

SITE INVESTIGATION **FACTUAL REPORT**

Report No:

Client: Cunningham Lindsey - Maidstone

Site: 40 Elsworthy Road, London

7941448 Client Ref:

Date of Visit: 03/06/2015













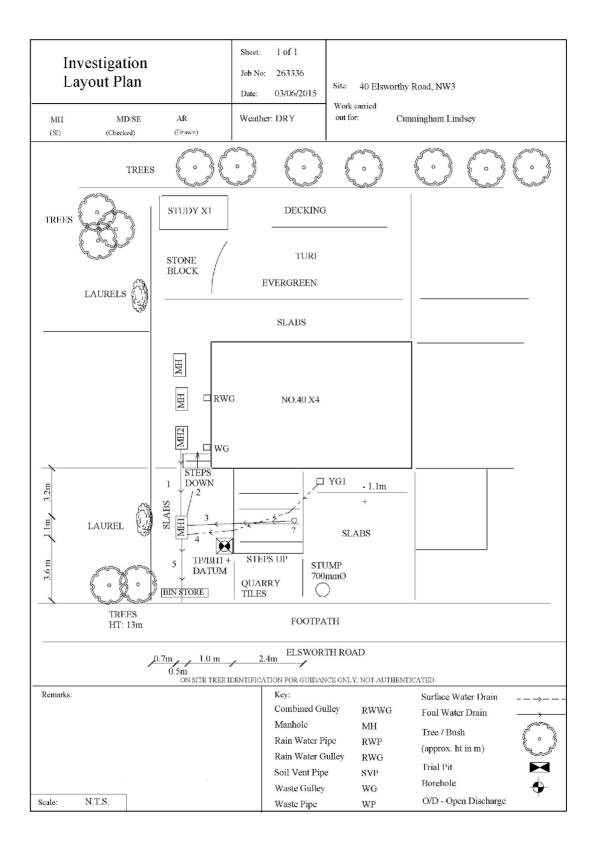


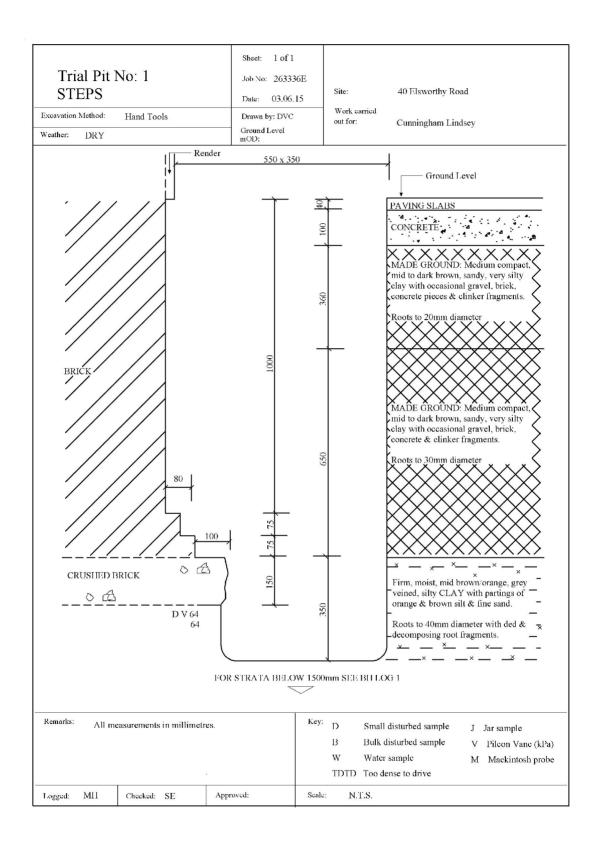
Home Emergency Response - Subsidence Investigation - Drainage Services - Crack & Level Monitoring - Property Video Surveys

Unit E2 First Floor Suite, Boundary Court Willow Farm Business Park, Castle Donington Leicestershire, DE74 2NN



CET is the trading name of CET Structures Ltd Registered in England No. 02527130





| Bor | ehole No: | 1 & Datu | m | Sheet: Job No: | 1 of 1 | SE. | Site: | | 40 Els | sworthy Road |
|--------------|-------------------|--|-----------|-----------------------|---------------|--------------|----------|---|--------------|---|
| Rorina | Method: | CFA | | Date: | 03.06. | | | | | morally made |
| Diame | | Coordinates: | | Ground I | 3535 505 6 53 | | Work (| | Cunni | ngham Lindsey |
| Depth (m) | I | Description of Strata | | Thick- ness (m) | Legend | Sample | I.S | Γest Result | Depth (m) | Field Records/Comments to w (n |
| | As Trial Pit 1 | | | 1.50 | | | | | | |
| 1.50 | | | | | x | | | | | Roots to 4mm diameter to 1.8m |
| | | | | | x | D | V | 78 84 | 2.00 | Roots to 2mm diameter to 2.5m |
| | | | | | x. | D | | | 2.50 | Roots to 1mm diameter to 4m |
| | with partings of | n, grey veined, silty of orange & brown sileasional claystone no | t & | 3.50 | _x_ | D | V | 90 96 | 3.00 | |
| | | | | | | D | | | 3.50 | |
| | | | | | x | D | V | 118 108 | 4.00 | Dead & decomposing roots to 6m |
| | | | | | | D | | | 4.50 | |
| 5.00 | | | | | x | D | V | 130+ 130+ | 5.00 | |
| | Very stiff, as ab | ove. | | 1.00 | | | | | | |
| 6.00 | | | | | _ | | | | | |
| | | | | | | | | | | |
| emar | installed | e dry and open on co at 6m. No samples ried out below 5m | | | ngth | D Sr B Br | nall dis | D. Too l turbed san irbed san uple | mple | Drive J Jar sample V Pilcon Vane (kPa) M Mackintosh Probe |
| ogged | : MII | Checked: SE | Typed by: | DVC | | Scale: | | NTS | | Weather: DRY |

Laboratory Summary Results

Cumingham Lindsey - Maidstone 40, Elsworthy Road, NW3 263336 Location: Work carried Our Ref: out for:

04/06/2015 04/06/2015

Date Received: Date Tested: Date of Report:

12/06/2015

03/06/2015

Date Sampled:

