



Draft Bill of Quantities

Siteworks

September 2015

SITWORKS					
INFORMATION					
<u>Project information</u>					
Data pertaining to these quantities:-					
A	Total site area	145,942 m2	UNP		
B	Building footprint	70,106 m2	UNP		
C	Out buildings	35 m2	UNP		
D	Concrete service yard - pavement type A	28,703 m2	UNP		
E	Tarmac circulation road - pavement type B	5,507 m2	UNP		
F	Block car park bays - pavement type B	7,541 m2	UNP		
G	Paving slabs - Pavement type C	2,821 m2	UNP		
H	Concrete pallet store- pavement type E	2,348 m2	UNP		
J	Gravel - pavement type F	3,116 m2	UNP		
K	Pump house	44 m2	UNP		
L	Sprinklers	190 m2	UNP		
M	Transition slab	26 m2	UNP		
N	Flexible paving	113 m2	UNP		
				0	00

INFORMATION					
<u>Project information</u>					
Data pertaining to these quantities:-					
A	Condenser compound	29 m2	UNP		
B	Tarmac footpath	23 m2	UNP		
C	Tactile pavings	4 m2	UNP		
D	soft landscaping - grass/turf	2,418 m2	UNP		
E	Soft landscaping - planting	12,199 m2	UNP		
F	Soft landscaping - existing retained	10,719 m2	UNP		
Drawings used : Fairhurst 104703/2060 Rev -, 2021 Rev - 2040 Rev - 2041 Rev - 4700 Rev -, UMC T0001 Rev -, T0002 Rev -, T0011 Rev -, BEA 13-37-04 Rev B and 13-37-03 Rev C					
No allowance made for soft landscaping as per Basebuild tender specification 10.5.1					
D20: EXCAVATING AND FILLING					
<u>Excavating</u>					
Tree pits (4821 Nr) as drawing BEA 17-37-04 Rev B and 17-37-03 Rev C					
G	not exceeding 1m deep	3,616 m3	UNP		
<u>Disposal</u>					
Disposal of excavated material					
H	on or off site at contractors discretion	3,616 m3	UNP		
<u>Imported topsoil</u>					
				0	00

<p>D20: EXCAVATING AND FILLING</p> <p>Imported topsoil</p> <p>Filling to make up levels</p>					
A	150 thick; lawn mix	2,418 m2	UNP		
B	450 thick; planting	12,199 m2	UNP		
C	tree pits; 4821 nr	3,616 m3	UNP		
<p>L31: METAL STAIRS/WALKWAYS/ BALUSTRADES</p> <p><u>Ladders/ steps with landings and balustrades either side; in steel; galvanised; allow all associated work</u></p> <p>Dock access</p>					
D	1050 high approximately overall; 1nr top space landing 1500 x 2000	6 Nr	UNP		
E	1050 high approximately overall; 1nr top space landing 2750 x 2000	2 Nr	UNP		
<p>Q10: STONE/CONCRETE/BRICK/KERBS/ EDGINGS/CHANNELS</p> <p><u>Trief kerbs; Brett reference high containment kerb; bedding jointing and pointing in cement mortar (1:3); on plain in-situ concrete foundation</u></p> <p>Trief kerbs; ST4 concrete foundation and haunching; H20 dowel 300 long at 300 centres; formwork</p>					
F	415 x 380 kerb; 625 x 200 foundation; straight	875 m	UNP		
G	415 x 380 kerb; 625 x 200 foundation; radiussed	453 m	UNP		
H	Quadrant kerb; 90 degrees; external	4 Nr	UNP		
J	extra; transition kerb to HB2 profile	14 Nr	UNP		
				0	00

