundations or other man made detritus left in the ground.
 - Methods of locating and avoiding critical services. Methods of controlling piling operations to ensure compliance with design including setting out.
 - Details of size and weight of plant to be used.
 - Proposals for protection of adjacent facades.
 - Proposals for working close to existing facades.
 - Confirmation that the installation of piles will not damage adjacent structures / services.

PAD FOUNDATIONS AND GROUND BEAMS

- B Excavate trenches for new ground beams and pad foundations below all new blockwork walls and structural columns as indicated on drawings H39140/01 & 04, along and cart away spoil.
- C Set aside suitable material for backfill and dispose remainder off site. Provide all necessary formwork, shoring and ground water control as necessary. The formation level of all foundations is to be inspected by the Building Control Officer and CA prior to concreting.
- D Supply and pour Grade RC35/20 to BS 5628 into ground beams/pad foundations, as per structural engineers details, inclusive of reinforcement bars (as detailed on drawing H39140/01 & 04 along with Bar Bending Schedules). Ensure top of foundations are level. Provide all necessary compacting and vibration to concrete.
- E Supply and pour pad foundations for external feature curved beam as per structural engineers drawing No. H39140/01. Allow for 900x900x1000dp, NB final depth to suit site conditions.
- F Supply and install 8 No. RC35 Polished concrete plinths by Specialist for external feature curved beam as per structural engineers drawing No. 39140/01 and drawing No. 4282/113. Include to supply and install 20dia 300 long s/s dowel fixing bar. Sample to be agreed by DHP prior to manufacture.

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SLAB FOUNDATION FOR AIR SOURCE HEAT PUMPS

A To area shown on drawing 4.2m x 2.2m No. 4282/111 provide the following ground bearing slab comprising the following:

- 200mm minimum DoT type 1 granular fill fully compacted.
- Blinded with either sand or lean mix concrete..
- 250mm thick A252 mesh reinforced concrete slab mix ref: RC30.

Allow for all excavations and penetrations for services.

BELOW GROUND DRAINAGE WORKS

B Prior to commencing excavation works, identify location of service runs within immediate area and suitably protect / avoid. Excavate trenches for new drainage runs as shown on drawing No. 4282/110. Set aside suitable material for backfill and dispose of remainder off site.

C Provide additional rodding eyes and traps as necessary to ensure that all drainage runs can be maintained. New drainage runs to have a minimum gradient of 1:60 and 1:40 as shown on drawing No. 4282/110.

New External Manholes/inspection chambers (Combined arrangement)

D Allow for forming new inspection chambers as follows. Cover level and depth of inspections chambers to be as indicated on drawings No. 4282/110:

E Excavate and construct 4 No. new plastic inspection chambers length as indicated on drawing No. 4282/110 x 450mm wide. New inspection chambers to have heavy duty iron seat and cover (cover size as indicated on drawing 4282/110. Top of inspection chamber covers to be at same level as top of surrounding surface finish. Form new benching and connections for new foul/surface water drainage runs. Inspection chambers to be Marley Deep inspection chamber system or similar approved. Allow for all inlets, connections etc required to suit the drainage layout.

F Excavate and construct 5 No. (MH5 to MH9 inclusive) new plastic inspection chambers, lengths as indicated on drawing No. 4282/110. New inspection chambers to have heavy duty iron seat and cover (cover size as indicated on drawing No. 4282/110) Form benching and connection for new drainage runs. Top of manhole to be at same level as top of surrounding surface. Form new benching and connections for new foul/surface water drainage runs. Inspection chambers to be Marley Deep inspection chamber system or similar approved. Allow for all inlets, connections etc required to suit the drainage layout.

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- A Allow to rebuild 1 No. existing external manhole MH10, to be constructed from 1 brick thick class B engineering brick on 200mm thick GEN 3 concrete base. Allow to form new benching and connections to new and existing drainage runs. New manhole to have heavy duty iron seat and cover. Top of inspection chamber cover to be at same level as top of surrounding surface finish.
- B Allow for supply and install new 100mm diameter plastic pipework on granular bed (Class Y beds), to connect all below ground surface water drainage as indicated on drainage plan 4282/110 and details.
- C Allow to supply and install to 2 No. areas with new Marshalls 'Charmwood' textured concrete paving, new Drainage channel M100D brickslot channel system and Gullies. Include for all necessary components and accessories to connect to new underground drainage system in order to provide sufficient drainage and in accordance with manufacturers recommendations. To connect to main drainage system via a trapped Gully.
- D Allow to alter / adapt benching within existing and new inspection chambers as necessary, and form new connections at existing main drainage run for new pipework to link new installation to main run via swept bends cast into benching.
- E On completion of underground drainage works, following inspection by Building Control and CA, reinstate surfaces as follows:
- Externally (macadam surface), backfill (as preambles Q20) and reinstate external areas with macadam base and wearing courses as preambles clause Q22. New surface to be level with existing macadam complete with hot pour bitumen seal at joints between old and new.
 - Externally at soft landscaped area, with suitably compacted hardcore to a depth of 200mm below finished grass /soil level and the finish with top soil / turn to existing levels.
 - Internally, reinstate concrete slab, inclusive of repair / reinstatement of floor slab DPM and provision of mesh reinforcement tied into existing exposed reinforcement – all ready to received new floor finish.
- F All covers to inspection chambers, trapped gullies, drainage channels and rodding eyes to be level with the relevant floor / external surface finish.
- New Pumping Chamber**
- G Excavate and construct new pumping Chamber at position MH11.
- Supply and install new TT Pumps Saturn 3m package pumping station 1500mm diameter x 3000mm deep or similar approved. All in accordance with manufacturers instructions. Include for all required concrete surrounds, and inlet pipework. All in accordance with installation drawing Nos. PP6300E & PP0012C (Included in Appendix E)
- To Collection
3/11

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Supply and fit new New manhole cover to be heavy duty iron seat and cover. Top of inspection chamber cover to be at same level as top of surrounding surface finish.

Pump to serve Foul Water from 1x WC, 5 No. Sinks and Storm Water from 450m² area.

Pump Duty to be: Flow 8.00 L/s
 Total Duty Head 2.63m

Operational Mode Auto (duty/standby)

Control specification: Panel – Steel enclosure c/w run/trip indicators,
 high level warning alarm & volt free contacts.
 Level Control – 3 No. Float Switches.

Chamber Model – Saturn
 Diameter 1.5m
 Depth 3.0m
 Inlet Size 150mm/D 160mm Outside Diameter.

Include for extras 160mm Inlet assembly
 Easy touch anti-flood inlet valve (160mm)

The contractor is to include for all civil works relating to the installation of the package pumping station, excavation/backfilling with concrete etc, pipework connection, installation and commissioning. All in accordance with civil installation diagram TT Pumps PP/0012/C, and installation manual, included in Appendix E.

The contractor is also to refer to all electrical works detailed in the electrical specification for the pump, and all builders work in connection with the electrical supply i.e ducts detailed on Drawing No. E04 & M04.

The controls are to be situated within the Plant Room, the contractor is to include for all control wiring to pumps within trench.

Foul Drainage Internally

To new Accessible WC and classrooms (as indicated on drawings), provide new 100mm diameter drainage runs to provide foul waste. Allow for all necessary connections between stub stacks, inspection chambers and waste runs. All waste pipework to be set on suitable bedding. New drainage runs to have a minimum 1:40 gradient.

Provide (100mm x thickness of wall with minimum 150mm end bearings) Bournecrete concrete lintel and suitable flexible bed (50mm polystyrene) where new drainage runs pass through walls.

A

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A Complete detailed design and supply and neatly install suitable Hunter Plastics PVC-U to BS 3505 compression fitting plastic waster system to the following sanitary ware etc. Provide connections internally to all necessary new stub stacks and below ground drainage. Above ground drainage to be concealed behind panelling and within partitions. All stub stacks to be fitted with air admittance valves.

B **Classrooms 1 to 4 inclusive:**
- 1 No. To each new sink unit / drainer – 42mm trapped waste
- 1No. To each classroom – Water fountain – 42mm trapped waste.