| S2 TP/BH No | Sample Ref Depth (m) | Typc | Moisture Content (%) /1/ | Soil Fraction > 0.425mm (%) /2/ | Liquid Limit (%)/3/ | Plastic Limil (%)/4/ | Plasticity Index (%)/5/ | Liquidity * Modified * Index Plasticity Index (%) [6] | Modified * Plasticity Index (%)[6] | Soil * Class 171 | Filter Paper Contact Time (h) | Soil Sample Suction (kPa) [8] | Oedometer Strain [9] | Estimated Heave Potential (Dd) (mm)[10] | In situ * Shear Vane Strength (kPa) /11/ | Organic * Content (%)/12/ | pH * Valuc [13] | Sulphate Content * (g/1) SO ₃ SO ₄ /15/ | ontent *) SO4 /75/ | * Class /16/ |
|-------------------|--|-----------------|--------------------------------|--|--|---|---|---|---|------------------------|---|--|---|--|---|--------------------------------------|-----------------------|--|--------------------------------|--------------------|
| 1 | U/S 1.30 | C | 34 | \$ | 61 | 26 | 35 | 0.23 | 35 | СН | 168 | 116 | | | 64 | | | | | |
| | 2.0 | D | 30 | \$ | | | | | | | | | | | 81 | | | | | |
| | 2.5 | Ŋ | 30 | \$ | 75 | 27 | 48 | 0.07 | 84 | CV | 891 | 459 | | | | | | | | |
| | 3.0 | D | 33 | \$ | | | | | | | | | | | 93 | | | | | |
| | 3.5 | D | 32 | \$ | 77 | 29 | 48 | 0.07 | 48 | CV | 168 | 099 | | | | | | | | |
| | 4.0 | n | 32 | \$ | | | | | | | | | | | 113 | | | | | |
| | 4.5 | D | 32 | Ϋ | | | | | | | 168 | 742 | | | | | | | | |
| | 5.0 | D | 32 | \$ | | | | | | | 168 | 711 | | | > 130 | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Test Met | Fest Methods / Notes | | | | /9/ In-house Test | Procedure S17a: (| 19/ In-house Test Procedure S17a: One Dimensional Swell/Strain Test | well/Strain Test | d | 16] BRE Speci | ial Digest One (Co. | ncrete in Aggressi | [16] BRE Special Digest One (Concrete in Aggressive Ground) Angust 2005 | | Kev | | | | | |
| (1) BS 137. | [1] BS 1377 : Part 2 : 1990, Test No 3.2 | (No 3.2 | | | [10] Estimated He | [10] Estimated Heave Potential (Dd) | | | ~ | Tote that if the | SO4 content falls i | into the DS-4 or D | Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be | | | Disturbed sample (small) | (small) | | | |
| (2) Estimati | (2) Estimated if <5%, otherwise measured (2) De 1307 - Den 2 - 1000 Pea No. 4.4 | measured | | | (11) Values of sh | ear strength were d | [11] Values of shear strength were determined in situ by CET using | / CET using | <u>.</u> | mident to cons | prodect to consider the sample as falling into the DS-IM or DS-5M | falling into the DE | S-IM or DS-5M | | e : | Disturbed sample (bulk) | (bulk) | | A STATE OF THE PERSON NAMED IN | gra |
| 10 De 101 | H 0007 | | | | Trace per contract. | a Flick in Ballic Valle of Creeking Valle (CTV) | ane (stv). | | ú | ark respective | aly imiess water son. | шинан жин акки | CLARY TONNELL LINESK WARET SPILADIO TINGUESILITI LESTING IN LINEBARICHI | | | CTRUSHITISCL SATIFICE | 9 | | ¥ (| 7 |
| (4) BS 130 | /4/ BS 13//: Part 2: 1990, 1est No 5.3 /4/ BS 1377 : Dart 2: 1900, Test No 5.4 | K N0 5.3 | | | (12) BS 1377 Pa | Part 3: 1990, Test No. 9 | 4 0 0 | | z | to prove otherwise. | 38. | | | | | Groundwater sample | alq | | 7 | |
| or and the | Jane 240 - 1200 | | | | | 1 2 1000 Test | | | | | | | | | | DESCRIPTION NOTATIONS BY THE PRODUCT | dastic by hisper | Hono | ▼ | |
| 177 BS 593 | [10] DRU, Digest 240 : 1995 [10] DRU, Digest 240 : 1995 | Plasticity C | There classify | | (14) 58 1377; Part 3 7157 SO = 1.2 x SO | : Part 3: 1990, Test No 3:0 | 90.00 | | * | These tests | * These tests are not TIX & Secretified | officed | | | ms I | Underside of Foundation | ndation | | | \ \ |
| of fine soils | only | T THE COUNTY OF | CHARLES AND LINE WINNESSEE | | 11 my - 1 my | ine. | | | | HONG TO-WAY | all he organism | etillett | | | | | | | | ٥. |

of line soils $[\S] \ \ \mbox{in-house method S9a adapted from BRE IP 4/93}$

Version: 5BH V1.4 - 11/05/15

Full reports can be provided upon request * These tests are not UKAS accredited

Moisture Content Profiles

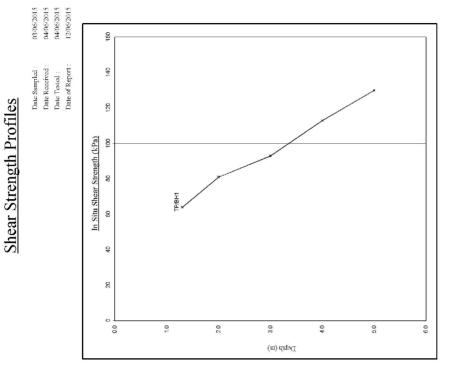
40, Elsworthy Road, NW3 263336 Our Ref. Location:

Work carried out for. Curningham Lindsey - Maidstone

Soil Moisture Content (%)

28

24 0.0 T



TP/BH1

1.0

2.0

Depth (m)

4.0

5.0



Notes:
I. If plated, 0.4 LL, and DL-2 (after Driscoll, 1983.) should only be applied to London Clay (and similarly overcoresoldered clay) at shallow depths.

2. Unless specifically noted the profiles have not been related to a site datum.

Note

1. Unless rebrevies stated, values of Sherr Streigh were idearnized in sim by
CTT using a Pilcon Hand Vare the calibration of which is limited to
a maximum reading of 130 Na.
2. Unless specifically need the profiles have not been related to a site datum.

Moisture Content Profiles

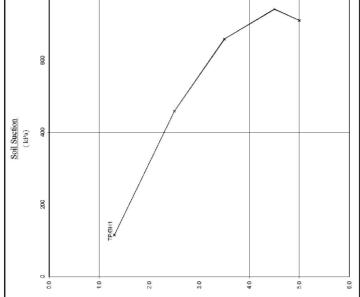
40, Elsworthy Road, NW3 263336 Our Ref. Location:

Work carried out for: Cunningham Lindsey - Maidstone

Soil Suction Profiles

03/06/2015 04/06/2015 04/06/2015 12/06/2015 Date Sampled:
Date Received:
Date Tested:
Date of Report:

800



3.0

Depth (m)

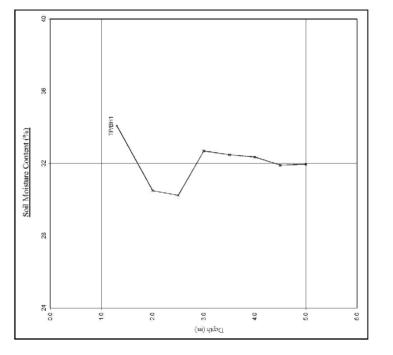
4.0

5.0

6.0

2.0

1.0



Note that the theoretical equilibrium various porfits are based on conventional seamptions essociated with London Clay (and similarly overconsolidated clays) at shallow deptile. Note that the sample disturbance component is dependent on the nethod of seampting, and any subsequent recomparion. The above plots show that to be 100Hz which is the value suggested by the DRC on the basis of their limited number of uses on recompared samples. This may or may not be appropriate in this instance and judgment should be excessed.

Notes

I frighted of ALL and PI-2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconeciblesed
ellar) at shallow depths.

2. Unless specifically sweet the profiles have not been refaced to a site datum.

1 of 1 40 Elsworthy Road, London. Site: Tree Root Job No: 263336 Date: 09/06/2015 Work carried Identification Ltd Order No: 706531 out for: Cunningham Lindsey CET090615 Our Ref:

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.

The results were as follows -

| Trial pit/ Borchole <u>number</u> | Root diameter (<u>mm</u>) | Tree, shrub or climber from which root originates | Result of starch test# |
|---|--------------------------------|--|---------------------------|
| TP1 (underside) | 30.0 | a member of the family Leguminosae* (4 roots) | positive |
| BH1 (roots to a depth of 4.0m) | 2.5 | a member of the family Leguminosae* (2 roots) | positive |

The presence of starch indicates that the root was alive in the recent past.

* Members of the Leguminosae include <u>Laburnum</u>, <u>Robinia</u> (false acacia) and the climber, <u>Wisteria</u>.



