

## **Subcontractors Typical Sample - Groundworks Priced Bill of Quantities**

### **Labour & Plant Groundworks**

Ref	Description	Quantity	Units	Rate	Sub Total
	Excavating trenches; to receive pipes not exceeding 200 nominal size; disposing of surplus excavated material on site Commencing from reduced level; filling in above beds and surrounds with selected excavated materials				
1/1/A	average depth 500 - 750	141	m	£24.10	£ 3,398.10
1/1/B	average depth 750 - 1000	96	m	£28.60	£ 2,745.60
1/1/C	average depth 1000 - 1250	43	m	£34.30	£ 1,474.90
1/1/D	average depth 1250 - 1500	43	m	£39.80	£ 1,711.40
1/1/E	average depth 1500 - 1750	24	m	£41.40	£ 993.60
1/1/F	average depth 1750 - 2000	8	m	£52.95	£ 423.60
1/1/G	average depth 2000 - 2250	1	m	£59.78	£ 59.78
1/1/H	average depth 2250 - 2500	1	m	£73.35	£ 73.35
1/1/J	average depth 2500 - 2750	1	m	£80.85	£ 80.85
1/1/K	average depth 2750 - 3000	1	m	£88.35	£ 88.35
	Concrete; mix GEN 1 Beds and surrounds				
1/1/L	360 x 360; to 160 nominal pipe; vertical; formwork	2	m	£3.64	£ 7.28
1/1/M	500 x 300; to 110 nominal pipe (Provisional)	75	m	£3.64	£ 273.00
	Granular material; 10 nominal size; to be obtained off site Beds and surrounds				
1/1/N	500 x 310; to 110 nominal pipe	75	m	£1.90	£ 142.50
1/1/P	500 x 360; to 160 nominal pipe Commencing from reduced level; filling in above beds and surrounds with selected excavated materials	209	m	£1.90	£ 397.10
	Plain wall plastics pipework; upvc; Wavin Osma Drain; spigot and socket joints; R12/346 Pipework in trenches				
1/2/A	110 nominal size	150	m	£1.80	£ 270.00
1/2/B	extra; bends	31	nr	£2.10	£ 65.10
1/2/C	extra; branches 110 x 110 x 160	8	nr	£3.60	£ 28.80
1/2/D	extra; long radius bends	9	nr	£4.10	£ 36.90
1/2/E	extra; rest bends	2	nr	£4.10	£ 8.20
1/2/F	extra; coupler to SVP	2	nr	£3.00	£ 6.00
1/2/G	extra; rocker pipes	19	nr	£2.10	£ 39.90
1/2/H	160 nominal size	209	m	£2.00	£ 418.00
1/2/J	160 nominal size; vertical	2	m	£4.10	£ 8.20
1/2/K	extra; rocker pipes	22	nr	£2.50	£ 55.00
	Accessories Floor drains; to architects approval				
1/2/L	110 nominal outlet	3	nr	£12.00	£ 36.00
	Marker tape; R12/379				
1/2/M	laying loose in trench	359	m	£0.20	£ 71.80
	Plastics accessories Gullies; joint to pipe, bedding and surrounding in concrete; GEN 1 mix				
1/2/N	110 outlet; Wavin Osma drain bottle gulley; ductile iron sealed access cover; R12/315	8	nr	£19.60	£ 156.80
	Connectors; joint pipe and fitting				
1/2/P	110 nominal size; Wavin plastic; R12/311	19	nr	£3.00	£ 57.00
	average depth 500 - 750 Rodding eyes				
1/3/A	110 nominal size; Wavin plastic; sealed access plate; R12/371 R12 DRAINAGE BELOW GROUND - FOUL WATER INSPECTION CHAMBERS 13NR Excavating	1	nr	£9.60	£ 9.60

	Pits					
1/3/B	1 m maximum depth	2	m3	£9.20	£	18.40
1/3/C	2 m maximum depth	14	m3	£9.20	£	128.80
1/3/D	4 m maximum depth	7	m3	£9.20	£	64.40
	Earthwork support: curved					
	maximum depth not exceeding 1 m; distance between					
1/3/E	opposing faces not exceeding 2 m	11	m2	£1.60	£	17.60
	maximum depth not exceeding 2 m; distance between					
1/3/F	opposing faces not exceeding 2 m	34	m2	£2.60	£	88.40
	maximum depth not exceeding 4 m; distance between					
1/3/G	opposing faces not exceeding 2 m	17	m2	£2.60	£	44.20
	Working space allowance to excavations; including additional					
	earthwork support, disposal and backfilling with selected					
	excavated material					
1/3/H	inspection chambers	45	m2	£6.50	£	292.50
	Granular material; 10mm single size aggregate; to be					
	obtained off site					
	Beds					
1/3/J	not exceeding 250 thick	1	m3	£6.00	£	6.00
	Backfilling excavations					
1/3/K	not exceeding 250 wide	2	m3	£6.00	£	12.00
	average depth 750 - 1000					
	Plastics standard units; polypropylene inspection chamber					
	Chamber; Wavin Osma universal inspection chamber PPIC;					
	multiple entry base; shaft; concrete collar; R12/401					
1/4/A	450 diameter; not exceeding 1000 deep to invert	7	nr	£48.00	£	336.00
1/4/B	extra; cast iron cover and seating; type A; R12/471	3	nr	£18.00	£	54.00
1/4/C	extra; cast iron cover and seating; type B; R12/472	4	nr	£18.00	£	72.00
1/4/D	450 diameter; not exceeding 2000 deep to invert	2	nr	£96.00	£	192.00
1/4/E	extra; cast iron cover and seating; type B; R12/472	2	nr	£18.00	£	36.00
	Surface treatments					
	Compacting bottoms of excavations					
1/4/F	generally	14	m2	£0.60	£	8.40
	Disposal of excavated material					
1/4/G	on site	23	m3	£2.50	£	57.50
	Plain insitu concrete; Bs 8500-1 GEN 1; R12/483					
	Beds					
	150 to 450 thick; poured on or against earth or unblinded					
1/4/H	hardcore	2	m3	£19.60	£	39.20
	Plain insitu concrete; sulphate resistant; Bs 8500-1 GEN 1;					
	R12/483					
	Surrounds to chambers					
	not exceeding 150 thick; poured on or against earth or					
1/4/J	unblinded hardcore	9	m3	£45.00	£	405.00
	average depth 1000 - 1250					
	Benchings in bottoms 150 maximum thickness; cement and					
	sand (1:3) topping 20 thick; smooth trowelling and shaping to					
	channels					
1/5/A	1200 diameter	4	nr	£39.00	£	156.00
	Formwork with basic finish at the discretion of the Contractor					
	Surrounds; curved on plan					
1/5/B	generally; not exceeding 3 m high	45	m2	£22.00	£	990.00
	Precast concrete; standard or stock pattern units, Bs 5911;					
	joining and pointing in cement mortar (1:3); R12/407					
	Chamber or shaft sections					
1/5/C	1200 internal diameter	8	m	£30.00	£	240.00
1/5/D	cutting holes for 100/110 diameter pipe; making good	4	nr	£12.00	£	48.00
1/5/E	cutting holes for 160 diameter pipe; making good	11	nr	£12.00	£	132.00
	Cover slabs; 200 thick					
	for chamber or shaft sections 1200 diameter, access opening					
1/5/F	600 x 600	4	nr	£24.00	£	96.00

