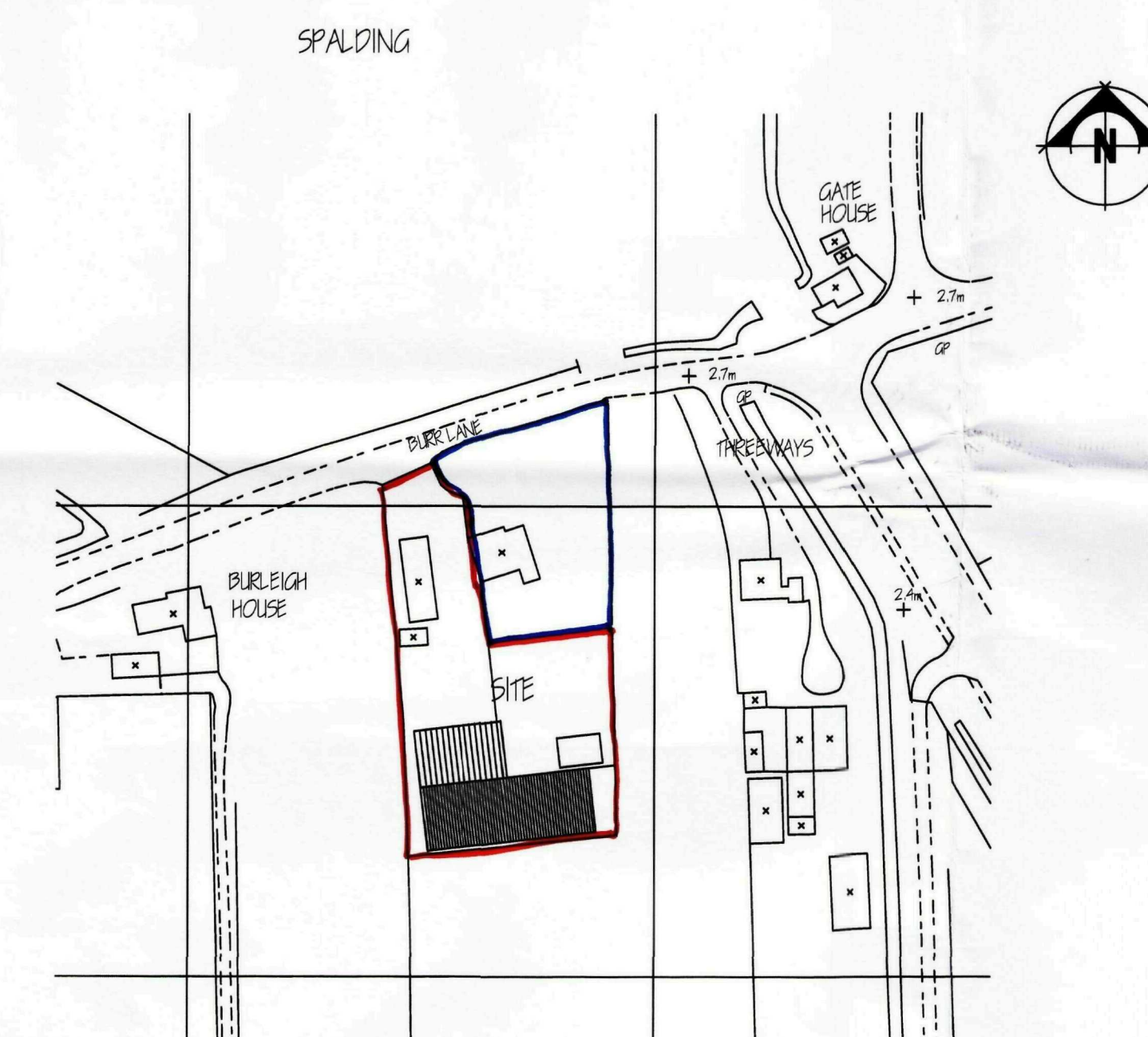
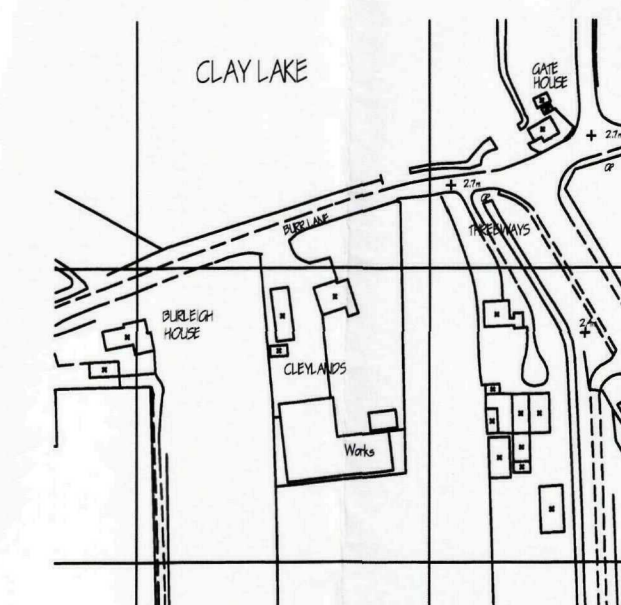
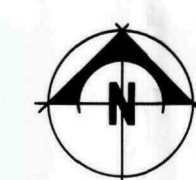