<p>Q10: STONE/CONCRETE/BRICK/KERBS/ EDGINGS/CHANNELS</p> <p><u>Precast concrete; wet press units; B.S.1340; Marshalls; bedding jointing and pointing in cement mortar (1:3); on plain in-situ concrete foundation</u></p> <p>Kerbs; rectangular section; bullnosed type BN; ST4 concrete foundation and haunching; formwork</p>					
A	125 x 150 kerb; 425 x 225 foundation; flush kerbs; straight	18 m	UNP		
<p>Kerbs; rectangular section; half battered type HB2 carriageway kerb; ST4 concrete foundation and haunching; formwork</p>					
B	127 x 254 x 914 kerb; 300 x 277 foundation; flush kerbs; straight	2,083 m	UNP		
C	127 x 254 x 914 kerb; 300 x 277 foundation; flush kerbs; radiussed	98 m	UNP		
D	250 x 250 x 255 quadrant kerb; 425 x 550 foundation	60 Nr	UNP		
E	extra; mitres	11 nr	UNP		
F	extra; abutment to existing kerb	2 nr	UNP		
G	extra; tapered kerbs	6 nr	UNP		
<p>Edgings; rectangular section; type EF / EBN; concrete foundation and haunching; formwork</p>					
H	50 x 150 x 914 edging; 200 x 150 foundation; straight	97 m	UNP		
<p>Q20: HARDCORE/GRANULAR/CEMENT BOUND BASES/SUB-BASES TO ROADS/ PAVINGS</p> <p><u>Granular material type 6F2 to be obtained off site</u></p> <p>Filling to make up levels</p>					
J	110 thick; tarmac circulation road	5,507 m2	UNP		
				0	00

Q20: HARDCORE/GRANULAR/CEMENT BOUND BASES/SUB-BASES TO ROADS/PAVINGS			
<u>Granular material type 6F2 to be obtained off site</u>			
Filling to make up levels			
A	150 thick; block park bays	7,541 m2	UNP
<u>Granular material type 1 to be obtained off site</u>			
Filling to make up levels; all thickness assumed			
B	150 thick; paving slabs	2,821 m2	UNP
C	150 thick; tarmac footpath	23 m2	UNP
D	150 thick; block park bays	7,541 m2	UNP
E	150 thick; tactile pavings	4 m2	UNP
F	150 thick; tarmac circulation road	5,507 m2	UNP
G	250 thick; flexible road	113 m2	UNP
H	250 thick; concrete service yard	28,703 m2	UNP
J	250 thick; concrete pallet store	2,348 m2	UNP
K	250 thick; gravel	3,116 m2	UNP
<u>Surface treatments</u>			
Compacting			
L	ground	50,998 m2	UNP
			0 00

	<p>Q20: HARDCORE/GRANULAR/CEMENT BOUND BASES/SUB-BASES TO ROADS/ PAVINGS</p> <p><u>Surface treatments</u></p> <p>Compacting</p>				
A	filling	23,410 m2	UNP		
B	filling; blinding with fine material	39,814 m2	UNP		
C	Geotextile membranes; Terram 1000 or similar approved generally; hardstanding areas; Assumed (Ignore if not required)	48,010 m2	UNP		
	<p>Q21: IN-SITU CONCRETE ROADS/PAVINGS/ BASES</p> <p><u>Plain in-situ concrete</u></p> <p>Blinding beds</p>				
D	50 thick; transition slab	1 m3	UNP		
	<p><u>Reinforced in-situ concrete: BS EN 206-1/BS 8500 designed mix ref C40: air entrained; 20 aggregate; minimum cement content *** kg/m3; vibrated</u></p> <p>Beds; sloping not exceeding 15 degrees</p>				
E	200 thick; concrete road and service yard - pavement type A	5,741 m3	UNP		
F	200 thick; concrete pallet store - pavement type E	2,348 m3	UNP		
G	Upstands (bund kerb); sloping not exceeding 15 degrees; Fairhurst drawing 104503/2021 Rev - detail 19 150 thick; pallet store	6 m3	UNP		
H	Beds; sloping not exceeding 15 degrees maximum 470 thick; transition slab	9 m3	UNP		
				0	00

