

FACTUAL REPORT OF TRIAL PIT & BOREHOLE INVESTIGATION

DATE: 12-04-2017.

SITE: 12, Akenside Road, London. NW3 5BT.

FOR: Richard F Gill & Associates LLP.

REF:

BY
ARKLEY SOIL INVESTIGATION LLP
FOUNDATION INVESTIGATION & TEST DRILLING
UNIT 10, REEDS FARM ESTATE,
ROXWELL ROAD,
WRITTLE, CHELMSFORD,
CM1 3ST
E-mail: arkley@btconnect.com



Site Plan

Sheet: 1 of 1

Arkley Soil Investigation LLP

Foundation Investigation & Test Drilling

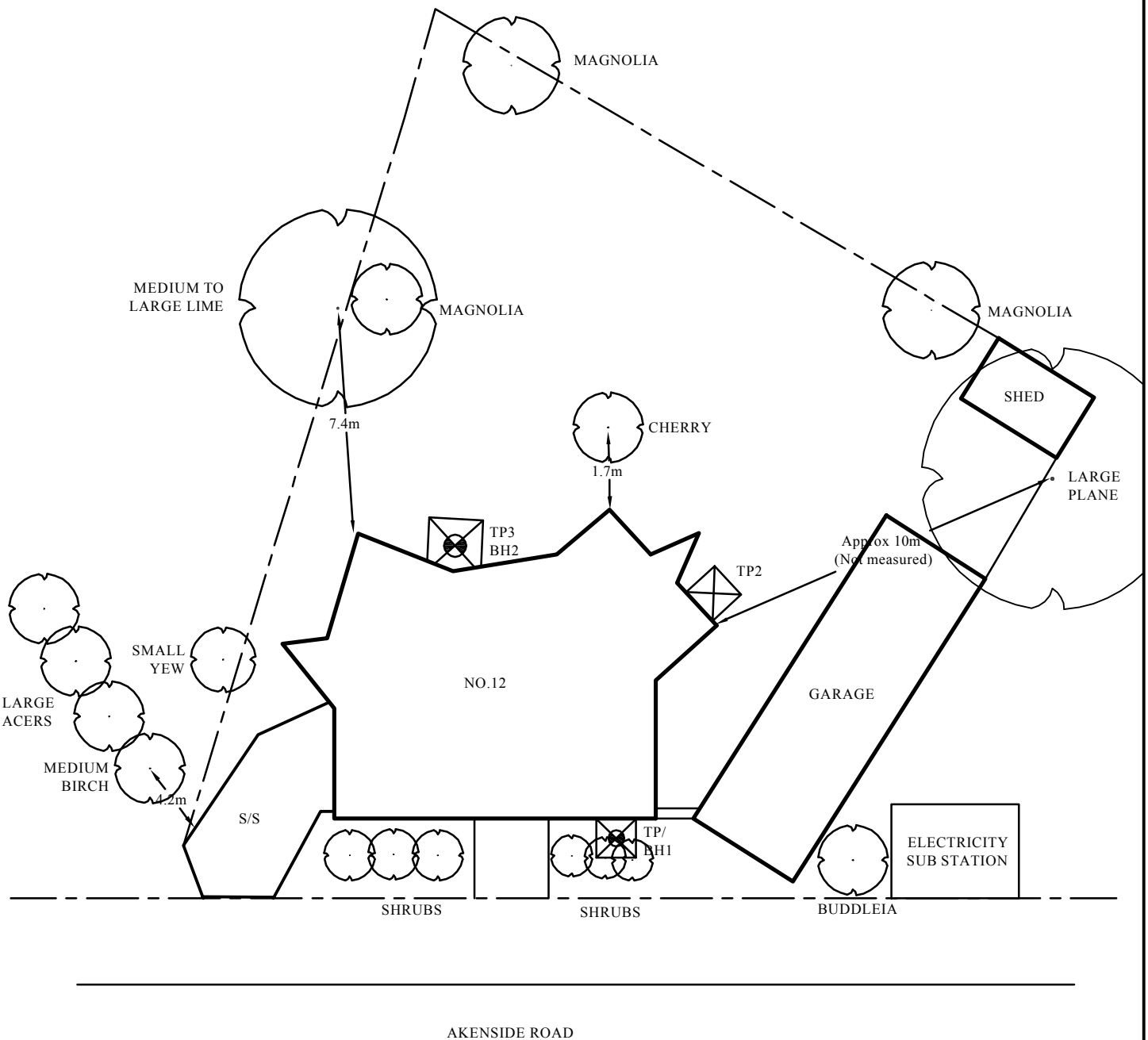
Tel: 01245 423948 / 07780 971533 Email: arkleysi@btconnect.com

Not to scale

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard F Gill & Associates



Remarks:

Tree identification not authenticated.

