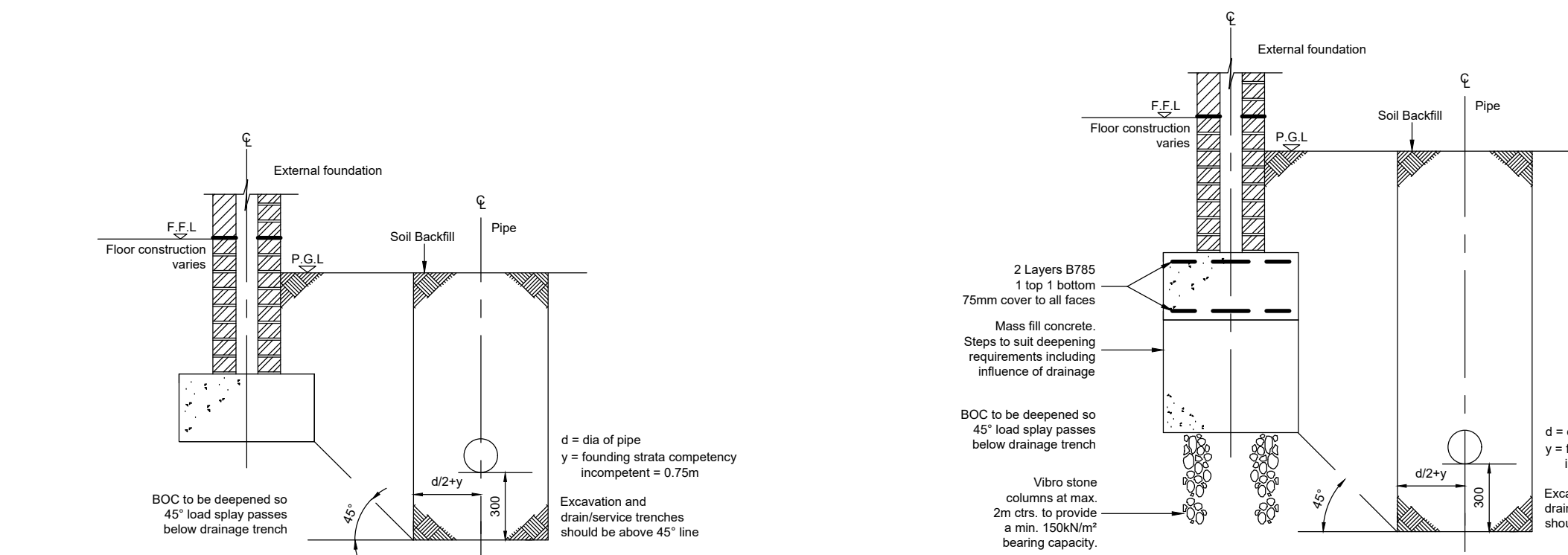


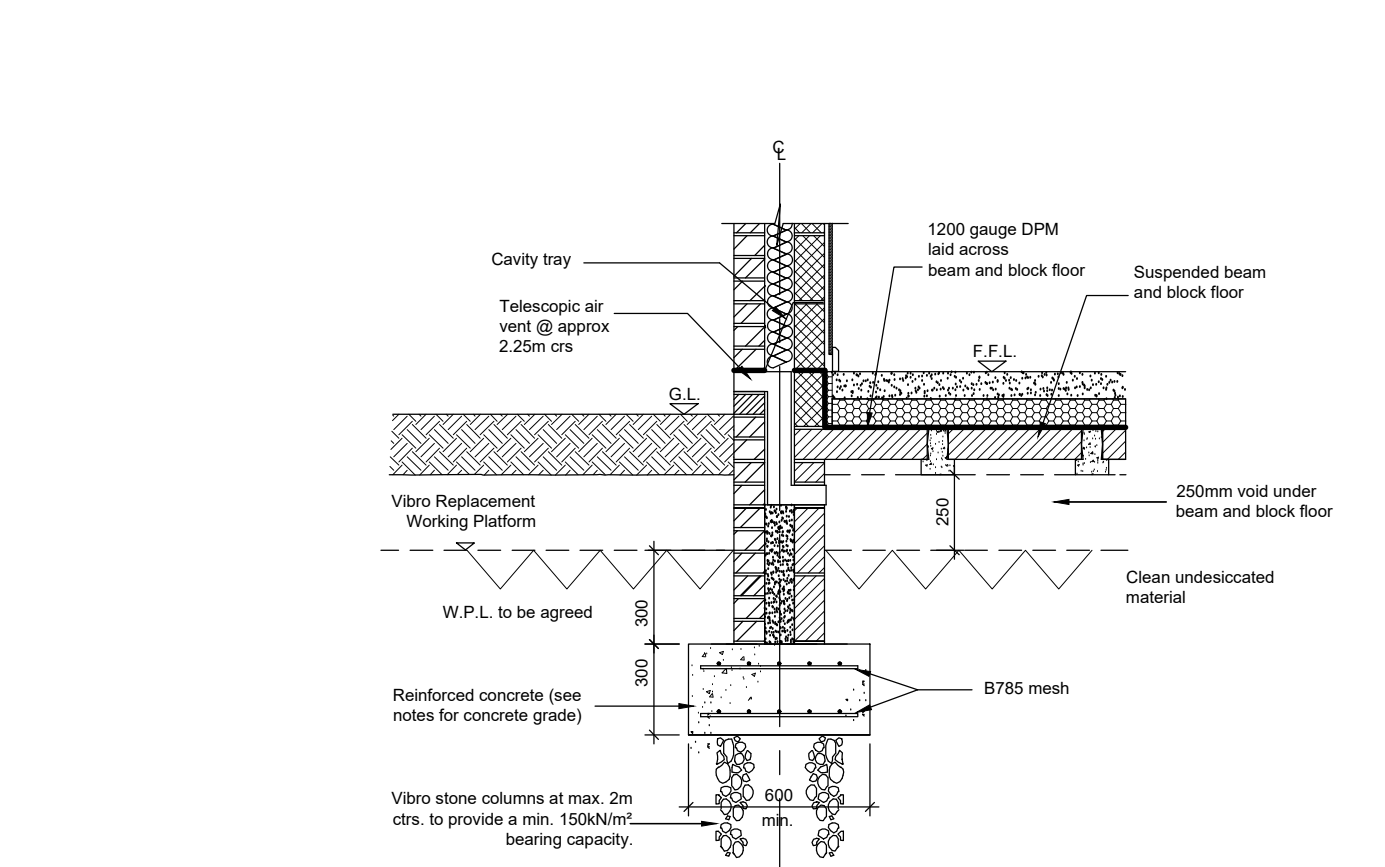
A0

Based on :-
Owl Homes Site Layout Ref: 1023-AD-002B
Travis Baker Proposed Private Drainage and External Works Ref: 23031_100
Survey Solutions Topographical Survey Ref: 47368CVAL-01, 02 & 03
