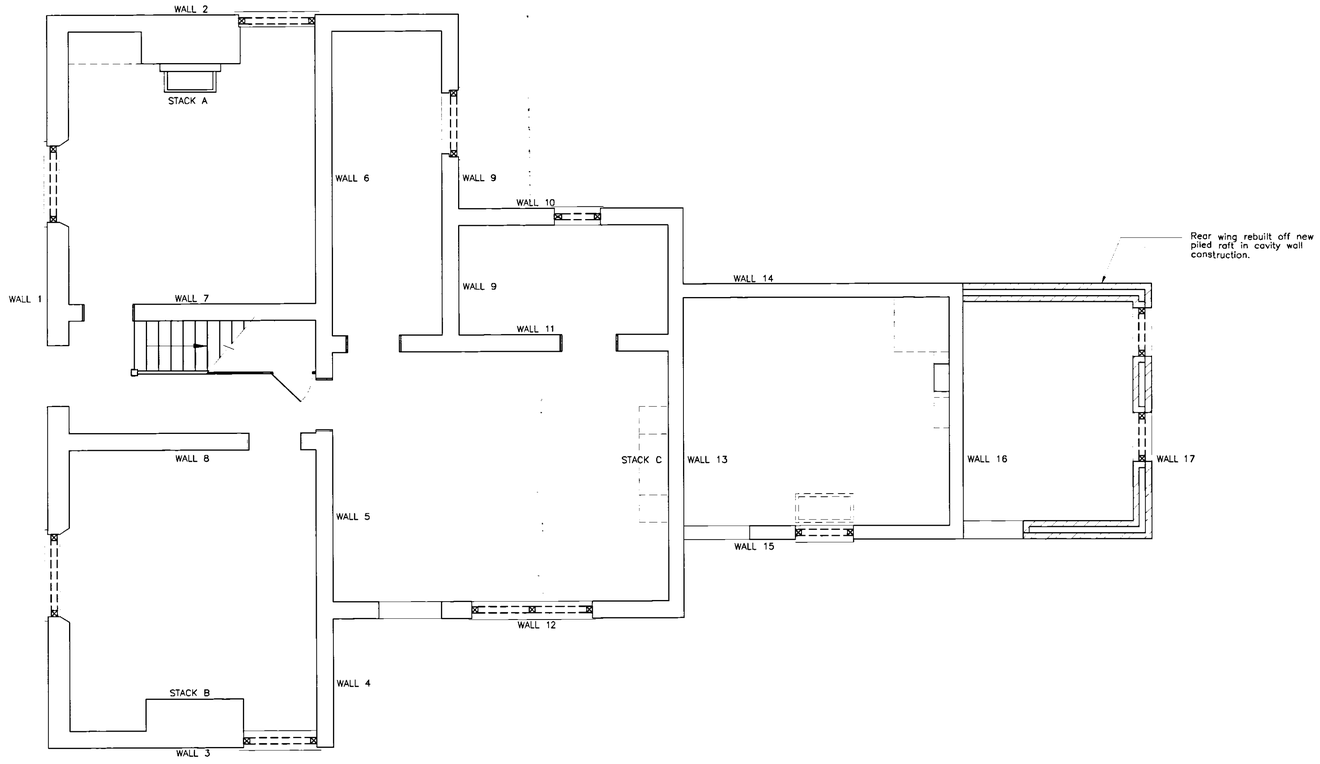


WALL LOADS KN/m RUN + #

WALL No.	KN/m² DEAD	IMPOSED KN/m
WALL 1	45	7
WALL 2 & 3	45	2.5
WALL 4 & 5	40	10
WALL 6	40	10
WALL 7 & 8	27	6
WALL 9 & 10	25	2.5
WALL 11	25	7.5
WALL 12	25	5
WALL 13	30	2.5
WALL 14 & 15	20	2.5
WALL 16 & 17	18	2.5
WALL 18	15	2.5
STACK A & B*	115 KN	– KN
STACK C	160 KN	– KN

\+ LOADS DO NOT SELF WEIGHT OF UNDERPINNING RAFT AND BEAMS

\# IMPOSED LOAD ON GROUND FLOOR – 1.5 KN/m²
FINISHES – 1.8 KN/m²

* STACK LOADS TO BE ADDED ON WALL LOADS

NOTES:

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Please read, if in doubt ask. Change nothing without consulting the Engineers.

Contractor to check all dimensions on site before work starts or materials are ordered. Do not scale, if in doubt ask. All dimensions are in mm unless stated otherwise.

