



- ### CDM NOTES FOUNDATIONS
- THE CONTRACTOR SHOULD ASSESS THE RISKS WITH EXCAVATING OUT THE EXCAVATIONS FOR THE NEW FRAME BASES AND THE NEW RETAINING WALL.
 - IF ACCESS IS REQUIRED INTO THE EXCAVATIONS THEN SUITABLE ACCESS SHOULD BE PROVIDED.
 - THE CONTRACTOR SHOULD ASSESS THE RISKS WITH ACCESS NEAR ANY OPEN EXCAVATIONS AND PROVIDE APPROPRIATE MEASURES TO PREVENT THE RISK OF OPERATIVES FALLING.
 - THE EXCAVATIONS SHOULD NOT BE LEFT EXPOSED FOR MORE THAN 7 DAYS.
 - THE CONTRACTOR SHOULD ASSESS THE RISKS WITH DELIVERING, PUMPING, POURING AND PLACING CONCRETE IN THE FOUNDATIONS.
 - THE CONTRACTOR SHOULD ASSESS THE RISKS WITH DELIVERING, LIFTING, TYING AND PLACING REINFORCEMENT INTO THE FOUNDATION AND SLAB.
 - THE CONTRACTOR SHOULD ASSESS THE RISKS WITH LIFTING, MOVING AND PLACING THE FOUNDATION BLOCKWORKS/ RETAINIGN WALL MASONRY.

- CDM NOTES STEEL AND MASONRY** 
- TEMPORARY WORKS ARE REQUIRED ON THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO TEMPORARY RESTRAINT TO THE EXISTING WALLS. NEW STEELWORK AND FLOOR/ROOF STRUCTURE. PROPPING ONTO SOLID GROUND ONLY
 - THE CONTRACTOR SHOULD ASSESS THE RISKS WITH LIFTING, MOVING AND PLACING THE NEW STRUCTURAL STEELWORK INTO POSITION AT THE CORRECT HEIGHT.
 - WORKING AT HEIGHT CANNOT BE AVOIDED ON THIS PROJECT. THE CONTRACTOR SHOULD PROVIDE SUITABLE ACCESS TO IN ORDER TO CONSTRUCT THE NEW ROOF AND FLOOR STRUCTURE.

- CDM NOTES STEEL FRAME STABILITY
- THE FRAME IS TO BE SITE WELDED  THE FRAME WILL ONLY BE FULLY STABLE ONCE THE ENTIRE FRAME IS WELDED AND THE BASEPLATES ARE BOLTED INTO THE PAD FOOTINGS.

- ### RETAINING WALL NOTES

FOUNDATIONS

- FOUNDATIONS TO BE FOUND ONTO GROUND WITH A MINIMUM SAFE BEARING PRESSURE OF 75 kN/m^2 .
- EXPECTED GROUND CONDITIONS AT FORMATION LEVEL TO BE APPROVED BY BUILDING INSPECTOR.
- WALL FOUNDATIONS TO BE CAST USING RC35
 - MIN. W/C RATIO 0.6
 - 20mm MIN. AGGREGATE
 - MIN. CEMENT CONTENT 300 kg/m^3

MASONRY

- RETAINING WALL TO BE CONSTRUCTED USING FLEMISH BOND ONLY.
- MASONRY UNITS WITH FROGS ARE TO BE LAID WITH THE FROG POINTING UPWARDS AND FILLED WITH MORTAR.
- MORTAR – CLASS (i) BELOW GL
- CLASS (ii) ABOVE GL
- WALL TO BE FINISHED WITH A BUCKET HANDLE MORTAR JOINT.
- MASONRY UNITS TO A MINIMUM DENSITY OF:
 - 1500kg/m³ FOR BRICK.
 - 1700kg/m³ FOR BLOCK.
- WALL TO BE CONSTRUCTED OUT OF
 - CLASS B ENGINEERING BRICK.
 - MIN. BLOCK STRENGTH OF 10.5N/mm².
- FROST RESISTANT CLASS FL
- BACKFILLING OF THE MASONRY WALL SHOULD ONLY TAKE PLACE ONCE THE MORTAR IN THE WALL HAS FULLY CURED.
- PROVIDE 2 COURSES OF BLUE BRICK TO FORM DPC ABOVE GROUND LEVEL.
- HIGH-LEVEL DPC AND COPING TO ARCHITECTS DETAILS.