	Semi-engineering bricks; BS 3921 class B, 215 x 102.5 x 65; in cement mortar (1:3); flush smooth pointing as work proceeds					
1/5/G	Dwarf walls 215 thick; english bond; facework one side average depth 1250 - 1500 Standard units	2	m2	£50.00	£	100.00
1/6/A	Access covers and frames; BS EN 124; bedding frames in cement mortar (1:3) and covers in grease and sand type D; R12/474 Channels in bottoms; vitrified clay; bedding and jointing in cement mortar (1:3) Half section	4	nr	£28.40	£	113.60
1/6/C	160 curved; 1100 effective length	2	nr	£14.60	£	29.20
1/6/D	160 straight; 1100 effective length	2	nr	£14.60	£	29.20
1/6/E	160 branch junction Three quarter sections	1	nr	£3.90	£	3.90
1/6/F	110 branch bend R12 DRAINAGE BELOW GROUND - FOUL WATER OUTSIDE BOUNDARY OF SITE; ALL PROVISIONAL	4	nr	£3.60	£	14.40
	Excavating trenches; to receive pipes not exceeding 200 nominal size; disposing of surplus excavated material on site Commencing from reduced level; filling in above beds and surrounds with selected excavated materials					
1/6/G	average depth 500 - 750	11	m	£24.10	£	265.10
1/6/H	average depth 750 - 1000	7	m	£28.60	£	200.20
1/6/J	average depth 1000 - 1250	7	m	£34.30	£	240.10
1/6/K	average depth 1250 - 1500	23	m	£39.80	£	915.40
1/6/L	average depth 1500 - 1750 average depth 1500 - 1750 Granular material; 10 nominal size; to be obtained off site Beds and surrounds	27	m	£41.40	£	1,117.80
1/7/A	500 x 360 to 160 nominal pipe Plain wall plastics pipework; upvc; Wavin Osma Drain; spigot and socket joints; R12/346 Pipework in trenches	75	m	£1.90	£	142.50
1/7/B	160 nominal size Accessories Marker tape; R12/379	75	m	£2.10	£	157.50
1/7/C	laying loose in trench Connections to existing	75	m	£0.32	£	24.00
1/7/D	Locate existing foul water main; breaking into; excavate and construct new 1200 diameter precast concrete manhole; with concrete bed under; concrete and mortar benching; form new channel and branch bend; precast cover slabs, brickwork and type D cover; maintain flow; complete not exceeding 2 m deep R12 DRAINAGE BELOW GROUND - FOUL WATER INSPECTION CHAMBERS - 5NR; OUTSIDE BOUNDARY OF SITE; ALL PROVISIONAL Excavating Pits	1	IT	£750.00	£	750.00
1/7/E	1 m maximum depth	7	m3	£9.20	£	64.40
1/7/F	2 m maximum depth Earthwork support: curved maximum depth not exceeding 1 m; distance between opposing faces not exceeding 2 m	5	m3	£9.20	£	46.00
1/7/G	average depth 1750 - 2000 maximum depth not exceeding 2 m; distance between opposing faces not exceeding 2 m	12	m2 m	£1.60	£	19.20
1/8/A	maximum depth not exceeding 2 m	12	m2	£2.60	£	31.20

