

GENERAL ARRANGEMENT OF FOUNDATIONS AND GROUND FLOOR SLAB (1:50).

FOUNDATION CONSTRUCTION NOTES

- THE FOLLOWING NOTES ARE TO BE READ IN CONJUNCTION WITH ALL CORRESPONDING ENGINEERS DRAWINGS, THE PROJECT SPECIFICATION AND CORRESPONDING DRAWINGS PRODUCED BY THE ARCHITECT, SERVICES ENGINEERS AND LANDSCAPE ARCHITECTS.
- THE CONTRACTOR SHALL VERIFY ALL SITE AND SETTING OUT DIMENSIONS BEFORE PUTTING WORK IN HAND, WHERE DIMENSIONS ARE SHOWN ON THE ENGINEERS DRAWINGS, ANY DISCREPANCIES SHALL BE REPORTED TO HIM.
- THE FOUNDATIONS ARE TO PENETRATE ANY MADE GROUND/SOFT SPOTS TO BEAR MINIMUM 150MM INTO THE NATURAL UNDERLYING STRATA, ASSUMED TO PROVIDE A DESIGN BEARING CAPACITY OF 150kN/sq.m. THE DISCOVERY OF GROUND CONDITIONS CONTRARY TO THIS SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE CONSTRUCTION OF THE FOUNDATIONS.
- THE BASE OF ALL FOUNDATION EXCAVATIONS SHALL BE TRIMMED, LEVELLED AND PROTECTED FROM INCLEMENT WEATHER.
- THE BASE OF EXCAVATIONS TO RECEIVE REINFORCED CONCRETE SHALL BE BLINDED WITH NOT LESS THAN 50MM OF DESIGNATED CONCRETE GEN 1 TO BS 8500-1:2002.
- MASS CONCRETE FOUNDATIONS TO BE DESIGNATED CONCRETE GEN 3 TO BS8500-1:2002 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- FOUNDATIONS TAKEN DOWN LOWER THAN THE DEPTHS INDICATED SHALL, TO THE APPROVAL OF THE ENGINEER AND LOCAL AUTHORITY BE MADE UP WITH DESIGNATED CONCRETE GEN 3 TO BS8500-1:2002.
- FOUNDATION EXCAVATIONS AND THE SURROUNDING SITE SHALL BE KEPT FREE OF WATER.
- IN ORDER TO SUIT LEVELS, THE BOTTOM OF FOUNDATION EXCAVATIONS MAY BE STEPPED A MAXIMUM OF 300MM DEPTH BY A MINIMUM OF 1000MM LONG UNLESS NOTED OTHERWISE.
- REINFORCED CONCRETE SHALL BE COMPACTED BY MEANS OF A MECHANICAL VIBRATING POKER AND THE WORKABILITY SHALL BE SUCH THAT WHEN COMPACTED, A DENSE CONCRETE, FREE FROM VOIDS SHALL BE PRODUCED.
- CONSTRUCTION JOINTS IN MASS CONCRETE FOUNDATIONS SHALL BE LOCATED AT LEAST 1.5M FROM ANY FOUNDATION JUNCTION, PAD BASE OR STEP IN UNDERSIDE OF FOUNDATION. JOINTS SHALL BE FORMED AGAINST A VERTICAL GROUT TIGHT SHUTTER AND SHALL INCORPORATE 4 NUMBER T16 BARS X 900MM LONG (2 TOP AND 2 BOTTOM) WITH 100MM COVER ALL ROUND.
- FOUNDATIONS TO BEAR AT LEAST 300MM BELOW THE INVERT LEVEL OF ANY ADJACENT/PERPENDICULAR EXISTING OR PROPOSED DRAINAGE OR AS INDICATED ON THE DRAWINGS (WHICHEVER IS DEEPER).

MASS CONCRETE TRENCH FILL FOUNDATIONS ON CLAY SITES

- THE FOLLOWING NOTES ARE TO BE READ IN CONJUNCTION WITH ALL CORRESPONDING ENGINEERS DRAWINGS, THE PROJECT SPECIFICATION AND CORRESPONDING DRAWINGS PRODUCED BY THE ARCHITECT, SERVICES ENGINEERS AND LANDSCAPE ARCHITECTS.
- THE CLAY ON THIS SITE HAS BEEN IDENTIFIED AS HAVING MEDIUM VOLUME CHANGE POTENTIAL. MINIMUM FOUNDATION DEPTHS TO BE IN ACCORDANCE WITH ADJACENT TABLE.

PLASTICITY INDEX	VOLUME CHANGE POTENTIAL	MINIMUM FOUNDATION DEPTH (M)
>15	HIGH	1.8
10-15	MEDIUM	1.5
5-10	LOW	1.2

- FOUNDATIONS DEPTHS INDICATED ON THE DRAWING(S) ARE BASED UPON THE GREATER OF:
 - DEPTHS TO SUIT TREES AND VEGETATION TO REMAIN (AS INDICATED ON THE DRAWINGS).
 - DEPTHS TO SUIT TREES AND VEGETATION TO BE REMOVED (AS INDICATED ON THE DRAWINGS).
 - DEPTHS TO SUIT PROPOSED NEW TREE AND SHRUB PLANTING (AS INDICATED ON THE DRAWINGS).

NOTE: DEPTHS INDICATED ARE TO BE MEASURED FROM EXISTING OR FINAL GROUND LEVELS, WHICHEVER GIVES THE GREATER DEPTH UNLESS NOTED OTHERWISE ON THE DRAWINGS.