Shields Arboricultural Consultancy - Arboricultural Impact Assessment Ref: AIA/HOH/05/21 Dated 13th May 2021

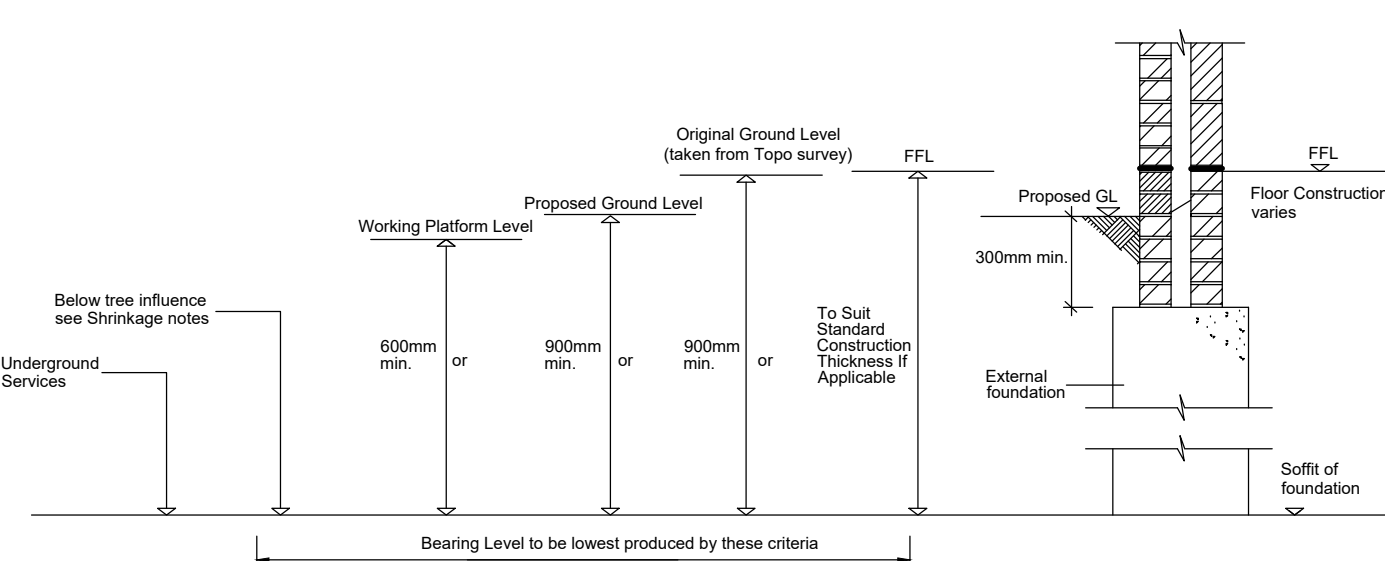


FOUNDATIONS ADJOINING A TRENCH
Dimensions of excavations for drainage have been assumed and founding depths should be amended to suit actual construction in line with BS8103-1:1995.
(DETAIL Z incompetent)

