

ESTIMATE

SUBMITTED SUBJECT TO TERMS
AND CONDITIONS PRINTED OVERLEAF



8th September 2017

REDACTED

Dear Sir,

Re. Plot off Bank View, Birkenshaw
Drill & Case Mini Piling and R.C Foundation Works.

Further to your recent email we have pleasure in submitting our revised estimate for the design and construction of mini pile and RC foundation works at the above site, for the sum of **£28,220.00** nett and excluding VAT.

The basis of our estimate is as detailed below and in the attached Bill of Quantities and Appendices and is offered on the terms and conditions overleaf and is subject to the provision of defined attendances. Our schedule of attendances which includes the FPS Schedule of Attendances (as amended by Roger Bullivant Limited) is attached.

Having examined the S.I report it is apparent that collapsed ground is noted between 12m – 15m suggesting possible previous mine workings. The underlying strata confirmed intact mud stone to at least 30m therefore any possible further workings beyond that depth will not influence the proposed new build construction.

Due to the above, we have allowed for the design and installation of drill and case mini piles (odex) to a depth of 15m then formation of a rock head socket 3m into the strong mud stone.

Preliminary designs based upon a 190mm diameter rock socket indicate that 3m rock socket will be suitable and should achieve a SWL of 233kN (F.O.S = x 3) which will be suitable for the pile spacings as per our attached sketch.

We have allowed for the installation of the R.C ground beams however we have assumed that the excavation required will be carried out by others.

Due to health and safety reasons we will require a firm level platform to install the piles and then the excavation carried out by others after the piling to form the excavation for the ground beams in trench formation to allow installation of the ground beams without the necessity of installing and shuttering.



ROGER BULLIVANT LIMITED, Unit 1 Bedesway, Bede Industrial Estate, Jarrow, Tyne & Wear NE32 3EG
T 0191 537 2542 E info@roger-bullivant.co.uk www.roger-bullivant.co.uk

REGISTERED OFFICE RB Walton Park, Hearhcole Road, Swadincote, Derbyshire DE11 9DU. Registered in England No. 07681731. VAT Registration No. 118609313

Specific attendances we require are listed below:-

1. Setting Out
2. Location of services / diversion (if required).
3. Provision of a firm level dry working platform.
4. Excavation in trench formation to exact size of ground beams.

Due to current Health and Safety legislation, for the safety of our operatives and to minimize disruption of any kind to yourselves and other users, you will need to investigate whether there are any mains services located near our proposed works. In order to do this you will need to contact local service providers of gas, water, electricity and drainage and obtain service drawings for the site. Our permit to dig form must be completed and returned to us prior to any piling works (copy enclosed).

We trust this estimate is of interest; should this be the case, there are certain technical and contractual issues that we require to discuss and agree before entering into any contract for the Sub-Contract Works.

Should you have any queries regarding our proposals, please do not hesitate to contact the undersigned quoting our reference number at the top of the page.

Yours faithfully
for and on behalf of
Roger Bullivant Limited

REDACTED

Paul Manning
Area Manager

BILL OF QUANTITIES
DRILL & CASE STEEL CASED MINI PILES + RC FOUNDATION WORKS

Item	Description	Qty	Unit	Rate	Amount
1	Establish piling plant for main piling operations and remove upon completion (single visit to site).	1	Visit	£1,250.00	£1,250.00
2	Supply and drill piles 220mm steel driven casings for any length up to and including 15m for SML 230 kN (max).	16	Nb.	£900.00	£14,400.00
3	Extra for casing length supplied greater than 15m		Lm	£55.00	Rate Only
4	Design and construct a 190mm dia rock socket 3m into rock head. i.e. total depth = 18m	16	Nb	£420.00	£6,720.00
5	Extra for rock socket of total depth in excess of 18m		M	£50.00	Rate Only
6	Design and Construct R.C ground beams (500 x 450mm)	45	Lm	£130.00	£5,850.00
7	Excavation in trench formation				By Others
8	Dynamic load testing (optional). Proof load test 3 No. working piles in a single visit during main piling operation.		Sum	£1,500.00	Rate Only
9	Static Load Testing (Working File Test) Establish test equipment and carry out proof load test on a vertical pile during main piling operations as piling proceeds, generally in accordance with "ICE Model Procedures".		Sum	£5,000.00	Rate Only
10	Standing time for piling rig, associated plant and labour whilst overcoming obstructions or due to circumstances beyond our control. This item is intended to cover short duration standing time only. Should excessive delays and continuous standing of our rig occur we reserve the right to temporarily remove the rig from site and remobilisation charges will apply		Rig/ Hour	£150.00	Rate Only
ESTIMATE TOTAL (Nett)					£28,220.00