C **Accessible WC**
- 1 No. WHB's – 35mm trapped waste (with anti siphon valve)
- 1 No. WC's connected via new 100mm header

STEELWORK

D In accordance with structural engineers drawings and calculations instruction, allow for the supply and installation of the following steelwork:

B1	203x133 UB 30 Curved
B2	203x133 UB 30 Curved
B3	150x75 PFC Curved
B4	178x102 UB 19 Curved
B5	203x133UB 30 Curved
B6	203x133 UB 30 curved
B7	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B8	152x152UC 23 High Level
B9	150x75 PFC 18
B10	150x75 PFC 18
B11	203x133 UB 25 tie high Level.
B75	150x75 PFC Wall Head Restraint
B12	203x133 UB 25 tie high Level.
B76	150x75 PFC Wall Head Restraint
B13	150x75 PFC 18
B14	150x75 PFC 18
B15	152x152UC 23 High Level
B16	215x585 deep Glulam Beam (Specialist to confirm Sizings)
B17	254x146UB 31 Curved

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B18	215x585 deep Glulam Beam (Specialist to confirm Sizings)
B19	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B20	152x152 UC 23
B21	203x133UB 25 tie high Level.
B22	203x133 UB 25 tie high Level.
B23	152x152 UC 23 High Level
B24	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B25	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B26	254x146 UB 31 Curved
B27	305x165 UB 40 Curved
B28	254x146 UB 31 Curved
B29	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B30	152x152 UC 23
B31	203x133 UB 25 Tie
B32	178x102 UB 19
B33	178x102 UB 19
B34	178x102 UB 19
B35	178x102 UB 19
B36	203x133 UB 25 Tie High Level
B37	152x152 UC 23 High Level
B38	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B39	254x146 UB 31 Curved
B40	305x165 UB 40 Curved
B41	254x146 UB 31 Curved
B42	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B43	152x152 UC 23 High Level
B44	203x133 UB 25 Tie High Level
B45	203x133 UB 25 Tie High Level
B46	152x152 UC 23 High Level
B47	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B48	215x585 deep Glulam Beam (Specialist to confirm Sizings)
B49	254x146 UB 31 Curved
B50	215x585 deep Glulam Beam (Specialist to confirm Sizings)
B51	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B52	152x152 UC 23 High Level
B53	150x75 PFC 18

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B54	150x75 PFC 18
B55	203x133 UB 25 Tie High Level With 150x75 PFC Wall Head Restraint
B56	203x133 UB 25 Tie High Level
B57	150x75 PFC Wall Head Restraint
B58	150x75 PFC 18
B59	150x75 PFC 18
B60	152x152 UC 23 High Level
B61	152x152UC 23 + 8mm Galvanised MS plate bolted to u/s with 2 rows of M16 c/s bolts @ 600c/c above window
B62	203x133 UB 30 Curved
B63	203x133 UB 30 Curved
B64	178x102 UB19 Curved
B65	203x133 UB 30 Curved
B66	203x133 UB 30 Curved
B67	300x200 RHS 6.3 Curved Feature Beam
B68	300x200 RHS 6.3 Curved Feature Beam
B69	300x200 RHS 6.3 Curved Feature Beam
B70	300x200 RHS 6.3 Curved Feature Beam
B71	300x200 RHS 6.3 Curved Feature Beam
B72	300x200 RHS 6.3 Curved Feature Beam
B73	300x200 RHS 6.3 Curved Feature Beam
B74	300x200 RHS 6.3 Curved Feature Beam
B75	178x102 UB 19 Semi-Circle
B76	178x102 UB 19 Semi-Circle
B77	178x102 UB 19 Semi-Circle
B78	178x102 UB 19 Semi-Circle
B79	4 No. 178x102 UB to support inner beam and hangers
B80	4 No. 70x70 SHS 5.0 Hangers bolted to bottom flange with M16's.
B81	88.9 CHS 5.0 Bracing
B82	88.9 CHS 5.0 Bracing
B83	88.9 CHS 5.0 Bracing
B84	88.9 CHS 5.0 Bracing
B85	88.9 CHS 5.0 Bracing
B86	88.9 CHS 5.0 Bracing
B87	120x60 RHS 5.0 elevational diagonal bracing on the outside face of inner leaf
B88	120x60 RHS 5.0 elevational diagonal bracing on the outside face of inner leaf
B89	120x60 RHS 5.0 elevational diagonal bracing on the outside face of inner leaf

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B90	120x60 RHS 5.0 elevational diagonal bracing on the outside face of inner leaf
C1	152x152 UC 30
C2	152x152 UC 30
C3	152x152 UC 30
C4	152x152 UC 30
C5	152x152 UC 30
C6	152x152 UC 30
C7	150x150 SHS 6.3
C8	152x152 UC 30
C9	152x152 UC 30
C10	150x150 SHS 6.3
C11	152x152 UC 30
C12	152x152 UC 37
C13	152x152 UC 37
C14	152x152 UC 30
C15	152x152 UC 30
C16	152x152 UC 37
C17	152x152 UC 37
C18	152x152 UC 30
C19	150x150 SHS 6.3
C20	152x152 UC 30
C21	152x152 UC 30
C22	150x150 SHS 6.3
C23	152x152 UC 30
C24	152x152 UC 30
C23A	152x152 UC 30
C25	152x152 UC 30
C26	152x152 UC 30
C27	152x152 UC 30
	Wind Catcher Trimmers 8No. 150x75 PFC 18
	Cranked Cantilever beams to support Brise Soleil 8No. 70x70 SHS 5.0

A All steel columns below ground level are to be encased in 100mm RC30 concrete all as per detail on structural engineers drawing No. H39140/03. .

B All steelwork is to be Grade S275 in accordance with BS EN 10025, 1993 and shot blasted clean to Grade SA 2 ½ and painted with 2 coats high build zinc phosphate primer (50 microns per coat).

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4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A All steelwork built into external walls and below ground is to be additionally painted with 2 No. coats of high build bituminous paint.
- B All external and exposed steels are to be hot dipped heavy duty galvanised prior to delivery to site.
- C All bolting to steelwork is to be Grade 8.8 with zinc plated finish. All welding unless noted otherwise to be 6mm fillet.
- D All connections and fixings to be in accordance with structural engineers details.
- E Connections for Glulam beams to be in stainless steel. Contractor to supply details for approval prior to manufacturer.
- F Contractor is to include to finish the Glulam beam with Zeroflame Fire retardant varnish or similar approved, with matt finish – to achieve Class 1 Flame spread to BS476 Parts 6 & 7. Available from NWE Paints Ltd Tel: 01745 342342.
- G To all steelwork allow for the application of suitable site applied intumescent coating to provide minimum 60 minutes fire resistance, include for primer as necessary in accordance with manufacturers recommendations.
- H To Beams B67 to B74 Inclusive. Feature Beams to be hot dipped heavy duty galvanised and powder coated finish in RAL 5010.

FLOOR SLAB (CONTRACTORS DESIGN)

- J The contractor shall allow to carry out detailed design of new precast concrete floor, from approved floor specialist. All details to be submitted to the CA for approval, and in time to meet with contract programme.
- K The building is to be built from precast concrete floor supported on the new ground beams, with minimum 200mm void below. All new beams to be supported on sleeper walls, with integral dpc to top of sleeper walls. Direction of floor span to be as indicated on the structural drawings.
- L To new floor slab the contractor is to allow to design and install a 'basic' gas protection scheme as per Visqueen Gas Barrier System or similar approved. Include for all system components along with the Visqueen gas barrier 2000G to ensure effective jointing, continuity and protection. supply DPM to be continued up new walls and suitably finished with new damp proof courses all as per manufacturers instructions.

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A Floor finish construction to all areas is to be Precast concrete floor, DPM (see below), 75mm Osma pocketed polystyrene insulation board (suitable for underfloor heating system) Insulation board system to be turned up around the perimeter. With 75mm sand/cement screed with A142 mesh reinforcement at half screed depth. Screed to have a smooth and level float finish ready to receive the floor coverings.
- B Allow for penetrations through flooring for services as indicated on drawing no. 4282/100.
Allow for:
2No. 200x152
5No. 200x200
4No. 550x275
2No. 400x275
1No. 800x200
2No. 150x150

EXTERNAL WALLS

- C Once foundations / ground beams have been adequately cured, construct new external brick / blockwork cavity walls and sleeper walls as indicated on drawings and to consist as follows:

External Wall Construction (Rendered)

- D To new external walls where indicated on elevation drawings, supply and construct new cavity blockwork walls to comprise 100mm blockwork, 50mm clear cavity, 50mm Xtratherm Thin-RXT/CW insulation with 140mm Tarmac 7KN Hermalite blockwork inner leave.
- E Below ground level, blockwork is to consist of 140mm Hemelite Standard (7.3 N/sq. mm) blocks with 1:1:3 mortar mix .
- F Provide and apply render in three coats, comprising 8mm Sto Level Cote on masonry, 3mm Sto Armat Classic including glass fibre mesh and 2mm Sto Stolit K1.5 top coat, include for forming bellcast above windows, doors and DPC with Expament stainless steel external render stops. Include for all necessary dubbing out and fixing in accordance with the manufacturers recommendations. The render is not to extend beyond the surface face of the surrounding brickwork. Include for terminating the render above the damp proof course. Render to be 'through coat render' as detailed on drawings. Allow to extend render into reveals.

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SCHEDULE OF WORKS

External Wall Construction to Roof Drum (Rendered)

A To new curved external walls off supporting steel framework where indicated on drawing No. 4282/107, supply and construct new cavity walls to comprise 100mm brickwork, 50mm clear cavity, 50mm Xtratherm Thin-RXT/CW insulation with inner skin to be constructed from 75x50mm treated SW timber framing finished either side with 2x6mm WBP Ply curved and laminated, internal finish of 13mm Gypsum plaster board formed to curve with Skim finish. Include for Ancon Staifix timber frame ties at 400mm crs.