	Working space allowance to excavations; including additional earthwork support, disposal and backfilling with selected excavated material					
1/8/B	inspection chambers Granular material; 10mm single size aggregate; to be obtained off site	12	m2	£6.50	£	78.00
1/8/C	Beds not exceeding 250 thick	1	m3	£6.00	£	6.00
1/8/D	Backfilling excavations not exceeding 250 wide	1	m3	£6.00	£	6.00
1/8/E	Plastics standard units; polypropylene inspection chamber Chamber; Wavin Osma universal inspection chamber PPIC; multiple entry base; shaft; concrete collar; R12/401	1	nr	£48.00	£	48.00
1/8/F	450 diameter; not exceeding 1000 deep to invert extra; cast iron cover and seating; type A; R12/471	1	nr	£18.00	£	18.00
1/8/G	450 diameter; not exceeding 2000 deep to invert	2	nr	£96.00	£	192.00
1/8/H	extra; cast iron cover and seating; type B; R12/472	2	nr	£18.00	£	36.00
1/8/J	Surface treatments Compacting bottoms of excavations generally	6	m2	£0.60	£	3.60
1/8/K	Disposal of excavated material on site average depth 2000 - 2250	12	m3	£2.50	£	30.00
1/9/A	Plain insitu concrete; Bs 8500-1 GEN 1; R12/483 Beds 150 to 450 thick; poured on or against earth or unblinded hardcore	12	m3	£19.60	£	235.20
1/9/B	Plain insitu concrete; sulphate resistant; Bs 8500-1 GEN 1; R12/483 Surrounds to chambers not exceeding 150 thick; poured on or against earth or unblinded hardcore	5	m3	£45.00	£	225.00
1/9/C	Benchings in bottoms 150 maximum thickness; cement and sand (1:3) topping 20 thick; smooth trowelling and shaping to channels 1200 diameter	2	nr	£39.00	£	78.00
1/9/D	Formwork with basic finish at the discretion of the Contractor Surrounds; curved on plan generally; not exceeding 3 m high	12	m2	£22.00	£	264.00
1/9/E	Precast concrete; standard or stock pattern units, Bs 5911; joining and pointing in cement mortar (1:3); R12/407	4	m	£30.00	£	120.00
1/9/F	Chamber or shaft sections 1200 internal diameter cutting holes for 160 diameter pipe; making good	4	nr	£12.00	£	48.00
1/9/G	Cover slabs; 200 thick for chamber or shaft sections 1200 diameter, access opening 600 x 600 average depth 2250 - 2500	2	nr	£24.00	£	48.00
1/10/A	Semi-engineering bricks; BS 3921 class B, 215 x 102.5 x 65; in cement mortar (1:3); flush smooth pointing as work proceeds Dwarf walls 215 thick; english bond; facework one side	1	m2	£50.00	£	50.00
1/10/C	Standard units Access covers and frames; BS EN 124; bedding frames in cement mortar (1:3) and covers in grease and sand type D; R12/474	2	nr	£28.40	£	56.80
1/10/D	Channels in bottoms; vitrified clay; bedding and jointing in cement mortar (1:3) Half section 160 curved; 1100 effective length	1	nr	£5.00	£	5.00
1/10/E	160 straight; 1100 effective length	1	nr	£5.00	£	5.00

R12 DRAINAGE BELOW GROUND - SURFACE WATER						
Excavating trenches; disposing of surplus excavated material on site						
Commencing from reduced level						
1/10/F	average depth 250 - 500	155	m	£12.80	£	1,984.00
Commencing from reduced level; filling above measured elsewhere						
1/10/G	average depth 250 - 500	23	m	£12.80	£	294.40
average depth 2500 - 2750						
Excavating trenches; to receive pipes not exceeding 200 nominal size; disposing of surplus excavated material on site						
Commencing from reduced level; filling in above 500 beds and surrounds with selected excavated materials						
1/11/A	average depth 500 - 750	169	m	£24.10	£	4,072.90
1/11/B	average depth 750 - 1000	82	m	£28.60	£	2,345.20
1/11/C	average depth 1000 - 1250	60	m	£34.30	£	2,058.00
1/11/D	average depth 1250 - 1500	67	m	£39.80	£	2,666.60
1/11/E	average depth 1500 - 1750	35	m	£41.40	£	1,449.00
1/11/F	average depth 1750 - 2000	18	m	£52.95	£	953.10
1/11/G	average depth 2000 - 2250	3	m	£59.78	£	179.34
Breaking out existing materials; extra over excavating trenches; irrespective of depth						
1/11/H	rock (Provisional)	12	m3	£29.00	£	348.00
Granular material; 10 nominal size; to be obtained off site						
Beds and surrounds						
1/11/J	500 x 310 to 110 nominal pipe	230	m	£1.90	£	437.00
1/11/K	500 x 360 to 160 nominal pipe	177	m	£2.10	£	371.70
Beds and surrounds; drainage fabric wrapping						
1/11/L	400 x 300; to 100 nominal pipe	23	m	£3.10	£	71.30
Concrete; mix GEN 1						
Beds and surrounds						
1/11/M	500 x 300 to 160 nominal pipe (Provisional)	28	m	£3.90	£	109.20
average depth 2750 - 3000						
Plain wall plastics pipework; upvc; Wavin Osma Drain; spigot and socket joints; R12/346						
Pipework in trenches						
1/12/A	110 nominal size	258	m	£1.90	£	490.20
1/12/B	extra; bends	83	nr	£2.10	£	174.30
1/12/C	extra; branches 110 x 110 x 110	35	nr	£3.60	£	126.00
1/12/D	extra; branches 110 x 110 x 160	13	nr	£4.60	£	59.80
1/12/E	extra; rocker pipes	9	nr	£1.90	£	17.10
1/12/F	160 nominal size	177	m	£2.00	£	354.00
1/12/G	extra; rocker pipes	32	nr	£2.10	£	67.20
Perforated plastics pipework; upvc; Osma Wavin corrugated; R16/340						
Pipework in trenches						
1/12/H	100 nominal size	13	m	£1.90	£	24.70
Perforated plastics pipework; upvc Osma drain slotted pipe; R16/345						
Pipework in trenches						
1/12/J	110 nominal size	10	m	£1.90	£	19.00
Accessories						
Marker tape; R12/379						
1/12/K	laying loose in trench	458	m	£0.32	£	146.56
Silt trap; joint to pipe; bedding and surrounding in concrete; GEN 1 mix						
1/12/L	110 outlet; Osma silt trap; R16/350	3	nr	£19.60	£	58.80
rainwater pipe access gully; Wavin Osma bottle gully; with grating; bedding and surrounding in concrete, mix GEN 1; 110 outlet						
1/12/M	Concrete; mix GEN 1	15	nr	£12.00	£	180.00

