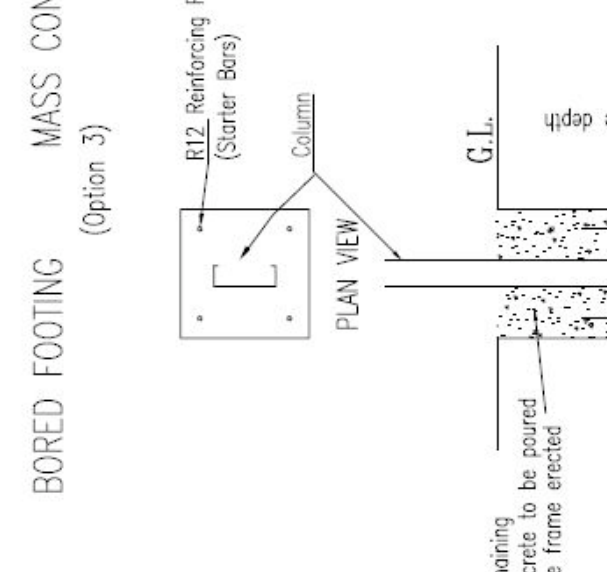
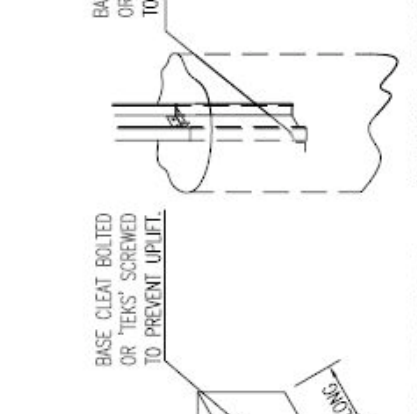
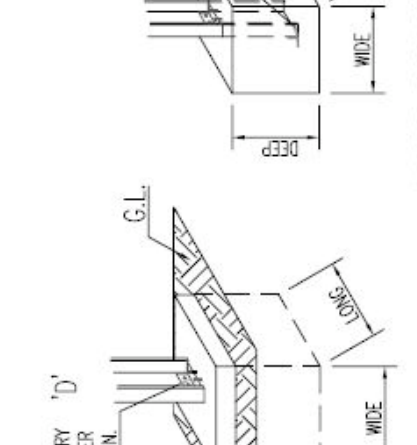
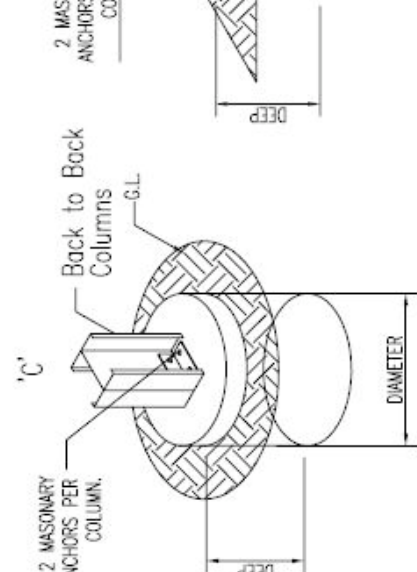
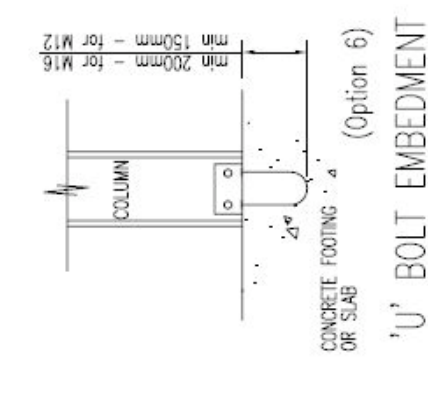