B Provide and apply render in three coats, comprising min at thinnest point 8mm Sto Level Cote on masonry, 3mm Sto Armat Classic including glass fibre mesh and 2mm Sto Stolit K1.5 top coat, include for forming bellcast above windows, doors and DPC with Expament stainless steel external render stops. Include for all necessary dubbing out and fixing in accordance with the manufacturers recommendations. The render is not to extend beyond the surface face of the surrounding brickwork. Include for terminating the render above the damp proof course. Render to be 'through coat render' as detailed on drawings, and formed to provide smooth curved feature drum.

External Wall Construction (Facing Brickwork)

C To new external walls, supply and construct new cavity brickwork/blockwork walls to comprise lbstock facing brickwork, 50mm clear cavity, 50mm Xtratherm Thin-RXT/CW insulation with 140mm Tarmac 7KN Hermalite blockwork inner leave.

External Wall Construction (Kallwall Screen)

D Supply and fix translucent Cladding, thermally broken 70mm unit with reverse Shoji grid layout. Outer face Crystal SW-E/Inner face White B-3C. Positioned so that the back of frame finishes flush with back face of external blockwork.

E Supply all cill, head, jamb, vertical battens and fixings as per manufacturers details.

F Contractor is to supply and install specialist smooth finish concrete threshold to Kallwall sections as per details. Submit details for approval prior to manufacture.

External Wall Construction – Generally

G Below ground level, blockwork is to consist of 140mm Hemelite Standard (7.3 N/sq. mm) blocks with 1:1:3 mortar mix .

H To new sleeper walls below ground level, supply and construct new Hemelite Standard 140mm (7.3 N/sq. mm crushing strength) solid dense blockwork walls.

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A To new step details, supply and construct new 215mm solid brickwork walls as indicated on project drawings.
- B Provide horizontal visqueen gas barrier GR DPC link/cavity tray to both blockwork leaves (150mm minimum above GL All inaccordance with manufacturers recommendations)
- C Allow to supply and build in polypropylene telescopic floor vents, at 2m centres below rendered walls and not more than 450mm from end walls. Floor vents to incorporate grill and airbrick at exposed external elevations.
- D Provide weep holes within perpend at 900mm centre to facilitate free drainage of cavity trays.
- E At new 140mm internal walls, allow for the use of GBF30W100 Brickforce bed joint reinforcement at 450mm centres vertically by BRC or similar approved.
- F Allow for wall movement above DPC level (brickwork 12m / blockwork 6m) and in accordance with Structural Engineers drawings, with 10mm Adafom 2 joint filler, or equal approved.
- G Allow to tie the two leaves of cavity wall with stainless steel vertical twist wall ties at 450mm centres vertically and 900mm centres horizontally as F30 with insulation clips.
- H Allow to supply and install to internal blockwork/columns 150x25x2.5 ms galvanised frame cramps at 400crs shot fired to columns all as per structural engineers details.
- J Allow to supply and install to external brickwork to columns Ancon SS SPB ties at 450 crs shot fired to columns. All as per structural engineers details.
- K Allow to supply and install to brickwork to blockwork, flat section SS ties with one end debonded at 450vertical centres all as per structural engineers details.
- L Infill base of cavity with lean mix concrete, tamped and finished with a sloping edge drainage to the line of the perpend vents.
- M As works proceed, form new windows and door openings as shown on drawings. Allow for closing cavities at all openings with proprietary cavity closers, and provide new DPC detail 150mm above finished ground level.
- N Supply and fit new 100 x 100mm pre cast concrete beam lintels over high level window openings, with minimum 150mm bearing each end to suit openings.

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SCHEDULE OF WORKS

- A To all other openings, unless otherwise indicated, supply and install powder coated galvanised steel lintels to over all new openings as F30 and as per engineers details, with 150mm (min) bearing each end to suit openings. Lintels to be sized to suit opening and loading above.
- B Allow for preformed cavity tray above opening in external wall (windows & doors), with Upvc drip over top edge, to extend 150mm beyond end of lintel.

ROOF (STRUCTURE & COVERINGS) (CONTRACTORS DESIGN PORTION)

CURVED ROOF

- C The contractor shall allow to carry out detailed design of the new sedum roof, from approved specialist. All details to be submitted to CA for approval, and in time to suit contract programme.
- D 75mmx200C24 timber roofing members as per Structural Engineers Details. With 18mm WBP decking fixed on the structural members.
- E New Bauder Green Roof System as per Appendix F comprising of:
- F Vapour Barrier – Bauder VB4-EXPAL, 3.5mm thick aluminium lined, elastomeric bitumen vapour barrier, fully bonded to the roof deck by torching. Laps to be 100mm and head laps must be staggered. Side laps are formed on the crowns of the roof deck. The vapour barrier must be dressed up all upstands above the insulation to a height of 150mm minimum. The contractor is to form all perimeter details in such a way that a 100mm lap is obtained between the vapour barrier and the underlayer. The vapour barrier is to be inspected prior to laying insulation.
- G Mechanical restraint for waterproofing – Treated timber support battens of the same thickness as the insulation are to be mechanically fixed to the roof deck in positions which will correspond with the head laps of the capping sheet. The battens are to be encapsulated with a separate vapour barrier flashing bonded to the main vapour barrier. The battens act both as a support for the insulation boards and also as a fixing medium for the capping sheet head laps. These battens are to be incorporated in all areas where the roof slope exceeds 10 degrees. Insulation to also be supported at the base of the slope by a batten.
- H Insulated Upstands – Where required supply and fix Bauder insulated upstand supports to all upstands. These are to be fixed at 400mm crs using fixings through the vapour so that the top edge is a minimum of 300mm above the surface of the deck. A 3mm gap should be left between adjacent sections. Bauder PIR flat board insulation, 30mm thick is to be applied to all upstands inserted into the support to provide an insulated upstand height of a minimum 300mm from the surface of the deck.

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A Insulation – Bauder PIR flatboard, fire resistant, zero ODP, highly efficient rigid urethane insulation, 140mm thick (to achieve 0.18W/M2K Uvalue) fully bonded to the vapour barrier in hot bitumen 95/25 or bauder insulation adhesive. The side with the bauder name must be laid upwards. The boards are to be close butted and staggered. The insulation boards are to have their faces blacked out using 95/25 hot bitumen to a width of 400mm at all upstands and details including perimeter edge, rooflights rainwater outlets, vent pipes, passive vents etc.
- B Underlayer – Bauder G4E, 4mm thick, glassfibre reinforced elastomeric bitumen underlayer partially bonded to the insulation by torching in the approved Bauder manner. Head laps to be 100mm, side laps to be 80mm. A 40% bond per m2 must be achieved on the main roof area. The underlayer must be fully bonded at all perimeter edges, including rooflights, rainwater outlets, vent pipes, etc. To a width of 400mm. The underlayer is to be inspected before the capping sheet is installed.
- C Root Resistant Layer – Bauder Plant-E, 5mm thick, chemically treated, root resistant capping sheet to be fully bonded to the underlayer by torching. Side laps to be 80mm, head laps to be 100mm, with a minimum bitumen extrusion of 10mm.
- D Large headed, 40mm long, galvanised clout nails are to be installed at 200mm centres along all head laps to the capping sheet through to the timber support battens. The root resistant capping sheet is to be thoroughly inspected prior to the green roof build up being installed.
- E Upstands to details – Minimum recommended height for constructing waterproofing details is 150mm from the top of the installed landscaping.
- F Flashing Details – form separate flashings.
- G Weltd Drip to External Gutter – Supply and fix a treated timber edge plate to all perimeters to shed water. The plate is to be 10mm less than the thickness of the insulation and 150mm wide to accommodate the thickness of the drip flashing. Supply and fix a suitably sized soft wood tanned timber drip batten to the top edge of the perimeter face. Fixings are to be plugged and screwed at 300mm centres. A weltd drip detail is to be formed in Bauder capping sheet stagger nailed at 50mm centres with large headed galvanised clout nails and turned back onto the roof by a minimum of 150mm.
- H New GRP Edge Trim – Dress the underlayer up and over the perimeter detail to provide a 25mm overhang. Supply and fix a new Bauder 'Em-Trim; of a suitable depth to the perimeter edge. All trims are to be screw fixed in position, screws to be positioned at 300mm centres. A GRP bridging piece is to be installed at all joints. The new trim must cover any open joint, which may exist between the kerb and the top of the wall by a distance of minimum 20mm. The capping sheet is to be dressed tightly into the top lip of the trim.