Address for correspondence: 'Mandaya', Highfield Place, BANKFOOT, By Perth, PH1 4AX.

web site: www.treerootidentification.com

Principal Scientist: R.D. MacLeod, B.Sc., Ph.D.,

Accounts Quality Manager: Fiona M. Sinclair, BA English Studies (Merit)

 $Registered in Scotland, No. 358068. \ \ Registered Office: "Mandaya", High field Place, Bankfoot, PH1 4AX.$

To: Cunningham Lindsey - Maidstone

4 North Court South Park Business Village Armstrong Road

Ftao: Yiu-Shan Wong

263336 Our Ref:

> 7941448 Your Ref:

04-Jun-15

ESTIMATE

40 Elsworthy Road, London Site:-

Item
1.0 Location
Shared System
Condition Grade
Drain Serviceability

Manhole 1 upstream. Run 2.

No
B
Linearicable
From manhole 1 constant and replace 1 metre of pipe work upstream(to repair flutly liner) and then cets, repair as necessary. If findings or repair exceptional that discress with requires before repair.

Manhole 1 upstream to yard guilty. Run 4.

B
Linearicable Work Spec

2.0 Location Shared System Condition Grade Drain Serviceability

Work Spec Excavate and replace gully plus 9.5 metres of pipe work and then high pressure water jet to clear silt and line run downstream to original liner.

Manhole 1 downstream to boundary. Run 5.
No
B
Unserviceable

3.0 Location Shared System Condition Grade Drain Serviceability

Work Spec From manhole/interceptor high pressure water jet to clear roots and line run downstream 1 metre.

Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority.

Condition Grade

- A Structurally sound with no leakage evident.
 B Cracks and fractures observed.
- C Structurally unsound



Quotation is binding only if accepted within 28 days from date of issue and is subject to our Standard Terms and Conditions.

The price qualification notes, stated on the drainage solutions schedule of rates, apply to this quotation.

CET Structures Ltd undertakes to return to site free of charge to earry out remedial work to the drainage repairs set out above for a period of 2 menths from the date of this invoice. The company standard charge rates will apply to the visit should the work requested be unrelated to the said repairs.

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:-40 Elsworthy Road, London

Cunningham Lindsey - Maidstone Yiu-Shan Wong Client :-Attention of:-

Client ref Job Number : Insurer Date:-7941448 263336 Sterling Insurance 04-Jun-15

| | Description | 1 | Recommendati | on | 1 |
|--------------|---|------------|--|------|-------|
| Item No | Manhole 1 upstream. Run 2. | Unit | Quantity | Rate | Price |
| | | | | (£) | (£) |
| 1.0 | Emergency Drain Blockage Clearance Unblock drain 8um-6pm - First 1/2 Hour | Item | | | |
| 1.2 | Unblock drain 8am-opm - rust 1/2 Hour | Item | | | |
| 1.3 | Unblock drain 6pm-midnight | Item | | | |
| 1.4 | Unblock drain 6pm-midnight - Subsequent 1/2 hour | Item | | | |
| 2.1 | CCTV Surveys | | | | |
| 2.2 | Undertake CCTV survey 8am-6pm (up to 3 hours) | Item | 1 | | |
| 2.3 | Additional 1/2 hr survey charge | Item | | | |
| 3.0 | Replacing Underground Drainage | | | | |
| 3.1 | Gullies | | | | |
| 3.2 | Take out and replace gulley (100mm outlet) | Item | | | |
| 3.4 | Take out and replace rodding point (100mm outlet) Bends/junctions | Item | | | |
| 3.5 | Excavate and replace rest bend (100mm outlet) | Item | | | _ |
| 3.6 | Excavate and replace rest bend (150mm outlet) | Item | | | _ |
| 3.7 | Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m. | Item | | | |
| 3.8 | Excavate and replace junction/bond (150mmØ), Excavation depth 0-1m | Item | | | |
| 3.9 | Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m. | Item | | | _ |
| 3.10 | Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m. | Item | | | _ |
| 3.11 | Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m. | Item | | | |
| 3.12 | Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m. | Item | | | |
| 3.13 | Pipes | | | | |
| 3.14 | Exeavate trench and replace 100mmØ pipework, Exeavation depth 0-1m, First 10m. | m | | | |
| 3.15 | Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m. | ш | | | |
| 3.16 | Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m. | m | | | |
| 3.17 | Excavate trench and replace 150mm@ pipework, Excavation depth 0-1m. | m | \vdash | | |
| 3.18 | Excavate trench and replace 100mm@ pipework, Excavation depth 1-1.5m, First 10m. | m | | | |
| 3.19 | Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m. | m | | | |
| 3.20 | Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m. | m | | | |
| 3.21 | Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m. | III | | | |
| 3.22 | Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m. | m | | | |
| 3.23 | Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m. | m | | | |
| 3.24 | Excavate trench and replace 100mm@ pipework, Excavation depth 1.5-2.0m. Excavate trench and replace 150mm@ pipework, Excavation depth 1.5-2.0m. | m | - | | |
| 3.23 | Excavate trench and replace 130mm pipe work, Excavation depth 2-2.5m. | m m | 1 | | |
| | | | | | |
| 3.26 3.27 | Surface Reinstatement of Trenches | | | | |
| 3.28 | Excavate through and reinstate turf. Excavate through and replace concrete paving slabs | *** | 12 | | |
| 3.29 | Excavate through and replace block paving states | m. | | | |
| 3.30 | Excavate through and reinstate plain concrete, maximum thickness 100mm. | m | | | |
| 3.31 | Dixcavate through and reinstate plain concrete, thickness 1(X)- 200mm. | m | | | |
| 3.32 | Discavate through and reinstate reinforced concrete, maximum thickness 100mm. | m | | | |
| 3.33 | Excavate through and reinstate reinforced concrete, thickness 100-200mm. | m | | | |
| 3.34 | Excavate through and reinstate Tarmae - Cold rolled | m | | | |
| 3.35 3.36 | Excavate through and reinstate Tarmac - Hot rolled Reinstatement of crazy paving | m. | | | |
| | | III. | | | |
| 4.0 | Lining | lt | - | | |
| 4.2 | Line 100mm@ drain | Item m | | | |
| 4.3 | Line 150mm@ drain | m | | | |
| 4.4 | Post lining CCTV survey | no | | | |
| 4.5 | Minimum lining charge | Item | | | |
| 4.6 | Root cutting of drain prior to lining | hr | | | |
| 4.7 | Set up lining rig for patch lining | Item | | | |
| 4.8 | Patch line 100mm@ drain Patch line 150mm@ drain | no | | | |
| 4.10 | Post patch lining CCTV survey | no Item | | | |
| 4.11 | Minimum patch lining charge | Item | | | |
| 4.12 | Re-open lateral branch up to 2m length, pipe up to 150mm | no | | | |
| 4.13 | Re-open lateral branch over 2m length, pipe up to 150mm | IIO | | | |
| 5.0 | Miscellaneous | | | | |
| 5.1 | Excavation and backfill of soakaway (1m3) with stone | Item | | | |
| 5.2 | % Uplift on disbursements and suppliers charges | % | | | |
| 5.3 | Daywork - Hourly labour rate | hr | | | |
| 5.4 | Minimum project value | Item | | | |
| 5.5 5.6 | Skip hire incl. delivery and collection(estimated cost). Cost – 25% | Item | £1.25 | | |
| 5.6 | | | | | |
| 5.8 | | | | | |
| 6.0 | Additional items | | + + | | |
| | | — — | | | |
| 6.1 | De-scaling (fat/grime) | hr | | | |
| 6.2 | De-scaling (scale using chain flails) Gully surround | hr item | | | |
| 6.4 | Manhole works (up to 1.2m) | item | | | |
| 6.6 | Oversize soakaway (1.5m3) | item | | | |
| 6.7 | Soakaway >1.5m3 | item | | | |
| 6.8 | Waste disposal | m | 8 | | |
| 6.9 | Shoring | m | 16 | | |
| | Total Estimate Price For Recommendation Number | | 1.0 | | |
| | Subject to discount Total subject to VAT (# 20% | | 0.00 | | |
| L | Total suggest to YAT (@ 2070 | | | | |