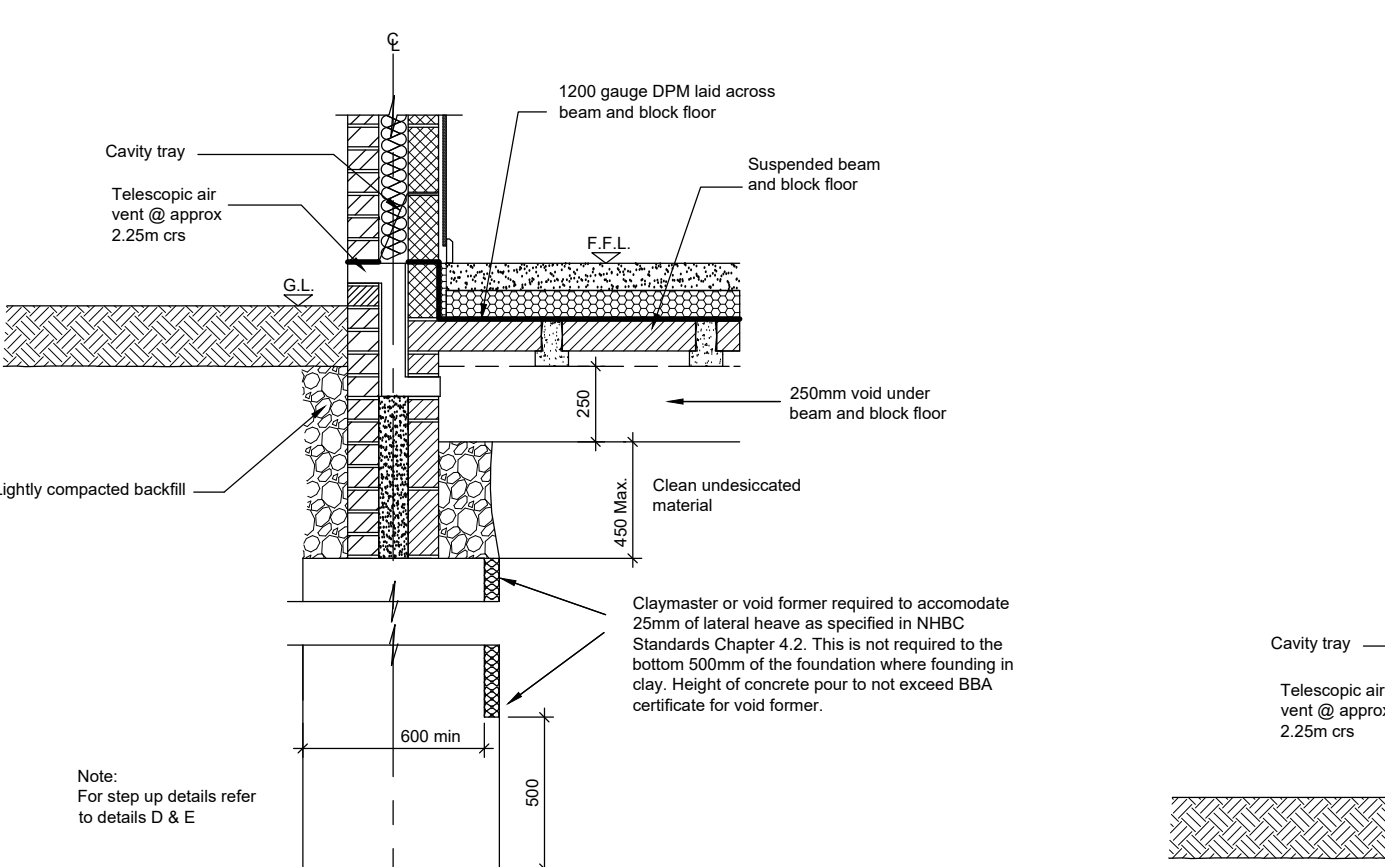
**FOUNDATIONS ADJOINING A TRENCH
WITH VIBRO COLUMNS**
Dimensions of excavations for drainage have been assumed and founding
depths should be amended to suit actual construction in line with
BS6103-1:1985.
(DETAIL W incompetent)