<p>Q21: IN-SITU CONCRETE ROADS/PAVINGS/ BASES</p> <p>Formed joints</p> <p>Contraction joints (transverse anti-crack joints); 9.00m centres ASSUMED</p>					
A	in concrete depth 150 - 450; horizontal ASSUMED QUANTITY	3,318 m	UNP		
<p>Expansion joints; 4.50m centres ASSUMED</p>					
B	in concrete depth 150 - 450; horizontal ASSUMED QUANTITY	6,714 m	UNP		
<p>Isolation joint</p>					
C	in concrete depth 150 - 450; horizontal	3,427 m	UNP		
<p>Worked finish on in-situ concrete</p> <p>Tamped brushing with a serrated float or wire brush; trowelling margins 100 wide</p>					
D	surfaces to falls	28,729 m2	UNP		
<p>Membranes and geotextiles</p> <p>Polythene sheet; 1000 guage; 150 laps</p>					
E	over 300 wide; horizontal	28,729 m2	UNP		
F	not exceeding 300 wide; vertical	3,427 m	UNP		
<p>Q22: COATED MACADAM/ASPHALT ROADS/PAVINGS</p> <p>Coated macadam BS 4987; AC20 dense binder course 40/60, 60 thick; SMA 10 wearing course 6 nominal size aggregate, 30 thick; rolled with a 3-4 tonne roller; allow separate visits as necessary ASSUMED</p> <p>90 work on blinded hardcore base; to falls and crossfalls and slopes not exceeding 15 degrees from horizontal</p>					
G	pedestrian footway	23 m2	UNP		
H	extra; tying in detail and fair flush joint at abutment to existing macadam surfacing	3 m	UNP		
				0	00

	<p>Q22: COATED MACADAM/ASPHALT ROADS/PAVINGS</p> <p><u>Coated macadam BS 4987: AC32 base course 40/60, 100 thick; AC20 dense binder course 40/60, 60 thick; SMA 10 wearing course 6 nominal size aggregate, 30 thick; rolled with a 3-4 tonne roller; allow separate visits as necessary</u></p> <p>190 work on blinded hardcore base; to falls and crossfalls and slopes not exceeding 15 degrees from horizontal</p>				
A	car park circulation road - pavement type B	5,507 m2	UNP		
B	extra; tying in detail and fair flush joint at abutment to existing macadam surfacing	6 m	UNP		
	<p><u>Coated macadam BS 4987: AC32 base course 40/60, 180 thick; AC20 dense binder course 40/60, 60 thick; SMA 10 wearing course 6 nominal size aggregate, 30 thick; rolled with a 3-4 tonne roller; allow separate visits as necessary ASSUMED</u></p> <p>270 work on blinded hardcore base; to falls and crossfalls and slopes not exceeding 15 degrees from horizontal</p>				
C	flexible paving	113 m2	UNP		
D	extra; tying in detail and fair flush joint at abutment to existing macadam surfacing	14 m	UNP		
	<p>Q23: GRAVEL/HOGGIN ROADS/PAVINGS</p> <p><u>Self binding aggregate; to be obtained off site; 1 - 3 maximum size; rolled with 3 tonne roller</u></p> <p>50 work on blinded hardcore base; to falls and crossfalls and slopes not exceeding 15 degrees from horizontal</p>				
E	gravel	3,116 m2	UNP		
	<p>Q25: SLAB/BRICK/BLOCK/SETT/COBBLE PAVINGS</p> <p><u>Concrete block paving; Marshall reference *: colour - charcoal; * joints; herringbone pattern; covering with washed non-staining sand compacting with plate vibrator sweeping off surplus</u></p> <p>*** x *** x 60 thick units to footpath on sand base; ASSUMED SPECIFICATION</p>				
				0	00

