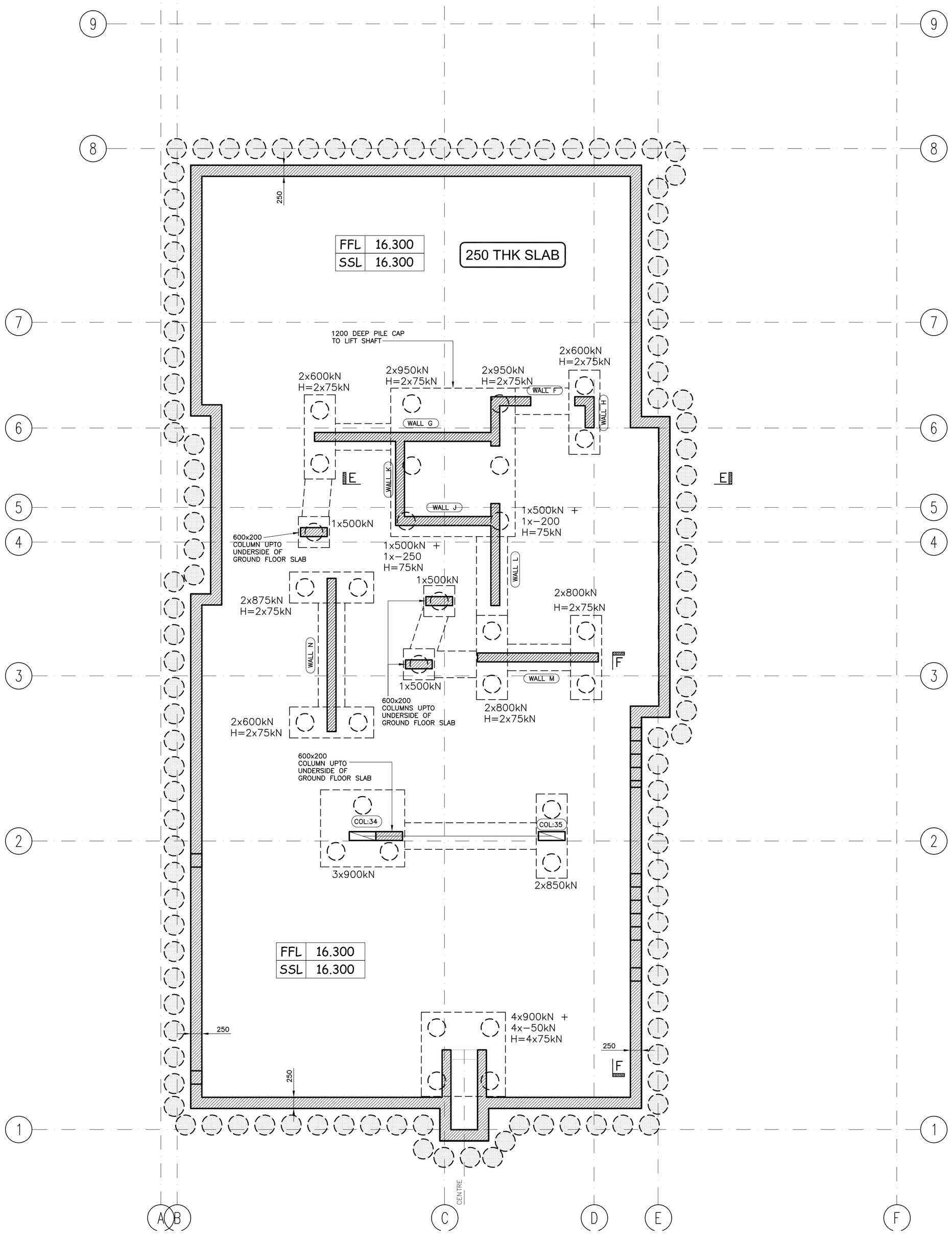
FOR CONTINUATION REFER TO 6475/1/P1.0



PILING

1. ALL PILING OPERATIONS ARE TO BE IN ACCORDANCE WITH BS 8004 : 1986 & BS 8110, AND ANY RELEVANT 'SPECIFICATIONS FOR PILING WORKS' AND THE INSTITUTION OF CIVIL ENGINEERS.

2. ALL PILES TO BE MINIMUM 300 DIAMETER, MAXIMUM 450 DIAMETER.

3. ALL PILES TO BE REINFORCED WITH MINIMUM 4H16's AND R6 SPIRALS FOR A LENGTH THAT GIVES ACCEPTABLE ANCHORAGE THAT SUITS THE PREVAILING SOIL CONDITIONS.

4. PILE REINFORCEMENT SHALL PROJECT THE GREATER OF 600mm OR 40xBAR DIAMETERS ABOVE PILE CUT OFF LEVEL, AND SHALL BE BENT OVER INTO GROUND BEAM / PILE CAP AS SHOWN.

5. THE ENGINEER SHALL BE ADVISED IMMEDIATELY OF ANY PILE DISPLACEMENT, ON PLAN, OF GREATER THAN PLUS OR MINUS 75mm.

6. PILE DESIGN TO BE IN ACCORDANCE WITH BS 8004. PILES TO BE DESIGNED FOR A FACTOR OF SAFETY OF 3.0 FOR COMPRESSION AND TENSION LOADS OR WITH A REDUCED FACTOR OF SAFETY ON COMPRESSION LOADS ONLY WITH A TESTING REGIME CONFIRMED BY BUILDING CONTROL.