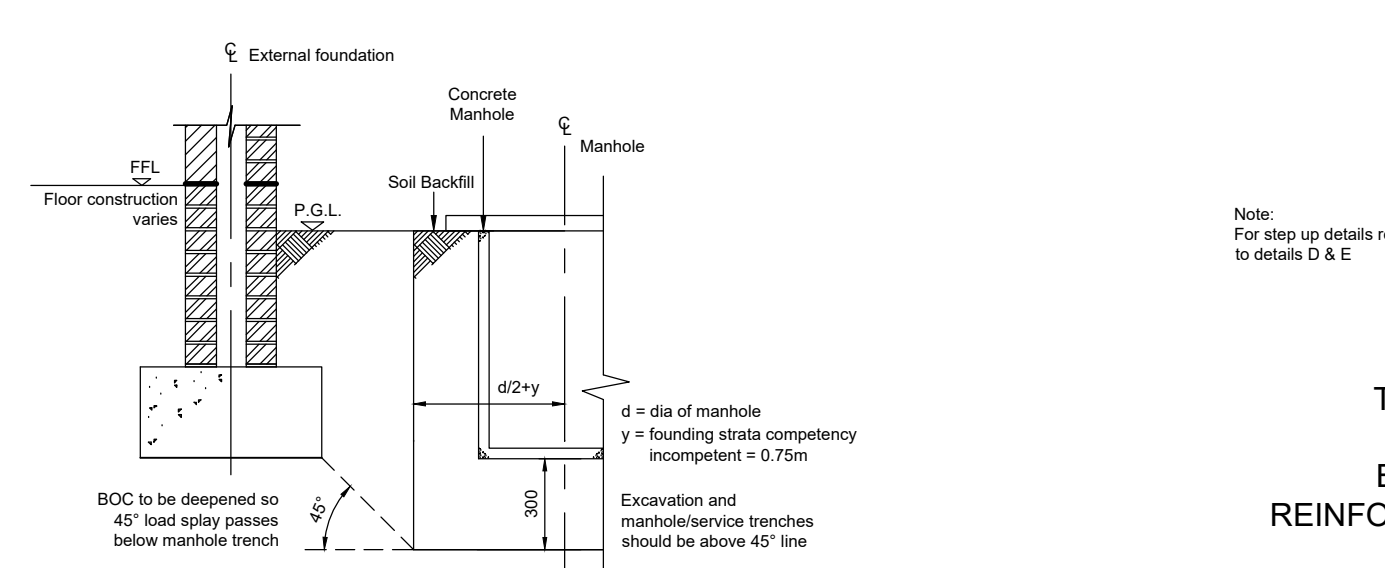
TYPICAL SECTION THROUGH
EXTERNAL WALL WITH
BEAM AND BLOCK FLOOR
WITH VIBRO FOUNDATION



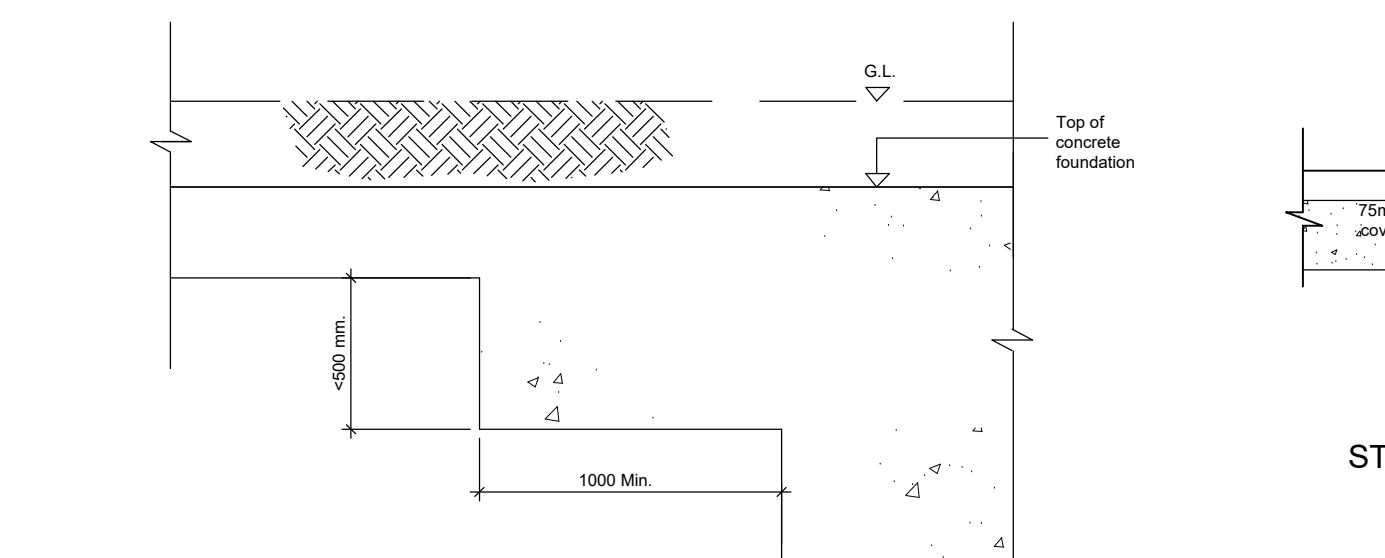
CRITERIA FOR ACHIEVING MINIMUM DEPTH
REQUIREMENT FOR REINFORCED VIBRO
FOUNDATIONS MEDIUM VOLUME CHANGE
POTENTIAL CLAY (DETAIL A2)