Total subject to VAT @ 20%

Note: Subject to the attached Terms and Conditions

A - When calculating prices, all measurements are rounded up

C - Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed

G - Day work rates do not include for materials that are charged at cost plus 25%

KEV: ne = not exceeding, co = extra over rate, m = hinear metre, nr = number, hr = hour

B - Depths are taken to the base of excavations D - All takes exclude VAT F - The above rates are subject to re-measurement B - Depths are taken to the base of excavations

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:-40 Elsworthy Road, London

Cunningham Lindsey - Maidstone Yiu-Shan Wong Client :-Attention of:-

Client ref Job Number :-Insurer Date:-7941448 263336 Sterling Insurance ()4-Jun-15

| | Description | | Recommendati | | |
|------------|--|--------|--|------|----|
| n No | Manhole 1 upstream to yard gully. Run 4. | Unit | Quantity | Rate | Pi |
| | E | | | (T) | (|
| 1.0 | Emergency Drain Blockage Clearance Unblock drain 8am-6pm - First 1/2 Hour | Item | 1 1 | | |
| .2 | Unblock drain 8am-6pm- Subsequent 1/2 Hour | Item | | | |
| .3 | Unblock drain 6pm-midnight | Item | | | |
| .4 | Unblock drain 6pm-midnight - Subsequent 1/2 hour | Item | | | |
| 1.1 | CCTV Surveys | | | | |
| 2.2 | Undertake CCTV survey 8am-6pm (up to 3 hours) | Item | | - | |
| 2.3 | Additional 1/2 hr survey charge | Item | | | |
| .0 | Replacing Underground Drainage | | | | |
| 1.1 | Gullies | | | _ | |
| 3.2 | Take out and replace gulley (100mm outlet) | Item | 1 | | |
| 3.3 | Take out and replace rodding point (100mm outlet) | Item | | | |
| 3.4 | Bends/junctions | | | | |
| 3.5 | Excavate and replace rest bend (100mm outlet) | Item | | | |
| 3.6 | Excavate and replace rest bend (150mm outlet) | Item | | | |
| 1.7 | Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m. | Item | | | |
| .8 | Excavate and replace junction/bend (150mm/9), Excavation depth 0-1m. | Item | | _ | |
| .9 | Excavate and replace junction/bend (100mm@), Excavation depth 0-1m | Item | | _ | |
| 10 | Excavate and replace junction/bend (150mm@), Excavation depth 1-1.5m. | Item | | | |
| .11 | Excavate and replace junction/bend (100mm/e), Excavation depth 1.5-2.0m. | Item | | | |
| 12 | Excavate and replace junction/bend (150mm@), Excavation depth 1.5-2.0m. | Item | | | |
| | | | | | |
| .13 | Pipes Because to work and various 100mm(2 virous). Economics doubt 0.1m. First 10m. | | 0.5 | | |
| .14 .15 | Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m. Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m. | m m | 0.5 | | |
| .16 | Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m. | m | + | | |
| 17 | Excavate trench and replace 150mm@ pipework, Excavation depth 0-1m. | m | | | |
| | | | | | |
| 18 | Hxcavate trench and replace 1(X)mm(2) pipework, Excavation depth 1-1.5m, First 10m. | m | _ | | |
| .19 | Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m. | m | | _ | |
| 20 21 | Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m. Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m. | III. | 1 | | |
| | | m | | | |
| .22 | Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m. | m | | _ | |
| 23 | Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m. | m | | _ | |
| 25 25 | Excavate trench and replace 100mm@ pipework, Excavation depth 1.5-2.0m. | m | | _ | |
| | Excavate trench and replace 150mm@ pipework, Excavation depth 1.5-2.0m. | m | | _ | |
| .26 | Surface Reinstatement of Trenches | | | | |
| .27 | Excavate through and reinstate turf. | | | | |
| .28 | Excavate through and replace concrete paving slabs | m | | _ | |
| .29 | Excavate through and replace block paving | m | | _ | |
| .30 | Excavate through and reinstate plain concrete, maximum thickness 100mm. | m | 1 | _ | |
| 31 | Excavate through and reinstate plain concrete, thickness 100-200mm. | m | | _ | |
| .32 | Excavate through and reinstate reinforced concrete, maximum thickness 100mm. | m | | _ | |
| .34 | Excavate through and reinstate reinforced concrete, thickness 100-200mm. Excavate through and reinstate Tarmae - Cold rolled | m m | | | |
| .35 | Excavate through and reinstate Tarmae - Hot rolled | m | | _ | |
| .36 | Reinstatement of crazy paving | m | | | |
| .0 | Lining | | | | |
| 1.1 | Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm | Item | 1 | _ | |
| 1.2 | Line 100mm@drain | m | 1 1 | _ | |
| .3 | Line 150mmØ drain | m | | | |
| .4 | Post lining CCTV survey | 110 | | | |
| 1.5 | Minimum lining charge | Item | 1 1 | | |
| 1.6 | Root cutting of drain prior to lining | hr | | | |
| .7 | Set up lining rig for patch lining | Item | | | |
| .8 | Patch line 100mm@ drain | no | | | |
| 1.9 | Patch line 150mmØ drain | no | | | |
| 10 | Post patch lining CCTV survey | Ttem | | | |
| 11 | Minimum patch lining charge | Item | | | |
| 12 | Re-open lateral branch up to 2m length, pipe up to 150mm | 110 | 1 | | |
| .13 | Re-open lateral branch over 2m length, pipe up to 150mm | no | | | |
| .0 | Miscellaneous | | | | |
| .1 | Excavation and backfill of soakaway (1m3) with stone | Item | | | |
| .2 | % Uplift on disbursements and suppliers charges | % | | | |
| .3 | Daywork - Hourly labour rate | hr | | | |
| .4 | Minimum project value | Item | | | |
| .5 | | | | | |
| 5.6 5.7 | | | | | |
| 8 | | | + | | |
| | A J.Uki I Manus | | + - | | |
| 6.0 | Additional items | | | | |
| .1 | De-scaling (fat/grime) | hr | | | |
| .2 | De-sealing (seale using chain flails) | hr | | | |
| .3 | Gully surround | item | | | |
| i.4 | Manhole works (up to 1.2m) | item | | | |
| i.6 | Oversize scakaway (1.5m3) | item | | | |
| .7 | Soakaway >1.5m3 | item | | | |
| .8 | Waste disposal | m | 1 | | |
| .9 | Shoring | m | | | |
| | Total Estimate Price For Recommendation Number | | 0.00 | | |
| | Subject to discount | | | | |

Note: A project to die achieve l'etnis aux contantes.

A - When calculating prices, all measurements are rounded up

C - Every effort will be made to natch existing surfaces where disturbed although this caunot be guaranteed

G - Daywork nets do not include for materials that are charged at cost plus 25%

KEY: ne = not exceeding, co = extra over rate, m = linear metre, nr = number, hr = hour

B - Depths are taken to the base of excavations D - All rates exclude VAT
F - The above rates are subject to re-measureme E - Depths are taken to the base of excavations