SHDC
Planning & Development
- 2 MAR 2011
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E	Drainage etc. amended	ADH	Feb'11
D	Building shape amended	ADH	Feb'11
C	Drainage & notes added	ADH	Aug'10
B	1:1250 Location plan added	ADH	June'10
A	Notes added	ADH	May'10
Rev	Description	Drawn	Date

Drawing Status
ISSUED FOR APPROVAL

AZTech Designs Limited.

Architectural & Building Design Services

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Client
PROMECH ENGINEERING LIMITED

Project
LIGHT ENGINEERING WORKSHOP AT BURR LANE, SPALDING

Drawing Title
BLOCK & LOCATION PLAN

Scale 1:200 & 1:2500	Drawn ADH	Checked ADH
Date APRIL '10	Drawing No. ADH/002/03/10	Rev. E

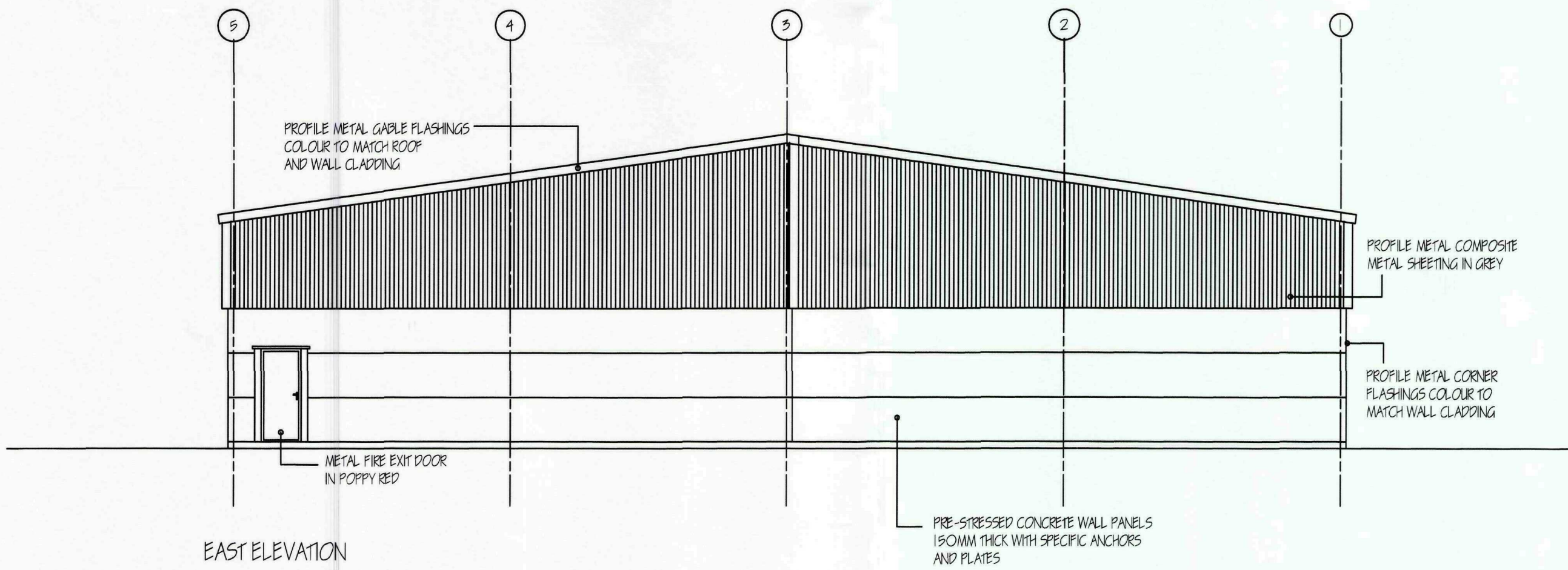
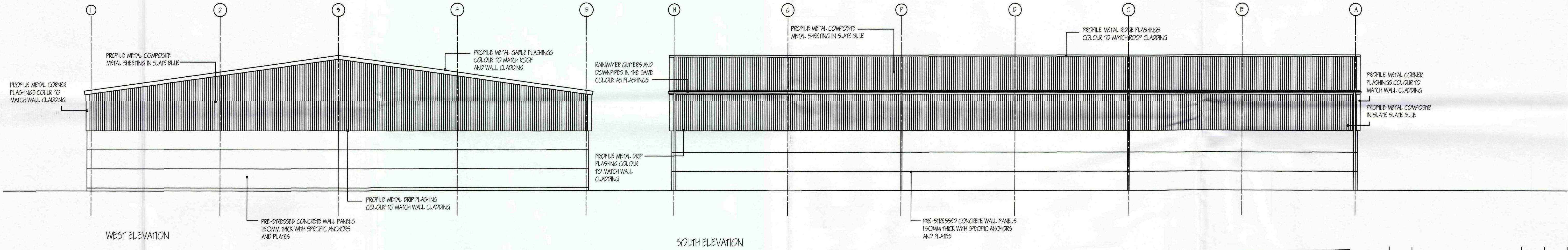
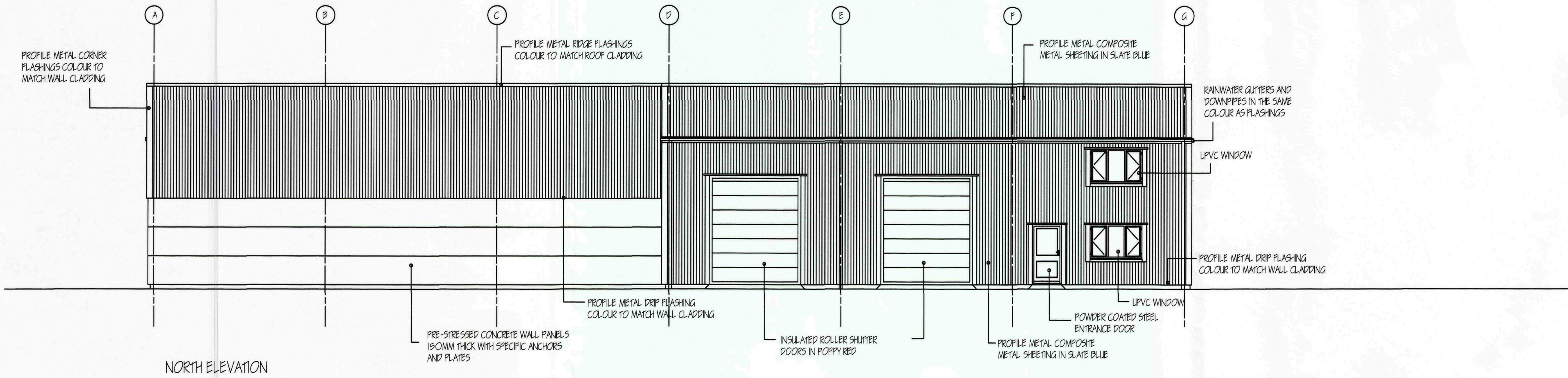
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- 2 MAR 2011
Ref: 0167-11

C	Elevations amended	ADH	Feb'11
B	Notes added	ADH	Aug'10
A	Size of building amended	ADH	Apr'10
Rev	Description	Drawn	Date

Drawing Status
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Project
LIGHT ENGINEERING WORKSHOP
AT BURR LANE, SPALDING

Drawing Title
ELEVATIONS

Scale 1:100	Drawn ADH.	Checked
Date APRIL '10	Drawing No. ADH/ 002/ 02/ 10	Rev. C