<p>Q25: SLAB/BRICK/BLOCK/SETT/COBBLE PAVINGS</p> <p><u>Concrete block paving; Marshall reference *; colour - charcoal; * joints; herringbone pattern; covering with washed non-staining sand compacting with plate vibrator sweeping off surplus</u></p> <p>*** x *** x 60 thick units to footpath on sand base; ASSUMED SPECIFICATION</p>					
A	block car park bays	7,541 m2	UNP		
B	extra; raking cutting	2,158 m	UNP		
<p><u>Flag paving; * joints filled with dry mix (1:4); bedding in 25 sand:lime bed; brushing and watering in dry mix twice</u></p> <p>* x * x 50 units to pavings on concrete slab base; ASSUMED SPECIFICATION</p>					
C	50 thick; level and to falls only	2,821 m2	UNP		
D	extra; raking cutting	95 m	UNP		
E	extra; curved cutting	75 m	UNP		
<p><u>Tactile slab paving; colour - buff; * joints; bedding in 30 sand:lime bed; brushing and watering in dry mix twice</u></p> <p>400 x 400 x 65 thick units on and including 30 thick mortar bedding</p>					
F	65 thick; level and to falls only	4 m2	UNP		
<p>Q26: ROAD MARKINGS AND THE LIKE</p> <p><u>Line markings or contrasting block: to block sufacings</u></p> <p>White thermoplastic lining to BS 3262 Class A</p>					
G	solid lines; 100 wide	4,550 m	UNP		
<p>Yellow thermoplastic lining to BS 3262 Class A; ASSUMED</p>					
H	disabled logos	30 nr	UNP		
				0	00

<p>Q26: ROAD MARKINGS AND THE LIKE</p> <p><u>Line markings or contrasting block: to block surfacings</u></p> <p>Yellow thermoplastic lining to BS 3262 Class A; ASSUMED</p>					
A	hatching; to disabled parking bays	324 m2	UNP		
<p><u>Line markings: to concrete surfacings</u></p> <p>White thermoplastic lining to BS 3262 Class A</p>					
B	solid lines; 100 wide	3,075 m	UNP		
C	solid marking to pedestrian crossing; zebra style 10300 x 5000 on plan	1 nr	UNP		
D	generally; 100 wide single intermittent lines; 4000 mark/ 2000 gap	196 m	UNP		
E	generally; 100 wide single intermittent lines; 4000 mark/ 2000 gap; radiussed	64 m	UNP		
F	generally; 100 wide double intermittent lines; 4000 mark/ 2000 gap; radiussed	38 m	UNP		
G	directional; straight arrow; 4500 long	4 nr	UNP		
H	hatching; 6000 maximum width x 38000 maximum length	1 nr	UNP		
<p>Q40: FENCING</p> <p><u>Palladin security fence: setting posts in concrete foundations as manufacturers recommendations; pre- finished before delivery to site</u></p> <p>2400 high fencing</p>					
J	posts at * centres; straight	1,161 m	UNP		
K	posts at * centres; radiussed	114 m	UNP		
				0	00

	<p>Q40: FENCING</p> <p><u>Close boarded fence to pallet store; timber posts at * centres; setting posts in concrete foundations; backfilling holes with well compacted selected excavated material</u></p> <p>5000 high fencing</p> <p>A posts at *centres; straight 194 m UNP</p> <p>B extra; changes in directions 2 Nr UNP</p> <p>Q50: SITE/STREET FURNITURE/EQUIPMENT</p> <p><u>External bollards; fixing in accordance with manufacturers recommendations</u></p> <p>Bollards; * nominal diameter * thick CHS; capped; setting in steel sleeve; filling with concrete; site decoration with three coat paint system; alternate yellow / black stripes ASSUMED</p> <p>C 1150 high; fixing with bolts to concrete; drilling as necessary; external side of level access doors/bottom of steps 16 Nr UNP</p> <p><u>Cycle parking shelter; Broxap Ltd reference Wardale 6000 x 2140; hot dipped galvanised steel and polyester powder coated with toast rack support; root fixing into and including concrete foundation</u></p> <p>Allow all associated work</p> <p>D 6000 overall length x 2140 deep x * high 6 Nr UNP</p> <p><u>Cycle stands; Broxap reference *: hot dipped galvanised steel; submerged fixing into and including concrete foundation</u></p> <p>Allow all associated work</p> <p>E * wide x * high 36 Nr UNP</p> <p>Vehicle entry and exit barrier</p> <p>Drop down vehicle barrier; including all excavation, disposal, concrete foundations, formwork, base unit, arm and the like; allow all associated work</p> <p>F 11000 long approximately overall; to service yard entrance / exit 1 Nr UNP</p>					
					0	00