Key:

TP = Trial Pit

BH = Borehole

H = Approximate Height

G = Gully

SVP = Soil vent pipe

IC = Inspection chamber

IL = Invert level

RWP = Rain water pipe

Trial Pit No: 1

Sheet: 1 of 1

Arkley Soil Investigation LLP

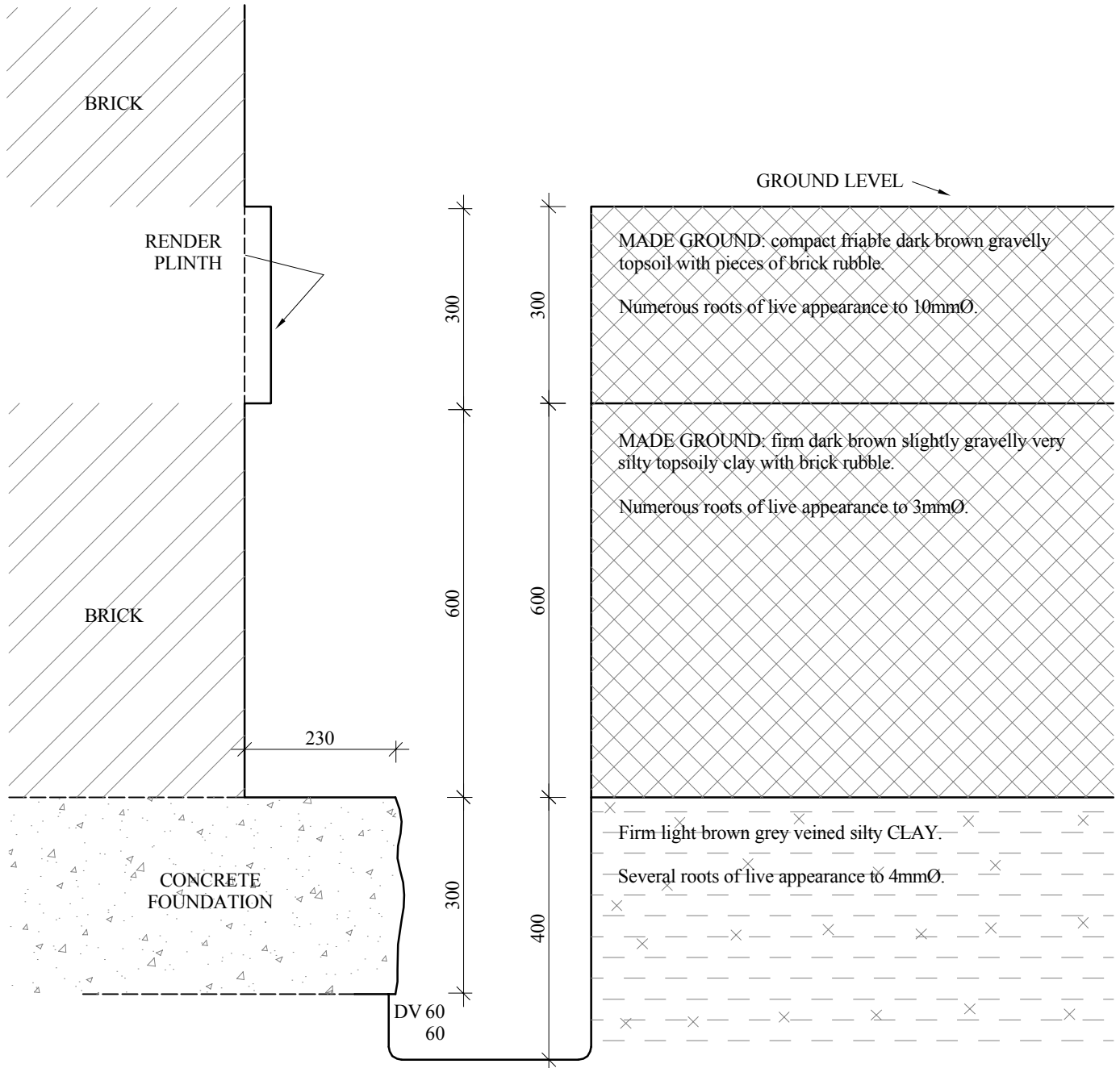
Foundation Investigation & Test Drilling
Tel: 01245 423948 / 07780 971533 Email: arkleyisi@btconnect.com