DRAINAGE
INSPECTION CHAMBER CONSTRUCTION TO BE OSMA OR SIMILAR INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS UP TO A MAXIMUM DEPTH OF 1000mm AND IN 229mm BRICKWORK FOR DEPTHS OF OVER 1000mm. INSPECTION CHAMBERS UP TO 1000mm DEEP TO BE 450mm DIA. AND OVER 1000mm DEEP 1200x750mm. BUILD INTO CHAMBERS OVER 1000mm DEEP GALVANISED STEP IRONS SPACED AT 250mm VERTICALLY AND STAGGERED 300mm C/C. CHAMBERS IN UPVC TO HAVE A MINIMUM ACCESS OF 450mm DIA. CHAMBERS IN BRICKWORK TO HAVE A MINIMUM ACCESS OF 600x600mm. IN PAVED AND VEGETATION AREAS, GRADE 'B1' SINGLE PIECE DUCTILE IRON COVERS ARE TO BE USED. ALL UNDERGROUND PIPES TO BE 100mm DIAMETER PVCu TO BS 4460:1989 WITH FLEXIBLE JOINTS BEDDED ON AND SURROUNDED WITH A MINIMUM OF 150mm OF 10mm GRANULAR FILL AND INSTALLED ALL AS MANUFACTURERS INSTRUCTIONS. WHERE FLEXIBLE PIPES ARE NOT UNDER PAVED AREAS AND HAVE LESS THAN 600mm OF COVER THEY SHOULD, WHERE NECESSARY, HAVE CONCRETE PAVING SLABS LAID AS BRIDGING ABOVE THE PIPES WITH AT LEAST 75mm OF GRANULAR MATERIAL BETWEEN THE TOP OF THE PIPE AND THE UNDER-SIDE OF THE SLABS. WHERE DRAINS PASS THROUGH A WALL, BUILD IN 65x100mm, PRE-STRESSED CONCRETE LINTOL TO EACH LEAF OF BRICK/ BLOCKWORK TO FORM BRIDGING OVER PIPE.

PACKAGED TREATMENT WORKS
THE DISCHARGE FROM THE WASTEWATER TREATMENT PLANT SHOULD BE SITED AT LEAST 10m AWAY FROM BUILDINGS. TREATMENT UNIT TO BE A TYPE TESTED IN ACCORDANCE WITH BS6297 OR NOTIFIED BODY. POWER TO THE UNIT TO ENABLE ADEQUATE FUNCTION WITHOUT POWER FOR UP TO 6 HOURS OR HAVE AN UN-INTERMITTABLE POWER SUPPLY. A NOTICE SHOULD BE FIXED WITHIN THE BUILDING DESCRIBING THE UNIT AND NECESSARY MAINTENANCE.

RAINFALL STORAGE
RAINFALL DRAINS FROM RAINWATER DOWNPIPES TO DISCHARGE INTO SOFTWATER STORAGE TANK SITUATED MINIMUM OF 5.000m FROM BUILDING. TANK TO BE FROM AN APPROVED MANUFACTURER AND INSTALLED ALL AS PER THEIR INSTRUCTIONS. TANK TO HAVE A STORAGE CAPACITY OF 10,000 LITRES AND TO HAVE A OVERFLOW PIPE OF AT LEAST THE SAME DIAMETER AS THE INCOMING PIPE WHICH IS TO DISCHARGE TO A SINKAWAY IN THE CASE OF THE TANK CAPACITY BEING EXCEEDED.

GLAZING
ALL EXTERNAL DOORS AND WINDOWS TO BE DOUBLE GLAZED WITH LOW-E TYPE GLASS WITH A 16mm AIR GAP (PLUKINGTON K-GLASS OR EQUIVALENT), TO BE IN ACCORDANCE WITH PARTIN OF THE BUILDING REGULATIONS AND BS 6206:1981. ALL GLAZING TO EXTERNAL DOORS TO BE TOUGHENED / LAMINATED SAFETY GLASS, EXCEPT SOLID DOORS WITH GLAZING APERTURES NOT EXCEEDING 250mm IN WIDTH AND 0.5m² IN AREA. PROVIDE PROTECTED GLASS IN APPROVED PATTERN TO WINDOWS AS INDICATED ON ELEVATIONS.

WALL CONSTRUCTION
FORM METAL FACED INSULATED COMPOSITE PANELS OF SUFFICIENT THICKNESS TO PROVIDE A 'U' VALUE OF 0.35W/ SQM OR GREATER FIXED TO METSEC GALVANISED STEEL SHEETING RAILS COMPLETE WITH ALL NECESSARY BRACING ALL AS PER STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION.

140mm WIDE 7mm* BLOCKWORK BUILT OF CONCRETE SLAB UP TO UNDERSIDE OF RAFTER AND FIRE STOPPED WITH ROCKWOOL FIRE STOP BATT. WALL TO BE RESTRAINED AT RAFTER WITH GALVANISED METAL STRAPS FIXED TO RAFTER AND BLOCKWORK AT A MAXIMUM OF 1500mm CENTRES.

LIGHTING
ENERGY EFFICIENT LIGHT FITTINGS TO BE INSTALLED AT THE RATE OF 1W FOR EVERY 25m² BUILDING FLOOR AREA OR PART THERE OF OR 1W PER FOUR FIXED LIGHTING FITTINGS WHICH EVER IS THE GREATER. FIXED EXTERNAL LIGHT FITTINGS TO BE CONTROLLED BY PIR SENSORS WHICH EXTINGUISHES THE LIGHTS AUTOMATICALLY WHEN THERE IS SUFFICIENT DAYLIGHT.