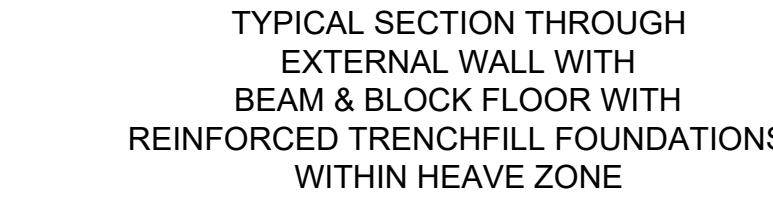
TYPICAL SECTION THROUGH
EXTERNAL WALL WITH
BEAM & BLOCK FLOOR WITH
TRENCHFILL FOUNDATIONS
WITHIN HEAVE ZONE



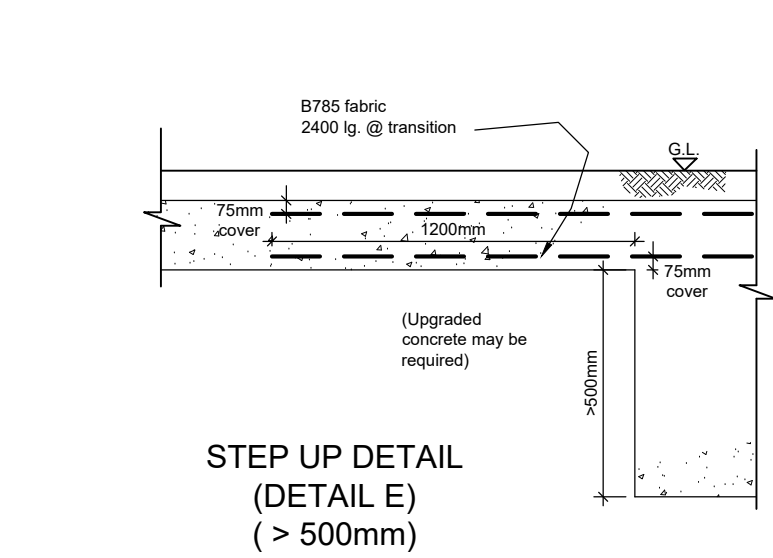
FOUNDATIONS ADJOINING A MANHOLE
 Dimensions of excavations for drainage have been assumed and founding
 depths should be amended to suit actual construction in line with
 BS6100-1:1995.
 (DETAIL Y incompetent)



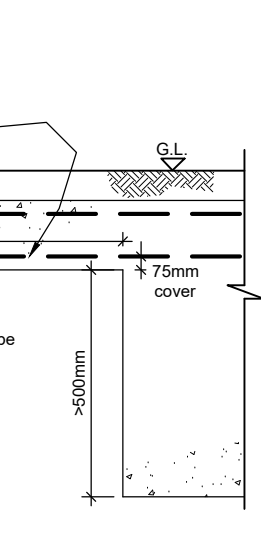
STEP UP DETAIL
(DETAIL D)
(< 500mm)



TYPICAL SECTION THROUGH
EXTERNAL WALL WITH
BEAM & BLOCK FLOOR WITH
REINFORCED TRENCHFILL FOUNDATIONS
WITHIN HEAVE ZONE

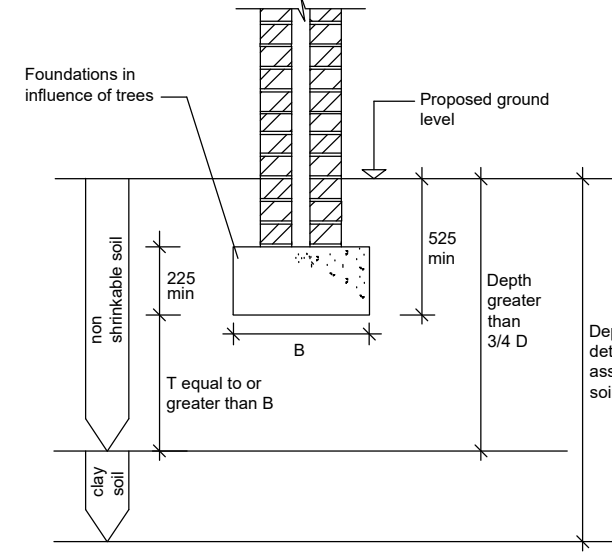


STEP UP DET
(DETAIL E)
(> 500mm)