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SCHEDULE OF WORKS

- A Supply and install a pvc coated lightning conductor.
- B Bauder Sedum Blanket Retention strip – Bauder sedum blanket retention strips, 800mm long are to be laid onto the capping sheet and held in place by means of separate flashing of capping sheet, these are to be installed at 2m crs down the roof slope, staggered with alternate rows at 1m centres.
- C Vegetation Blanket – Bauder XF301 ‘Sedum’ Combination blanket with integral moisture retention fleece. To be installed and held in place by the spikes on the Sedum Blanket retention strips. The sedum combination blanket is to be dressed tightly into the Bauder SS40 drainage trim at perimeters, abutment details etc.
- D Slow Release Fertiliser – Fertigrun organic slow release fertiliser to be applied at a rate of 80g/m2 onto the newly laid XF301 sedum blanket.
- E Vegetation Barrier to Gutter – Supply SS40 trim to all perimeters.

Drainage Trim – Supply and install Bauder SS40 drainage trim to all perimeters.
- F Post installation watering – the contractor is to ensure that the vegetation mat does not dry out within the first month of installation.
- G Post installation Maintenance – The contractor should include within their tender the cost to carry out post installation maintenance for a period of 1 year.
- H Provide 20 year insurance backed guarantee to cover the works. The contractor is to be responsible for ensuring that all roof covering details are in full accordance with Erisco Bauder details and requirements and installed by an Erisco Bauder approved contractor.
- J All details in accordance with BAuder manufacturers specification included in Appendix F.

PASSIVENT WIND CATCHERS (4No.)

- K Supply and install Passivent Airscoop (Displacement) Natural ventilation airscoop 800x800. Refer to structural details for structural Bracing to air scoops. Refer to Mechanical and Electrical sections of the specification for power and controls to Airscoops. To be installed all in accordance with manufacturers recommendations. Include for controllable insulated PVC-U louvers mounted just below the ceiling to control airflow.

Note: Upstand to airscoop to be 150mm. Flashing details to upstand to be as per Bauder Specification.

Finish to Passivent Airscoops to be RAL 7016.
All available from Passivent Natural Ventilation and daylighting

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SCHEDULE OF WORKS

Specialists 01732 850770.

ROOF CONSTRUCTION – Internal Roof to Plant Room.

- A 75mmx200C24 timber roofing members as per Structural Engineers Details. With 18mm WBP decking fixed on the structural members.

GUTTERS AND ABOVE GROUND DRAINAGE (CONTRACTORS DESIGN)

- B Complete detailed design and supply and neatly install powder coated aluminium rainwater gutter / downpipe system to new roof areas. System comprising Dales Fabrications Ltd Derbys 0115 930 151 integral Gutter, Fascia, diaphragm bracket detail, Curved Barge Boards, soffits, fascias, soffit infill pieces and gable end details. Colour RAL 5010. (Note: faceted details will not be accepted)

- C RWPs to be manufactured in powder coated aluminium 75mm square sections to follow curve of the feature beams. All design and fixing details to be forwarded to the architect prior to manufacture. Colour RAL 9005.

BRISE SOLEIL

- D To south elevation supply and install Shadex 150 Solar Shading Unit comprising 4mm Aluminium PPC Arms, 5 No. Shadex 150 blade, 1No. 101.6 dia tube – Colour RAL 5010. To be supplied by Dales Fabrications Ltd or similar approved 0115 9301521

EXTERNAL WINDOWS

20 No. Windows to Classroom areas (within Kallwall Wall System)

- E Windows to be aluminium framed fixed HC2000 thermally broken window system – RAL 7016 by Stoakes Systems. Opening windows to have trickle ventilation strips. Folding arm links to openable windows. All to be fabricated and installed fully in accordance with Stoakes Systems requirements, by a FENSA certified and approved fabricator and installer.

- F To prepared new openings, supply and fix new commercial quality aluminium windows and frames as per project drawings – all to include new aluminium cills projecting min 50mm beyond front face of walls. All units to be argon filled double sealed units win low emissivity safety glass to BS6206.

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SCHEDULE OF WORKS

- A All glazing to comprise double sealed units (6mm / 12mm / 6.4mm) with body tinted (solar control) toughened outer pane and limited internal pane. Colour of tint to be advised.
- B Windows to be configured / operate with ironmongery as follows – sizes indicated are approximate (see drawings for details of openings and fixed light requirements). All windows to be fitted with 100mm restrictor camb stays.
- C Supply and fit the 20 No. Windows to the classroom areas as indicated on the elevation drawing Nos : 4282/04 & 05.
- D Suitable fully adjustable trickle ventilators are to be fitted at the top of all glazed units to provide ventilation at 800 p/m2.
- E Contractor to provide full working drawings for CA approval prior to manufacture. Aluminium profiles to be powder coated – colour TBA. All accessories to be commercial quality heavy duty.
- F All joints between doors / screens and brickwork to be sealed with Expandite Thioflex One – colour white.

Coloured Feature Windows to West Elevation

- G To the following feature windows, allow for window frames to be sized so that 10mm of actual frames are visible around opening, include for all extension add-ons as necessary. All glass to feature windows is to be coloured, colours to be confirmed:

W2, 3, 4 & 5. Size 380mmx428mm
W1 & 6 Size 877mmx428mm.

- H All feature windows to have precast concrete surrounds as indicated External Window and Door Schedule drawing 4282/112

External Coloured Glass Block Elevations above plant room and D4

- J To areas indicated on drawings allow for the supply and installation of 190 x 190 x 100 Glass blocks by Glass-Block Technology 0161 612 893 or similar approved. Ref: TF-30BU (30min integrity and 30min fire protection) section 8 blocks wide x 8 blocks high. Include for the provision of all necessary perimeter and joint reinforcement, perimeter borders and expansion materials in accordance with manufacturers recommendations. Allow for 3No. Colour mix within the glass blocks.
- K Supply and install polished concrete cill 200 x 47mm / 255 x 47mm with chamfered face and drip beneath new external glass blockwork section.

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SCHEDULE OF WORKS

Circular Feature Rooflight

- A As indicated on drawings and detailed on drawing 4282/112. Contractor is to supply and install Glazed circular roof window by Senior Aluminium Systems and manufactured by 'Glass General Maintenance' 0845 3714450.
- B Circular Feature rooflight is to be manufactured from SAS curtain walling with 2 Semi Circular double glazed units to the centre with the outer edge having an insulated aluminium panel fitted over the top of the support frame. Double glazed unit to be 6mm 'Pilkingtons' Activ toughened laminated self cleaning glass, 12mm Argon filled air gap, 13.5mm Low E toughened laminated glass.
- C All external sealing will be with structural silicone seal.

Glazed Screens Under Curved Feature Beams (externally between play areas)

- D Supply and install 8No. Topaz Glass screen – 12mm clear toughened glass infill panel mounted on grade 316 satin polished stainless steel glass lugs fixed into concrete pavers, and external face brickwork. Glass to be fully etched to prevent persons from walking into screens. Details to be forward for approval prior to manufacture.

EXTERNAL DOORS

- E Manufacture and installation of new doorsets to be undertaken by a Senior Aluminium Systems approved contractor fully in accordance with Senior Aluminium Systems recommendations and requirements.
- F All Doors to be Hybrid Door System with external RAL Colour 7016 and clear lacquered crown cut American red oak timber finish internally.
- G D15 to be from Senior Aluminium Systems Standard range louvered ventilation grills RAL Colour 7016.
- H In the following positions, supply and install new commercial quality aluminium doors, frame, fixed side lights to prepared openings, all as L20 and as indicated on drawings:

Door No.	Location
D1	Classroom
D2	Group Room
D3	Classroom
D4	Corridor
D5	Classrom
D6	Group Room
D7	Classroom
D15	Plant Room

Note: Frame sizes as shown on drawing No. 4282/112.

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A Contractor to provide full working drawings for CA approval prior to manufacture. Aluminium profiles to be polyester powder coated, all accessories to be commercial quality heavy duty.
- B Doors to be self closing with hold open and backcheck facility. Doors to be fitted with anti finger trap pivot system and standard aluminium pad handles.
- C New doorsets to be fitted with narrow profile Adams Rite security mortise lock with external key operated cylinder and internal turn snib.
- D New doorsets to be fitted with additional narrow profile Adams Rite security mortise lock with double cylinder for deadlocking the building whilst unoccupied.
- E Doors to be double glazed (top and bottom panels). All glazing to comprise double sealed units (6mm / 12mm / 6.4mm) with body tinted (solar control) toughened outer pane and limited internal pane. Colour of tint to be advised.
- F Doors to be fabricated and installed fully in accordance with Senior Aluminium Systems requirements by a Senior Aluminium Systems approved fabricator and installed.
- G Make good internally and externally, including all masonry, plasterwork, trims and decorations where damaged / altered / disturbed. All joints between doors / screens to be sealed with Expandite Thioflex One – colour to be advised.
- H Contractor is to supply and install specialist smooth finish concrete threshold to all doors as per details. Submit details for approval prior to manufacture.