WATERPROOFING

WATERPROOF THE BACK OF A RETAINING WALL WITH EITHER A BITUMINOUS MEMBRANE OR TWO COATS OF BITUMINOUS EMULSION. PROTECT THE WATERPROOFING WITH FIBRE BOARD, OR SIMILAR, BEFORE BACKFILLING.

BACKFILLING AND DRAINAGE

THE RETAINING SIDE OF THE WALL SHOULD PREFERABLY BE BACKFILLED WITH LIGHTLY COMPACTED NON-COHESIVE MATERIAL. THE USE OF INTERMEDIATE TO HIGH-PLASTICITY CLAY, OR HIGHLY ORGANIC SOILS SHOULD BE AVOIDED (SEE DIGEST 383). A DRAINAGE LAYER OF FINE GRAINED MATERIAL, SUCH AS FINE SAND OR GRAVEL, OR CRUSHED STONE SHOULD BE INCORPORATED NEXT TO THE WALL. THE DRAINAGE LAYER SHOULD BE OF MINIMUM WIDTH 450mm. IF THE GENERAL BACKFILL CONSISTS OF FINE GRAINED MATERIAL, SEPARATE IT FROM THE DRAINAGE LAYER WITH A GEOTEXTILE FILTER FABRIC. THIS WILL PREVENT THE DRAINAGE LAYER FROM BECOMING CLOGGED. ADDITIONALLY, THE SELECTION OF A SUITABLE GEOTEXTILE FABRIC CAN BE OBTAINED FROM THE MANUFACTURERS.

THE DRAINAGE LAYER MUST BE ABLE TO DISCHARGE THROUGH WEEP HOLES IN THE WALL. WEEP HOLES SHOULD BE AT LEAST 75mm DIAMETER AND SPACED HORIZONTALLY AT NOT MORE THAN 1m INTERVALS. BUILD THE WEEP HOLES NEAR THE BASE OF THE WALL BELOW, OR WITHIN, THE LOW-LEVEL DPC. TO PREVENT WATER FROM REACHING THE FOUNDATIONS, INFILL WITH CONCRETE BEHIND THE WALL BELOW THE WEEP HOLES. THE INFILL CONCRETE SHOULD HAVE THE SAME MIX PROPORTIONS AS THAT USED FOR THE FOUNDATIONS.

AFTER CONSTRUCTION, IT IS IMPORTANT TO ADVISE THE OWNER TO KEEP THE WEEP HOLES CLEAR AND FREE FROM OBSTRUCTION.

DO NOT SCALE

GENERAL

1. THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXISTS THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATIONS. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
3. DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED
4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY, SUCH MATERIAL REMAINING THE PROPERTY OF THE CONTRACTOR USED TO COMPLETE THE BUILDING.
5. ALL WORK TO COMPLY WITH CURRENT BUILDING REGULATIONS AND TO BE IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS AND APPROPRIATE CODES OF PRACTICE.

STEELWORK

- STRUCTURAL STEELWORK SHOULD BE FABRICATED TO EXECUTION CLASS 2 (EXC 2).
- ALL OPEN STEEL SECTIONS TO BE GRADE S355 (MIN. JO) AND PLATES TO BE GRADE S275 (MIN. JO) TO BS EN 10025.
- HOLLOW SECTIONS (SHS, RHS & CHS) SHALL BE HOT FINISHED GRADE S355 NH TO BS EN 10210 – DO NOT USE COLD FORMED SECTIONS.
- ALL BEAM TO BEAM WELDS TO BE SINGLE BEVEL FULL PENETRATION BUTT WELDS.
- ALL BEAM TO POST WELDS TO BE SINGLE BEVEL FULL PENETRATION BUTT WELDS.
- STEEL FRAME TO BE PAINTED WITH EXTERNAL EXPOSURE STEEL PAINT (3 20 COATS MINIMUM). MEMBERS MAY REQUIRE PAINTING FIRST WHERE THEY ABUT TO THE PROPERTY WALLS.

PRELIMINARY ISSUE ONLY

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INITIAL ISSUE BASED UPON ARCHITECT'S DRAWING -			
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CLIENT:	EMH HOUSING X
PROJECT:	58 NUNSFIELD ROAD BUXTON

TITLE: REPLACEMENT ACCESS TO REAR OF HOUSE
STEEL FRAME TERRACE AND SIDE RETAINING WALL
STRUCTURAL DETAILS

DRAWING STATUS: PRELIMINARY

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