Measurement for the supply and installation of Driven Cased Piles is from toe to top of pile as pitched, or ground level which ever is greater.

APPENDICES (Sheet 1 of 2)

A. LIST OF CONTROL DOCUMENTS

- | | | |
|-----|---------------------|--|
| A.1 | LETTER OF ENQUIRY | Email dated 7 th September 2017 excluding any terms and conditions therein. |
| A.2 | DRAWING NUMBERS | 2014.029.301A |
| A.3 | SOIL CONDITIONS | As per Sub Surface Report |
| A.4 | CONTRACT CONDITIONS | RBL Terms and Conditions printed on the reverse of the first page of this Estimate. |

B. OTHER MATTERS SPECIFIC TO THIS ESTIMATE

- B.1 This Estimate is based on a normal five day week, working up to ten hour shifts without restriction or interruption and in a logical sequence. On this basis we estimate that the duration of the Sub-Contract Works will be between 3-4 working weeks, excluding provisional items, holidays and pile testing of all types.
- B.2 Unless otherwise agreed in the covering letter, It is the Employer's responsibility to notify us of the exact number, loading and configuration of the piles and to notify us of any incidental loading conditions including but not limited to Negative Skin Friction, Cropping and Ground Heave Tension. Any such information provided to us by a consulting engineering practice (other than one instructed by RBL) shall be deemed to be provided by that consulting engineering practice as agent for the Employer.
- B.3 Accordingly, we shall only be responsible for designing piles, using reasonable skill and care, to carry loads as indicated in the attached Bill of Quantities.
- B.4 The approximate current notice to start work is 2-3 weeks dependant on the availability of plant at the time we conclude any contract with you.
- B.5 Noise, vibration and nuisance will be kept to the level associated with the normal use of our plant.
- B.6 Where any term of this contract seeks to limit or adversely affect a consumer's statutory rights then that term shall not apply.
- B.7 Should the enquiry documents contain any warranties, bond or parent company guarantee's, these items will be reviewed should our estimate be of interest and the relevant acceptance or amendments will then be made. Notwithstanding Clause 12a of the terms and conditions on the reverse of the first page of this estimate our maximum liability under or in connection with any resulting contract, whether for breach of contract, tort, breach of statutory duties or otherwise, shall not exceed the order value or £100,000.00 whichever is the lesser sum.

APPENDICES (Sheet 2 of 2)

C. SPECIFICATION

220mm dia casings are drilled to rock head in 1.0m sections and welded together. A 190mm dia rock socket is drilled 2.0m into rock head and concreted using a C40 mix.

The Employer shall indemnify Roger Bullivant Ltd against the cost of any claim or liability for pollution or contamination howsoever caused arising out of our design or construction of the works.

C.2 Specification

No. of Piles	16 No.
Size of Piles	220 mm dia & 190mm dia rock socket
Maximum working load	233 kN (max)
Piling platform level (PPL)	TBA
Design Factor of Safety	x2.5

N.B. Pile numbers subject to confirmation following receipt of construction drawings.

C.3 Testing

Dynamic Load Testing

As well as traditional methods of testing, we offer dynamic testing of piles using the Pile Driving Analyser operated by our own personnel who are experienced in pile design. This widely used and accepted technique offers an economical and rapid method of pile testing to satisfy any statutory or specified requirements.

Static Load Testing

Where testing is included in the Bill of Quantities we have only allowed for testing vertical piles. Working piles to be tested should be selected clear of obstructions sufficiently early in the contract to enable testing to be carried out and completed during the course of the main piling works.

Test Results

Any works undertaken prior to the test results being issued by the Company, shall be at the Main Contractors risk.