INTERNAL PARTITIONS

- J To areas indicated on project drawings, construct new internal solid full height 140mm thick Tarmac Concrete Midi concrete blockwork walls as F30. Mortar mix to be 1:1:6.
- K Supply and install Ruberoid Pluvex No. 1 DPC at new blockwork lapped into all new brick and block walls as F30.
- L All non load bearing blockwork built from new floor slab to have 2 No. courses of bed joint reinforcement as structural details.
- M Build in new door openings as shown on proposed floor plans. To over all new door and internal window openings (as internal walls are constructed), provide new thickness of wall x 100mm deep psc beam lintels with minimum 150mm bearing each end to all new internal door openings.

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SCHEDULE OF WORKS

A To all studwork internal partitions as indicated on drawings, construct new floor to structural ceiling height studwork partitions. New partitions to comprise 92mm Gypframe 'C' 3 x 75mm Isowool APR 1200 insulation. Clad both sides of partitions with 1 No. layer 12mm plywood and 12.5mm Soundbloc plasterboard to each side, with staggered joints and outer faces taped. Fill joints to provide a smooth finish, and leave ready to receive paint finish decorations. Allow for all stainless steel plaster beads and angle stops, and in particular, their provision at all external corners as necessary.

B All new internal partitions are to be full height (floor to structural soffit level).

C To new central glazed drum feature, form new partitions as detailed on drawing No. 4282/107 details B6 and B7. Allow to both sides (internal curve and external curve within ceiling) for 50x50 treated SW noggins fixed to top of steel plate at 450mm crs horizontally and vertically – finished with 2 layers of 13mm gypsum wallboard. Allow for all associated fixings into steelwork and allow for 50mm dia hole to be installed within the centre of the plate to allow for electrical wiring to lights.

INTERNAL WINDOWS / GLAZED SCREENS

Internal Windows (at high level)

D Manufacture, supply and fix the following internal windows:

Window Nos. FW1 to FW8 inclusive. (2No. Per classroom as shown on drawing no. 4282/101)

E Frames/glazing to provide half hour fire rating and to incorporate 6mm clear Pilkington Pyrostop FR safety glass with sealmaster Fireglaze compound between glass and beads. Include for the following frame members:

- o 38 x 200mm crown cut American red oak head, transoms and jambs (frame mortice and tenon jointed)
- o 20 x 22mm crown cut American red oak wrot glazing beads with 15° chamfer to both sides of all apertures
- o 6mm Pilkington Pyrostop clear fire resistant glazing
- o Inside room beads to be screwed @ 300mm centres with 38mm brass sockets and screws, beads on corridor side to be pinned and glued.
- o 18 x 44mm crown cut American red oak wrot timber splayed architrave

F Allow for all necessary packers, sub frames etc – fill all voids between screen and masonry with tightly packed rockwool.

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SCHEDULE OF WORKS

- A Fabrication and installation to be undertaken in accordance with good working practice using joinery quality timber – All frames/linings to have a shop primed crown cut American red oak finish. Contractor to provide full working drawings and finish details for CA approval prior to manufacture.
- B All windows to have Catnic CN 56XA lintels above to suit thickness of the walls and 150mm bearing each end.
- Internal Glass Block Feature Walls:**
- C To Central Open Plan Group areas, 4 No. Feature glass block walls.
- D Form Glass Block 'Feature Wall' As shown on drawing Nos. 4282/106, 107 & 109. Allow for the supply and installation of new 190 x 190 mm glass blocks to consist of a mix of coloured and white blocks. Contractor is to allow in their price for a combination of 6 different coloured blocks within the design. Final mosaic design to be agreed with the school at a later date. To be from the 'Brilly Range Strong Shades, available from www.sevesglassblock.com, Glass Block Shop Ltd 0870 760 5587.or similar approved.
- E Contractor is to allow for supplying samples of the different coloured blocks (9No.) for approval by the school prior to design being finalised.
- F To the feature glass block walls allow for 166 x 32 crown cut American red oak frame and 18mm x44mm architraves to both sides.

WALL FINISHES

Plastering

- G To all new masonry walls, prepare surfaces and provide a floor to structural soffit level smooth flat gypsum plastered finish on cement / send render basecoat, ready to received paint decoration finish. Allow for all stainless steel plaster beads and angle stops, and in particular, their provision at all external corners, window reveals and timber cladding feature areas, as necessary. Suitably prepare backing surface (key brickwork and blockwork) as necessary to received finish.

Tongue & Groove Vertical Timber Boarding

- H To new masonry walls at both sides of the corridors at high level (as drawing no. 4282/109 plus mirror), prepare surfaces and provide 19x116 Tongue and Groove Siberian Larch timber boarding fixed vertically onto 38x25mm treated SW timber battens fixed to face of internal concrete block wall.
- J Provide all required edging strips and details as necessary to link into adjacent plaster wall finishes.

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SCHEDULE OF WORKS

- A All Tongue and groove to be finished with Zeroflame Fire retardant varnish or similar approved, with matt finish – to achieve Class 1 Flame spread to BS476 Parts 6 & 7. Available from NWE Paints Ltd Tel: 01745 342342.

TILING

- B Within accessible wc area, provide ceramic tiling to 1500mm above finished floor level to all visible wall surfaces, together with all required movement joints, epoxy grout and sealant. PVC perimeter capping trim to be provided at vinyl skirting upstand. Allow for 1 No. rows of colour contract tiles.
- C Within all Classroom areas, provide ceramic tiling to 300mm (2 No. rows) above worktop and to floor level behind water fountains. Tile joints to be finished with epoxy grout – colour to be advised. Include for silicone sealant joint between tiles and worktops. Allow for a PVC edging strip to exposed edges both vertical and horizontal.

CEILINGS

To Group Rooms (2No.)

- D To areas indicated on drawing 4282/101, supply and fix new 24mm exposed suspended ceiling grid, with 600 x 600 x 12.5mm Danoline Belgravia ceiling tiles. Main runners to be spaced at 1200mm centres and screw fixed hangers at the end of each main runner should be less than 600mm from the adjacent wall. Hangers should be no more than 1500mm from spliced joints. Flush fitting 1200mm long cross tees are to be interlocked between main runners at 600mm centres to form 1200 x 600mm modules. Cut cross tees longer than 600mm require additional support. Form 600 x 600mm modules by fitting 600mm long flush cross tees centrally between the 1200mm cross tees. Perimeter trims to be screwed to walls at 450mm maximum centres.
- E Allow for a feature band of one tile wide with 600x600x12.5 Danoline Plaza ceiling Tiles. Lay in ceiling tiles with Wall angle, to be installed on exposed tee metal suspension system detailed above.

4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

To Accessible WC

- A To area indicated on drawing 4282/101, supply and fix new 24mm exposed suspended ceiling grid, with 600 x 600 x 12.5mm Danoline Danotile ceiling tiles. Main runners to be spaced at 1200mm centres and screw fixed hangers at the end of each main runner should be less than 600mm from the adjacent wall. Hangers should be no more than 1500mm from spliced joints. Flush fitting 1200mm long cross tees are to be interlocked between main runners at 600mm centres to form 1200 x 600mm modules.

Cut cross tees longer than 600mm require additional support. Form 600 x 600mm modules by fitting 600mm long flush cross tees centrally between the 1200mm cross tees. Perimeter trims to be screwed to walls at 450mm maximum centres.

To Stores (8No.)

- B To area indicated on drawing 4282/101, supply and fit new 12.5 mm plasterboard ceiling to treated SW timber Ceiling joists as K10/25. Apply smooth skimcoat finish of Gypsum lightweight plaster ready to receive paint finish.

Ceiling to Plant Room

- C To area indicated on drawings, supply and fit new 2x 12.5 mm plasterboard to treated SW timber Ceiling joists as K10/25. Apply taped and jointed finish ready to receive paint finish.

To Open Plan Group Area

- D To area indicated on drawing 4282/101, supply and fit new 12.5 mm plasterboard Gypsum MF plasterboard ceiling system, to be fixed onto metal fixing brackets as K10/25. Apply smooth skimcoat finish of Gypsum lightweight plaster ready to receive paint finish.

- E Allow for a dropped bulkhead feature as indicated on drawing No. 4282/101 and section drawings 4282/107 & 109.

To Corridor Areas (2No.)

- F To areas indicated on drawing 4282/101, supply and fix new 24mm exposed suspended ceiling grid, with 1200 x 600 x 12.5mm alternate Danoline Plaza (M1) and Danoline Belgravia lay in ceiling tiles. Main runners to be spaced at 1200mm centres and screw fixed hangers at the end of each main runner should be less than 600mm from the adjacent wall. Hangers should be no more than 1500mm from spliced joints. Flush fitting 1200mm long cross tees are to be interlocked between main runners at 600mm centres to form 1200 x 600mm modules. Cut cross tees longer than 600mm require additional support.