PLUMBING
COLD WATER SUPPLY TO SINKS, WASH HAND BASINS, W.C. AND STORAGE CISTERN. HOT WATER COUNDER TO HAVE FACTORY APPLIED INSULATION COVER AND IMMERSION HEATER. A TIME SWITCH IS TO BE ALSO FITTED TO THE COUNDER. HOT WATER TO BE TAKEN TO SINKS, WASH HAND BASINS, HEATING TO BE BY WALL MOUNTED BALANCED FLUE CONDENSING BOILER OF REQUIRED SIZE SERVING RADIATORS OF REQUIRED OUTPUT. CONDENSING PIPE FROM BOILER TO DISCHARGE INTO FOLL DRAIN. HEAT OUTPUT TO BE CONTROLLED BY THERMOSTATIC RADIATOR VALVES AND ROOM STAT. ALL HEATING PIPES TO BE INSULATED WITH A MATERIAL HAVING A THERMAL CONDUCTIVITY OF 0.045 W/ m.K. ALL WASTE PIPES TO BE 90mm DIAMETER PVCu COMPLETE WITH ROOFING EYES AT EVERY CHANGE OF DIRECTION. WASH HAND BASINS AND SINKS TO HAVE 75mm DEEP SEAL TRAPS. WHERE WASTE RUNS EXCEED 3.0m, APPLIANCES TO HAVE ANTI-SIPHONIC TRAPS. AND VENT PIPE TO BE 100mm INTERNAL DIAMETER PVCu TO BS 44514:1989 AND TO EXTEND 900mm ABOVE ANY OPENING IF WITHIN 3.0m. SAWP TO TERMINATE WITH UPVC BALLOON AND HAVE ACCESS PLATE AT ITS BASE. 150mm DIAMETER RAINWATER DOWN PIPES TO DISCHARGE TO 150mm DIAMETER UNDERGROUND DRAINS VIA REST BEND. DRAINS TO DISCHARGE INTO EXISTING DYE.

WINDOWS
PVCu WINDOWS OF APPROVED MANUFACTURE, THE PENETRATION AS SHOWN ON THE ELEVATIONS. OPENING VENTS TO GIVE A MINIMUM VENTILATION OF 1/ 20TH THE FLOOR AREA. PROVIDE LOCKING HANDLES TO ALL OPENING VENTS. IN ADDITION, ALL OFFICES TO HAVE PROPRIETARY TRIGGLE VENTS INSTALLED TO WINDOW HEADS PROVIDING NOT LESS THAN 8000mm² OF BACKGROUND VENTILATION. ALL EXTERNAL DOORS AND OPENING LIGHTS TO WINDOW TO BE DRAUGHT SEALED.

SMOKE DETECTION
MAINS OPERATED, SELF CONTAINED SMOKE ALARMS TO BS 5446 PART 1 TO BE INSTALLED IN CIRCULATION AREAS WITHIN 7m OF DOORS TO HIGH FIRE RISK ROOMS. WHERE MORE THAN ONE ALARM IS INSTALLED THEY SHOULD BE INTERCONNECTED AND TO BE POSITIONED AS INDICATED ON THE PLAN. SELF CONTAINED ALARMS TO BE PERMANENTLY WIRED WITHIN THE MAIN ELECTRICAL CIRCUIT OF THE BUILDING TO A SEPARATE FUSE POSITION WITHIN THE DISTRIBUTION BOARD. INSTALLATION OF THE FIRE ALARMS TO CONFORM TO THE BS WIRING REGULATIONS AND SHOULD NOT LESS THAN 300mm FROM ANY WALL OR LIGHT FITTING. WHERE WALL MOUNTED UNITS ARE INSTALLED THEY ARE TO BE AT A HEIGHT OF BETWEEN 150mm AND 300mm BELOW THE CEILING. POSITIONING OF SMOKE ALARMS MUST FACILITATE ROUTINE MAINTENANCE AND SHOULD NOT BE FIXED WHERE THEY CAN BE AFFECTED BY HEAT, STEAM, CONDENSATION OR FLAMES FROM OTHER APPLIANCES.

SOUND INSULATION
TIMBER BASED FLOOR DECKING TO HAVE A MINIMUM DENSITY OF 15kg/ m³ WITH 100mm DRITHERM OR SIMILAR BETWEEN FLOOR JOISTS. PLASTERBOARD ON STUD WALLS TO ACHIEVE A MINIMUM DENSITY OF 10kg/ m³ WITH 75mm DRITHERM OR SIMILAR BETWEEN STUDS.