<p>Q50: SITE/STREET FURNITURE/EQUIPMENT</p> <p><u>Vehicle entry and exit barrier</u></p> <p>Drop down vehicle barrier; including all excavation, disposal, concrete foundations, formwork, base unit, arm and the like; allow all associated work</p>					
A	extra; fence to join gatehouse; * high	1 m	UNP		
B	13000 long approximately overall; to service yard entrance / exit	1 Nr	UNP		
C	extra; fence to join gatehouse; * high	7 m	UNP		
<p><u>External signage</u></p> <p>Road traffic signage</p>					
D	generally as required	1 Item	UNP		
<p>Directional and other signage</p>					
E	entrance / exit signs as required	1 Item	UNP		
<p>Tenant signage</p>					
F	generally as required	1 Item	UNP		
<p>Standard EU disabled parking sign to disabled parking bays</p>					
G	measured as 1nr per disabled parking bay	30 Nr	UNP		
<p>TRANSFORMER PLINTH</p> <p>Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS</p> <p><u>Substructure: as Fairhurst drawing 104503/2041 Rev -</u></p> <p>Allow for the following</p>					
H	level and compact ground	28 m2	UNP		
				0	00

Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS					
<u>Substructure: as Fairhurst drawing 104503/2041 Rev -</u>					
Allow for the following					
A	handpacking ground	11 m2	UNP		
B	level and compact filling	25 m2	UNP		
C	handpacking filling; blinding with fine material	11 m2	UNP		
D	sand backfill	22 m3	UNP		
E	gravel; 150 thick	22 m3	UNP		
F	reinforced concrete plinth; C35 mass concrete; 1050 thick	3 m3	UNP		
G	reinforced concrete in slab thickenings; Gen 3 mass concrete	9 m3	UNP		
H	plain formwork; edges of bed; 500 - 1000 high	22 m	UNP		
J	plain formwork; edges of bed; exceeding 1000 high	11 m2	UNP		
K	reinforcement mesh; A393; in beds ASSUMED (ignore if not required) (not shown on drawing)	3 m2	UNP		
L	trowel surfaces of unset concrete	3 m2	UNP		
M	polythene sheet; 1200 gauge; 150 laps	3 m2	UNP		
SPRINKLER TANKS SLABS (2NR)					
Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS					
				0	00

<p>Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS</p> <p><u>Substructure: as Fairhurst drawing 104503/2040 Rev -</u></p> <p>Allow for the following</p>					
A	level and compact ground	190 m2	UNP		
B	level and compact filling	380 m2	UNP		
C	Type 1 hardcore bed; 100 thick	190 m2	UNP		
D	6F2 hardcore bed; 300 thick	190 m2	UNP		
E	reinforced concrete in beds; * mix; 300 thick	57 m3	UNP		
F	plain formwork; edges of bed; 250 - 500 high	69 m	UNP		
G	reinforcement mesh; A393; in beds	380 m2	UNP		
H	trowel surfaces of unset concrete	190 m2	UNP		
J	polythene sheet; 1200 guage; 150 laps	190 m2	UNP		
<p>PUMP HOUSE SLAB</p> <p>Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS</p> <p><u>Substructure: as Fairhurst drawing 104503/2040 Rev -</u></p> <p>Allow for the following</p>					
K	level and compact ground	44 m2	UNP		
L	level and compact filling	88 m2	UNP		
				0	00

Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS

Substructure: as Fairhurst drawing 104503/2040 Rev -

Allow for the following

A	handpacking ground	13 m2	UNP		
B	Type 1 hardcore bed; 100 thick	44 m2	UNP		
C	6F2 hardcore bed; 300 thick	44 m2	UNP		
D	level and compact filling	88 m2	UNP		
E	handpacking filling	13 m2	UNP		
F	handpacking filling; blinding with fine material	13 m2	UNP		
G	reinforced concrete in beds; * mix; 150 thick	17 m3	UNP		
H	reinforced concrete in slab thickenings	8 m3	UNP		
J	plain formwork; edges of bed; not exceeding 250	27 m	UNP		
K	plain formwork; edges of bed; 250 - 500 high	33 m	UNP		
L	reinforcement mesh; A393; in beds	93 m2	UNP		
M	reinforcement bars; L bars at 200 centres	0.02 t	UNP		
N	trowel surfaces of unset concrete	44 m2	UNP		
				0	00