Not to scale

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard & Gill & Associates



FOR STRATA BELOW 1300mm SEE BH LOG

Remarks:

Key:

- D = Small Disturbed sample
- U = Undisturbed sample
- SPT = Standard Penetration Test
- M = Mackintosh Probe Penetration Test
- V = Pilcon Shear Vane Test
- W = Water sample
- B = Bulk sample

Borehole No: 1

Sheet: 1 of 1

Ref No:

Arkley Soil Investigation LLP

Foundation Investigation & Test Drilling



Tel: 01245 423948 / 07780 971533 Email: arkley@btconnect.com

Boring Method: Hand tools

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard F Gill & Associates

Depth (m)	Description	Thick-ness	Legend	Samples		Insitu tests		Field comments	Depth to Water
				Type	Depth	Type	Result		
1.3	As trial pit one.	1.3						As trial pit one.	
1.8	Firm light brown grey veined silty CLAY.	0.5	X	D	1.5	V	56 60	1.5 - Several roots of live appearance to 2mmØ.  To 2.3m	
1.8	Firm to stiff light brown grey veined very silty CLAY.	1.5	X	D	2.0	V	70 80		
3.3	Firm to stiff light brown grey veined very silty CLAY.	1.5	X	D	2.5	V	86 90		
4.0	Firm/medium dense moist mid brown-orange laminated with very silty CLAY & sandy SILT (CLAYGATE BEDS).	0.7	X	D	3.0	V	80 90	Slight moisture @  3.3	
4.0	BOREHOLE ENDS AT 4.0m			D	3.5				
				D	4.0	M	36 44 48 38		

Remarks: Borehole moist & open on completion.

Key:

D = Small Disturbed sample

B = Bulk sample

U = Undisturbed sample

S.P.T. = Standard Penetration Test

M = Mackintosh Probe Penetration Test

V = Pilcon Vane Test

W = Water sample

Trial Pit No: 2

Sheet: 1 of 1

Arkley Soil Investigation LLP

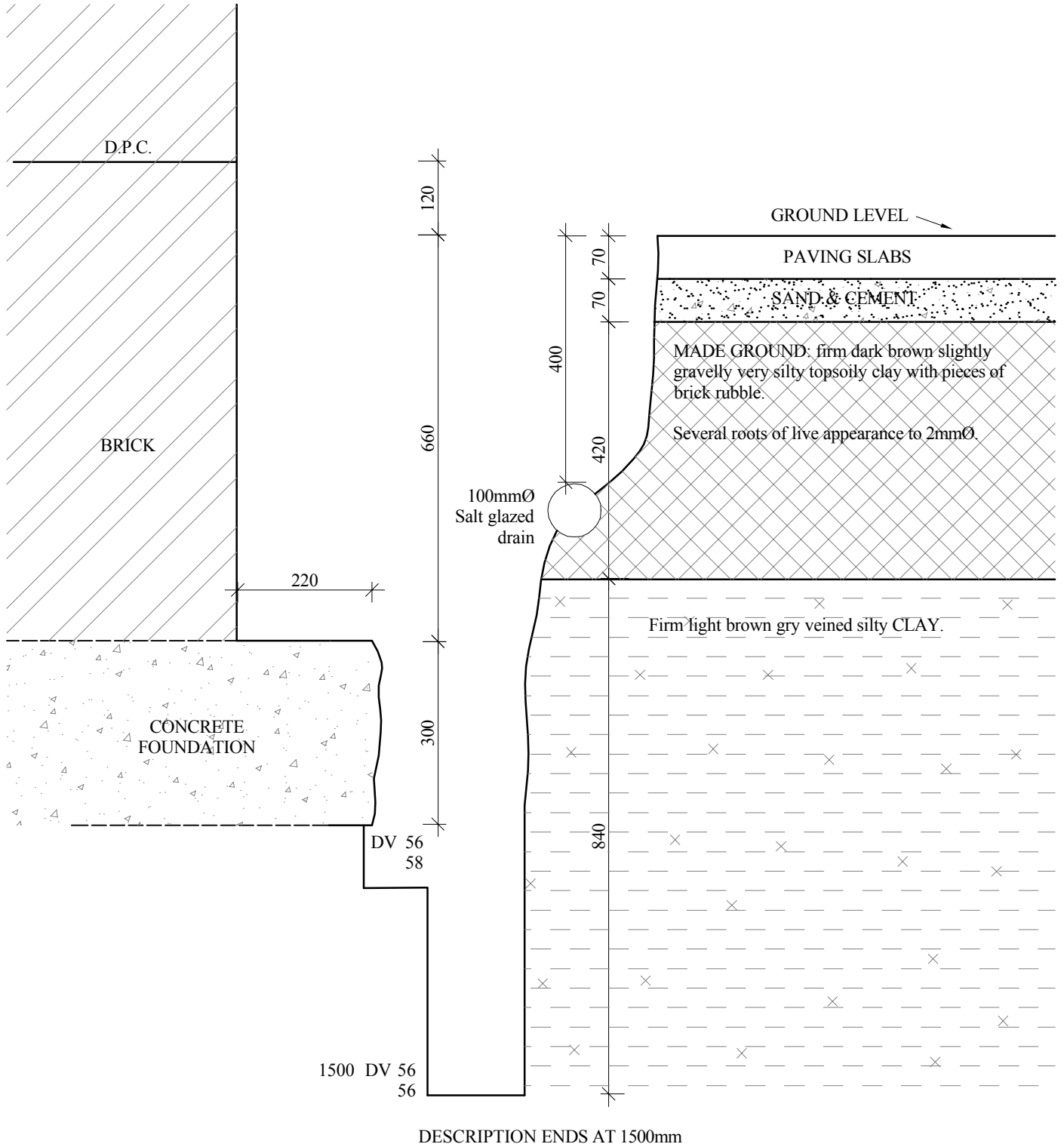
Foundation Investigation & Test Drilling
Tel: 01245 423948 / 07780 971533 Email: arkley@btconnect.com

Not to scale

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard & Gill & Associates



Remarks: No visible roots below the base of the foundation continued with large auger to 1500mm - no visible roots to 1500mm.

Key:

- D = Small Disturbed sample
- U = Undisturbed sample
- SPT = Standard Penetration Test
- M = Mackintosh Probe Penetration Test
- V = Pilcon Shear Vane Test
- W = Water sample
- B = Bulk sample