VENTILATION
MECHANICAL VENTILATION TO CANTEN TO BE VIA EXTRACTOR FAN OF 60 LITRES/ SEC. MECHANICAL VENTILATION TO MALE TOILETS AND DISABLE W.C. TO BE VIA EXTRACTOR FAN AT A MINIMUM OF 15 LITRES/ SEC.

ELECTRICAL INSTALLATION
ALL ELECTRICAL WORK REQUIRED TO MEET THE REQUIREMENTS OF APPROVED DOCUMENT PART 1 (ELECTRICAL SAFETY) - 1st JANUARY 2005 MUST BE DESIGNED, INSTALLED, INSPECTED AND TESTED BY A PERSON TO DO SO. PRIOR TO COMPLETION OF THE WORKS THE COUNCIL MUST BE SATISFIED THAT EITHER:-
a) AN ELECTRICAL INSTALLATION CERTIFICATE ISSUED UNDER A COMPETENT PERSON SCHEME HAS BEEN ISSUED, OR
b) AN APPROPRIATE ELECTRICAL INSTALLATION CERTIFICATE HAS BEEN ISSUED FOR THE WORKS, AND THAT IT HAS BEEN SIGNED BY A PERSON COMPETENT TO DO SO.

PLUMBING
COLD WATER SUPPLY TO SINKS, WASH HAND BASINS, W.C. AND STORAGE CISTERN. HOT WATER COUNDER TO HAVE FACTORY APPLIED INSULATION COVER AND IMMERSION HEATER. A TIME SWITCH IS TO BE ALSO FITTED TO THE COUNDER. HOT WATER TO BE TAKEN TO SINKS, WASH HAND BASINS, HEATING TO BE BY WALL MOUNTED BALANCED FLUE CONDENSING BOILER OF REQUIRED SIZE SERVING RADIATORS OF REQUIRED OUTPUT. CONDENSING PIPE FROM BOILER TO DISCHARGE INTO FOLL DRAIN. HEAT OUTPUT TO BE CONTROLLED BY THERMOSTATIC RADIATOR VALVES AND ROOM STAT. ALL HEATING PIPES TO BE INSULATED WITH A MATERIAL HAVING A THERMAL CONDUCTIVITY OF 0.045 W/ m.K. ALL WASTE PIPES TO BE 90mm DIAMETER PVCu COMPLETE WITH ROOFING EYES AT EVERY CHANGE OF DIRECTION. WASH HAND BASINS AND SINKS TO HAVE 75mm DEEP SEAL TRAPS. WHERE WASTE RUNS EXCEED 3.0m, APPLIANCES TO HAVE ANTI-SIPHONIC TRAPS. AND VENT PIPE TO BE 100mm INTERNAL DIAMETER PVCu TO BS 44514:1989 AND TO EXTEND 900mm ABOVE ANY OPENING IF WITHIN 3.0m. SAWP TO TERMINATE WITH UPVC BALLOON AND HAVE ACCESS PLATE AT ITS BASE. 150mm DIAMETER RAINWATER DOWN PIPES TO DISCHARGE TO 150mm DIAMETER UNDERGROUND DRAINS VIA REST BEND. DRAINS TO DISCHARGE INTO EXISTING DYE.

FIRST FLOOR PLAN

GROUND FLOOR PLAN

SHDC
Planning & Development
- 2 MAR 2011
Ref: 0167-11

C	Text removed, drainage amended	ADH	Feb'11
B	Floor layout plan amended	ADH	Feb'11
A	Surface water storage notes added	ADH	Aug'10
Rev	Description	Drawn	Date

