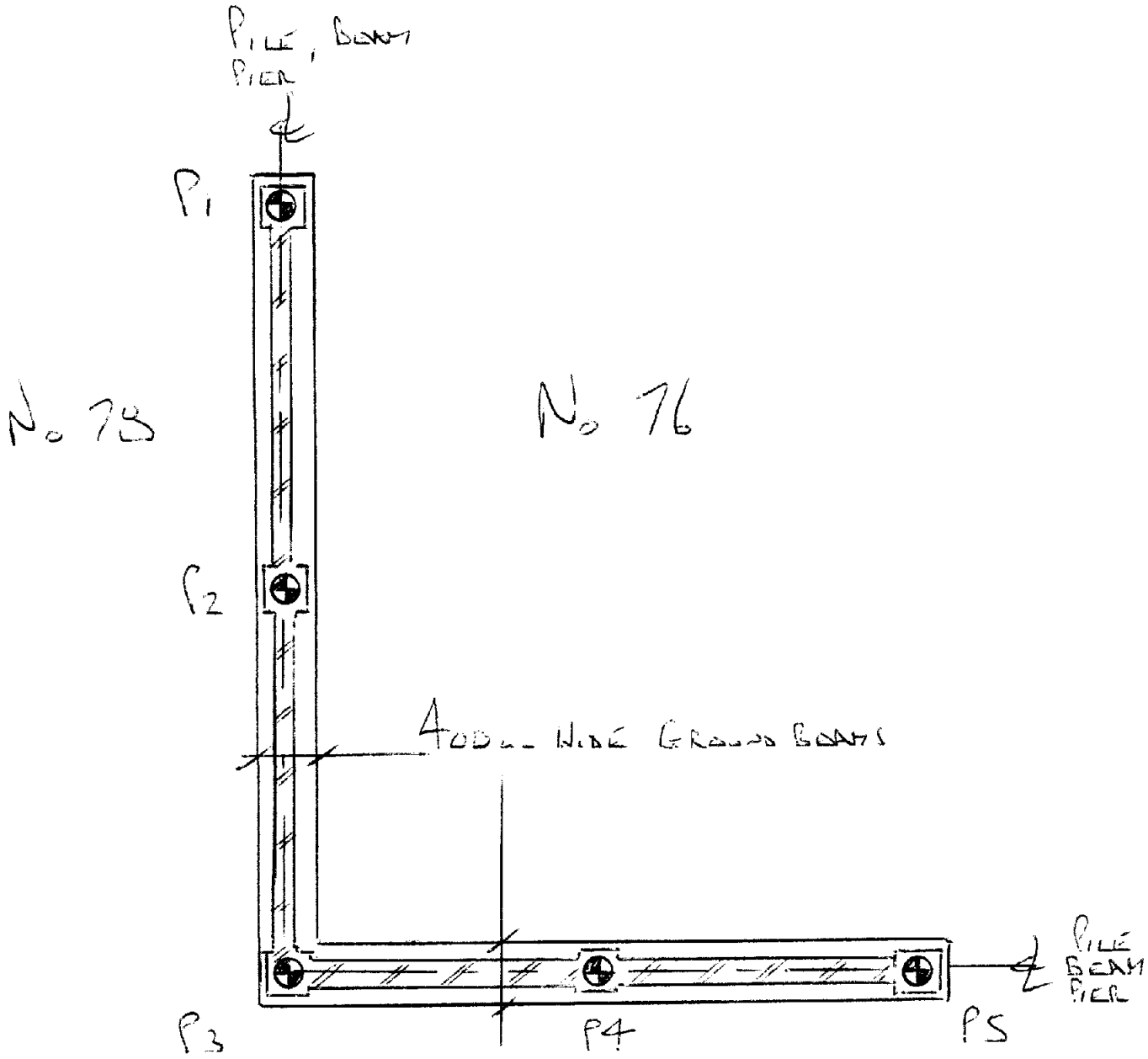
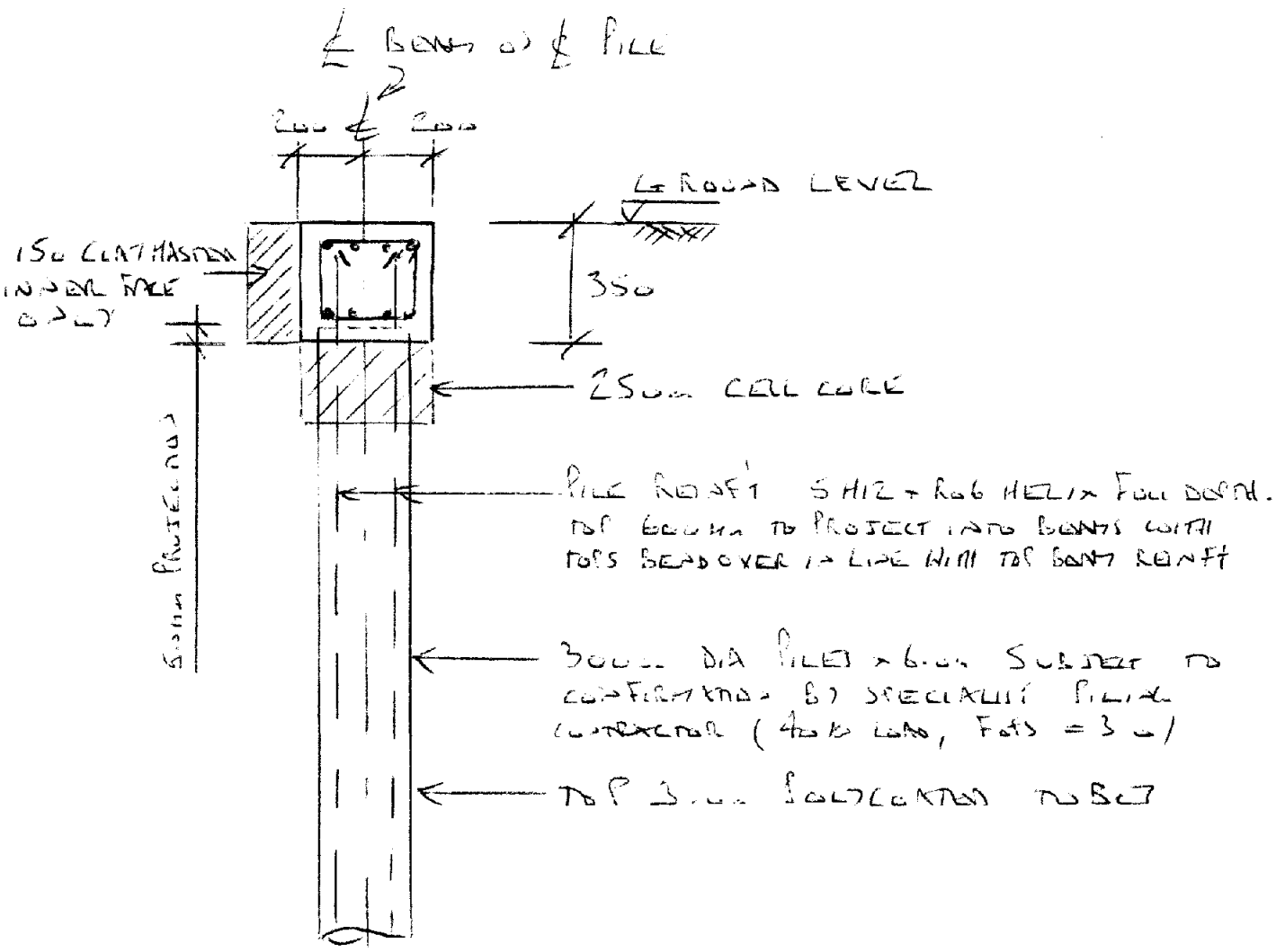
SITE 76 GREENCROFT GARDENS