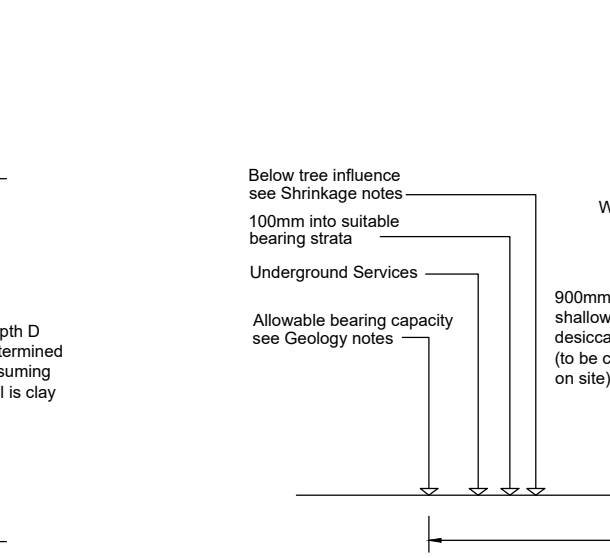


Detail X

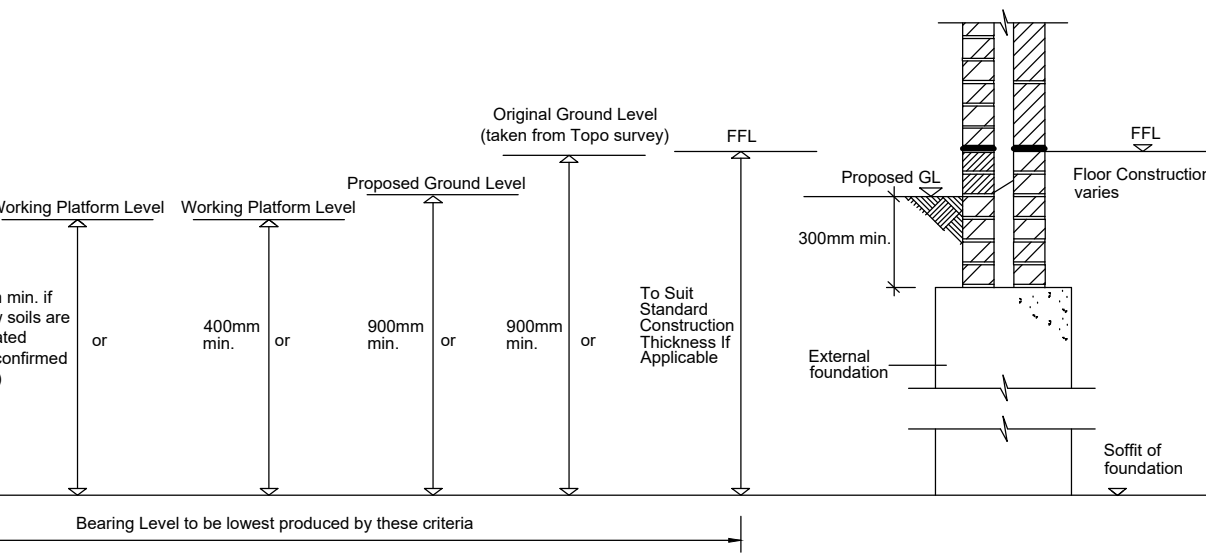
Foundations in non shrinkable
soils overlying shrinkable clay