Drawing Status
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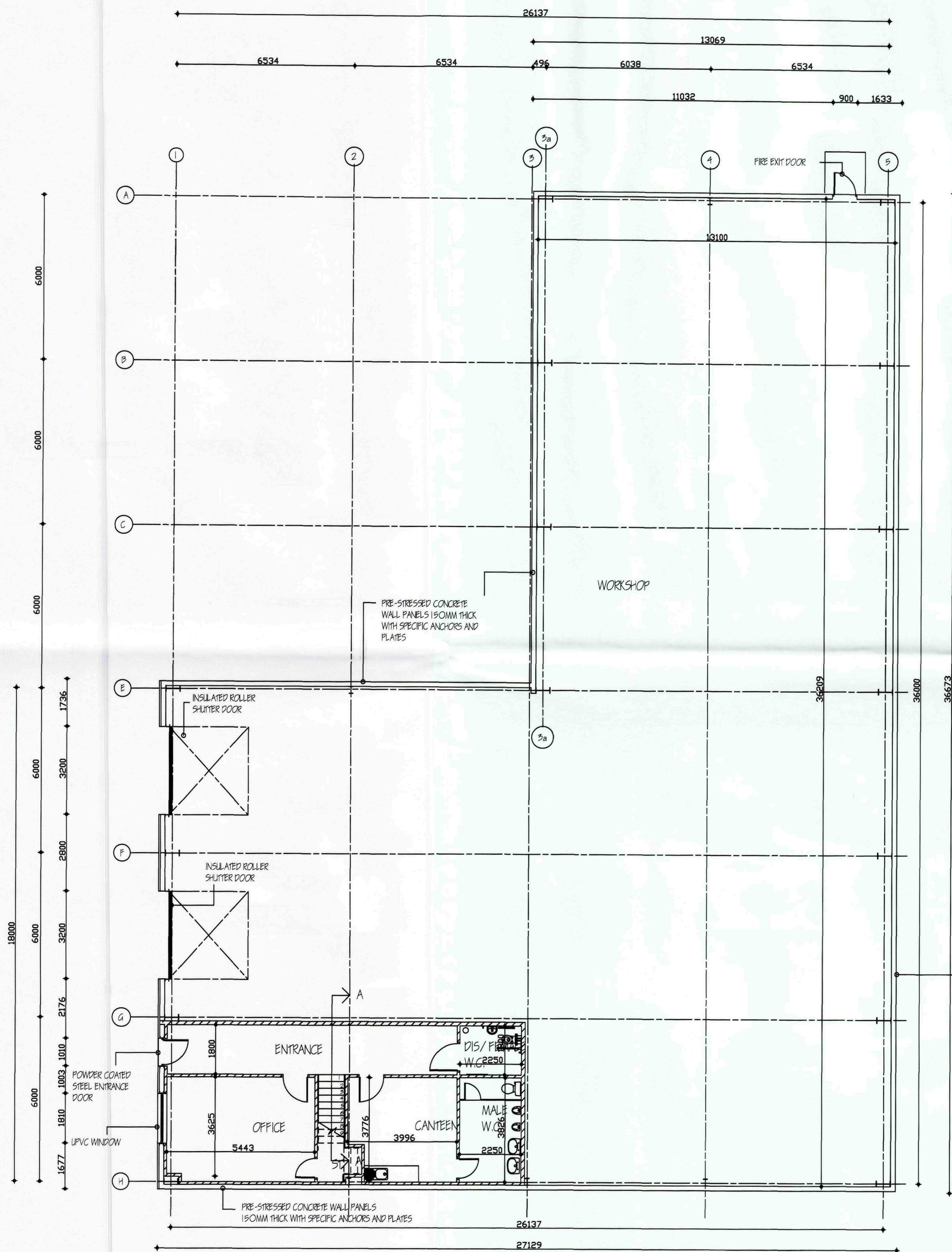
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Client
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Project
LIGHT ENGINEERING WORKSHOP
BURR LANE, SPALDING

Drawing Title
GROUND FLOOR & FIRST FLOOR PLAN

Scale 1:50	Drawn ADH.	Checked
Date MAY '10	Drawing No. ADH/ 002/ 04/ 10	Rev. C



FIRST FLOOR CONSTRUCTION
19mm TONGUE AND GROOVED FLOORING GRADE CHIPBOARD ON 190x50mm GS GRADE TIMBER JOISTS AT 400mm CENTRES. FORM HERRINGBONE STRUTTING, MINIMUM 25x100mm AT MID SPAN OF JOISTS WHERE THE SPAN EXCEEDS 2.5m. JOISTS TO BE TREATED AND BUILT INTO BLOCKWORK AS WORK PROCEEDS.
PROVIDE AND FIX AT 90° TO FLOOR JOISTS, 20x5x500mm LONG GALVANISED MILD STEEL LATERAL RESTRAINT STRAPS WITH 100mm TURN DOWN FIXED TO BLOCKWORK, TO RUN OVER AND FASTENED TO 2nd FLOOR JOISTS WHERE RUNNING PARALLEL TO EXTERNAL WALL AT A MAXIMUM OF 2000mm CENTRES. 50mm WIDE SOLID BRIDGING TO BE FIXED BENEATH STRAPS BETWEEN JOISTS, BRIDGING TO BE A MINIMUM DEPTH OF HALF THE JOIST. 100mm OR OTHER OR SIMILAR OF MINIMUM DENSITY OF 12kg PER METRE SQUARE BETWEEN FLOOR JOISTS.
NOTCHES SHOULD NOT EXCEED 0.125 X DEPTH OF THE JOIST AND BE CUT CLOSER TO THE SUPPORT THAN 0.07 OF THE SPAN. HOLES SHOULD HAVE A DIAMETER OF NOT GREATER THAN 0.25 TIMES THE DEPTH OF THE JOIST AND SHOULD BE DRILLED AT THE JOIST CENTRE LINE. THEY SHOULD NOT BE LESS THAN THREE DIAMETERS (CENTRE TO CENTRE) APART AND SHOULD BE LOCATED BETWEEN 0.25 AND 0.4 TIMES THE SPAN FROM THE SUPPORT.