Trial Pit No: 3

Sheet: 1 of 1

Arkley Soil Investigation LLP

Foundation Investigation & Test Drilling

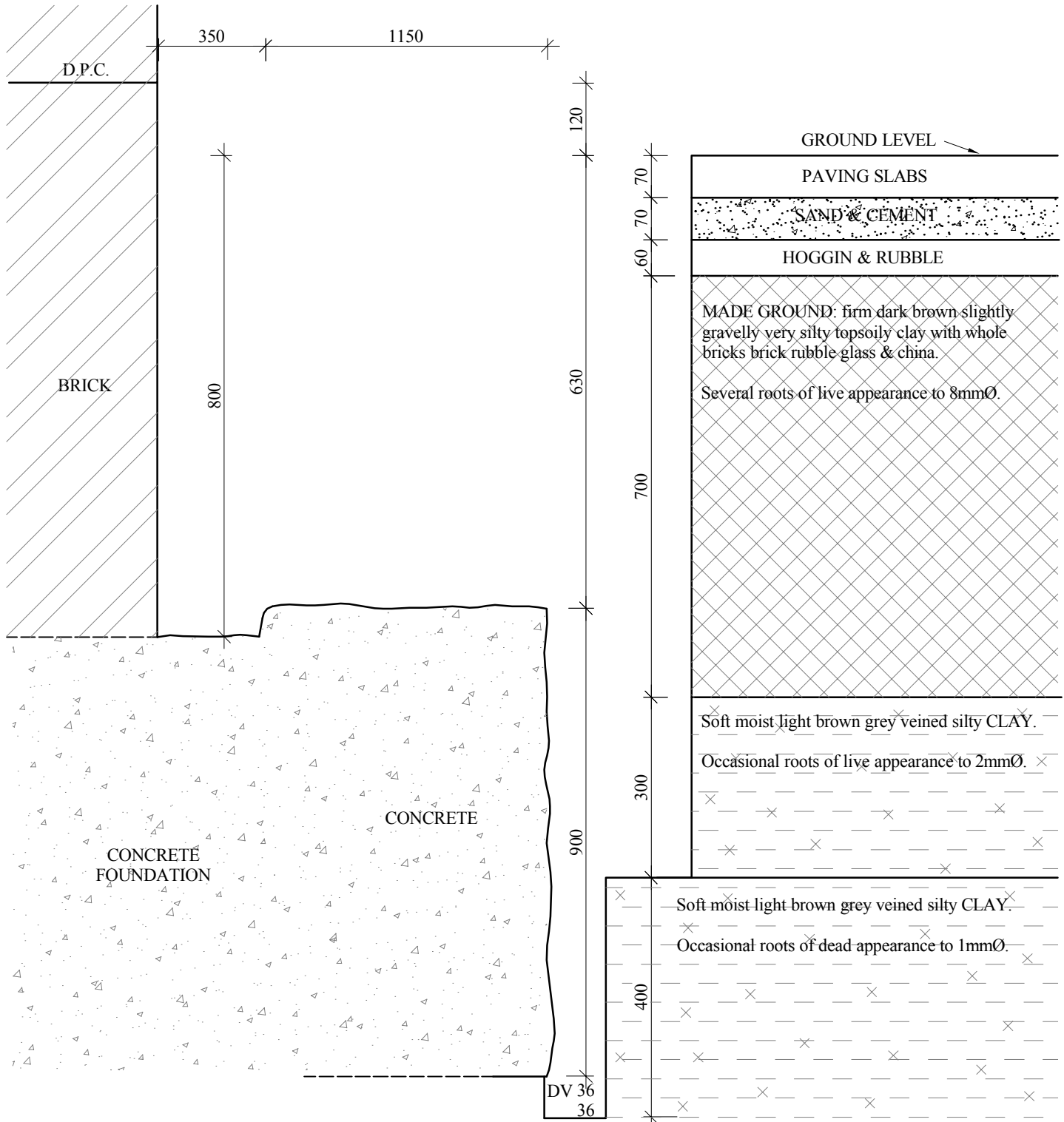
Tel: 01245 423948 / 07780 971533 Email: arkleyssi@btconnect.com

Not to scale

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard & Gill & Associates



FOR STRATA BELOW 1600mm SEE BH LOG

Remarks: Trial pit excavated to 1200mm base of concrete found with large auger & steel pin NOT fully excavated.

Key:

D = Small Disturbed sample

U = Undisturbed sample

SPT = Standard Penetration Test

M = Mackintosh Probe Penetration Test

V = Pilcon Shear Vane Test

W = Water sample

B = Bulk sample

Borehole No: 2

Sheet: 1 of 1

Ref No:

Arkley Soil Investigation LLP

Foundation Investigation & Test Drilling

Tel: 01245 423948 / 07780 971533 Email: arkleyysi@btconnect.com

Boring Method: Hand tools

Date: 12.4.17

Site: 12 Akenside Road
London NW3

Client: Richard F Gill & Associates

Depth (m)	Description	Thick-ness	Legend	Samples		Insitu tests		Field comments	Depth to Water
				Type	Depth	Type	Result		
1.6	As trial pit three.	1.6						As trial pit three.	
2.0	Soft moist light brown grey veined silty CLAY with layers of dark grey clay.	0.4		D	2.0	V	60 60	1.6 - Occasional old dead decomposing roots to 1mmØ. ↓ To 2.0m	
2.6	Firm light brown grey veined silty CLAY.	0.6		D	2.5	V	60 64	Slight water seepage @ →	2.6
4.0	Firm mid brown-orange laminated very silty CLAY & sandy SILT (CLAYGATE BEDS).	1.4		D	3.0	V	76 80		
				D	3.5				
				D	4.0	V	86 90		
	BOREHOLE ENDS AT 4.0m								

Remarks: Borehole moist & open on completion.