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:-40 Elsworthy Road, London

Cunningham Lindsey - Maidstone Yiu-Shan Wong Client :-Attention of:-

Client ref Job Number :-Insurer Date:-7941448 263336 Sterling Insurance 04-Jun-15

| Item No | | Description | | Recommendati | 201 | 3 |
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| Section Comment Comm | | | | | | |
| 2.2. Judiciana CCPU survey Same years 2.3. Additional Def Fusion years 2.3. Regularity Underground Drainings 3.3. Security Underground Drainings 3.3. Security Underground Drainings 3.3. Security Underground Drainings 3.3. Take or an implemental profession of the security of the securit | | | Item | | | |
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| Stock | | | | - | | |
| 3.11 Because and replace products here? (1900ms), Decayation depth. 3-52 dm. Been 3.12 Pipes 3.13 Pipes 3.14 Execute trends and replace 100mm2 pipework. Executates depth. 0-1m, Prat 10m. m 3.15 Execute trends and replace 100mm2 pipework. Executates depth. 0-1m, Prat 10m. m 3.16 Execute trends and replace 100mm2 pipework. Executates depth. 0-1m, Prat 10m. m 3.17 Execute trends and replace 100mm2 pipework. Executates depth. 0-1m. m 3.18 Decayate trends and replace 100mm2 pipework. Executates depth. 0-1m. m 3.18 Decayate trends and replace 100mm2 pipework. Executates depth. 0-1m. m 3.19 Execute trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.10 Execute trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.10 Execute trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.10 Execute trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.10 Execute trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.11 Executate trends and replace 100mm2 pipework. Executates depth. 1-1m. m 3.12 Executate trends and replace 100mm2 pipework. Executates depth. 1-2m. pixel 10m. m 3.13 Executate trends and replace 100mm2 pipework. Executates depth. 1-2m. pixel 10m. m 3.14 Executate trends and replace 100mm2 pipework. Executates depth. 1-2m. pixel 10m. m 3.15 Executate trends and replace 100mm2 pipework. Executates depth. 1-2m. pixel 10m. m 3.16 Executate trends and replace 100mm2 pipework. Executates depth. 1-2m. pixel 10m. m 3.17 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.18 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.19 Executed trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.10 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.11 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.12 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.13 Executate trends and replace 100mm2 pipework. Executates depth. 1-2 dm. m 3.14 Executate t | 100.00 | | | | | |
| 3.314 Pipes 3.314 Econotic trends and replace 100mm (Papework, Escowates displic 0-lm, Freit 10m. m 3.315 Econotic trends and replace 150mm (Papework, Escowates displic 0-lm, Freit 10m. m 3.316 Econotic trends and replace 150mm (Papework, Escowates displic 0-lm, Freit 10m. m 3.317 Escowate trends and replace 150mm (Papework, Escowates displic 0-lm, Freit 10m. m 3.318 Econotic trends and replace 150mm (Papework, Escowates displic 0-lm, Freit 10m. m 3.319 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.320 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.321 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.322 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.323 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.324 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.325 Econotic trends and replace 150mm (Papework, Escowates displic 1-l-50m, Freit 10m. m 3.326 Econotic trends and replace 150mm (Papework, Escowates displicates) 1-l-50m m 3.327 Econotic trends and replace 150mm (Papework, Escowates displicates) 1-l-50m m 3.328 Econotic trends and replace 150mm (Papework, Escowates displicates) 1-l-50m m 3.329 Econotic trends and replace 150mm (Papework, Escowates displicates) 1-l-50m m 3.320 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.320 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.320 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.321 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.322 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.323 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.324 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.325 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.326 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3.327 Econotic trends and replace 150mm (Papework) 1-l-50mm m 3 | | | | | | |
| 3.14 Exempt ternal and replace 10 forum Depresent, Exemption double Air, Frant 10m. m 3.16 Exempt ternal and replace 10 forum Depresent, Exemption double Air, Frant 10m. m 3.17 Exempt ternal and replace 10 forum Depresent, Exemption double Air, Frant 10m. m 3.18 Macanet newth and replace 10 forum Depresent, Exemption double Air, many time of the second forum and applicate 10 forum Depresent, Exemption double Air, and the second forum and applicate 10 forum Depresent, Exemption double 1-15 forum m 3.19 Exempt ternal and replace 10 forum Depresent, Exemption double 1-15 forum m 3.20 Exemption forum and replace 10 forum Depresent, Exemption double 1-15 forum m 3.21 Exemption forum and the second forum of the second forum and the second f | 3.12 | Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m. | Item | | | |
| 3.14 Econotic trouble and replace 100 much person. Economic subject 0-1m, Fara 10m. m. m | 3.13 | Pipes | | 1 | | |
| 3.15 Execute tench and replace 150man D proved, Execution chepth - 1 m m 3.17 Accounts trench and replace 150man D proved, Execution chepth - 1 m m 3.18 Necrotate tench and replace 150man D proved, Execution chepth - 1 m m 3.19 Execution to the project 150man D proved, Execution chepth - 1 m m 3.20 Execution the project 150man D proved, Execution chepth - 1 m m 3.21 Execution the project 150man D proved, Execution chepth - 1 m m 3.22 Execution the project 150man D proved, Execution chepth - 1 m m 3.23 Execution the project 150man D proved, Execution chepth - 1 m m 3.24 Execution the project 150man D proved, Execution chepth - 1 m m 3.25 Execution the project 150man D proved, Execution chepth - 1 m m 3.26 Execution the project 150man D proved, Execution chepth - 1 m m 3.27 Execution the project 150man D proved, Execution chepth - 1 m m 3.28 Execution the project 150man D proved, Execution chepth - 1 m m 3.29 Execution the project 150man D proved, Execution chepth - 1 m m 3.20 Execution the project 150man D proved, Execution chepth - 1 m m 3.20 Execution the project 150man D proved, Execution chepth - 1 m m 3.20 Execution the project 150man D proved, Execution chepth - 1 m m 3.21 Execution the project 150man D proved, Execution chepth - 1 m m 3.22 Execution the project 150man D proved, Execution chepth - 1 m m 3.23 Execution the project 150man D proved, Execution chepth - 1 m m 3.24 Execution the project 150man D proved, Execution chepth - 1 m m 3.25 Execution the project 150man D proved, Execution chepth - 1 m m 3.26 Execution the project 150man D proved, Execution chepth - 1 m m 3.27 Execution the project 1 m m m 3.28 Execution the project 1 m m m 3.29 Execution the project 1 m m m 3.20 Execution the project 1 m m m 3.20 Execution the project 1 m m m 3.21 Execution the project 1 m m m 3.22 Execution the project 1 m m m 3.23 Execution the project 1 m m m 3.24 Execution the project 1 m m m 3.25 Execution the project 1 m m m 3.26 Execution the project 1 m m m 3.27 Execution the pr | 3.14 | Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m. | ın | | | |