1/13/A	yard gulley; Wavin Osma; with grating and silt bucket; bedding and surrounding in concrete, mix GEN 1; 110 outlet; R12/316	5	nr	£19.60	£	98.00
1/13/B	rodding eye; Wavin Osma; R12/371	9	nr	£9.60	£	86.40
1/13/C	Drainage channels and fittings; aco drain; Q10/170 Channel and grating; bedding and supporting in plain insitu concrete GEN 1 channel with grating	21	m	£18.00	£	378.00
1/13/D	outlets; connecting to 110 pipe	13	nr	£6.00	£	78.00
1/13/E	sumps units	13	nr	£26.40	£	343.20
1/13/F	stop ends	26	nr	£6.00	£	156.00
1/13/G	Drainage channels and fittings; Marshalls Biro; R10/181 Channel and grating; bedding and supporting in plain insitu concrete GEN 1 channel with heelsure grating	126	m	£18.00	£	2,268.00
1/13/H	outlets; connecting to 110 pipe	15	nr	£6.00	£	90.00
1/13/J	sumps units (Provisional)	14	nr	£26.40	£	369.60
1/13/K	stop ends	14	nr	£6.00	£	84.00
1/13/L	angles	3	nr	£6.00	£	18.00
1/13/M	Drainage channels and fittings; Marshalls Birco Lite; R10/180 Channel and grating; bedding and supporting in plain insitu concrete GEN 1 channel with heelsure grating	8	m	£18.00	£	144.00
1/13/N	outlets; connecting to 110 pipe	4	nr	£6.00	£	24.00
1/13/P	sumps units	4	nr	£26.40	£	105.60
1/13/Q	stop ends	8	nr	£6.00	£	48.00
1/14/A	Beds and surrounds R12 DRAINAGE BELOW GROUND - SOAKAWAYS 2NR Excavating Soakaways 1 m maximum depth	40	m3	£9.20	£	368.00
1/14/B	5 m maximum depth	82	m3	£9.20	£	754.40
1/14/C	Disposal of excavated material on site	90	m3	£2.50	£	225.00
1/14/D	selected; backfilling excavations	31	m3	£6.00	£	186.00
1/14/E	Breaking out existing materials; extra over any type of excavations irrespective of depth rock (Provisional) Earthwork support maximum depth not exceeding 2 m; distance between opposing faces not exceeding 2 m	12	m3	£29.00	£	348.00
1/14/F	maximum depth not exceeding 6 m; distance between opposing faces not exceeding 2 m	50	m2	£2.60	£	130.00
1/14/G	Working space allowance to excavations; including additional earthwork support, disposal and backfilling with selected excavated material	109	m2	£5.20	£	566.80
1/14/H	inspection chambers; (Provisional) Granular material; R17/355	53	m2	£6.50	£	344.50
1/14/J	Backfilling excavations exceeding 250 thick	74	m3	£6.00	£	444.00
1/14/K	Terram wrapping fabric; no allowance for laps; in accordance with manufacturers instructions; R17/360 generally over 300 girth 360 x 360; to 160 nominal pipe; vertical; formwork Surface treatments Grading, compacting	212	m2	£0.50	£	106.00
1/15/A	bottoms of excavations	50	m2	£0.50	£	25.00
1/15/B	surfaces of filling Plain insitu concrete; GEN 3; R17/615 Beds 150 to 450 thick; poured on or against earth or unblinded hardcore	50	m2	£0.50	£	25.00
1/15/C		4	m3	£19.60	£	78.40

1/15/D	Surrounds to chambers not exceeding 300 thick	5	m3	£45.00	£	225.00
1/15/E	Formwork with basic finish at the discretion of the Contractor Surrounds; curved on plan generally; not exceeding 2 m high	21	m2	£22.00	£	462.00
1/15/F	generally; not exceeding 5 m high Precast concrete; standard or stock pattern units, Bs 5911; joining and pointing; R17/310 Chamber or shaft sections 1500 internal diameter	32	m2	£22.00	£	704.00
1/15/G	cutting holes for 160 diameter pipe; making good	8	m	£35.00	£	280.00
1/15/H	Cover slabs; 200 thick for chamber or shaft sections 1500 diameter, access opening 600 x 600	8	nr	£12.00	£	96.00
1/15/J	500 x 300; to 110 nominal pipe (Provisional)	3	nr	£24.00	£	72.00
1/16/A	Semi-engineering bricks; BS 3921 class B, 215 x 102.5 x 65; in cement mortar (1:3); flush smooth pointing as work proceeds Dwarf walls 215 thick; english bond; facework one side Standard units Access covers and frames; BS EN 124; bedding frames in cement mortar (1:3) and covers in grease and sand	1	m2	£50.00	£	50.00
1/16/C	type C; R12/473	1	nr	£28.40	£	28.40
1/16/D	type D; R12/474 Perforated plastics pipework; upvc; Osma drain slotted pipe; R17/350 Pipework laying in fill 160 nominal size	2	nr	£28.40	£	56.80
1/16/E	Polypropylene prefabricated inspection chambers; R17/330 Inspection chambers; surrounding in insitu concrete GEN 3 mix; concrete collar; setting in fill; R17/330, 635 225 diameter x 1100 deep to invert; branches; ductile iron cover and frame	33	m	£2.00	£	66.00
1/16/F	225 diameter x 4900 deep to invert; branches; ductile iron cover and frame	3	nr	£45.00	£	135.00
1/16/G	Granular material; 10 nominal size; to be obtained off site R12 DRAINAGE BELOW GROUND - SURFACE WATER INSPECTION CHAMBERS 14 NR Excavating Pits	2	nr		£	-
1/17/A	1 m maximum depth	2	m3	£12.00	£	24.00
1/17/B	2 m maximum depth	21	m3	£12.00	£	252.00
1/17/C	4 m maximum depth Earthwork support: curved maximum depth not exceeding 1 m; distance between opposing faces not exceeding 2 m	5	m3	£12.00	£	60.00
1/17/D	maximum depth not exceeding 2 m; distance between opposing faces not exceeding 2 m	10	m2	£1.60	£	16.00
1/17/E	maximum depth not exceeding 4 m; distance between opposing faces not exceeding 2 m	51	m2	£2.60	£	132.60
1/17/F	Working space allowance to excavations; including additional earthwork support, disposal and backfilling with selected excavated material	12	m2	£5.20	£	62.40
1/17/G	inspection chambers Granular material; 10mm single size aggregate; to be obtained off site Beds	74	m2	£6.50	£	481.00
1/17/H	not exceeding 250 thick Backfilling excavations	1	m3	£6.00	£	6.00
1/17/J	not exceeding 250 wide Beds and surrounds	2	m3	£6.00	£	12.00