Key:

D = Small Disturbed sample

B = Bulk sample

U = Undisturbed sample

S.P.T. = Standard Penetration Test

M = Mackintosh Probe Penetration Test

V = Pilcon Vane Test

W = Water sample

SOIL INVESTIGATION PHOTO SHEET.

SITE: 12, Akenside Road, London. NW3 5BT.

DATE: 12th April 2017.

CLIENT: Richard F Gill & Associates.

REF:



Trial pit 1



Trial pit 1



Borehole 1



Trial pit 2



Trial pit 2



Trial pit 3



Trial pit 3



Trial pit 3



Borehole 2



Trial pit 1 complete



Trial pit 2 complete



Trial pit 3 complete

REPORT NOTES

Equipment Used:

Hand tools, mechanical concrete breaker & spade, hand augers and 100mm diameter open bored continuous flight auger (access permitting)

Insitu tests:

By Pilcon hand shear vane tester (kN/m²) in clay soils, and or Mackintosh probe penetration test(blows per 75mm) in granular soil or made ground.

Soil description:

Soil descriptions are on-site descriptions only.

Tree roots:

Tree roots relate to tree roots observed in trial pits and boreholes only.

Note:

Details reported in trial pits and boreholes relate to positions investigated only, as instructed by the client, on the date shown only. We therefore do not accept any responsibility for changes in soil conditions not investigated any variations due to climate, seasons, vegetation and varying ground water levels.

Full terms and conditions are available upon request.

By
ARKLEY SOIL INVESTIGATION LLP
FOUNDATION INVESTIGATION AND TEST DRILLING.
Unit 10, Reeds Farm Estate,
Roxwell Road,
Writtle, Chelmsford,
Essex.
CM1 3ST.



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

Dr Ian B K Richardson
BSc, PhD, CBiol, MiBiol, MiHort, FLS
James Richardson
BSc (Hons. Biology)

Arkley Soil Investigation LLP
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Roxwell Road
WRITTLE
Chelmsford CM1 3ST

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 (*Direct line*)
E-mail: richardsons@botanical.net
Web: www.botanical.net

Your ref: -

Our ref: 75/0601

26/04/2017

Dear Sirs

12 Akenside Road, London

The samples you sent in relation to the above on 12/04/2017 (received by us on 20/04/2017) have been examined. The structure was referable as follows:

TP1, u/s foundation

1 root: PLATANUS (Plane). 5 further samples, not examined in detail appeared similar under low magnification. Dead*.

1 root: a SHRUB, similar in many ways to BUDDLEJA (bushes, sometimes large, with spikes consisting of tiny pink, white or blue scented flowers). 7 further samples, not examined in detail appeared similar under low magnification. Dead*.

BH1, 1.5-2.3m

1 root: PLATANUS (Plane). 4 further samples, not examined in detail appeared similar under low magnification. Dead*.

5 samples: unfortunately insufficient cells for identification.

TP3, u/s foundation

1 root: PLATANUS (Plane). 2 further samples, not examined in detail appeared similar under low magnification. Dead*.

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

- * Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

Meridian Soils Limited

Electron House, Office & Technology Centre, West Hanningfield Road, Great Baddow, Essex. CM2 8JT
Tel: 01245 473113 E-mail: mail@meridiansoils.co.uk Web: www.meridiansoils.co.uk

Moisture Content and Index Property Determinations.

Our Ref:- S.9040

Client Ref:-

Location:- 12 Akenside Road, London, NW3 5BT.

BH/TP No.	Sample No.	Depth m.	Natural Moisture %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 0.425 um %	Equivalent Moisture %	Class	Modified Plasticity Index %
TP1		U.S (1.20)	31	71	27	44	100	31	CV	44
BH1		1.50	32							
		2.00	30	57	25	32	100	30	CH	32
		2.50	31							
		3.00	29	54	24	30	100	29	CH	30
		3.50	24							
		4.00	26							
TP2		U.S (0.96)	38							
		1.50	36							
TP3		U.S (1.53)	38	74	30	44	100	38	CV	44
BH2		2.00	35	64	27	37	100	35	CH	37
		2.50	32							
		3.00	27	42	22	20	100	27	CI	20
		3.50	30							
		4.00	28							