<p>Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS</p> <p><u>Substructure: as Fairhurst drawing 104503/2040 Rev -</u></p> <p>Allow for the following</p>					
A	polythene sheet; 1200 guage; 150 laps	44 m2	UNP		
<p>CONDENSER COMPOUND SLAB</p> <p>Q90: EXTERNAL ENCLOSURES / MINOR BUILDINGS</p> <p><u>Substructure</u></p> <p>Allow for the following</p>					
B	level and compact ground	29 m2	UNP		
C	level and compact filling	58 m2	UNP		
D	handpacking ground	11 m2	UNP		
E	Type 1 hardcore bed; 100 thick	29 m2	UNP		
F	6F2 hardcore bed; 300 thick	29 m2	UNP		
G	level and compact filling	29 m2	UNP		
H	handpacking filling	11 m2	UNP		
J	handpacking filling; blinding with fine material	11 m2	UNP		
K	reinforced concrete in beds; * mix; 150 thick	9 m3	UNP		
L	reinforced concrete in slab thickenings	6 m3	UNP		
				0	00

	<p>D20: EXCAVATING AND FILLING</p> <p>Surface treatments</p> <p>Compacting</p> <p>bottoms of excavations</p>	54 m2	UNP		
A					
	<p>E10: IN - SITU CONCRETE</p> <p>Plain in-situ concrete</p> <p>Blinding beds</p> <p>50 thick; transition slab</p>	3 m3	UNP		
B					
	<p>Reinforced in-situ concrete; B.S.5328; RC30 designed mix; 20 aggregate; minimum cement content *** kg/m3; vibrated; ASSUMED SPECIFICATION</p> <p>Foundations</p> <p>retaining wall base</p>	16 m3	UNP		
C					
	<p>Walls</p> <p>thickness 150 - 450</p>	23 m3	UNP		
D					
	<p>E20: FORMWORK FOR IN SITU CONCRETE</p> <p>Formwork; basic finish</p> <p>Edges of foundations; plain vertical</p> <p>height 250 - 500</p>	91 m	UNP		
E					
	<p>Walls</p> <p>plain vertical</p>	153 m2	UNP		
F					
	<p>Wall ends</p> <p>plain horizontal / vertical; 250 - 500 wide</p>	7 m	UNP		
G					
				0	00

	<p>E20: FORMWORK FOR IN SITU CONCRETE</p> <p>Formwork: basic finish</p> <p>Wall kickers; suspended</p>				
A	generally	45 m	UNP		
	<p>E30: REINFORCEMENT FOR IN-SITU CONCRETE</p> <p>Reinforcement fabric: B.S.4483 hard drawn plain round steel; welded</p> <p>Reference A393; 200 side laps 200 end laps ASSUMED</p>				
B	generally	108 m2	UNP		
	<p>Reinforcement bars: B.S.4449 hot rolled type 2 deformed high yield steel; 500N/mm2</p> <p>Straight and bent</p>				
C	any diameter; in walls; @ 150kg/m3 ASSUMED	3.44 t	UNP		
	<p>J40: FLEXIBLE SHEET TANKING/DAMP PROOF MEMBRANES</p> <p>Bituthene or similar approved tanking system to concrete retaining wall</p> <p>Tanking and damp proofing</p>				
D	girth exceeding 300; vertical	95 m2	UNP		
E	girth exceeding 300; horizontal	72 m2	UNP		
	<p>Q41: BARRIERS/GUARDRAILS</p> <p>Vehicle crash barriers; Armco; single galvanised steel rail and fittings; 79 x 308 corrugated section rail; posts; bolted connections ASSUMED</p> <p>Dock leveller retaining walls; allow all associated work (APPROXIMATE QUANTITY)</p>				
F	posts at 1250 centres	90 m	UNP		
G	extra; ends; fishtailed returns	4 Nr	UNP		
				0	00