4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

- A Allow for a feature band of one cut tile wide either side of the corridor with 600x600x12.5 Danoline Plaza ceiling Tiles. Form 600 x 600mm modules by fitting 600mm long flush cross tees centrally between the 1200mm cross tees. Perimeter trims to be screwed to walls at 450mm maximum centres. Lay in ceiling tiles with Wall angle, to be installed on exposed tee metal suspension system detailed above.

To Classroom Areas (4No.)

- B To ceilings where indicated, prepare surfaces and provide 19x116 Tongue and Groove Siberian Larch timber boarding fixed onto 2X50X25MM 38x25mm treated SW timber battens fixed to underside of roof joists on curve.
- C Supply and install 25x38mm treated Larch edging strip to form neat junction detail between ceiling boarding and perimeter edge.
- D All Tongue and groove to be finished with Zeroflame Fire retardant varnish or similar approved, with matt finish – to achieve Class 1 Flame spread to BS476 Parts 6 & 7. Available from NWE Paints Ltd Tel: 01745 342342.

JOINERY (FRAMES, CILLS, SKIRTINGS, DOORS)

Internal doors (Fire rated with vision panel) Door Nos. D8, D9, D10, D11, D13, D14

- E Supply and fix the following internal FD30S fire rated oak veneered solid core door and frame sets. Doors to comprise 44mm solid core timber door blanks with 10mm hardwood lipping to all exposed edges and vision panels apertures. Doors available from Leaderflush & Shapland or similar approved.
- F Doors to incorporate 1 No. 'hockey stick' solid timber beaded glazed vision panel with 100mm Pilkington Pyrostop FR safety glass with Sealmaster intumescent strips between glass and beads. Panel size to be 200mm wide x 1400mm high positioned 150mm from opening edge, and 150mm from top edge. All beads are to be mitred, pinned and stopped.
- G Include for (thickness of wall) x 32mm thick frames to match door finish with 38 x 15mm stops and 95 x 25mm pencil round architrave (mitred joints). All joinery to be prefinished in crown cut American red oak. Frames to be provided with intumescent fire / smoke seals.
- H To each of the doors, supply and fix the following ironmongery from the Laidlaw Orbis ranges, obtained from Laidlaw Limited. All ironmongery to be heavy duty commercial quality stainless steel with satin finish. Joinery contractor to satisfy himself as to the suitability of ironmongery, and inform the CA of any problems prior to placing orders:

4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

A

To doorsets D8, D9, D10, D11, D13, D14

- Butts – 1 ½ pairs 37801.2 SS7 102 x 102 x 2.5 – ball bearing, satin stainless steel finish
- 1 No. 11951 SSS sash locks – satin stainless steel finish with 55mm backset
- 1 No. 01833.1 SNP single Euro Profile cylinder (key one side, thumb turn the other i.e. inner side). Length to suit 44mm thick door leaf. Satin stainless steel finish – keyed to a master key to pass all.
- 1No. SSS 22mm diameter round bar return to door lever handle reference 54 801.22 lever handle on round roses with concealed fixings.

- 1 pair 50801.3 SS7 180 x 50 x 5mm backplates – all stain stainless steel finish
- 1 No. Ref: 57902 SS7 satin stainless steel kickplates 2mm thick x 200mm high x dims to suit door
- 1 No. 32902 SS7 stainless steel 30mm diameter x 30mm high floor doorstop.
- 1 No. 60901.13 SS7 fire door keep shut sign
- 1 No. softline door closer 31807 ESS

Internal door (Fire rated without Vision Panels) Door No. D12

B

Supply and fix the following internal FD30S fire rated oak veneered solid core door and frame set. Doors to comprise 44mm solid core timber door blanks with 10mm hardwood lipping to all exposed edges and vision panels apertures. Doors available from Leaderflush & Shapland or similar approved.

C

Include for (thickness of wall) x 32mm thick frames to match door finish with 38 x 15mm stops and 95 x 25mm pencil round architrave (mitred joints). All joinery to be prefinished in crown cut American red oak. Frames to be provided with intumescent fire / smoke seals.

D

To each of the following doors, supply and fix the following ironmongery from the Laidlaw Orbis ranges, obtained from Laidlaw Limited. All ironmongery to be heavy duty commercial quality stainless steel with satin finish. Joinery contractor to satisfy himself as to the suitability of ironmongery, and inform the CA of any problems prior to placing orders:

4282: St Margaret Clitherow Primary School, Neasden
Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

A

To doorsets D12:

- Butts – 1 ½ pairs 37801.2 SS7 102 x 102 x 2.5 – ball bearing, satin stainless steel finish.
- 1No. SSS Mortice bathroom lock, 60mm backset.
- 1No. Pair SSS safety lever handles on round roses with concealed fixings.
- 1No. SSS WC indicator c/w outside emergency release and large inside lever 8mm spindle.
- 1 No. Ref: 57902 SS7 satin stainless steel kickplates 2mm thick x 200mm high x dims to suit door
- 1 No. Accessible WC sign ref: 60 607 stainless steel 76mm diameter.
- 1No. 75mm diameter SSS double coat hook on concealed fixing rose.
- 1 No. 32902 SS7 stainless steel 30mm diameter x 30mm high floor doorstop.

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SCHEDULE OF WORKS

Internal doors (Fire rated without vision panels) D17, D18, D19, D20, D21, D22, D23 and D24

- A Supply and fix the following internal FD30S fire rated oak veneered solid core door and frame sets. Doors to comprise 44mm solid core timber door blanks with 10mm hardwood lipping to all exposed edges and vision panels apertures. Doors available from Leaderflush & Shapland or similar approved.
- B Include for (thickness of wall) x 32mm thick frames to match door finish with 38 x 15mm stops and 95 x 25mm pencil round architrave (mitred joints). All joinery to be prefinished in crown cut American red oak. Frames to be provided with intumescent fire / smoke seals.
- 4 No. single doorsets – D17, D20, D21 & D24
 - 4 No. double doorsets – D18, D19, D22 & D23
- C To each of the following doors, supply and fix the following ironmongery from the Laidlaw Orbis ranges, obtained from Laidlaw Limited. All ironmongery to be heavy duty commercial quality stainless steel with satin finish. Joinery contractor to satisfy himself as to the suitability of ironmongery, and inform the CA of any problems prior to placing orders:
- D To doorsets: D17, D20, D21 & D24
- Butts – 1 ½ pairs 37801.2 SS7 102 x 102 x 2.5 – ball bearing, satin stainless steel finish
 - 1 No. 11951 SSS sash locks – satin stainless steel finish with 55mm backset
 - 1 No. 01833.1 SNP single Euro Profile cylinder (key one side, thumb turn the other i.e. inner side). Length to suit 44mm thick door leaf. Satin stainless steel finish – keyed to a master key to pass all.
 - 1No. SSS 22mm diameter round bar return to door lever handle reference 54 801.22 lever handle on round roses with concealed fixings.
 - 1 pair 50801.3 SS7 180 x 50 x 5mm backplates – all stain stainless steel finish
 - 1 No. Ref: 57902 SS7 satin stainless steel kickplates 2mm thick x 200mm high x dims to suit door
 - 1 No. 32902 SS7 stainless steel 30mm diameter x 30mm high floor doorstop.
- E To each of the following doors, supply and fix the following ironmongery from the Laidlaw Orbis ranges, obtained from Laidlaw Limited. All ironmongery to be heavy duty commercial quality stainless steel with satin finish. Joinery contractor to satisfy himself as to the suitability of ironmongery, and inform the CA of any problems prior to placing orders:

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

A

To doorsets D18, D19, D22 & D23:

- Butts – 3 pairs 37801.2 SS7 102 x 102 x 2.5 – ball bearing, satin stainless steel finish
- 1 No. 11951 SSS sash locks – satin stainless steel finish with 55mm backset
- 1 No. 01833.1 SNP single Euro Profile cylinder (key one side, thumb turn the other i.e. inner side). Length to suit 44mm thick door leaf. Satin stainless steel finish – keyed to a master key to pass all.
- 1No. SSS 22mm diameter round bar return to door lever handle reference 54 801.22 lever handle on round roses with concealed fixings.
- 2 No. escutcheons Ref: 51 800.3 stain stainless steel finish
- 2 No. 200 x 20mm satin stainless steel lever action flushbolts Ref: 34 005.3 complete with dust excluding floor socket Ref: 34 029.2
- 2 No. Ref: 57902 SS7 satin stainless steel kickplates 2mm thick x 200mm high x dims to suit door
- 2 No. 32902 SS7 stainless steel 30mm diameter x 30mm high floor door stop

Internal doors (Fire rated without vision panels)Sliding Doors D16

B

Supply and fix the following internal FD30S fire rated oak veneered solid core door and frame sets. Doors to comprise 44mm solid core timber door blanks with 10mm hardwood lipping to all exposed edges and vision panels apertures. Doors available from Leaderflush & Shapland or similar approved.

C

Include for (thickness of wall) x 32mm thick frames to match door finish with 38 x 15mm stops and 95 x 25mm pencil round architrave (mitred joints). All joinery to be prefinished in crown cut American red oak. Frames to be provided with intumescent fire / smoke seals.

