

FOUNDATION NOTES

ALL FOUNDATIONS ARE TO BE 600mm WIDE UNLESS NOTED OTHERWISE

THE NHBC DESCRIBES STRIP FOUNDATIONS AS THOSE WITH AN EFFECTIVE THICKNESS OF CONCRETE BETWEEN 150 AND 500mm. TRENCH FILL FOUNDATIONS ARE THEREFORE CLASSIFIED AS THOSE HAVING A THICKNESS OF CONCRETE IN EXCESS OF 500mm THE MINIMUM THICKNESS OF CONCRETE SHALL BE EQUAL TO THE SPECIFIED WIDTH OF FOUNDATION, MINUS THE WALL THICKNESS, DIVIDED BY TWO; OR 300mm WHICHEVER IS THE GREATER.

- THE ENGINEER SHALL BE INFORMED OF THE LOCATION AND SPECIES OF ANY NEW TREES TO BE PLANTED AS THEY MAY GENERATE VARIATIONS IN FOUNDATION DEPTH REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE LANDSCAPE ARCHITECT (OR PLANTING SPECIFIER) EITHER TO ENSURE PLANTING DOES NOT AFFECT THE DESIGNED DEPTHS OF FOUNDATIONS, OR TO SPECIFY ACCORDANCE WITH NHBC GUIDELINES.
- ALL FOUNDATIONS SHALL BE CENTRAL ABOUT THE WALI OVER UNLESS NOTED OTHERWISE. THE SETTING OUT OF THE FOUNDATIONS IN RELATION TO THE MASONRY IS AS SHOWN ON THE RELEVANT PLANS AND SECTIONS. THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS REQUIRED ON SITE TO ALLOW FOR POSSIBLE REVISION OF THE FOUNDATION SETTING OUT DETAILS.
- 4. THE DEPTHS OF THE FOUNDATIONS SHALL CONFORM TO WHICHEVER OF THE FOLLOWING CRITERIA GENERATES THE GREATER DEPTH:-
- 4.1. TO THE MINIMUM DEPTHS AS SHOWN ON THE ENGINEER'S DRAWINGS, BELOW EXISTING OR PROPOSED GROUND LEVELS, WHICHEVER IS THE
- 4.2. TO A MINIMUM 1000mm BELOW THE EXISTING GROUND LEVELS.
- TO A MINIMUM 1000mm BELOW THE PROPOSED GROUND LEVELS.
- TO A MINIMUM 500mm BELOW ANY TREE ROOTS EXPOSED DURING EXCAVATIONS, WHERE FOUNDED IN SHRINKABLE MATERIAL.
- 4.5. A MINIMUM OF 300mm INTO UNDISTURBED NATURAL GROUND.
- FOUNDATIONS ARE TO BEAR A MINIMUM OF 300mm INTO A SUITABLE FORMATION TO ACHIEVE A MINIMUM BEARING CAPACITY OF 100 kN/m2 (CONSERVATIVELY ASSUMED TO LIMIT ANY POSSIBLE SETTLEMENT).
- FOUNDATIONS ADJACENT TO PIPE RUNS OR MANHOLES ARE TO HAVE THEIR FORMATION LEVEL SET ABOVE THE INVERT LEVEL NO HIGHER THAN THE EQUIVALENT OF THE HORIZONTAL DISTANCE BETWEEN THE PIPE/EXCAVATION TRENCH AND THE FOUNDATION, MINUS 500mm
- ANY EXISTING FOUNDATIONS ENCOUNTERED ARE TO BE GRUBBED OUT LOCALLY AT NEW FOUNDATION POSITIONS, TO 300mm BELOW THE DEPTH OF THE EXISTING FORMATION LEVEL, AND THE NEW FOUNDATION FORMATION LEVEL IS TO BE AT THIS DEPTH, WITH STEPPING TO ADJOINING FOUNDATION ACCORDINGLY (REFER TO NOTE 6).
- CONSTRUCTION JOINTS AND STEPS IN FOUNDATIONS ARE TO BE IN ACCORDANCE WITH NHBC STANDARDS CHAPTER 4.4 9. ALL FOUNDATIONS SHALL HAVE A COMMON TOP LEVEL
- UNLESS NOTED OTHERWISE. 10. ALL EXCAVATIONS SHALL BE KEPT FREE FROM WATER,