7. SPECIFIC PILES ARE TO BE SUBJECTED TO A PROOF LOAD TEST, IN ORDER TO VERIFY THAT WORKING LOAD SETTLEMENT IS WITHIN ALLOWABLE LIMITS, ALL IN ACCORDANCE WITH THE INSTITUTION OF CIVIL ENGINEER PILING SPECIFICATION.

8. ALL PILES ARE TO BE INTEGRITY TESTED TO ENSURE THEY ARE FREE OF ANY SIGNIFICANT DEFECT.

9. A MINIMUM OF 2 CONCRETE TEST CUBES ARE TO BE TAKEN DAILY FROM EACH CONCRETE MIX IN USE THAT DAY, FOR CRUSHING AT 7 AND 28 DAYS.

10. FOR DETAILS OF EXISTING SOIL CONDITIONS REFER TO THE GROUND INVESTIGATION REPORT 51311/1.3 DATED FEBRUARY 2014 BY REC (RESOURCE & ENVIRONMENTAL CONSULTANTS LTD).

11. CONCRETE IN PILES TO BE CLASS DC−4 (DESIGN SULPHATE CLASS DS−4, ACEC CLASS AC−4).

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STABILITY OF THE WORKS AND ADJOINING STRUCTURES, WORKS AND SERVICES AT ALL STAGES OF CONSTRUCTION.

2. THIS DRAWING SHALL NOT BE SCALED, WRITTEN DIMENSIONS ONLY ARE TO BE USED.

3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB CONTRACTORS DRAWINGS AND SPECIFICATIONS.

4. REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF FINISHES, D.P.M'S AND D.P.C's.

5. THE MAIN CONTRACTOR SHALL CHECK AND CONFIRM ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORKS.

6. THE NOTES AND DETAILS SHOWN ON THIS DRAWING RELATE TO STRUCTURAL REQUIREMENTS ONLY. RELEVANT PARTIES SHOULD ENSURE THAT THESE PROPOSALS DO NOT CONTRAVENE OTHER NON STRUCTURAL REQUIREMENTS. WHERE CONFLICT OCCURS THIS SHOULD BE BROUGHT TO THE ATTENTION OF WALKER ASSOCIATES PRIOR TO CONSTRUCTION.

SUBSTRUCTURE CONCRETE

1. ALL CONCRETE MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS 8110, AND WALKER ASSOCIATES "SPECIFICATION FOR REINFORCED CONCRETE".

2. ALL CONCRETE IN PILE CAPS, BEAMS, SLABS, COLUMNS AND WALLS TO BE A MINIMUM GRADE C40 WITH A MINIMUM 28 DAY STRENGTH OF 40N/mm² USING 20mm MAX AGGREGATE.

3. ALL REINFORCED ELEMENTS TO BE CAST ON 50mm C20 CONCRETE BLINDING.

4. ALL CONCRETE WITHIN THE GROUND TO BE CLASS DC−1 (DESIGN SULPHATE CLASS DS−1, ACEC CLASS AC−1). PILES NOT INCLUDED, REFER TO SPECIFIC NOTES.

5. ALL STRUCTURAL CONCRETE TO BE MECHANICALLY VIBRATED.

TYPICAL PIULE CAP DEPTHS (REFER TO PLAN FO ADDTIONAL PILE CAPS)

1 PILE CAPS=750mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL−250mm−700mm)

3 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL−250mm−950mm)

3 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL−250mm−950mm)

4 PILE CAPS=1000mm DEEP FROM UNDERSIDE SLAB. (PILE CUT OFF LEVEL =SSL−250mm−950mm)

ALL CONTIGUOUS PILES ARE TO BE DESIGNED FOR A 150kN S.W.L & TENSION OF −25kN UNLESS NOTED OTHERWISE

ALL CONTIGUOUS PILES TO BE DESIGNED FOR TEMPORARY FREE CANTILEVER DURING CONSTRUCTION. TOP PROPPED IN PERMANENT CONSTRUCTION

NOTE! COLUMNS AND WALLS TO BE CENTRAL UNDER CONTIGUOUS PILED WALL/CAPPING BEAM

ALL PILES DESIGNED FOR A HORIZONTAL LOAD OF 10kN UNLESS NOTED OTHERWISE

(450kN) DENOTES VERTICAL U.N.O
(−450kN) DENOTES TENSION U.N.O
(H=450kN) DENOTES HORIZONTAL U.N.O

LOADINGS INDICATIVE, REFER TO PLAN FOR EXACT LOADINGS

NOTE!
ALL COLUMNS TO BE 600x200 UNLESS NOTED OTHERWISE

ALL CONCRETE WALLS TO BE 200 THICK UNLESS NOTED OTHERWISE

REV	DATE	AMENDMENT	BY	CHKD

STATUS *TENDER*

PROJECT
Bourne Estate

CLIENT
Higgins CONSTRUCTION

DRAWING
Block 1
Basement Floor Plan
General Arrangement
Sheet 2 of 2

DATE June 14 DRAWN BY *DW*
SCALES (@A1)−1:50 CHECKED BY

DRG NO. 6475/1/B1.1

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