D

To each of the following doors, supply and fix the following ironmongery from the Laidlaw Orbis ranges, obtained from Laidlaw Limited. All ironmongery to be heavy duty commercial quality stainless steel with satin finish. Joinery contractor to satisfy himself as to the suitability of ironmongery, and inform the CA of any problems prior to placing orders:

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Proposed Teaching Accommodation Block

SCHEDULE OF WORKS

A

To doorsets: D16

- Stainless steel overhead runway fitting, top track and all associated fixings.
- 1 No. 01833.1 SNP single Euro Profile cylinder (key one side, thumb turn the other i.e. inner side). Length to suit 44mm thick door leaf. Satin stainless steel finish – keyed to a master key to pass all.
- 2No. (one to each door) flush circular pull handles ref LA28. 22mm
- 1 No. Ref: 57902 SS7 satin stainless steel kickplates 2mm thick x 200mm high x dims to suit door

General

B

General Ironmongery Note:

- Master key to operate all cylinders
- Cylinders each 3 keyed ensuite to a new master key

C

To all doors allow for the supply and installation of ZF2 double sided fingerprotect guards - colour to be advised.

Skirtings to all Areas

D

Supply and mechanically fix new 125 x 18mm square edged factory finished Crown cut American red Oak skirting to all areas.

Window Boards (6No. Windows)

E

Provide and fix new 19mm thick, MDF window boards to the new windows. New window boards to have a bull-nosed front edge to extend 30mm beyond wall face. Include for all cutting, labour and waste. Window board to be screw fixed to the wall and pelleted prior to decoration.

Encasing of Steelwork

F

Unless detailed otherwise, generally supply and fix, via 2 No. 25mm x 40mm softwood batten with mechanical fixing, 8mm pre formed plywood duct covers to all visible steelwork columns, beams and curved beams to classroom walls, as P20. Plaster and leave ready for paint finish as detailed below.

G

To steelwork as detailed on drawing No. 4282/114 supply and install Pendock Profiles by Alumasc or similar approved, MX profile laminated boxing colour to be agreed. To be screw fixed with plastic cap colour to suit final colour of casing.

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SCHEDULE OF WORKS

Boxing in to Services

A Boxing to be formed in 44 x 44mm protimised softwood framework to be screwed as necessary to walls, ceilings and floor. Provide and fix to framework 12.5mm thick moisture resistant Wallboard, plaster ready to receive decoration. Include for all noggins and fixing battens and protective corner beads as required. Form inspection panels with covers within duct casings for easy access to valves, stop cocks etc. Include for all soil vent pipes, soil stub stacks, underfloor heating pipework, hot and cold water pipework, electrical services etc.

Classroom sinks / worktops

B To each of the classroom sink positions indicated on project drawings, allow for the supply and installation of new Remploy furniture, comprising as follows:

- 18mm laminated MDF worktop with 3mm PVC lipping
- 1No. Stainless steel sink and drainer with Aquaclassic 3 tap by Rangemaster. The contractor is to allow for connecting the sink to hot and cold water supplies and local main drainage. Allow for connection of all new services and commissioning upon completion.
- 1No. Undersink base unit.
- 1No. End Panel
- 1No. Infill Panel/scribing fillet

Allow for all necessary component and fixings to complete installation in accordance with manufacturers recommendations.

C To IT area of classrooms as shown on drawing No. 4282/116, allow to form new worktop from Remploy furniture . Worktop to be formed from Trespa solid grade laminate 600x3000mm long worktop (16mm thick) Colour TBA. Allow for 3 No. Stainless steel support legs.

Interactive White Boards

D Supply and install 4No. Interactive white boards (1 to each classroom) as follows:

- Smart Technologies 680i (3 Series) interactive whiteboard system with:
- 77" active screen (diagonal) interactive whiteboard.
- Integral Unifi Projector and integral wall mount (front projection)
- Smart Board software including Notebook Software.
- Smart USB speaker system
- Allow to connect into existing schools data network.

All available from Saville Audio Visual, Tel: 01904 782782. Installation to be in accordance with manufacturers recommendations.

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SCHEDULE OF WORKS

Shelving to Classroom Cupboards

- A allow to supply and install adjustable medium duty shelving by spur shelving or similar approved. To single cupboards 1600mm long upright brackets with suitable bracket arms to support 5 No. 250mm wide x 690mm long 22mm MDF Shelving. To double cupboards allow for 1600mm long upright brackets with suitable bracket arms to support 5 No. 250mm wide x 1660 long 22mm MDF shelving. Allow to prime all shelves and apply 2 coats of gloss paint colour to be agreed.

Allow for all necessary component and fixings to complete installation in accordance with manufacturers recommendations.

Peg Units to Classrooms (4No.)

- B In a positions as shown on drawing No. 4282/100 provide and fix new Boyco Type WA (300) junior height (1350mm) wall peg rails / bag tray with 300 deep shelf over. Colour TBC. New shelving, rails to be mechanically fixed to new partition and floor as per the manufacturers recommendations. (120No. pegs total)

FIRE SIGNAGE

- C Allow for the supply and installation of 8 No. aluminium 600 x 200mm fire exit signage – Fire exit running man with arrow, drilled. Exact positions and arrow directions to be agreed on site.

SANITARYWARE ETC. TO ACCESSIBLE WC

- D The contractor is to provide and install a new accessible WC suite as indicated on the proposed drawing.

The new accessible WC suite is to be installed in accordance with Approved Document M of the Building Regulations.

- E The new accessible WC suite is to be manufactured by Armitage Shanks, or equally approved. The suite is to be the Doc M Blue Pack with grab rails, seat, hinged arm support etc. Ref: S687501. The colour of the rails and support bars is to be confirmed.

- F The accessible WC is to be installed and connected in accordance with the manufacturers instructions. Include for all hot and cold water connections, drainage, waste disposal, bottle traps and the likes.

- G Provide and fix each WHB 1 No. Armitage Venesta white plastic soap dispenser with hand push operation and 800ml removable soap reservoir Ref: 0302006 together with 2 No. packs of cartridges. Position to be agreed on site with Contract Administrator.

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SCHEDULE OF WORKS

- A Provide and fix each WHB 1 No. 300mm (w) x 400mm (h) foil backed clear glass mirror (moisture resistant backing) screwed to wall above wash hand basins via 4 No. anti-tamper CP dome screws.
- B Provide and fix to the toilet 1 No. Armitage Venesta standard white polycarbonate toilet roll holder Ref: 0300146.
- C Provide and fix to the toilet 1 No. Armitage Venesta paper towel dispenser Ref No 0302020 dims: 365mm (h) x 250 (w) x 110 (d), finish and location to be confirmed by Contract Administrator on site.
- D Provide and fix to the toilet 1 No. metal coat hook in powder coated aluminium (colour to be confirmed). Location of coat hook to be confirmed with Contract Administrator on site.

Water Fountains to Classrooms (4No.)

- E To positions as indicated, supply and install the following waterfountains to the class room wet areas. Refer to mechanical part of specification for water supply details, and refer to section above for drainage details.
- Floor Standing Drinking Fountain, Junior Height with bottle/cup filler option. By Gentworks 0845 202 4535 or similar approved.

FLOOR FINISHES

- F To all areas prepare existing and new screed and apply Laybond screedmaster 2 levelling compound minimum 3mm thick to all areas. Ensure that floorslab / screed is smooth and level ready to receive floor finishes.
- G **To the following areas:**
Classrooms
Group Rooms 1 & 2
Open Group Plan Area
Corridors
- H Supply and lay new Enia Tarkett, Tescom 3630 Supreme carpet tiles bonded with Ardex AF890 release tackifier, or similar – colour to be advised. To be laid in accordance with manufacturers recommendations. Cut carpet into skirting.
- To the following areas:**
- J In front of sink areas within Classrooms. 4No. (2mx2m)
To cupboard areas 4No. (1.6mx0.8m)
To Cupboard areas 4No. (0.7mx0.8m)
Accessible WC
- K Supply and lay new Marmoleum Real Range vinyl flooring – colour to be advised. Adhesive to be Stycobond F3, or similar. To be laid in strict accordance with manufacturers recommendations.
- To Collection
3/40

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SCHEDULE OF WORKS

A Prepare and apply a floor seal to all new vinyl surfaces strictly in accordance with the manufacturer's instructions.

To the following areas:

B In front of all external doors within Classrooms (4No) each 2mx1.2m
In front of external doors within Group Rooms (2No.) each 2mx1.2m
In front of Door No. D4 5mx2.2m

Matting to be manufactured by Bonar Floors Ltd, High Holborn Road, Ripley, Derbyshire DE5 3NT. Tel: 01773 744121. Or equally approved.

C New barrier matting to be Coral Classic entrance matting. Flooring to be installed in accordance with the manufacturer's instructions. Allow for labour, cutting and waste. Ensure that the ribs are positioned at right angles to the direction of foot traffic. Colour to be confirmed.