- LOOSE MATERIAL AND RUBBISH ETC. THE FORMATION LEVEL SHALL NOT BE EXPOSED UNTIL THE DAY OF THE CONCRETE POUR.
- BS8500-1 AND BRE SPECIAL DIGEST No1 ALL CONCRETE IS TO CONFORM TO BS EN 206-1 AND BS 8500-2
- 12. CONCRETE STRENGTH/DURABLITIY REQUIREMENTS ARE AS FOLLOWS: 13.1 CONCRETE GRADE C25 (COMPRESSIVE
- STRENGTH 25 N/mm2) 13.2 CONCRETE SAMPLING AND TESTING SHALL BE
- CARRIED OUT IN ACCORDANCE WITH BS 1881. 13. THE LAYOUT OF ANY EXISTING DRAINPIPES OR SERVICES IS TO BE CONFIRMED UPON EXCAVATION, AND
- SPLIT SLEEVE DUCTING IS TO BE USED WHERE THOSE TO REMAIN, AND ANY NEW DRAINPIPES OR SERVICES, PASS THROUGH NEW FOUNDATION CONCRETE. THE DUCTING SHOULD BE SUITABLY SIZED TO PROVIDE A MINIMUM 50mm CLEAR VOID AROUND THE PIPE OR SERVICE. THE VOID MAY BE USING EXPANDED POLYSTYRENE OR SIMILAR MATERIAL. 14. WHERE FOUNDATIONS REQUIRE COMPRESSIBLE
- MATERIAL (THOSE IN EXCESS OF 1500mm DEEP IN SHRINKABLE MATERIAL), THIS SHALL BE PROVIDED TO THE INNER FACES OF EXTERNAL WALL FOUNDATIONS TO WITHIN 500mm OF THE BASE. COMPRESSIBLE MATERIAL IS NOT REQUIRED TO INTERNAL WALL FOUNDATIONS. THE COMPRESSIBLE MATERIAL SHALL BE CLAYMASTER BY CORDEK LTD. THICKNESS OF COMPRESSIBLE AND SLIP MATERIALS SHALL BE AS SHOWN ON THE RELEVANT SECTIONS ON THE ENGINEERS DRAWINGS. ALL PRODUCTS SHALL BE INSTALLED WITH ADEQUATE TEMPORARY SUPPORT DURING POURING OF CONCRETE TO ENSURE RESTRAINT AGAINST MOVEMENT.
- 15. ALL STRIP / TRENCH-FILL FOUNDATIONS SHOULD BE REINFORCED THROUGHOUT. IT SHOULD CONSIST OF B785 MESH TOP & BOTTOM, WITH 75mm CONCRETE COVER ALL ROUND. THE MAIN BARS SHOULD RUN PARALLEL TO THE LINE OF THE FOUNDATION. LAPS IN MESH TO BE 500mm MINIMUM.
- 16. MASONRY TO FOUNDATIONS TO HAVE A COMPRESSIVE STRENGTH AT LEAST EQUAL TO THAT USED ABOVE DPC, OR AS NOTED ON THE FOUNDATION DETAILS, WHICHEVER IS THE GREATER. IN ALL CASES BLOCKWORK BELOW DPC SHOULD HAVE A MINIMUM DENSITY OF 1500kg/m3 OR A MINIMUM COMPRESSIVE STRENGTH OF 7N/mm2, AND BE LAID IN CLASS (i) OR (ii) MORTAR.
- 17. ALL BLOCKWORK BELOW DPC LEVEL SHALL COMPLY WITH NHBC CHAPTER 5.1 BLOCKWORK STRENGTHS ARE TO BE IN ACCORDANCE WITH THE ENGINEER AND ARCHITECT SKETCHES AND DRAWINGS.
- 21. ALL SUB-FLOOR VENTILATION (BOTH INTERNAL AND EXTERNAL WALLS) SHALL BE IN ACCORDANCE WITH NHBC GUIDELINES/BUILDING REGULATION REQUIREMENTS, AND AS SPECIFIED BY THE ARCHITECT UNLESS NOTED OTHERWISE.
- 22. THE BUILDING INSPECTOR AND ENGINEER ARE TO BE AFFORDED THE OPPORTUNITY OF INSPECTING THE FORMATION LEVEL OF ANY FOUNDATIONS PRIOR TO THE PLACING OF THE CONCRETE. ALLOW A MINIMUM 24 HOURS NOTICE FOR INSPECTION.