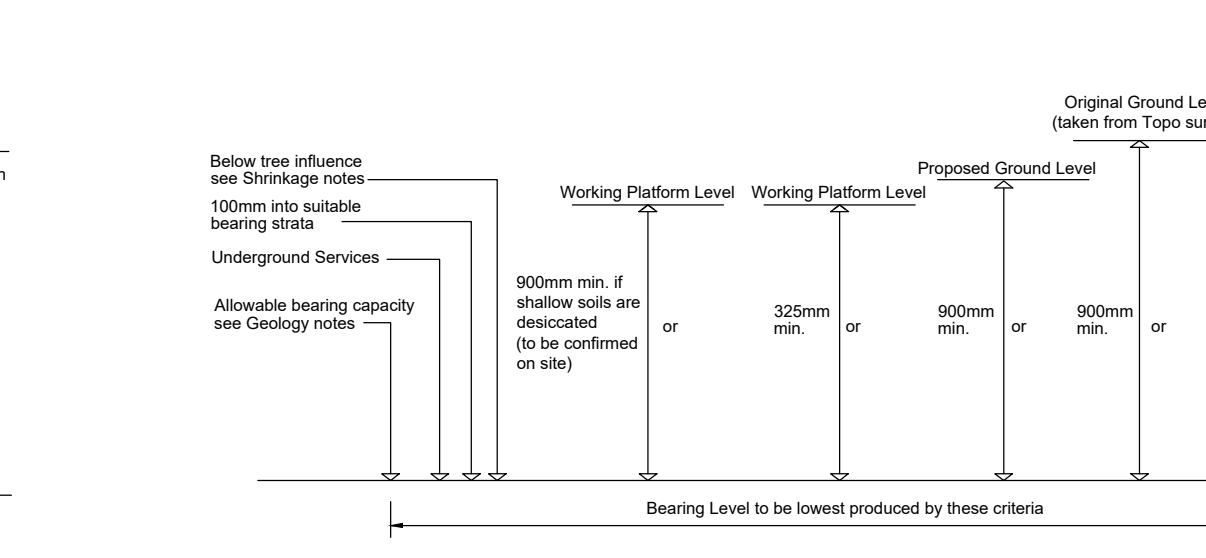
non shrinkable
shrinkable clay



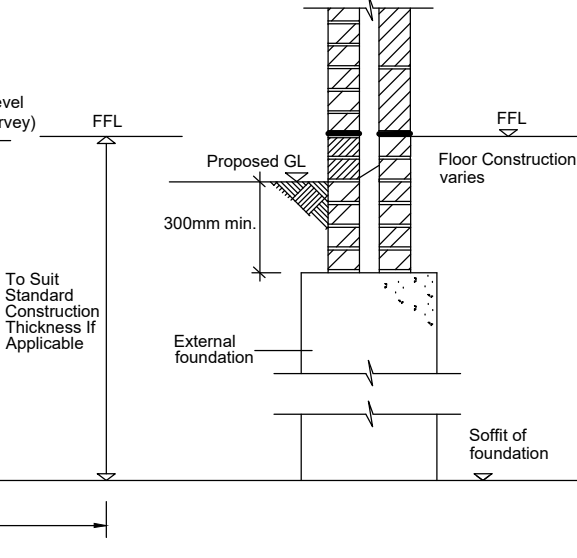
CRITERIA FOR ACHIEVING MINIMUM DEPTH
EQUIREMENT FOR REINFORCED FOUNDATIONS
MEDIUM VOLUME CHANGE POTENTIAL CLAY
(DETAIL A1)



CRITERIA FOR ACHIEVING MINIMUM DEPTH
REQUIREMENT FOR UNREINFORCED FOUNDATIONS
MEDIUM VOLUME CHANGE POTENTIAL CLAY
(DETAIL A)

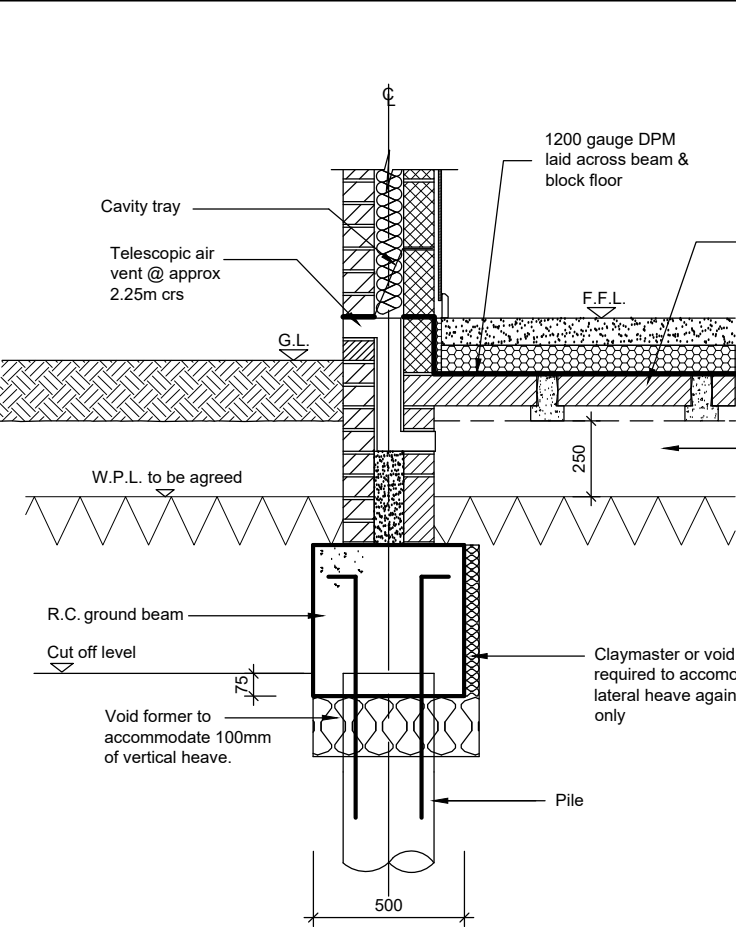


CRITERIA FOR ACHIEVING MINIMUM DEPTH
REQUIREMENT FOR UNREINFORCED FOUNDATIONS
MEDIUM VOLUME CHANGE POTENTIAL CLAY
(DETAIL A)



Plots to use reinforced strip footings on vibro replacement — stone columns due to the presence of variable and locally low strength soils.