SCHEDULE OF ATTENDANCES

The following attendances and facilities shall be provided and maintained at all times (including additional working hours if necessary) for the duration of and in relation to our works, free of charge to us and in a manner so as not to disrupt or restrict the regular progress of our works.

1-6) THE ATTACHED FPS SCHEDULE – February 2003

Sections 1 – 6 of the attached FPS Schedule remain unchanged requirements for the contract unless otherwise stated in writing.

Section 7 of the schedule to have the addendum.

We require a 2 meter wide working surface outside the footprint of the building, wherever physically possible.

Sections 8 – 28 of the attached FPS schedule, remain unchanged requirements unless otherwise stated in writing.

29) Permit to Dig

No site works shall be undertaken by the Company or its approved Sub-Contractors without a satisfactory, completed and signed Permit to Dig, from the Main Contractor or Employer, which addresses the presence of underground services and hazards within the site.

30) Work to Existing Buildings

- a) Access for Plant and Materials. Protection to existing roads, footpaths and landscaped area etc, is the responsibility of the Employer or Main Contractor.
- b) Works inside existing premises. Protection to floors, walls and ceilings is the responsibility of the Employer or Main Contractor.

31) Working Platform

It is our intention to comply with the FPS initiative on working platforms and we would require a signed copy of the Working Platform Certificate (enclosed with this tender) prior to commencing any works on site.

FEDERATION OF PILING SPECIALISTS

COMPANY NAME: Roger Bullivant Limited
CONTRACT NAME: Plot off Bank View, Birkenshaw
TENDER REF: EM.14.5005 Rev A



SCHEDULE OF ATTENDANCES AND FACILITIES TO BE PROVIDED BY THE CLIENT TO A PILING OR DIAPHRAGM WALLING SPECIALIST

For the purposes of this document the following definitions shall apply:

Specialist	-	Piling/Diaphragm Walling Specialist
Client	-	Person directly employing the Specialist

The following attendances and facilities shall be provided and maintained at all times (including additional working hours if necessary) for the duration of and in relation to the specialist works, free of charge to the specialist and in a manner so as not to disrupt or restrict the regular progress of the specialist works.

1. **Notices.** Giving all notices and obtaining all necessary approvals, licences and sanctions, including but not limited to any wayleaves, easements, possessions, rights of way or access.
2. **Rates and Fees.** Payment of any rates or fees which may become payable due to occupation of the specialist works.
2. **Protection.** Protection of the works where taken over by other traders or contractors or where the specialist has left site.
4. **Watching.** Provision of security to safeguard the plant, equipment, materials on the site and the specialist works.
5. **Fencing, Hoardings, etc.** Hoardings, fences, noise and splash barriers, statutory warnings, flagmen or the like as necessary to protect the works, plant, materials, personnel, third party property, and the general public. This shall include protection from exhaust, dust, oil, grease, etc.
6. **Clearance.** The provision of adequate clearance around working positions for the specialist's operations including protection to adjacent works and third party property.
7. **Access and Working Surfaces.** Full and free access onto the site(s) from hard road to firm level dry all-weather working surfaces including ramps, with working space including staging/protective mats, all designed and maintained in a manner suitable for the safe erection, operation and movement on, off and around the site(s) and to and between working areas, storage areas, pile/panel position and testpiles/panels of plant and equipment and wheeled transport including articulated and ready mixed concrete lorries. Ramps including access ramps to ready mix storage areas, where required, to a gradient not steeper than 1 in 10. Protective mats and all other equipment and measures necessary to minimise the risk of damage to third party property, including road surfaces, kerbs and surfaces, especially where the nature of the site requires off site activity such as loading and off loading materials and plant which may include crawler cranes.
8. **Accommodation, Hardstanding and Storage Areas.** Provision and subsequent removal of firm, dry reasonably level working areas, designed prepared and maintained for the safe operation and erection of plant and equipment. Conveniently situated areas on site for storage of plant, equipment and materials for offices, sheds and the manufacture of reinforcing cages.
9. **Surface Water, Groundwater and Wastewater.** Any pumping or drainage required to keep the site free of surface water or any water and slurry arising from the operations. Disposal of wastewater from the specialist operation (such as concrete wash out from agitators) is to comply with current legislation, including for filtering or the provision of settlement tanks as appropriate.
10. **Flammable Stores.** Provision for storage of petroleum, explosives and flammable materials as may be required and arranging for the requisite licence.