ROOF CONSTRUCTION
FORM METAL FACED INSULATED COMPOSITE PANELS IN SLATE BLUE OF SUFFICIENT THICKNESS TO PROVIDE A 'U' VALUE OF 0.25W/m²K OR GREATER FIXED TO METSEC GALVANISED STEEL PURLINS COMPLETE WITH ALL NECESSARY BRACING ALL AS PER STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION.

METAL COMPOSITE INSULATED WALL PANELS IN SLATE BLUE ON METSEC OR SIMILAR SHEETING RAILS RAIL SIZES AND SPACING ALL AS PER STRUCTURAL ENGINEERS RECOMMENDATIONS

FOUNDATIONS
CONCRETE PAD FOUNDATIONS ALL TO STRUCTURAL ENGINEERS DETAIL, SIZES AND SPECIFICATION

SECTION THRO'

FLOOR CONSTRUCTION
FORM FLOOR OF 180mm THICK REINFORCED CONCRETE SLAB ON 35mm THICK POLYFOAM FLOORBOARD OR SIMILAR ON 1200mm DAMP PROOF MEMBRANE ON A MINIMUM OF 200mm THICK BLINDED AND CONSOLIDATED hardcore. FLOOR CONSTRUCTION TO BE ALL AS PER STRUCTURAL ENGINEERS DETAILS AND SPECIFICATION

STAIRCASE
CONSTRUCT STAIRCASE AS FOLLOW: 1000mm OVERALL STRING, 16No RISERS AT 168mm, EX 19x225mm, 250mm GOING, EX 25x250mm. PITCH MINIMUM OF 38.54°, MINIMUM HEADROOM 2.000m MEASURED VERTICALLY ABOVE THE PITCH LINE.
STAIRCASE TO HAVE A 'NOPOSTICK' SHAPED SOFTWOOD HANDRAIL MINIMUM OF 900mm AND MAXIMUM OF 1000mm ABOVE THE PITCH LINE.
HANDRAIL TO BE A MINIMUM HEIGHT OF 900mm ABOVE FLOOR LEVEL AT LANDING AREAS. ALL HANDRAILS TO BE CAPABLE OF RESISTING THE APPROPRIATE LOADS AS SPECIFIED IN BS 6999 PART 1.
LANDINGS TO BE NOT LESS THAN WIDTH OF STAIRS.

PRE-STRESSED CONCRETE WALL PANELS 150MM THICK WITH SPECIFIC ANCHORS AND PLATES

SECTION A-A THRO' STAIRS

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GENERAL NOTES
THE BUILDING OWNER IS ADVISED TO TAKE ALL REASONABLE PRECAUTIONS IN FUTURE TREE AND SHRUB PLANTING, TO SAFEGUARD THE FOUNDATIONS OF THE BUILDING. BUILDINGS AND FOUNDATIONS ARE PARTICULARLY VULNERABLE TO DRAINAGE WHERE CLAY SUB-SOIL EXIST AND ADVICE SHOULD BE OBTAINED.
APPLICANTS ARE ADVISED TO CARRY OUT TRIAL HOLE INVESTIGATIONS TO ESTABLISH THE ADEQUACY OF THE UNDERGROUND STRATA TO ENSURE THERE IS NOT HAVE GROUND, A WIDE VARIATION IN THE TYPE OF SUB-SOIL WITHIN THE LOADED AREA OR WEAKER TYPES OF SOIL AT SUCH A DEPTH BELOW THE STRATA ON WHICH THE FOUNDATION RESTS THAT COULD IMPAIR THE STABILITY OF THE STRUCTURE.

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- 2 MAR 2011
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D	Layout amended	ADH	Feb'11
C	Notes added	ADH	Aug'10
B	Notes added	ADH	May'10
A	Length of building reduced	ADH	Apr'10
Rev	Description	Drawn	Date

Drawing Status
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Project
LIGHT ENGINEERING WORKSHOP AT BURR LANE, SPALDING

Drawing Title
PLAN & SECTION THRO'

Scale 1:100	1:20	Drawn A.D.H.	Checked
Date APRIL '10	Drawing No. ADH/002/01/10	Rev. D	