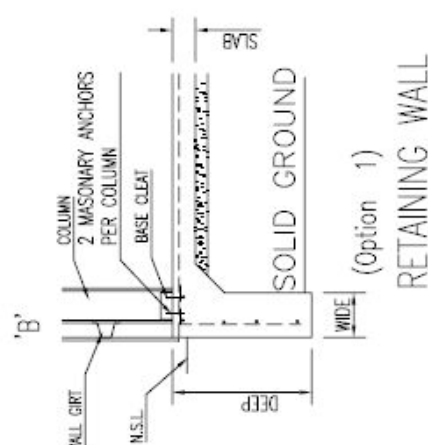
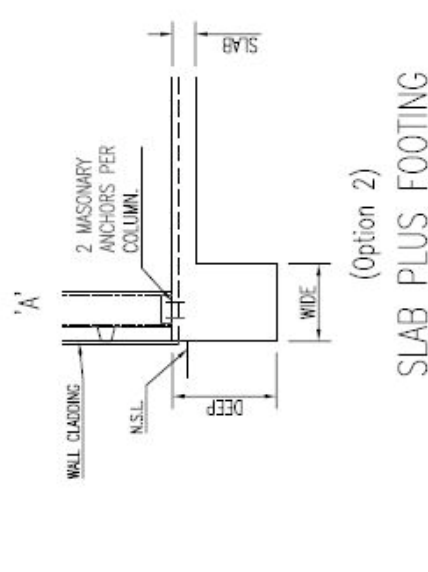
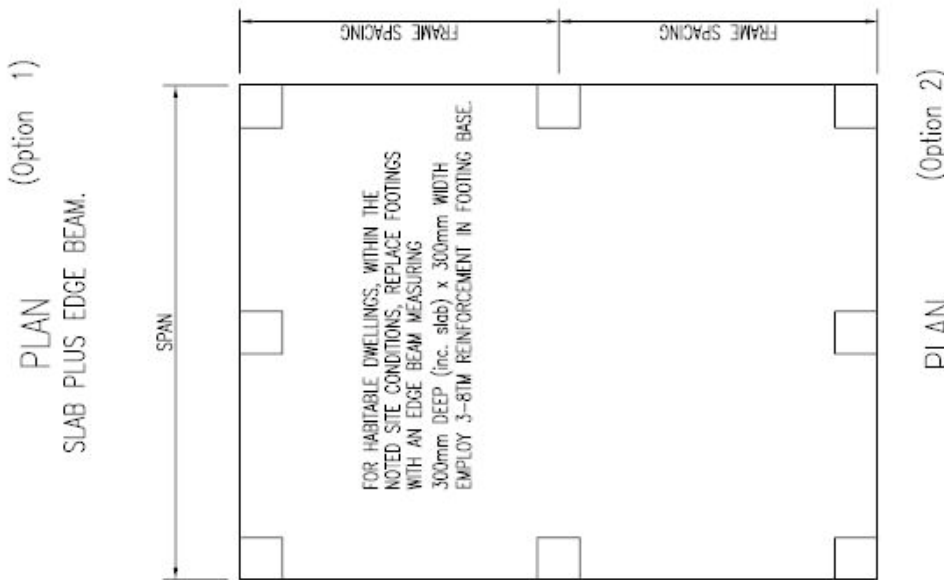
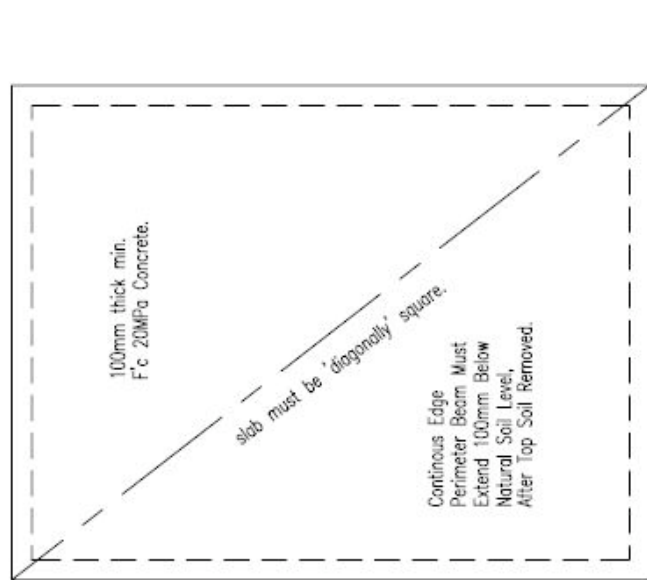