FEDERATION OF PILING SPECIALISTS



COMPANY NAME: Roger Bullivant Limited

11. **Telephone Facilities.** Provision of site telephone facilities.
12. **Health and Safety.** Welfare and safety facilities to comply with statutory regulations or rules, orders or regulations of any authority having powers related to the specialist works.
13. **Temporary Lighting.** Suitable background and task lighting to working areas to allow safe working and safe access and egress and to facilitate execution of the specialist works.
14. **Water Supply.** Within the working, storage and preparatory operation areas, potable water supply at mains pressure take-off points and sufficient for the operations, including (where applicable) charging of bores, bentonite/drilling fluid mixing, concrete mixing and cleaning of plant.
15. **Electricity.** Within the working, storage and preparatory operation areas, suitable power take-off points and power.
16. **Traffic.** Control or diversion of road, rail or water borne traffic.
17. **Existing Services.** Clear and substantive setting out, marking or exposing on site the exact location of existing underground/overhead works and services and providing a drawing on which their positions in line and level are accurately plotted relative to the specialist works. Adequate protection, diversion or removal of such works or services to prevent damage from the specialist's operations. The location and plugging off of all disused pipes or ducts in order to prevent the entry of pile concrete or drilling fluids during construction.
18. **Shoring/underpinning.** Shoring and underpinning as necessary, including the removal, replacement or adjustment of timbering or shoring which may impede the specialist's operations.
19. **Guide Walls.** The setting out, construction and later removal of reinforced concrete guide walls (where required). The top of the guide wall shall be a minimum of 1.5 m above water levels encountered during construction of the specialist works.
20. **Obstructions.** Prior removal of overhead, surface or underground obstructions which may impede the specialist's operations and backfilling of excavations and voids with a suitable material which will not obstruct or be deleterious to the works but which will ensure the stability of the specialist's plant.
21. **Setting Out.** Clear and substantive setting out and maintenance of individual pile/panel positions as necessary throughout the contract and the provision of permanent datum points, base lines, structural grid lines and as built survey information as required.
22. **Checking.** Checking the positions and cut-off levels of all piles/panels, during the progress of the work, on completion of the work (where practicable) and before the specialist's plant has left site.
23. **Attendance and Removal of Material.** The full time attendance of an excavator with backactor (or similar) to each rig for all operational purposes, including removal and disposal of excavated or displaced material including mud slurry and excess concrete from around the specialist operation in sufficient time to prevent the formation of spoil heaps impeding the specialist's operations.
24. **Wheel and Road Cleaning.** Manned wheel-cleaning facilities and/or road-cleaning, as necessary.
25. **Trimming.** Cutting back heads of piles/panels, including overbreak and casing left in, down to the specified cut-off levels; cutting back overbreak from the face of retaining walls; disposing of debris; and preparing, straightening and bending the reinforcement, including test piles/panels, caps and reaction piles/panels or anchors. Stripping formwork to recesses and box outs etc, including templates to starter bars or bolts. This should include preparation of the surface of the pile head for integrity testing.
26. **Building up.** Building up of piles/panels or any necessary modification to the sub-structure as a result of the piling platform level being lower than 0.3m (or as otherwise agreed) above the specified cut off level.
28. **Empty Bore/Panel Reinstatement.** Backfilling of any empty bore/panel excavation.
29. **Environmental Attendances** and facilities to comply with environmental legislation, and rules/ order or regulations of the Environment Agency and other statutory enforcing bodies, for example facilities such as skips to allow for the segregation of waste materials.

Roger Bullivant Limited
Unit 1 Bedesway
Bede Industrial Estate
Jarrow
Tyne & Wear
NE32 3EG

ACCEPTANCE OF ESTIMATE

I/We hereby

accept your Estimate No:..... Dated:.....

for work as specified in that Estimate to be carried out at:

.....
.....

on your Terms and Conditions of Contract as set out on the reverse of your Estimate.