Where materials, products and workmanship are not fully specified they are to be of the standard appropriate to the works and suitable for the purpose stated in or reasonably to be inferred from the drawings and specification. All work to be in accordance with good building practice and BS 8000 to the extent that the recommendations define the quality of the finished work. Materials products and workmanship to comply with all British Standards and EOTA standards with, where appropriate, BS or EC marks.

All products and materials to be handled, stored, prepared and used or fixed in accordance with the manufacturers current recommendations.

The contractor is to arrange inspections of the works by the BCO (or NHBC) as required by the Building Regulations and is to obtain completion certificate and forward to the Engineer

1. Underpinning raft to be designed by specialist underpinning contractor.

2. All piles minimum 150mm in diameter, 100KN SWL. Allow 12m length to set to be determined on site.

3. Reinforced concrete raft to BS8110 Concrete grade RC35 to BS5328.

REINFORCED CONCRETE

Concrete grade 35 N/mm at 28 days. Maximum 20mm graded aggregate. Minimum cement content 300 kg/m Maximum free water/cement ratio: 0.60. (RC35 to BS:5328).

Reinforcement cut and bent to BS: 8666. 'T' denotes grade 460 deformed high yield bars to BS: 4449. 'R' denotes grade 250 plain round mild steel to BS: 4449. Welded wire fabric to BS: 4483.

Concrete cover to be 40mm bottom and sides and 30mm top. Cover to be achieved using approved concrete or plastic spacers. 75mm minimum cover where concrete is cast against ground.

Concrete to be thoroughly compacted using a vibrating poker or a vibrating tamping board as appropriate.

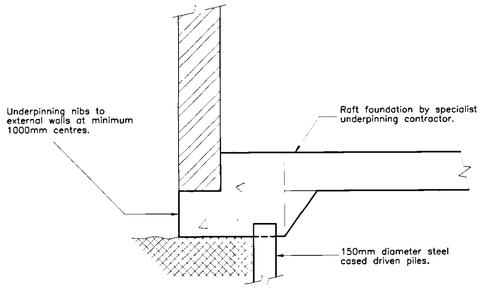
Concrete to BS: 5328 and BS: 8110, aggregates to BS: 882.

Minimum lap to reinforcement bars:–

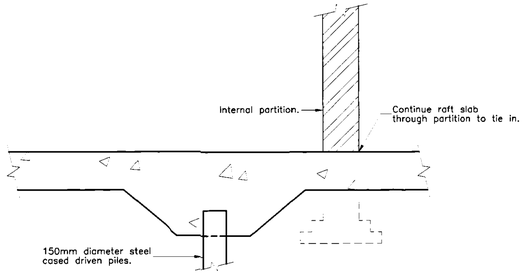
BAR	LAP
D10 BARS	380mm
D12 BARS	456mm
D16 BARS	608mm
D20 BARS	760mm
D25 BARS	950mm
D32 BARS	1216mm
A252 MESH	305mm
A393 MESH	380mm

Bar schedule to be checked by main contractor prior to ordering.

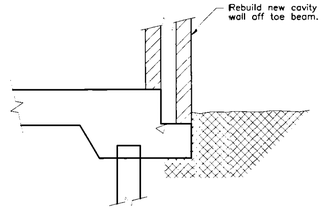
4. Refer to architectural plans prepared by Peter Humphrey Associates for all incoming service locations and underground drainage locations to be incorporated in the raft foundation.



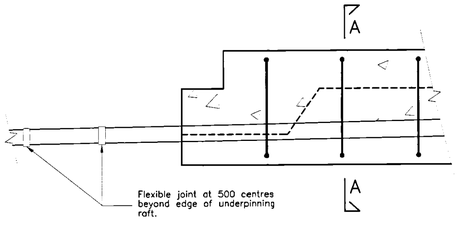
External Wall Detail 1:20



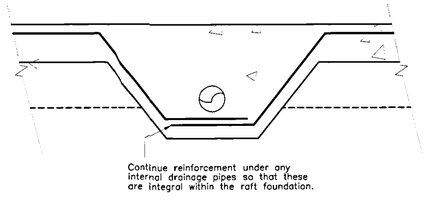
Internal Wall Detail 1:20



NEW PILED RAFT DETAIL



Drainage Detail 1:20



Section A – A 1:20

Planning & Development
1 8 AUG 2005
1139/05

A	Rebuild rear wing, demolish side wing	July 05
	REVISIONS	DATE

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CLIENT
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PROJECT
Bank House Farm,
Common Road,
Moulton Seas End,
Spalding, Lincs.

TITLE
Underpinning Details.

DRAWN: MJG	DATE OF ISSUE
CHECKED	
DATE: Mar 2005	DRAWING NUMBER: M4262/09 A
SCALE: 1:20, 1:50	