| 318 Occavité tendo nad replace USEUNTO proposed, Escavation depth 1-1 sn. Prost Dim. 319 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-1 sn. Prost Dim. 320 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-1 sn. m. 321 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-1 sn. m. 322 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-1 sn. m. 323 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. Past Dim. 324 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. Past Dim. 325 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. Past Dim. 326 Surface Reinstalement of Tendor. 327 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. Past Dim. 328 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. 329 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-2 sn. 320 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 320 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 321 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 322 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 323 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 324 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 325 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 326 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 327 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 328 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 329 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 320 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 321 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 322 Escavati Estenda nad replace USEUNTO proposed, Escavation depth 1-3 sn. 323 Escavation depth 1-3 sn. 324 Escavat | 3.15 | Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m. | m | | | |
| 3.18 New York Control Control Applicate 1 Demonstration (Applicate 1) Associated and applicate 1 Demonstration of the Applicate 1 Demonstration 1 Demonstration 1 Demonstration 1 Demonstration 1 Demo | | Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m. | | | | |
| 3.10 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1-1 Sun m 3.21 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1-1 Sun m 3.22 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1-1 Sun m 3.23 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1.5-2 Cut, Fart 1 On. m 3.24 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1.5-2 Cut, Fart 1 On. m 3.25 Excavate truch and replace 1 (Sturre) papeoved, Excavated depth 1.5-2 Cut m m 3.26 Sturred truch and replace 1 (Sturred) papeoved, Excavated depth 1.5-2 Cut m m 3.27 Excavate truch and replace 1 (Sturred) papeoved, Excavated depth 1.5-2 Cut m m 3.28 Sturred Excavate truch and replace 1 (Sturred) papeoved, Excavated depth 1.5-2 Cut m m 3.29 Sturred Excavate through and replace 1 (Sturred) papeoved, Excavated depth 1.5-2 Cut m m 3.20 Sturred Excavate through and replace 1 (Sturred) papeoved, Excavated depth 1.5-2 Cut m m 3.20 Excavate through and replace 1 (Sturred) papeoved, Excavated papeoved, Excavated and Sturred 1 (Sturred) papeoved, Excavated and Replace 1 (Sturred) papeoved, Excavated and Replace 1 (Sturred) papeoved, Excavated Excavated and replace 1 (Sturred) papeoved, Excavated Exca | | | | <u> </u> | | |
| 3.20 Excavate trunch and replaces (Othern Optpoord, Excavated capit 1.1-15 m m 3.21 Excavate trunch and replace (Othern Optpoord, Excavated capit 1.1-5 m m 3.22 Excavate trunch and replace (Othern Optpoord, Excavated capit 1.5-2 m, Fast 10 m. m 3.23 Excavate trunch and replace (Othern Optpoord, Excavated capit 1.5-2 m, Fast 10 m. m 3.24 Excavate trunch and replace (Othern Optpoord, Excavated capit 1.5-2 m, Fast 10 m. m 3.25 Uscavate trunch and replace (Othern Optpoord, Excavated capit 1.5-2 m p. Fast 10 m. m 3.26 Surface Reinstatement of Tenches 3.27 Excavate through and replace (Othern Optpoord, Excavated capit 1.5-2 m m 3.28 Excavate through and replace (Othern Optpoord, Excavated capit 1.5-2 m m 3.29 Excavate through and replace (Othern Optpoord, Excavated (Othern) optpoord, Excavated (Othern Optpoord, Excavated (O | | | | | | |
| 3.21 Excavate twenh and replace 10 Samuel personed. Excavation depth 1.5-2 cm. Fast 1 fon. m | | Exeavate trench and replace 150mmØ pipework, Exeavation depth 1-1.5m, First 10m. | | | | |
| 3.22 Econate trouch and replace 100 mmO proveroe, Escovation depth 1.5.20 m. Fast 10m. m 3.23 Escovate trouch and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m 3.24 Escovate trouch and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m 3.25 Escovate trouch and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m m 3.26 Surface Reinstatement of Trenches 3.27 Escovate through and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m m 3.28 Escovate through and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m a.29 Escovate through and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m a.30 Escovate through and replace 150 mmO proveroe, Escovation depth 1.5.20 m. m a.31 Escovate through and replace 150 mmO proveroe, Escovation 150 mm m B. Salvanor through and replace 150 mmO mo proveroe, Escovation 150 mm m a.33 Escovate through and reinstate plant concrete, Inscisors 100 mm m a.33 Escovate through and reinstate plant concrete, Inscisors 100 mm m a.33 Escovate through and reinstate plant concrete, Inscisors 100 mm m a.34 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m a.34 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m a.34 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m a.35 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m a.36 Escovate through and reinstate Turnuse - Cold rokid m a.37 Escovate through and reinstate Turnuse - Flor rokid m a.38 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m b. Escovate through and reinstate reinforced concrete, Inscisors 100 mm m a.39 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m b. Escovate through and reinstate turnuse - Flor rokid m a.39 Escovate through and reinstate reinforced concrete, Inscisors 100 mm m b. Escovate through and reinstate turnuse - Flor rokid m a.30 Escovate through and reinstate turnuse - Flor rokid m a.31 Escovate through and reinstate turnuse - Flor rokid m a. | | Excavate trench and replace 100mm@ pipework, Excavation depth 1-1.5m. | | - | | |
| 3.24 Execute trench and replace 150mm() payework, Executation depth 1.52 0m. m 3.26 (Execute trench and replace 150mm() payework, Executation depth 1.52 0m. m 3.27 (Execute trench and replace 150mm() payework, Executation depth 1.52 0m. m 3.28 (Surface Reinstatement of Trenches 3.29 (Execute through and replace consente principal table 3.29 (Execute through and replace to Execute through and replace society principal table 3.29 (Execute through and replace society principal table 3.29 (Execute through and replace society principal table 3.29 (Execute through and replace society principal table 3.20 (Execute through and replace society principal table 3.21 (Execute through and replace society principal table 3.22 (Execute through and remains plan concrete, intelligence 100-200mm m (Execute through and remains plan concrete, finisherse 100-200mm m (Execute through and remains replan concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, miscinese 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, finisherse 100-200mm m (Execute through and remains reminfored concrete, miscuns through and remains reminform m (Execute through and remains reminfored concrete, miscuns remains reminfored concrete miscuns remains remains reminform m (Execute through and remains reminfored concrete, miscuns reminform m (Execute through and remains reminfored concrete, miscuns reminfo | | | | | | |
| 3.24 Executed trench and repice to Dommely prepowers, Executation depth 1.5-2 cm. m 3.26 Surface Reinstatement of Trenches 3.27 Execute through and reinstate start if 3.28 Execute through and reinstate start if 3.29 Execute through and repice below flowing and inclusions that if if it is a start in the start in it is a start in the start in it is a start in it in it is a start in it is a start in it is a start in it is a st | | Excavate trench and replace 100mm0 pipework, Excavation depth 1.5-2.0m, First 10m. | | | | |