I/We confirm that the site and attendance facilities you require will be ready so that your work can start on:

My/Our deposit payment of £ TBC is enclosed.

Signed:

Company Position:

Dated:

GAS SERVICE PROVIDERS

Scotland Gas Networks

Northern Gas Networks

National Grid

Wales & the West Utilities

Southern Gas Networks



ELECTRICITY SERVICE PROVIDERS

Scottish and Southern Energy

Scottish Power Energy Networks

CE Electric UK

United Utilities

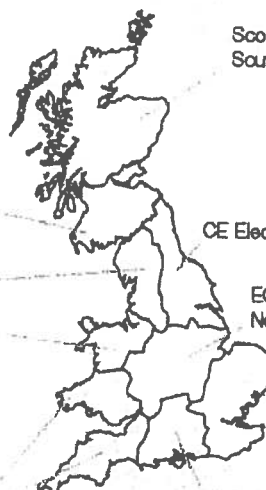
EON Central Networks

Scottish Power Energy Networks

EDF Energy Networks

Western Power Distribution

Scottish and Southern Energy



Scotland Gas Networks

Plant Location Department
95 Kilbirnie Street
Glasgow
G5 8JD
Tel: 0141 4184093

Northern Gas Networks

1st Floor, 1 Emperor Way
Doxford International Business Park
Sunderland
SR3 3XR
Tel: 0191 5014349

National Grid Gas Distribution

Plant Protection
National Grid, Lakeside House
The Lakes
Bedford Road
Northampton
NN4 7HD
Tel: 01604 815361

Wales & the West Utilities Ltd

Plant Protection, 1st Floor,
Wales & West House,
Spooners Close,
Celtic Springs,
Coedkernew,
Newport
NP10 8FZ
Tel: 02920 278912

Southern Gas Networks

Plant Protection Team
2 Leasons Hill,
Orplington,
Kent
BR5 2TN
Tel: 01689 881454

Scottish and Southern Energy

Contracts Manager
S+S, 1st Floor
North Inveralmond House
22 Dunkeld Road
Perth
PH1 3AQ
Tel: 01738 456463

United Utilities

Terms and Conditions Manager
United Utilities Service Delivery
Hartington Road
Preston
PR1 8LE

EON Central Networks Plc (West Midlands)

Network Connections Section
Central Networks
Toll End Road
Tipton
West Midlands
DY4 0HH
Tel: 08457 353637

Western Power Distribution (South Wales)

Business Support
Phoenix Way
Llansamlet
Swansea
SA7 9HW
Tel: 0845 6013341

Western Power Distribution (South West)

Records Team
Lostwithiel Road
Bodmin
Cornwall
PL31 1DE
Tel: 0845 6012989

Scottish Power Energy Networks

New Alderston House
Dove Wynd
Strathclyde Business Park
Bellshill
ML4 3FF
Tel: 01698 413000

CE Electric UK

Connections Commercial Manager
Manor House
Station Road
New Penshaw
Houghton-Le-Spring
DH4 7LA
Tel: 08450 702703

EON Central Networks Plc (East Midlands)

Domestic Utility Connections
Manager
New Herald Way
Pegasus Business Park
East Midlands Airport
Castle Donnington
DE74 2TU
Tel: 01332 393452

EDF Energy Networks

Customer Connections
EDF Energy Projects Gateway
Metropolitan House
Darkes Lane
Potters Bar
Hertfordshire
EN6 1AG
Tel: 08701 964599



UNDERGROUND SERVICES PERMIT TO DIG

Contract Name and Address:

Plot off Bank View,
Birkenshaw

Contract No: EM.14.5005

OPERATIONS WILL NOT COMMENCE UNLESS ALL SECTIONS OF THIS PERMIT ARE COMPLETED AND SIGNED

Works Information

Permit Duration

Principal Contractor/ Client name:

Valid From:

Valid Until:

Name of Site Manager:

Project Start Date:

Note: Prior to completion of this form, the Competent Person appointed by the Principal Contractor/Client to locate the services must be satisfied that all necessary actions have been taken to comply with HSE Guidance Document HSG 47 - Avoiding Danger From Underground Services.