D Sub floor should be clean, dry and flat and prepared in accordance with BS5325. Bond to floor with Styccobond surface tackifier as advised by the carpet manufacturer, supplied by F Ball & Co Churnetside Business Park, Station Road, Cheddleton, Leek, Staffs. Tel: 01538 361633. To be laid in strict accordance with manufacturers recommendations. Cut carpet into skirting. The mat should be positioned so not to cause any inconvenience to the operation of the doors. Colour to be advised.

E Provide and fix trims, jointing strips and aluminium thresholds at changes of floor finishes as required. Note: underfloor heating prior to fixing.

DECORATIONS

F Make good / thoroughly prepare surface to be decoration (ceilings where relevant, walls, pipework) within all areas.

G To the following surfaces within the above areas, provide the following Dulux paint systems decorations:

- Radiators and Pipework: Enamel paint system
- Plaster walls: Eggshell paint system
- Ceilings where applicable: Vinyl Matt (Eggshell in wet areas)
- Window frame linings / window boards: Gloss paint system
- Pipework boxing/steelwork boxing – eggshell paint system.

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SCHEDULE OF WORKS

EXTERNAL WORKS

**Retaining Wall/Balustrade Adjacent to NE Corner of New Build.
(As per drawing No. 4282/115, 106 detail A1 and 111.**

- A The contractor is to establish the exact depth and location of drainage, electric and gas services runs prior to commencement of excavation works. All excavation works are to be carried out carefully in order not to damage existing service runs where these are to be retained.
- B Excavate and reduce levels as necessary to accommodate new slab and strip foundations to beneath external walls. Cartaway spoil and provide all necessary formwork, shoring and ground water control. Provide the following concrete details:
- C Beneath external wall positions:
- Form new strip foundations (450mm wide x 225mm deep) beneath positions of new walls as indicated on drawing 4282/111. Mass fill with GEN 3 concrete foundations up to 200mm below finished ground levels.
- D Once foundations have adequately cured at ramp, construct 1 brick thick English bond facing brickwork with feature concrete edgings to form walls (as F10), all in accordance with section details.
- E Mortar mix to be 1:1:6 – pointing to be bucket handle. Allow to build in movement joints at 12m centres (maximum), filled with bitumen impregnated joint filler board, sealed with polysulphide joint.
- F Supply and fix polyester powder coated, galvanised steel balustrade system 1100mm height to ramp as indicated on drawing 4252/115, comprising the following:
- 45mm diameter tubular sections
 - All associated fittings as deemed required by the manufacturer
 - Sapphire perforated and patterned powder coated infill panels and clips. All bolt fixings to clips to be cut back flush to nut and filed to remove protruding fixings.
- G Handrail uprights to be top fixed to new concrete, with fixings as recommended by manufacturer.
- H Include for all necessary brackets, fixings, plates for complete installation in accordance with manufacturers recommendations.
- J The contractor is to obtain full design drawings from Manufacturer for CA's approval.

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SCHEDULE OF WORKS

Services Trenches

- A To positions as shown on drawing no. 4282/110. Allow to form the following trenches (3No. Trenches in total)
- B Break out existing finishes, excavate and supply and install new trenches to receive ductwork/cabbling, pipework etc as detailed within the Mechanical and Electrical specifications. All ducts are to be installed with draw wires and to be laid minimum of 450mm below the surface.
- C Install Inspection chambers at change of direction. Polypipe ICDR 1 460mm inspection chambers with a polypipe ICDC1 inspection chamber cover and frame. Ensure new cover is flush with the surrounding surface. Location of covers/chambers to be agreed on site.
- D Following completion of duct/services installation, reinstate all disturbed surfaces as follows. Allow to backfill and reinstate with macadam base and wearing courses as preambles Q22. Surface Finish is to match level of surrounding area and complete with hot pour joints between old and new surfaces. Also allow to make good finishes to match existing, grass, topsoil areas.

SURFACING / LANDSCAPING

- E To areas indicated on drawing number 4282/111, allow for breaking up existing surface, backfill and reinstate with macadam base and wearing courses as preamble Q22. Allow for adjusting levels as necessary and complete with hot pour joints between old and new surfaces.
- F On completion of landscaping works, dispose of all redundant soft landscaping materials off site. Allow for maintenance and watering of soft landscaping as required until Practical Completion, when responsibility for the maintenance will be transferred to the school.
- G As indicated on drawing 4282/111, allow for the supply and installation of Marshalls Chamwood textured concrete paving 600x600x60 Sq paving slabs, colour Natural and French Grey as shown. Also allow for blister tactile paving surface from Marshalls to areas indicated on drawing. Paving size to be 600 x 600 x 50mm to be laid on full mortar base, jointing to be 5mm mortar pointed.
- H As indicated on drawing 4282/111 and 113, allow to supply and install bespoke concrete edging to feature beams 160x156. Sample to be provided for approval prior to manufacture.

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SCHEDULE OF WORKS

- A On completion of all works, reinstate to all disturbed surfaced as follows:
- Externally, backfill (as Q20) and reinstate external areas with macadam base and wearing courses as preambles. New surface to be level with existing macadam complete with hot pour bitumen seal at joints between old and new.
- B Allow to reinstate a 2m wide strip of Tarmac adjacent to the new building/external works, include to adjust levels as required an flush joint to the existing playground.
- C Allow to break out and provide new tarmac laid to falls to create level access into the new building (adjacent D4), laid to falls to provide maximum gradient 1:12.
- D Allow to reinstate area of tarmac to existing fenced play area.

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SCHEDULE OF WORKS

Making up levels adjacent to North Elevation of Paved Area

- A Contractor is to allow to supply and lay top soil to North Elevation to a maximum gradient of 1:5, top soil to be fully compacted in layers. Refer to levels as shown on drawing No. 4282/111.

Turf

- B Allow to turf all topsoil areas, allow for a provisional area of 50m².

Gazebo

- C Allow to reinstate Gazebo including 200mm mesh reinforced concrete base to position as agreed by the school.

Stage

- D Allow to reinstate Stage area including 200mm mesh reinforced concrete base to position as agreed by the school.

Benches

- E Allow to reinstate 3 No. benches in positions as agreed by the school.

Fencing to Play Area

- F Allow to reinstate chainlink fencing to original location as shown on drawing No. 4282/117.

Fencing to Air Source Heat Pump area

- G Excavate 500 x 500 x 800mm deep foundations at centres to suit manufacturers recommendations for new fencing and gate. Dispose of redundant materials off site.

- H Provide and lay new GEN1 in-situ concrete foundation ready to receive new fencing and gate posts. Application to be in accordance with E10 and Q40 of the tender preambles.

- J Supply and install new 1.8m high hit and miss style timber fencing with 100mm square posts and 150mm concrete gravel boards with 1 No. 900mm wide timber access gate, available from Cocklestorm Fencing Company Ltd, Tel: 0161 723 1659. Allow for excavation and formation of new 450 x 450 x 600mm C20 concrete foundations for new fence posts. All timbers to be pre-treated with timber preservative and all cut timbers treated n site with timber preservation prior to fixing.

All fencing is to be installed in strict accordance with manufactures written recommendations. Allow for the provision of all necessary posts, fixings and other necessary components to provide a complete installation.

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SCHEDULE OF WORKS

BUILDERS WORKS AND ATTENDANCE ON M & E WORKS TO ALL PHASES

A The main contractor is to ascertain the nature and extent, and include for allowance and overheads and profit and of all builders works and all required attendance in connection with the provision of Mechanical and electrical works to the project.

COMPLETION

B Upon completion of the works, thoroughly clean down all surfaces throughout the site area. Remove any debris and waste materials and allow to dispose of off site. Leave the site clean and tidy to the satisfaction of the CA.

C The contractor is to allow for a further deep clean by a specialist cleaning company to all areas (further to the 'builders clean' upon completion.

D The contractor shall prepare and submit to the CA 3 No. copies of the health & Safety file (2 No. paper copies, 1 No. electronic copy) and the Operation and Maintenance Manuals as section A37. **Completion of these items will be a condition of Practical Completion.**

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SCHEDULE OF WORKS

PROVISIONAL SUMS AND CONTINGENCY

A	Allow for a provisional sum of £10,000.00 for additional drainage and excavation works, which may become necessary during the course of the works. Provisional sum may not be expended with direction from the CA for works not included elsewhere within the specification.	£10,000.00
B	Provide a contingency sum of £85,000.00 for unforeseen works, which may become necessary during the course of the works. The contingency sum may only be expended with written instruction from the CA.	£65,000.00
C	Provide a provisional sum of £6,500.00 for additional steelwork support. The provisional sum may only be expended with written instruction from the CA.	£6,500.00
D	Provide a provisional sum of £5,000.00 for additional foundations/ground works required during the course of the works. The provisional sum may only be expended with written instruction from the CA.	£5,000.00