- FOUNDATIONS DEPTHS SHALL BE INCREASED AS REQUIRED TO PENETRATE A MINIMUM OF 500MM BELOW ANY ROOT ACTIVITY IN HIGH SHRINKAGE POTENTIAL SOILS AND 300MM IN OTHER CASES. IN ANY CASE, DEPTHS DERIVED BY THIS METHOD SHOULD NOT BE LESS THAN THOSE INDICATED ON THE DRAWINGS.

- THE FOUNDATIONS DEPTHS INDICATED ON THE DRAWING(S) HAVE BEEN DERIVED BASED UPON THE BUILDING FOOTPRINT LOCATIONS AS INDICATED ON THE ARCHITECTS DRAWINGS, THE SOIL SHRINKAGE POTENTIAL AS DETERMINED FROM THE GROUND INVESTIGATION AND THE TREE HEIGHT, SPECIES AND LOCATIONS AS INDICATED ON THE SURVEY DRAWING. SHOULD SITE CONDITIONS VARY FROM THOSE ASSUMED, DETAILS OF THESE VARIATIONS SHOULD BE REPORTED TO THE ENGINEER.

- WHERE NO DETAILS OF THE PROPOSED PLANTING ARE AVAILABLE, THE PROPERTY OWNER/DEVELOPER SHALL ENSURE THAT ANY PROPOSED PLANTING LIES OUTSIDE THE CORRESPONDING ZONE OF INFLUENCE IN ACCORDANCE WITH THE ADJACENT TABLE.

WATER DEMAND OF TREE ORDER NINE STANDARDS, CHAPTER 4.3.4 (APPENDIX 4.3.4)	ZONE OF TREE INFLUENCE (NO TREE PLANTING ZONE)
HIGH	0.5 X NATURE HEIGHT
MEDIUM	0.5 X NATURE HEIGHT
LOW	0.5 X NATURE HEIGHT

- FOUNDATIONS OF EACH INDIVIDUAL PLOT OR ADJOINING GROUP OF UNITS SHALL BEAR INTO A CONSISTENT STRATA THROUGHOUT UNLESS ADEQUATELY DETAILED OTHERWISE BY THE ENGINEER.

- WHERE FOUNDATIONS ARE DESIGNED TO BEAR INTO NON-SHRINKABLE SOILS I.E. SANDS AND GRAVELS OVERLYING SHRINKABLE CLAY, DETAILS SHALL BE SUBMITTED TO AND APPROVED BY THE RELEVANT CHECKING AUTHORITY PRIOR TO PUTTING WORK IN HAND.

- WHERE NON SHRINKABLE SOILS I.E. SANDS AND GRAVELS UNDERLIE SHRINKABLE CLAYS, IT MAY BE POSSIBLE TO REDUCE FOUNDATION DEPTHS TO SUIT THE SITE CONDITIONS SUBJECT TO RECEIPT OF PRIOR WRITTEN APPROVAL OF THE ENGINEER AND ACCEPTANCE OF THE CHECKING AUTHORITY.

- WHERE DRAINAGE AND SERVICES ARE REQUIRED TO PASS THROUGH FOUNDATIONS/SUB-STRUCTURE MASONRY, SUITABLE SLEEVES/LINTELS SHALL BE PROVIDED TO ALLOW FOR THE POTENTIAL GROUND HEAVE IN ACCORDANCE WITH THE ADJACENT TABLE.

VOLUME CHANGE POTENTIAL	POTENTIAL GROUND HEAVE (MM)
HIGH	150
MEDIUM	100
LOW	50

- FREESTANDING MASONRY WALLS SHALL BE CONSTRUCTED OFF FOUNDATIONS OF DEPTH AS INDICATED ON THE DRAWING(S) OR ALTERNATIVELY, USE MINIMUM FOUNDATION DEPTHS AND CONSTRUCT WALL WITH SUFFICIENT MOVEMENT JOINTS/BED-JOINT REINFORCEMENT TO ACCOMMODATE ANTICIPATED GROUND MOVEMENT.

SECTION X - X (1:20).

SECTION Y - Y (1:20).

KEY TO FOUNDATIONS:

- DENOTES NEW 600 WIDE x MIN. 900 DEEP GEN 3 MASS CONCRETE TRENCH FILL FOUNDATION TO NEW WALLS BEARING INTO UNDISTURBED BOULDER CLAY WITH ASSUMED MINIMUM ALLOWABLE BEARING PRESSURE OF 100kN/m² ALL TO THE APPROVAL OF THE BUILDING CONTROL OFFICER.
- DENOTES NEW 600 WIDE x MIN. 900 DEEP GEN 3 MASS CONCRETE TRENCH FILL FOUNDATION TO EXISTING WALLS BEARING INTO UNDISTURBED BOULDER CLAY WITH ASSUMED MIN. ALLOWABLE BEARING PRESSURE OF 100kN/m² ALL TO THE APPROVAL OF THE BUILDING CONTROL OFFICER. EXISTING WALLS TO BE PROPPED TO ALLOW REMOVAL OF EXISTING PLINTH/FOUNDATION.

WORKSHOP: SUBJECT TO SPECIALIST REQUIREMENTS

Revision	Description	Date	Drawn
Project:	PEACOCKS BARN, FARLEY GREEN, SUFFOLK.	Drawing No:	10966/SK01
Drawing:	GENERAL ARRANGEMENT OF FOUNDATIONS AND FLOOR SLAB.	Date:	6th SEPT. 2022
Client:	MR AND MRS MACKLIN	Scale:	1:50/20 AT A1
		Drawn:	D. STARK
		Checked:	
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