Planned and supervised dig Plots



TYPICAL SECTION THROUGH
EXTERNAL WALL WITH
BEAM AND BLOCK FLOOR
WITH PILE & GROUND BEAM FOUNDATIONS
WITHIN HEAVE ZONE

- * Reinforced traditional foundations due to variable ground

Foundation depths based on a minimum construction thickness of 1.05m.

Design Philosophy

The soils are Glacial in origin and as such are variable between clay and sand, with variable strengths also recorded. Due to this vibro replacement stone columns should be used across a proportion of the site to provide certainty of soil strength and settlement characteristics. Where variable strata are expected within the traditional foundations trenches reinforcement should be used. Piled foundations are required within the GI (engineer design) zone of tree influence.

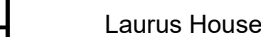
Refer to GRM foundation schedule.
Plots indicated as pile/traditional to be
either deep traditional using planned
and supervised excavation or piled to
suit the clients commercial and
construction preferences.

This drawing must be read in conjunction with the latest GRM Foundation Schedule.

[illegible]

GRM Designers Residual Risk Assessment			A		30/01/2024	LH	Revised to suit further S.1.	SH	MT/GB
Designations statement of declaration			Suffix	Date	Initials	Revision	FND	GEO	Checked
GRM releases its obligation as a design organisation to assist foreseeable risks to those constructing our designs. In accordance with our liability dates under CDM 2015, GRM has taken all reasonably practicable steps to eliminate the risk of taking into account design considerations from our design. GRM assigns a number of responsibilities and documents to be done on the first design. This Design Risk Assessment Profile is part of the overall CDM design process and is issued as such under our ISO9001 accreditation. When heavily stressed, our clients have been asked to be on the guard against residual risks to those becoming. To assist other project team members, our designers has provided information needed to identify & manage remaining identified risks for the project, along with our justification for the First design choice.									
Foreseeable risks that cannot be avoided			Actions to reduce risk		Justification for design decision				
Design exceptions	✓	Identification Report to be signed as per Schedule	Identify location on Drawing & degree as Schedule		Leave any other alternatives				
Possible exposure to contaminated ground	✓	Contamination Report to be signed as per Schedule	Identification Report to be signed as per Schedule		Identification Report				
Contact with underground services	✓	Check existing Services, mark Design Drawings when appropriate	Check existing Services, mark Design Drawings when appropriate		Underground services have to be marked on drawings				
Stiffness	✓	Regulation Approvals Details on Drawing	Regulation Approvals Details on Drawing		Protection of end user				
Trache collapse	✓	Risk highlighted with notes on Drawing	Risk highlighted with notes on Drawing		Leave Risk that other alternatives				
Slip collapse	✓	Risk highlighted with notes on Drawing, warnings on Drawing	Risk highlighted with notes on Drawing, warnings on Drawing		Not possible to remove slope				
Decomposed clay strata may be present	✓	Risk highlighted with notes on Drawing	Risk highlighted with notes on Drawing		Risk can be mitigated				
Use of working platform for Plinth/Chairs	✓	Compliance with working platform design procedure, included on Drawing	Compliance with working platform design procedure, included on Drawing		Review/alteration and/or early use for other alternatives				
Construction of foundations close to site edge	✓	Location identified on Drawing with risk identified	Location identified on Drawing with risk identified		Protect first three floors				
Contact with Overhead Utilities	✓	Establish safe working zone	Establish safe working zone		Overhead services have to be maintained well clear				



CLIENT OWL HOMES LTD		PROJECT PROPOSED DEVELOPMENT AT WOOD LANE, HIGHAM ON THE HILL	
TITLE FOUNDATION PLAN AND DETAILS PLOTS 1 - 61			
			
Laurus House, First Avenue, Centrum 100 Burton on Trent, Staffs, DE14 2WH Tel: (01283) 554249 www.grm-uk.com			
DATE 27/11/2023		SCALE 1:50 @ 8.25 (25' x 36' S) @ A0	
DRAWN BY LH		CHECKED SH	
APPROVED SH		REF P10441 01	
REVISION A		DRAWING NO. REVISION	

The drawing is copyright:
 Do not scale from this drawing. All dimensions and sizes to be measured on site and any discrepancies reported to this office before proceeding.