	Plastics standard units; polypropylene inspection chamber Chamber; Wavin Osma universal inspection chamber PPIC; multiple entry base; shaft; concrete collar; R12/401					
1/18/A	450 diameter; not exceeding 1000 deep to invert	6	nr	£48.00	£	288.00
1/18/B	extra; cast iron cover and seating; type A; R12/471	1	nr	£18.00	£	18.00
1/18/C	extra; cast iron cover and seating; type B; R12/472	5	nr	£18.00	£	90.00
1/18/D	450 diameter; not exceeding 2000 deep to invert	2	nr	£96.00	£	192.00
1/18/E	extra; cast iron cover and seating; type A; R12/471	2	nr	£18.00	£	36.00
	Surface treatments					
	Compacting bottoms of excavations					
1/18/F	generally	19	m2	£0.50	£	9.50
	Disposal of excavated material					
1/18/G	on site	28	m3	£2.50	£	70.00
	Plain insitu concrete; Bs 8500-1 GEN 1; R12/483					
	Beds					
1/18/H	150 to 450 thick; poured on or against earth or unblinded hardcore	3	m3	£19.60	£	58.80
	Plain insitu concrete; sulphate resistant; Bs 8500-1 GEN 1; R12/483					
	Surrounds to chambers					
1/18/J	not exceeding 150 thick; poured on or against earth or unblinded hardcore	12	m3	£45.00	£	540.00
	500 x 310; to 110 nominal pipe					
	Benchings in bottoms 150 maximum thickness; cement and sand (1:3) topping 20 thick; smooth trowelling and shaping to channels					
1/19/A	1200 diameter	6	nr	£39.00	£	234.00
	Formwork with basic finish at the discretion of the Contractor					
	Surrounds; curved on plan					
1/19/B	generally; not exceeding 3 m high	74	m2	£22.00	£	1,628.00
	Precast concrete; standard or stock pattern units, Bs 5911; joining and pointing in cement mortar (1:3); R12/407					
	Chamber or shaft sections					
1/19/C	1200 internal diameter	10	m	£30.00	£	300.00
1/19/D	cutting holes for 100/110 diameter pipe; making good	8	nr	£12.00	£	96.00
1/19/E	cutting holes for 160 diameter pipe; making good	14	nr	£12.00	£	168.00
	Cover slabs; 200 thick					
1/19/F	for chamber or shaft sections 1200 diameter, access opening 600 x 600	6	nr	£24.00	£	144.00
	Semi-engineering bricks; BS 3921 class B, 215 x 102.5 x 65; in cement mortar (1:3); flush smooth pointing as work proceeds					
	Dwarf walls					
1/19/G	215 thick; english bond; facework one side	2	m2	£50.00	£	100.00
	500 x 360; to 160 nominal pipe					
	Standard units					
	Access covers and frames; BS EN 124; bedding frames in cement mortar (1:3) and covers in grease and sand					
1/20/A	type D; R12/474	5	nr	£28.40	£	142.00
1/20/B	type A; R12/471	1	nr	£28.40	£	28.40
	Channels in bottoms; vitrified clay; bedding and jointing in cement mortar (1:3)					
	Half section					
1/20/C	160 curved; 1100 effective length	2	nr	£14.60	£	29.20
1/20/D	160 straight; 1100 effective length	4	nr	£14.60	£	58.40
1/20/E	160 branch junction	3	nr	£3.90	£	11.70
	Three quarter sections					
1/20/F	110 branch bend	5	nr	£14.60	£	73.00
1/20/G	reducer 160 - 110	1	nr	£5.00	£	5.00
	R12 DRAINAGE BELOW GROUND - ALL SECTIONS					
	Disposal					
	Surface water					



1/20/H	generally Ground water	1	IT	£250.00	£	250.00
1/20/J	generally Testing and commissioning; R12/901 - 980 Drain system	1	IT	£250.00	£	250.00
1/20/K	as work proceeds	1	IT	£750.00	£	750.00
1/20/L	on completion; including CCTV Plain wall plastics pipework; upvc; Wavin Osma Drain; spigot and socket joints; R12/346 Generally Maintain existing drainage system in operation during the course of the works; leaving clear and unrestricted	1	IT		BY OTHERS	
1/21/A	on completion of the works Pipework in trenches D20 EXCAVATING AND FILLING Excavating; starting at strip level To reduce levels	1	IT	£500.00	£	500.00
2/1/A	1 m maximum depth Pits	116	m3	£2.20	£	255.20
2/1/B	1 m maximum depth; in 1 nr Trenches exceeding 300 wide	1	m3	£12.00	£	12.00
2/1/C	1 m maximum depth	158	m3	£9.20	£	1,453.60
2/1/D	1 m maximum depth; curved on plan	4	m3	£9.20	£	36.80
2/1/E	2 m maximum depth Excavating; Starting at hardcore level Trenches not exceeding 300 wide	6	m3	£9.20	£	55.20
2/1/F	0.25 m maximum depth Breaking out existing materials; extra over any type of excavation irrespective of depth	8	m3	£9.20	£	73.60
2/1/G	rock (Provisional) Earthwork support To faces of excavation	20	m3	£29.00	£	580.00
2/1/H	1 m maximum depth; distance between opposing faces not exceeding 2 m 1 m maximum depth; distance between opposing faces not	599	m2	£2.60	£	1,557.40
2/1/J	exceeding 2 m; curved Disposal Surface water	14	m2	£2.60	£	36.40
2/1/K	generally Accessories Ground water	1	IT	£250.00	£	250.00
2/2/A	generally Excavated material	1	IT	£250.00	£	250.00
2/2/B	on site Granular material; D20/710 Filling to make up levels	279	m3	£2.50	£	697.50
2/2/C	not exceeding 200 average thick Herbicides Applying to surfaces	68	m3	£6.00	£	408.00
2/2/D	generally Surface treatments Compacting ground	912	m2	£0.30	£	273.60
2/2/E	generally Compacting filling; blinding with sand	453	m2	£0.50	£	226.50
2/2/F	generally Grading and compacting ground	453	m2	£0.50	£	226.50
2/2/G	generally Compacting bottoms of excavations	459	m2	£0.50	£	229.50
2/2/H	generally Forming batters in fill	226	m2	£0.50	£	113.00
2/2/J	not exceeding 300 wide Floor drains; to architects approval	108	m	£5.00	£	540.00