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Foundation Details

GENERAL ARRANGEMENT FOUNDATION OPTIONS FOR ALL FRAME TYPES.



CODES:
Footings have been designed in accordance with BS8103-1:1995, BS8004:1986, Building Regulations 1991 (UK), and Approved Document A Structure.

SITE CLASSIFICATION:
The site is to have a 150 kPa Ultimate Bearing Capacity, with 100 kPa Safe Bearing Capacity. Other Site conditions, including those subject to high ground movement, due to moisture changes, to be referred to a Registered Structural Engineer.

FOOTING OPTIONS:
The following footing options are available:
1. Slab plus edge beam combination.
2. Slab and mass concrete footing below columns.
3. Mass concrete footings only.
4. Columns embedded in concrete.
5. Extended columns 'Sleeve Anchored' to a variable depth mass concrete footing, with remaining concrete poured once framework is standing.
6. 'U' Bolt Embedment.

FOUNDING MATERIAL:
Edge beams, mass concrete footings and R.C. slabs to be founded on naturally occurring ground having an S.B.V. of 100kPa min and U.B.V. of 150kPa min. Rolled or compacted fill may be used under the slab. Fill must be compacted in layers of 150mm to a maximum depth of 900mm.

CONCRETE AND REINFORCING FABRIC:
To be in accordance with BS5328-1:1997. Fabric Mesh to comply with BS4483:1998. Reinforcing bars to comply with BS4449:1997. The 28 day strength of all concrete to be 20MPa and the concrete will be kept moist either by watering or covering with a plastic membrane for 7 days following slab pour. Slump 80mm+-15mm, Max aggregate size 20mm, Cement Type A.

REINFORCEMENT FABRIC:
F72 reinforcing mesh with 30mm(min) top concrete cover. All Reinforcing Bars to have 30mm(min) top and bottom concrete cover. Buildings may be erected on slab after 7 days, with due care taken not to over tighten dyno bolts.

FRAME SIZE	MASS CONCRETE FOOTINGS PLUS SLAB COMBINATION incl 100mm slab thickness	MASS CONCRETE FOOTINGS	BORED FOOTINGS	RETAINING WALL EDGE BEAM	RETAINING WALL EDGE BEAM
C100/10,15&19	length x width x depth (mm) 200 x 200 x 200	length x width x depth (mm) 300 x 300 x 300	diameter x depth (mm) 300 x 250	width x max. depth 200 x 1000	width x max. depth 200 x 1000
C150/15	300 x 300 x 300	450 x 450 x 450	450 x 500	200 x 1000	200 x 1000
C150/19	300 x 300 x 400	500 x 500 x 500	450 x 550	200 x 1000	200 x 1000
C150/24/2C150/24,15	350 x 350 x 400	600 x 600 x 600	450 x 650	200 x 1000	200 x 1000
2C150/19,24/2C200/15	350 x 350 x 400	800 x 800 x 800	600 x 600	250 x 1000	250 x 1000
2C150/24/2C200/19	400 x 400 x 400	650 x 650 x 650	600 x 700	250 x 1000	250 x 1000
2C250/15&19/2C200/24	450 x 450 x 450	700 x 700 x 700	600 x 750	250 x 1000	250 x 1000
2C250/24/2C200/15,19&24	500 x 500 x 500	750 x 750 x 750	600 x 800	250 x 1000	250 x 1000
2C250/19,24/2C300/24&30	600 x 600 x 600	1000 x 1000 x 1000	600 x 3000 or 750 x 2000	300 x 1000	300 x 1000
2C300/24/2C400/24	600 x 600 x 600	1000 x 1100 x 1100	750 x 2500	300 x 1000	300 x 1000
2C400/24&30	600 x 600 x 750	1200 x 1200 x 1200	750 x 3000	300 x 1000	300 x 1000
2C400/24&30	700 x 700 x 750	1200 x 1200 x 1300	750 x 3000 or 900 x 2500	300 x 1000	300 x 1000
EDGE BEAMS AND RETAINING WALLS OVER 1000mm DEEP REQUIRE APPROVAL OF A PRACTISING STRUCTURAL ENGINEER.					
Note: Where columns to be embedded in mass concrete, minimum embedment depth to be:					
FRAME SIZE	MIN. EMBEDMENT DEPTH (mm)				
C100, C150, 2C100	300				
C200, 2C150	400				
C250, C300	500				
C400, 2C250, 2C300, 2C400	600				
Masonry Anchors may be: Sleeve Anchors, Power Bolts, Excalibur Screws/Through Bolts or Chemical Anchors					
C100 & C150 & C200 Frames: Anchors to be 12mm diameter.					
C250, C300 & C400 Frames: Anchors to be 16mm diameter.					