PILE & BEAM LAYOUT

SITE 76 GROSVENOR GARDENS



TYPICAL PILE / BEAM DETAILS

NOTES

1. CONC. MIX TO PILES & BEAMS — C35 SR CEMENT
2. PILE HEADS TO BE CLEANED AND SOUND PRIOR TO POURING BEAM CONCRETE.
3. ALL SERVICES TO BE CLEARLY MARKED BY BUILDER/CLIENT PRIOR TO PILING
4. PILING CONTRACTOR TO PREPARE BAR BENDING SCHEDULE FROM INFORMATION PROVIDED
5. GROUND BEAM REINF — 4 H16 TOP + 4 H16 BOT + H10 LINK CLOSED AT CORNER PROVIDE 4 H16 $\frac{L}{12000}$ BARS TOP + BOT. EACH WAY MIN LAP = 750 mm

Site 76 Greencroft Gardens

Max Pile Load = 10kN × 3

SAY = 45 kN

Provide 300 mm dia Piles × 6.0m

Preliminary Pile design subject to confirmation by specialist Piling contractor (Allowing 3.6.0m = 75 kN/m²)

300 dia Piles A = 0.07 P = 0.94

0 – 3.0m Poltcoatin tubes

Friction 3.0m – 6.0m = 75 kN/m² × 0.94 × 3.0m × 0.45 = 95

End Bearing = 9 × 75 kN/m² × 0.07 = 47

= 142 kN

With FoS = 3 S.W.L = 47 kN.