D21 GROUND GAS COLLECTING AND VENTING SYSTEMS; CONTRACTORS DESIGN Excavating trenches; to receive pipes not exceeding 200 nominal size; dispose of surplus excavated material on site Commencing at hardcore level						
2/3/A	average depth 250 - 500 Pipework; Osma drain pipe Pipework in trenches	109	m	£16.10	£	1,754.90
2/3/B	110 nominal size	109	m	£1.80	£	196.20
2/3/C	extra; bends	4	nr	£2.10	£	8.40
2/3/D	extra; air bricks; building in; F30/161 Filling type W granular material	4	nr	£3.00	£	12.00
2/3/E	500 x 500 to 110 nominal pipe Gas collection sump; D21/110 Brickwork, F30/161; header pipework, D21/340	109	m	£1.90	£	207.10
2/3/F	600 x 600 x 225 deep E10 MIXING / CASTING / CURING INSITU CONCRETE Plain insitu concrete; mix Gen 1 Beds	4	nr	£50.00	£	200.00
2/3/G	Not exceeding 150 thick Filling hollow walls	23	m3	£19.60	£	450.80
2/3/H	Not exceeding 150 thick Plain insitu concrete; mix C30 Foundations	17	m3	£45.00	£	765.00
2/3/J	generally Pads	154	m3	£8.60	£	1,324.40
2/3/K	1000 x 1000 x 700 110 nominal outlet Reinforced insitu concrete; mix C30 Beds	1	nr	£20.00	£	20.00
2/4/A	not exceeding 150 thick E30 REINFORCEMENT FOR IN SITU CONCRETE	76	m3	£19.60	£	1,489.60
2/4/F	Reinforcement; BS4483; hard drawn plain round steel; welded A193; 3.02 kg/m2; 250 side laps; 250 end laps generally E40 DESIGN JOINTS FOR INSITU CONCRETE Joints	453	m2	£1.80	£	815.40
2/4/G	Designed; drawing 4088/03/C, section Y-Y in concrete; depth not exceeding 150 deep; horizontal (Provisional)	32	m	£15.00	£	480.00
2/4/H	Designed; drawing 4088/03/C, section X X in concrete; depth not exceeding 150 deep; horizontal (Provisional) Marker tape; R12/379 E41 WORKED FINISHES / CUTTING TO IN SITU CONCRETE Worked finishes on insitu concrete Trowelling	35	m	£15.00	£	525.00
2/5/A	generally laying loose in trench J40 FLEXIBLE SHEET TANKING / DAMP PROOFING Gas tight DPM; J40/120; no allowance for laps Damp proofing	453	m2	£6.50	£	2,944.50
2/6/R	flat Plastics accessories E60 PRECAST / COMPOSITE CONCRETE DECKING Steel galvanised Straps	924	m2	£0.30	£	277.20
3/1/E	30 x 5 x 1500 girth flat section; bends - 2; fixing to concrete (Provisional) 160 nominal size; vertical D20 EXCAVATING AND FILLING	128	nr	BY OTHERS		

	Site preparation					
4/1/A	Removing existing farm gate and posts; approx 4m wide	2	nr	£40.00	£	80.00
4/1/B	trough	1	nr	£20.00	£	20.00
4/1/C	Removing hedge bank; including bushes, trees; grubbing out roots; dispose off site average width 2600	167	m	£15.80	£	2,638.60
4/1/D	Carefully move existing road side hedge bank to form visibility splay maximum distance one end approx 6m, minimum distance one end not exceeding 1m	66	m	£19.44	£	1,283.04
4/1/E	Clearing site vegetation generally	7682	m2	£0.95	£	7,297.90
4/1/F	Excavating Top soil for preservation in spoil heaps on site 200 average depth To reduce levels	1536	m3	£1.50	£	2,304.00
4/1/G	0.25 m maximum depth	30	m3	£2.10	£	63.00
4/1/H	1 m maximum depth	655	m3	£2.10	£	1,375.50
4/1/J	2 m maximum depth	217	m3	£2.10	£	455.70
4/1/K	Disposal Surface water generally 110 outlet; Wavin Osma drain bottle gully; ductile iron sealed access cover; R12/315	1	IT	£200.00	£	200.00
4/2/A	Ground water generally	1	IT	£200.00	£	200.00
4/2/B	Excavated topsoil off site (Provisional)	695	m3	£24.00	£	16,680.00
4/2/C	Selected excavated material Filling to make up levels; in layers not exceeding 250 average thick	115	m3	£6.00	£	690.00
4/2/D	over 250 average thick	1368	m3	£6.00	£	8,208.00
4/2/E	Top soil from spoil heaps Filling to make up levels; in layers over 250 average thick	1028	m3	£6.00	£	6,168.00
4/2/F	Surface treatments Grading surfaces of filling to slopes generally	1249	m2	£1.00	£	1,249.00
4/2/G	Grading surfaces of ground embankments, generally	640	m2	£0.50	£	320.00
4/2/H	D20 EXCAVATING AND FILLING WORKS BEYOND THE BOUNDARY OF THE SITE					
4/2/J	Excavating Top soil for preservation in spoil heaps on site 0.25 maximum depth To reduce levels	29	m3	£2.10	£	60.90
4/3/A	0.25 m maximum depth	7	m3	£2.10	£	14.70
4/3/B	Connectors; joint pipe and fitting					
4/3/A	Disposal Surface water generally	1	IT	£50.00	£	50.00
4/3/B	Ground water generally	1	IT	£50.00	£	50.00
6/1/A	110 nominal size; Wavin plastic; R12/311					
6/1/B	D20 EXCAVATING AND FILLING					
6/1/A	Excavating Trenches exceeding 300 wide 1 m maximum depth	54	m3	£9.20	£	496.80
6/1/B	Earthwork support To faces of excavation 1 m maximum depth; distance between opposing faces not exceeding 2 m	205	m2	£2.60	£	533.00