SUSPENDED GROUND FLOOR SLABS:

- 1. SUSPENDED GROUND FLOOR SLABS TO BE BEAM AND BLOCK CONSTRUCTION, OR WIDESPAN HOLLOWCORE PC UNITS, DESIGNED AND SUPPLIED BY AN APPROVED SPECIALIST. THUS SPAN DIRECTION NOTED AS:
- 2. FOR SPAN LENGTHS, PLUS POSITIONS AND TYPES OF PARTITION WALLS SUPPORTED BY THE FLOOR, REFER TO ARCHITECTS DRAWINGS. FOR SUB FLOOR VOID VENTILATION DETAILS REFER TO ARCHITECTS DRAWINGS.
- 3. FLOOR CONSTRUCTION TO BE DESIGNED FOR THE FOLLOWING
- DEAD (EXCLUDING SELF WEIGHT OF FLOOR UNITS): CHIPBOARD AND INSULATION = 0.15KN/M2 75MM SAND:CEMENT SCREED = 1.80KN/M2 100M LIGHTWEIGHT BLOCKWORK PARTITIONS = 3.00KN/M RUN 75MM LIGHTWEIGHT STUDWORK PARTITIONS = 1.00KN/M RUN IMPOSED LOAD (TO BS6399): 1.50 KN/M2

UPPER FLOORS (FIRST & ATTIC FLOORS):

STUD PARTITIONS 1.0 kN/m2.

- ALL UPPER FLOORS TO BE TIMBER (POSSIBLY POSI JOISTS), DESIGNED AND SUPPLIED BY AN APPROVED SPECIALIST. FLOOR SPANS ARE INDICATED THUS: FOR SPAN LENGTHS, PLUS POSITIONS AND TYPES OF PARTITION WALLS SUPPORTED BY THE FLOOR, REFER TO ARCHITECTS
- FIRST FLOOR CONSTRUCTION TO BE DESIGNED FOR THE FOLLOWING LOADS: AN IMPOSED LOAD OF 1.5 kN/m2 (TO BS6399).

DRAWINGS.

STEEL CONTRACTOR TO CHECK THE RELEVANT DIMENSIONS PRIOR TO FABRICATION , ANY DISCREPANCIES TO BE IMMEDIATELY REPORTED TO THE ENGINEER.

- ALL STEELWORK TO BE GRADE S275 (JO FOR PLATES AND ROLLED SECTIONS) TO BS EN10025, UNLESS NOTED OTHERWISE.
- STEELWORK FABRICATION AND ERECTION ARE TO BE CARRIED OUT IN ACCORDANCE WITH B.S. 5950:PART-2:2000 STEELWORK TO HAVE FIRE PROTECTION AS PER ARCHITECT'S
- DETAIL AND CLIENT'S REQUIREMENT. PRIOR TO FABRICATION THE STEELWORK CONTRACTOR SHALL SUBMIT STEELWORK FABRICATION DRAWINGS TO CISTEC FOR
- COMMENT 16. ALL STEEL TO STEEL CONNECTIONS ARE TO BE CARRIED OUT AS PER DETAILS SHOWN.
- ALL BEAMS CONNECTIONS UNLESS DETAILED SPECIFICALLY ON THE DRAWINGS ARE TO BE DESIGNED TO BS 5950:PART 1:2000 AND ARE TO HAVE MINIMUM 4 BOLT CONNECTIONS AND FULL
- HEIGHT END-PLATE (IF POSSIBLE). 18. CONNECTIONS GENERALLY: WELDED TO ONE MEMBER AND
- BOLTED TO ANOTHER (U.N.O.). 19. ALL BOLTS TO BE GRADE 8.8 TO BS4190. M20 MINIMUM SIZE UNO. ALL NUTS TO HAVE FLAT WASHER, OR TAPERED WHERE
- NECESSARY, PLUS SINGLE COIL SPRING WASHER OR LOCK NUT ALL WELDING TO BS5135, 6MM FILLET WELDS MIN, AL AROUND,

FOUNDATIONS LEGEND

FOUNDATION DEPTHS 1.00M1.25M1.50M1.75M

LOAD BEARING WALLS

GENERAL NOTES

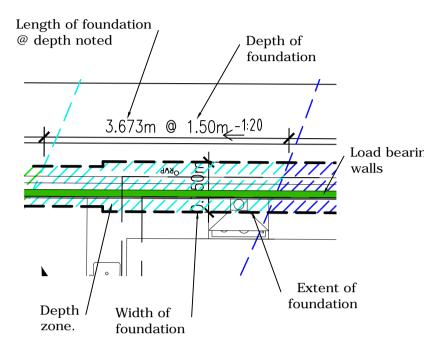
THIS DRAWING SHOULD BE READ IN CONJUNTION WITH ALL OTHER DRAWINGS BY CISTEC AND DRAWINGS BY ARCHITECT'S.

ALL WORKING DIMENSIONS TO BE CHECKED ON SITE.

DO NOT SCALE.

ANY DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT SCALES AND BETWEEN DRAWINGS AND SPECIFICATION WHERE APPROPRIATE TO BE NOTIFIED TO THE ENGINEER FOR DECISION.

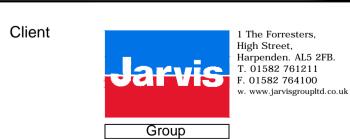
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Drawing

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