Provide SH12 + Rob Helix Full depth

C35 conc. S.R. cement

SITE 76 GREENCROFT GARDENS

LOADING ON GROUND BEAMS.

SAY MAX 1.0m HEIGHT OF 225mm BRICK

= 5 kN/m

GROUND BEAM 400mm WIDE × 350m DEEP

LOAD/m = 4 kN/m

TOTAL SAY = 10 kN/m

∴ MAX B.M. IN GROUND BEAM

$= 10 \times 3^2/8$

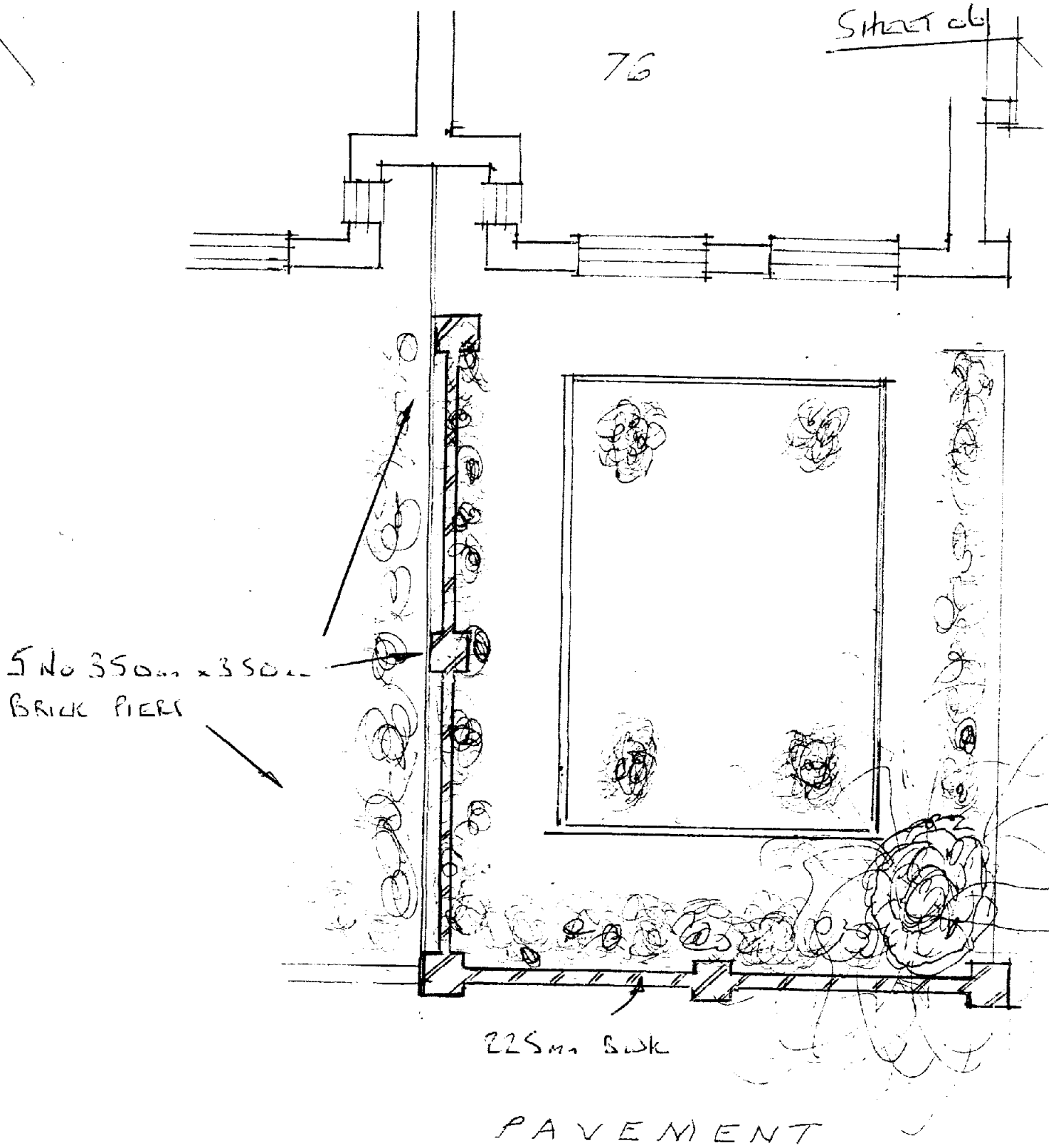
= 12 kNm

PROVIDE 4 H16 TOP

+ 4 H16 BOT

+ H10 LINKS @ 200 c/c

Sheet 6b



EXISTING FRONT GARDEN & DRIVE
No 76 8 No FLATS

ROADWAY GREE

76 GREENCROFT GARDENS

SCALE 1:50 AUG 2018