6/1/C	Disposal Surface water generally	1	IT	£50.00	£	50.00
6/1/D	Excavated material off site	54	m3	£24.00	£	1,296.00
6/1/E	Granular material; pea gravel Filling to excavations over 250 average thick; obtained off site	2	m3	£6.00	£	12.00
6/1/F	Surface treatments Compacting bottoms of excavations generally	78	m2	£0.50	£	39.00
6/1/G	E10 MIXING / CASTING / CURING INSITU CONCRETE Plain in-situ concrete (blinding to reinforced concrete step foundations); ST1; E10/160 Beds not exceeding 150 thick; sloping over 15 degrees 4 m maximum depth Plain in-situ concrete (foundations to timber retaining walls and seating areas); ST2; E10/161	2	m3	£19.60	£	39.20
6/2/A	Foundations generally Reinforced in-situ concrete; RC35; to BS 5328; E10/105	25	m3	£8.60	£	215.00
6/2/B	Steps generally E30 REINFORCEMENT FOR IN SITU CONCRETE Reinforcement fabric; to BS 4449 A193; 3.02kg/m²; minimum 300 laps	22	m3	£45.00	£	990.00
6/2/D	generally Earthwork support: curved	63	m2	£1.80	£	113.40
6/4/A	Q10 KERBS / EDGINGS / CHANNELS / PAVING ACCESSORIES Precast concrete; Marshalls plc Flat Top Edging" kerb; 914 long units; colour grey; dry jointing; concrete bedding Edgings; rectangular section type EF; facet cut units to suit radius alignment	686	m	£4.95	£	3,395.70
6/4/B	50 x 150; straight or radius exceeding 5.00m 50 x 150; radius not exceeding 5.00m Precast concrete; Marshalls plc Half Battered Kerb" kerb; 914 long units; colour grey; dry jointing; concrete bedding Kerbs; rectangular section type HB2; radius, transition and drop units to suit kerb alignments	41	m	£6.50	£	266.50
6/4/C	125 x 150	30	m	£8.00	£	240.00
6/4/D	125 x 255	229	m	£11.00	£	2,519.00
6/4/E	transition dropper units; 914 long Precast concrete; Marshalls plc Conservation Kerb" kerb; 914 long units; colour grey; dry jointing; concrete bedding Kerbs; 2.98m radius	8	nr	£15.00	£	120.00
6/4/F	255 x 205 maximum depth not exceeding 1 m; distance between opposing faces not exceeding 2 m Q20 GRANULAR SUB BASES TO ROADS / PAVINGS	15	m	£12.00	£	180.00
6/5/A	Granular material sub-base to roads, pavings and footpaths; to Highways Agency Specification for Highways Work" Filling to excavations not exceeding 250 average thick Capping layer to roads, pavings and footpaths; to Highways Agency Specification for Highways Work"	491	m3	£6.00	£	2,946.00
6/5/B	Filling to excavations over 250 average thick Granular material sub-base to paving adjacent to building (Q25/317); to Highways Agency Specification for Highways Work"	1189	m3	£6.00	£	7,134.00

6/5/C	Filling to excavations over 250 average thick Surface treatments Compacting filling	10	m3	£6.00	£	60.00
6/5/D	generally sub-bases to Grasscrete; including 50 thick sharp sand	5716	m2	£0.50	£	2,858.00
6/5/E	blinding Geotextile membranes	70	m2	£0.50	£	35.00
6/5/F	Filter membrane; Terram 1000; to sub-base under Grasscrete laid to falls maximum depth not exceeding 2 m; distance between opposing faces not exceeding 2 m Q25 SLAB / BRICK / BLOCK / SETT / COBBLE PAVINGS Concrete flag paving to external seating areas; Marshalls plc Saxon Concrete Textured Paving"; bedding on 25 thick and jointing in 5 wide mortar (Q25/715); Q25/315" Pavings; 600 x 600 x 50 units, to seating generally to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	70	m2	£1.80	£	126.00
6/6/C	Pavings; 600 x 600 x 50 units; to amphitheatre seating; radius 4845 to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	36	m2	£22.00	£	792.00
6/6/D	Pavings; 600 x 600 x 50 units; to amphitheatre seating; radius 5715 to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	8	m2	£35.00	£	280.00
6/6/E	Pavings; 600 x 600 x 50 units; to amphitheatre seating; radius 6585 to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal maximum depth not exceeding 4 m; distance between opposing faces not exceeding 2 m Pavings; 600 x 600 x 50 units; to amphitheatre seating; radius	10	m2	£35.00	£	350.00
6/7/A	6585 to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal Pavings; 600 x 900 x 50 units, to floor of amphitheatre to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	11	m2	£35.00	£	385.00
6/7/B	Concrete flag paving to step treads; Marshalls plc Saxon Step Units With Non-Slip Pavings; 900 x 295 x 50 units (to 295 wide treads) to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	27	m2	£23.00	£	621.00
6/7/C	Concrete flag paving to building perimeter; Marshalls plc Saxon Concrete Textured Paving"; bedding on cement:sand (1:3) mortar Pavings; 400 x 400 x 50 units to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	153	m	£7.00	£	1,071.00
6/7/D	Concrete tactile flag paving to external steps; Marshalls plc Hazard Warning Paving"; bedding on cement:sand (1:3) mortar Pavings; 400 x 400 x 50 units to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	34	m2	£20.00	£	680.00
6/7/E	Working space allowance to excavations; including additional earthwork support, disposal and backfilling with selected excavated material	6	m2	£45.00	£	270.00
6/8/A	Concrete tactile flag paving adjacent to drop kerb; Marshalls plc Blister Paving"; bedding on cement:sand (1:3) mortar Pavings; 400 x 400 x 50 units to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	1	m2	£45.00	£	45.00