| 3.26 Oscawise french and replace 150mm() ppowerf, Issawation depth 1.5.2 On. m 3.26 Surface Reinstatement of Trenches 3.27 Eccawise directal and reinstate tail. m 3.28 Eccawise directal and reinstate tail. m 3.29 Eccawise directal and reinstate tail. m 3.20 Eccawise directal and reinstate place block prolong. m 3.21 Eccawise directal and reinstate place cancels maximum thickness 100mm m 3.22 Eccawise directal and reinstate place cancels maximum thickness 100mm m 3.23 Eccawise directal and reinstate reinforced concrete, maximum thickness 100mm m 3.24 Eccawise directal and reinstate reinforced concrete, maximum thickness 100mm m 3.25 Eccawise directal and reinstate artificred concrete, thickness 100-200mm m 3.26 Eccawise directal and reinstate Taimne - Hot rolled m 3.27 Eccawise directal and reinstate Taimne - Hot rolled m 3.28 Eccawise directal and reinstate Taimne - Hot rolled m 3.29 Eccawise directal and reinstate Taimne - Hot rolled m 3.20 Eccawise directal and reinstate Taimne - Hot rolled m 3.21 Eccawise directal and reinstate Taimne - Hot rolled m 3.22 Eccawise directal and reinstate Taimne - Hot rolled m 3.24 Eccawise directal and reinstate Taimne - Hot rolled m 3.25 Eccawise directal and reinstate Taimne - Hot rolled m 3.26 Eccawise directal and reinstate Taimne - Hot rolled m 3.27 Eccawise directal and reinstate Taimne - Hot rolled m 3.28 Eccawise directal and reinstate Taimne - Hot rolled m 3.29 Taimne - Hot rolled m 3.20 Eccawise directal and reinstate Taimne - Hot rolled m 3.21 Eccawise directal and reinstate Taimne - Hot rolled m 3.22 Taimne - Hot rolled reinstate Taimne - Hot rolled m 3.24 Eccawise directal and reinstate Taimne - Hot rolled m 3.29 Taimne - Hot rolled reinstate Taimne - Hot rolled m 3.20 Taimne - Hot rolled reinstate Taimne - Hot rolled m 3.21 Taimne - Hot rolled reinstate Taimne - Hot rolled m 3.22 | | Excavate trench and replace 100mm@pipework, Excavation depth 1.5-2.0m. | | | | |
| 3.27 Exercate through and replace occorete paving alabs 3.29 Exercate through and replace occorete paving alabs 3.20 Exercate through and replace occorete, maximum thickness 100mm m BECCATE through and remistate plain occurete, thickness 100mm m BECCATE through and remistate plain occurete, thickness 100mm m BECCATE through and remistate plain occurete, thickness 100mm m BECCATE through and remistate reinforced concrete, maximum thickness 100mm m BECCATE through and remistate reinforced concrete, thickness 100mm m BECCATE through and reinstate reinforced concrete, thickness 100mm m BECCATE through and reinstate reinforced concrete, thickness 100mm m BECCATE through and reinstate Tarmare Cold rolled m BECCATE THROUGH AND TARREST THRO | 3.25 | | | | | |
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| 3.28 Excavate through and replace Sconter paving ables 3.29 Excavate through and replace belop aving 3.30 Excavate through and resistate plain concrete, maximum thickness 100mm m Excavate through and resistate plain concrete, thickness 100-200mm m Excavate through and resistate reinforced concrete, maximum thickness 100mm m Excavate through and resistate reinforced concrete, inkindense 110-200mm m Excavate through and resistate reinforced concrete, inkindense 110-200mm m Excavate through and resistate resistate frames - Cotd relied m Excavate through and resistate resistate frames - Cotd relied m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m Excavate through and resistate frames - Hot rolled m In Between the International Control of the maximum of | | | | 1 | | |
| 3.30 Execuse through and reinstate plans concrete, inskinson infokases 100mm m 3.31 Execuse through and reinstate plans concrete, infokases 100mm. m 3.32 Fixewate through and reinstate reinforced concrete, infokases 100mm. m 3.33 Execused through and reinstate reinforced concrete, thickness 100mm. m 3.34 Execused through and reinstate farmer - Cold rolled m 3.35 Execused through and reinstate farmer - Cold rolled m 3.36 Research of the control of the cold of | 3.28 | | m | | | |
| 3.31 Execute through and remetate plant concrete, thickness 100-200mm. m | | Excavate through and replace block paving | m | | | |
| 3.32 Securate through and reinstate reinforced concrete, inskinstal (10-200mm) m | | | | | | |
| 3.34 Execute through and reinstate reinforced concrete, thickness 100-200mm. m 3.35 Execute discogh and reinstate Tamme - Old reliable m 3.36 Executed through and reinstate Tamme - Hot rolled m 4.0 Liming 4.1 Set up luming rig for drain luming including first 3m of lining per run, for 100mm or 150mm let m 4.2 Lime 100mm/0 drain m 4.3 Lime 150mm/0 drain m 4.4 Lime 100mm/0 drain m 4.5 Minimum luting charge let m 4.6 Root cutting of drain prior to lining let m 4.7 Set up luming rig for patch luming luming let m 4.8 Patch luming COTT survey lips 4.9 Patch lume 150mm/0 drain m 4.1 Near thin luming right of the luming | | | | - | | |
| 3.34 Excessed Groupfs and crisistate Tarmare - Cold rolled m m m m m m m m m | | | | 1 | | |
| A.0 Lining | | | | 1 | | |
| 4.0 Lining | 3.35 | Excavate through and reinstate Tarmae - Hot rolled | m | | | |
| 4.1 Set up linng rig for dexin lining including first 3m of lining per run, for 100mm or 150mm Item 1 | | Reinstatement of crazy paving | m | | | |
| 4.2 Line 100mm/0 drain m | | | | | | |
| 4.3 Line ISomm@ drain | | Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm | | 1 | | |
| 4.4 | | | | | | |
| 4.5 Minimum lining charge Recot cutting of drain prior to lining hr 1 | | | | l | | |
| 4.6 Reco cutting of drain prior to lining Item | | Minimum lining charge | | 1 | | |
| 4.8 | 4.6 | Root cutting of drain prior to lining | | 1 | | |
| 4.9 Patch line IStmmt/ drain no | | | | 1 | | |
| 410 | | | | | | |
| 4.11 Minimum patch liming charge | 1100000 | | | | | |
| 4.12 Re-open lateral branch up to 2m length, pipe up to 150mm no | | | | 1 | | |
| 4.13 Re-open lateral branch over 2m length, pipe up to 150mm no | 4.12 | Re-open lateral branch up to 2m length, pipe up to 150mm | | | | |
| S.1 Excavation and backfill of snekaway (1 m 3) with stone Item | 4.13 | Re-open lateral branch over 2m length, pipe up to 150mm | no | | | |
| 5.2 | | | | | | |
| 5.3 Daywork - Hourly labour rate hr 5.4 Minimum project value Item 5.5 Confined space equipment Item 5.6 5.7 5.8 6.0 Additional items 6.1 De-scaling (fat/grime) hr 6.2 De-scaling (seals using chain flails) hr 6.3 Gully surround item 6.4 Minitole works (up to 1.2m) item 6.6 Oversize scalaway (1.5m3) item 6.7 Soakways - 1.5m3 item 6.8 Waste disposal m 6.9 Shoring m Total Estimate Price For Recommendation Number 3.0 | | | | | | |
| S.4 Minimum project value Item | | | | | | |
| S.5 Confined space equipment Item 1 | | | | | | |
| 5.6 | | | |) | | |
| 5.7 | | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 100.00 | 1 1 | | |
| 6.0 Additional items | | | | | | |
| 6.1 De-scaling (fat/grime) hr 6.2 Do-scaling (seale using chain fleils) hr 6.3 Gully surround item 6.4 Manitole works (up to 1.2m) item 6.6 Oversize soukoway (1.5m3) item 6.7 Soakoway -1 5m3 item 6.8 Waste disposal m 6.9 Shoring m Total Estimate Price For Recommendation Number 3.0 | 5.8 | | | | | |
| 6.2 De-scaling (scale using chain fleils) Irr | 6.0 | Additional items | | | | |
| 6.2 De-scaling (scale using chain fleils) Irr | 6.1 | De-scaling (fat/grime) | hr | | | |
| 6.4 Multipole works (up to 1.2m) | | De-scaling (scale using chain flails) | | | | |
| 6.6 Oversize scaleaway (1.5m3) item 6.7 Scaleaway >1.5m3 item 6.8 Waste disposal m 6.9 Shoring m Total Estimate Price For Recommendation Number 3.0 | | | | \vdash | | |
| 6.7 Scakaway >1.5m3 item 6.8 Waste disposal m 6.9 Shoring m Total Estimate Price For Recommendation Number 3.0 | | | | | | |
| 6.8 Waste disposal m. 6.9 Shoring m. Total Estimate Price For Recommendation Number 3.0 | | | | | | |
| 6.9 Shoring m Total Estimate Price For Recommendation Number 3.0 | | | | 1 | | |
| | | | | | | |
| Subject to discount 0.00 | | | | 100.00 | | |
| Total subject to VAT @ 20% | | Subject to discount | | 0.00 | | |