	<p>Q41: BARRIERS/GUARDRAILS</p> <p><u>Vehicle crash barriers; Armco; single galvanised steel rail and fittings: 79 x 308 corrugated section rail; posts: bolted connections ASSUMED</u></p> <p>Dock leveller loading areas; allow all associated work (APPROXIMATE QUANTITY)</p>				
A	posts at 1250 centres	65 m	UNP		
B	extra; ends; fishtailed returns	130 Nr	UNP		
	<p>Q50: SITE/STREET FURNITURE/EQUIPMENT</p> <p><u>Stainless steel balustrade system; brushed finish 50 diameter handrail; bolt fixing to wall (M/E) ASSUMED</u></p> <p>Isolated balustrades</p>				
C	900 high; horizontal	45 m	UNP		
	<p>GATEHOUSE</p> <p>INFORMATION</p> <p><u>Measurement note</u></p> <p>drawing used: Fairhurst 104503/4700 Rev - and UMC 13046_#T0011 Rev - and T0040 Rev -</p> <p>D20: EXCAVATING AND FILLING</p> <p><u>Excavating</u></p> <p>Trenches; width exceeding 0.30m</p>				
D	maximum depth not exceeding 1.00m	6 m3	UNP		
E	<p>Contractors ground risk items; comprehensive allowances for any missing measurable items and all additional work required in respect of the following risks</p> <p>all risks; removal of obstructions; soft spots; services encountered; ground water</p> <p><u>Earthwork support</u></p> <p>Earthwork support; width between opposing faces in any category</p>	1 Item	UNP		
				0	00

	D20: EXCAVATING AND FILLING				
	Earthwork support				
	Earthwork support; width between opposing faces in any category				
A	maximum depth not exceeding 1m	46 m2	UNP		
	Disposal				
	Disposal of excavated material				
B	off site	6 m3	UNP		
C	extra for contaminated material; any type / grade	1 Item	UNP		
	Disposal of water				
D	surface water	1 Item	UNP		
	Surface treatments				
	Compacting				
E	bottoms of excavations	6 m2	UNP		
F	formations	26 m2	UNP		
G	filling; blinding with fine material	26 m2	UNP		
	Granular material; DOT type 1; clause 803; to be obtained off site				
	Filling to make up levels; depositing in layers 150 maximum thickness				
H	average thickness exceeding 0.25m	26 m3	UNP		
	Surface packing to filling				
J	to vertical or battered faces	7 m2	UNP		
				0	00

A	<p>E30: REINFORCEMENT FOR IN-SITU CONCRETE</p> <p><u>Reinforcement fabric; B.S.4483 hard drawn plain round steel; welded (no allowance made for laps)</u></p> <p>Reference A393; 6.16 kg/m2; 300 longitudinal laps; 300 side laps</p> <p>in beds</p>	72 m2	UNP		
B	<p>E41: WORKED FINISHES/CUTTING ON IN-SITU CONCRETE</p> <p><u>Worked finishes on in-situ concrete</u></p> <p>Trowelling</p> <p>surfaces</p>	36 m2	UNP		
C	<p>J40: FLEXIBLE SHEET TANKING/DAMP PROOF MEMBRANES</p> <p><u>Polythene sheet; 1200 guage; 300 laps; sealed joints - ASSUMED SPECIFICATION</u></p> <p>Tanking and damp proofing</p> <p>over 225 wide; horizontal</p>	26 m2	UNP		
D	<p>over 225 wide; raking</p>	7 m2	UNP		
E	<p>over 225 wide; vertical</p>	35 m2	UNP		
F	<p>Q10: STONE/CONCRETE/BRICK KERBS/EDGINGS/CHANNELS</p> <p><u>Trief kerbs; Brett reference high containment kerb; bedding jointing and pointing in cement mortar (1:3); on plain in-situ concrete foundation</u></p> <p>Trief kerbs; ST4 concrete foundation and haunching; H20 dowl 300 long at 300 centres; formwork</p> <p>380 x 415 nominal size; ref GST 2A; 600 x 200 base; haunching with 16 diameter x 300 long dowels at 450 centres</p>	28 m	UNP		
G	<p>Quadrant kerb; 90 degrees; external</p>	4 Nr	UNP		
				0	00

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