	Granular material; 10mm single size aggregate; to be obtained off site					
	Q50 SITE / STREET FURNITURE / EQUIPMENT					
	Retaining walls; comprising hardwood timber members, oak, grade TH1 to BS 5756, 150 x 250, G20/260; set 1020 below finished ground level, including 150 wide x 800 deep concrete to either side of members; all as drawings 4188-AL(9)02, 03, 04, 05, 06 and 4088-10B, 11A					
	Bollards ; Broxap Hastings "BX 14-6541-RT ; Galvanised steel ; colour Black					
6/12/E	Bollards 905mm high	6	nr	£35.00	£	210.00
	Benches ; Broxap Hatton Rustic 4 slat seat BX 17-4055 "; Oak ; finish as delivered					
6/12/F	Benches 2000mm long	4	nr	£40.00	£	160.00
	Cycle shelters ; Broxap Apollo junior cycle shelter " BXMW/APJ " Hot dipped galvanising					
6/12/G	Cycle shelters 4120 x 2753 x 2114 To underside , 1513 to rear	1	nr	£100.00	£	100.00
	Backfilling excavations					
	GROUNDWORK					
	D20: EXCAVATING AND FILLING					
	Machine excavation					
	Tree Pit excavation , backfill with topsoil set aside from elsewhere ; Remove spoil from site ; Volume not exceeding 1m3	45	nr	£10.00	£	450.00
15/1/A	PAVING, PLANTING, FENCING & FURNITURE					
	Q30: SEEDING AND TURFING					
	Soiling					
	Soiling with topsoil excavated from temporary spoil heaps on site; transporting not exceeding 100 m:					
15/1/B	300 mm thick	1850	m2	£1.88	£	3,478.00
	160 straight; 1100 effective length					
	BWIC WITH MECHANICAL INSTALLATIONS					
	Concrete					
16/2/D	Plinth 8000 x 3000 x 150 ; to boiler room and fuel store	1	Item	£475.00	£	475.00
	R12 DRAINAGE BELOW GROUND - FOUL WATER OUTSIDE BOUNDARY OF SITE; ALL PROVISIONAL					
	BUILDING FABRIC SUNDRIES					
	P30: TRENCHES, PIPEWAYS AND PITS FOR BURIED ENGINEERING SERVICES					
	Excavation of trenches to receive water supply pipes ; bed and surround with sand to provide 50cover all round ; backfilling with two further layers of sand , 100 thick each , hand tamped ; complete backfilling with selected excavated material in 200 layers ; compacting backfilling ; disposing of surface water and surplus excavated material off site ; reinstating surface finishes where required ; laying PVC with metal core tape in backfill , 200 above pipe					
16/3/A	For services Not exceeding 200 nominal size ; 1.00 m average depth	32	m	£13.20	£	422.40
	Underground ductwork					
	Hepduct ; laid in trenches ; draw wire insert					
16/3/B	150 nominal size ; end stoppers ; seal around cables at ends	12	m	£2.00	£	24.00
	Valve boxes					
	Valve boxes ; including all excavation , backfilling , disposal of excavated material , earthwork support and compaction of ground ; surrounding in concrete including formwork					
16/3/C	To service engineers specification	1	nr	£125.00	£	125.00

Excavating trenches; to receive pipes not exceeding 200 nominal size; disposing of surplus excavated material on site  
BWIC WITH ELECTRICAL INSTALLATIONS

Concrete

Bases to external lighting bollards

400 x 400 x 800 ; casting in bollard ; including installation of

16/4/E	flexible duct for cable pathway	38	nr	£35.00	£	1,330.00
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Inspection pits for lightning protection earth electrodes

16/4/F	including 2m of trenching for earth tape per pit	14	nr	£10.00	£	140.00
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Bases for sockets to ampitheatre

16/4/G	to srvcies engineers specification	3	nr	£125.00	£	375.00
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excavation of trenches to receive electrical supply pipes ; bed and surround with sand to provide 50cover all round ;

backfilling with two further layers of sand , 100 thick each ,

hand tamped ; complete backfilling with selected excavated material in 200 layers ; compacting backfilling ; disposing of

surface water and surplus excavated material off site ;

reinstating surface finishes where required ; laying PVC with metal core tape in backfill , 200 above pipe

For services

400 wide x 800mm average depth ; to receive WPD electric

16/4/H	cables	90	m	£9.90	£	891.00
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400 wide x 800mm average depth ; to receive BT cables

16/4/J	Commencing from reduced level; filling in above beds and	90	m	£9.90	£	891.00
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surrounds with selected excavated materials

400 wide x 800mm average depth ; to receive external

16/5/A	lighting cables	350	m	£9.90	£	3,465.00
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400 wide x 800mm average depth ; to receive BT cables

16/5/B		90	m	£9.90	£	891.00
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Underground ductwork

Hepduct ; laid within floor slab or under floor slab in trenches

; proprietary slow bends ; draw wire insert

16/5/C	100 nominal size ;	70	m	£1.80	£	126.00
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16/5/D	150 nominal size ;	35	m	£2.00	£	70.00
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Draw pits

16/5/E	To BT ductwork	4	nr	£125.00	£	500.00
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16/5/F	To ampitheatre ductwork	3	nr	£125.00	£	375.00
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average depth 500 - 750

**LABOUR & PLANT ONLY TENDER TOTAL**

**£ 169,538.55**