Total subject to the attached Terms and Condtions

A: When calculating prices, all measurements are rounded up

C: Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed

G: Daywork rates do not include for materials that are charged at cost plus 25%

KEY: no = not exceeding, eo = extra over rate, m = hnear metre, m = number, hr = hour

B - Depths are taken to the base of excavations D - All rates exclude VAT
F - The above rates are subject to re-measurement E - Depths are taken to the base of excavations

| Underground Drainage Report | Sheet: | 1 of 3 | Site: | 40 Elsworthy Road, London |
|-----------------------------|--------|----------|-----------------------|--------------------------------|
| | Date: | 3-Jun-15 | Work carried out for: | Cunningham Lindsey - Maidstone |

MANHOLE DETAILS

Manhole Depth to Invert Condition

MH1 2300mm As built

CCTV Survey:-

1. Drainage Run:

From manhole 1 run 1 to manhole 2 - 100mm clay combined - upstream (not shared)

| Metres: | Code: | Observations: | Surface Material/ Condition: |
|---------|-------|---------------------------|---------------------------------|
| 0.0 | | Start | Slabs for 4.4m |
| 1.1 | WL | 10% | |
| 4.4 | FH | Survey ends - reached MH2 | |

2 Drainage Run:

From manhole 1 run 2 to upstream - 100mm lined foul water - upstream (not shared)

| Metres: | Code: | Observations: | Surface Material/ Condition: |
|---------|-------|-----------------------------------|---------------------------------|
| 0.0 | | Start | Slabs |
| 0.6 | GO | Liner failure | |
| 0.7 | SA | Survey abandoned - unable to push | |

Water Test Grade:

2 - Medium Loss over 2 minutes

0 - Unable to fill 3 - Slow Loss over 5 minutes

1 - Heavy Loss 4 - No Loss

| Underground Drainage Report | Sheet: | 2 of 3 | Site: | 40 Elsworthy Road, London |
|-----------------------------|--------|----------|-----------------------|--------------------------------|
| | Date: | 3-Jun-15 | Work carried out for: | Cunningham Lindsey - Maidstone |

3 Drainage Run:

From manhole 1 run 3 to upstream - 100mm lined foul water - upstream (not shared)

| Metres: | Code: | Observations: | Condition: |
|---------|-------|-------------------------------|------------------------|
| 0.0 | | Start | Slabs for 1m |
| 0.7 | LL | | then steps x1 for 2.1m |
| 3.1 | MC | To clay | |
| 3.1 | LU | | |
| 3.6 | FH | Survey ends - reached unknown | |
| | | | |

4 Drainage Run:

From manhole 1 run 4 to yard gully - 100 mm lined foul water - upstream (not shared)

| Metres: | Code: | Observations: | Surface Material/ Condition: |
|---------|-------|-------------------------------|---------------------------------|
| 0.0 | | Start | |
| 0.7 | LL | | |
| 3.5 | DES | | |
| 3.6 | MC | To clay | |
| 3.8 | FC | From 12 o'clock to 12 o'clock | |
| 4.5 | OJM | | |
| 4,6 | FH | Survey ends - reached YG | |
| | | | |

Water Test Grade:

2 - Medium Loss over 2 minutes

0 - Unable to fill 3 - Slow Loss over 5 minutes

1 - Heavy Loss 4 - No Loss

Work carried Cunningham Lindsey - Maidstone
Date: 3-Jun-15 out for:

5 Drainage Run:

From manhole 1 run 5 to boundary - 100mm clay combined - downstream (not shared)

| Metres: | Code: | Observations: | Condition: |
|---------|-------|--------------------------------|---------------------------|
| 0.0 | | Start | Slab / bin store for 3.6m |
| 0.0 | JN | At 6 o'clock interceptor | |
| 0.4 | JDM | | |
| 0.4 | FC | From 12 o'clock to 12 o'clock | |
| 0.8 | RTJ | | |
| 1.4 | MC | To plastic | |
| 1.8 | MC | To lined | |
| 1.8 | V | | |
| 3.6 | FH | Survey ends - reached boundary | |
| | | | |

- End of Survey -

Our assessment of the drainage system is based on our visual inspection and on information collated at the time of the survey. Where assumptions have been made these are based on our experience and do not constitute any form of guarantee, nor do we guarantee that further deterioration will not occur following this survey. CCTV video records will be stored for a period of 3 months from date of inspection and then destroyed.

Water Test Grade:

2 - Medium Loss over 2 minutes

0 - Unable to fill 3 - Slow Loss over 5 minutes

1 - Heavy Loss 4 - No Loss

Water Authority Sewer Condition Codes

| В | Broken pipe at (or from to) o'clock | JN | Junction ato'clock, diametermm |
|------|---|------------------------|---|
| BR | Branch Major | JX | Junction defective at o'clock, diameter mm |
| CC | Crack circumferential from to o'clock | LC | Lining of sewer changes/starts/finishes at this point |
| CL | Crack longitudinal @ o'clock | LD | Line of sewer deviates down |
| CM | Cracks multiple from to o'clock | LL | Line of sewer deviates left |
| CN | Connection at o'clock, diameter mm | LN | Line defect at (or from to) o'clock |
| CNI | Connection at o'clock, diameter mm, intrusion mm | LR | Line of sewer deviates right |
| CU | Camera under water | LU | Line of sewer deviates up |
| CX | Connection defective at o'clock | MB | Missing bricks at (or from to) o'clock |
| CXI | Connection defective at o'clock, diameter mm, | MC | Material of sewer changes at this point |
| | intrusion mm | MH | Manhole/node |
| D | Deformed sewer % | MM | Mortar missing medium at (or from to) o'clock |
| DB | Displaced bricks at (or from to) o'clock | MS | Mortar missing surface at (or from to) o'clock |
| DC | Dimension of sewer changes at this point | MΓ | Mortar missing total at (or from to) o'clock |
| DE | Debris (non silt/grease) % cross-sectional loss | OB | Obstruction % height/diameter loss |
| DEG | Debris grease % cross-sectional area loss | OJL | Open joint large |
| DES | Debris silt % cross-sectional area loss | OJM | Open joint medium |
| DΙ | Dropped invert, gap mm | PC | Length of pipe forming sewer changes at this point, |
| EHJ | Encrustation heavy from to o'clock % cross-sectional | | new lengthmm |
| | area loss (at joint) | RFJ | Roots fine (at joint) |
| ELJ | Encrustation light from to o'clock% | RMJ | Roots mass % cross-sectional area loss (at joint) |
| EMJ | Encrustation medium from to o'clock %, cross-sectional | RTJ | Roots tap (at joint) |
| | area loss (at joint) | SA | Survey abandoned |
| ESH | Scale heavy % cross-sectional area loss from to | SC | Shape of sewer changes at this point |
| | o'clock | SSL | Surface damage, spalling large at (or from to) |
| ESL | Scale light from to o'clock | | o'clock |
| ESM | Scale medium % cross-sectional area loss from to | SSM | Surface damage, spalling medium at (or from to) |
| | o'clock | | o'clock |
| FC | Fracture circumferential from to o'clock | SSS | Surface damage, spalling slight at (or from to) |
| FL | Fracture longitudinal at o'clock | | o'elock |
| FM | Fractures multiple from to o'clock | SWL | Surface damage, wear large at (or from to) |
| GO | General observation at this point | | o'eloek |
| GP | General photograph number taken at this point | SWM | Surface damage, wear medium at (or from to) |
| Н | Hole in sewer at o'clock | | o'elock |
| IDJ | Infiltration dripper at (or from to) o'clock (at joint) | SWS | Surface damage, wear slight at (or from to) |
| IGJ | Infiltration gusher at (or from to) o'clock (at joint) | | o'eloek |
| IRJ | Infiltration runner at (or from to) o'clock (at joint) | \mathbf{V} | Vermin (rats and mice) |
| ISJ | Infiltration seeper at (or from to) o'clock (at joint) | $\mathbf{W}\mathbf{L}$ | Water level % height/diameter |
| ITDM | Tulor disclosed and items | 37 | G |

 ${f X}$ Sewer collapsed... % cross-sectional area loss

FH End of survey

JDM Joint displaced medium

JDL Joint displaced large

| Contract: Site Address: | 263336 40 Elsworthy Road, London | Date: 03-Jun-15 Operative Initial: SA Page: 1 of 1 | | | |
|----------------------------|---|--|-----------------------------------|--|--|
| M/H: 1 | Depth: 2300mm 2 3 4 ension (mm): 500 X 1100 | Depths of run if different to invert level:- Run | Manhole Condition As built | | |
| M/H: | Depth: | Depths of run if different to invert level:- Run | Manhole Condition | | |
| M/H: | Depth: | Depths of run if different to invert level:- Run | Manhole Condition | | |
| lnt | KEY Internal Back Drop External Back Drop creeptor | Water Pressure Test R From: To: | e sults Pass / Fail | | |