SECTION A-B TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR, MAIN CONTRACTOR OR CLIENT

A - Planning & Investigation Stage

A1	Type of Foundation / Pile / Excavation _____			
A2	a) Construction Drawing Ref. _____ b) Description / Grid Ref. for work zone inspected _____			
A3	a) Service Plans for the area defined above have been inspected Yes ☐ No ☐ Please List the Service Plans Drawings inspected in A4:			
A4	Type	Description	Location	Proximity to RB works
	Electricity			
	Gas *Piling or vertical boring conducted within 15 metres of any gas pipe then the gas provider must be consulted before work can proceed			
	Water			
	Telecoms			
A4	Waste			
	Other - Provide a description			
A5	a) Are the works to be carried out in an area known to be affected by UXO? Yes ☐ No ☐ If Yes, please pass on the relevant information from the UXO report.			

B Identification

a) The PC/Main Contractor/Client's Competent Person has scanned the area defined in A2 (b) with a service locating device?

Yes ☐

No ☐

B1

Type of Device	Serial Number	Calibration Date	Competent Person Name

a) Has Section A3 indicated the presence of any services? Or has B1 identified the presence of any services within the vicinity of our works?

Yes ☐

No ☐

B2

If Yes, have the service locations been confirmed by trial holes?

Yes ☐

No ☐

(If not the reason must be justified below)

a) Has the gas provider been consulted?

Yes ☐

No ☐

B3

State any controls specified by the gas provider:

.....

If no, state reason why:-

a) Are the services / utilities referenced in A4 exposed / demarcated when the gas is within 15m, and all other services within 2m?

Yes ☐

No ☐

B4

RB must not undertake any work below ground level at a distance of less than 0.5m of a known unexposed service / utility.

B5

a) Method(s) used to demarcate service(s) e.g. tape/cones etc.

B6

a) Are there any Overhead services within the working vicinity?

Yes ☐

No ☐

(If yes complete Avoidance of Overhead Services - Permit to Work GEN-SFD 1051)

Competent Person.

Principal Contractor / Main Contractor / Client* (*delete as necessary)

Signed

Print

Company

Position

Date

Note: It is the responsibility of the Principal Contractor/ Client to ensure that the correct steps have been taken to avoid danger from underground services, as per the HSE Guidance Document HSG 47 - Avoiding Danger From Underground Services.

C - Hold Point		
C1	Have sections A-B been fully completed with the all the relevant details for each section provided to RB?	YES/ NO
C2	Has the PC/ Main Contractor/ Client fulfilled their duties by carrying out their own scan of the working area with a service locating device?	YES/ NO
C3	Have the RA/MS been reviewed to ensure all control measures are suitable and sufficient?	YES/ NO
C4	Can RB works safely progress?	YES/ NO

D - RB Secondary Investigation									
D1	a) Has the PC/Main Contractor/Client's Competent Person scanned the area defined above with a service locating device? Yes ☐ No ☐ If no, state reason why:-								
	b) Have RBL Carried out a secondary scan? Yes ☐ RBL must carry out a secondary scan before any works proceed.								
	c) Following the secondary scan, have the results mirrored the PC/Main Contractor/Client's findings? Yes ☐ No ☐ If NO do not proceed and inform the Principal Contractor of the findings. The Client/ Principal Contractor is required to investigate this further.								
	<u>RB scanning device details:-</u> <table border="1"> <thead> <tr> <th>Type of Device</th> <th>Serial Number</th> <th>Calibration Date</th> <th>Competent Person Name</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Type of Device	Serial Number	Calibration Date	Competent Person Name				
	Type of Device	Serial Number	Calibration Date	Competent Person Name					

E - Notes	

I declare that I have fully implemented the requirements set out in GEN-WID 1001 Rev H - Section 4.3.8 & certify that service plans have been inspected.

RBL Contracts Mgr./ Site Supervisor Sign & Print Date

I clearly understand the limits to the location of the work zone released by this Permit to Dig.	
Foreman:	Sign & Print Date
2nd Operative:	Sign & Print Date
3rd Operative:	Sign & Print Date
4th Operative:	Sign & Print Date