

Item	Description	Unit	Quantity	Rate	Amount R
13.00	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13.01	Contractor's general obligations				
	(a) Fixed obligations	L/sum	1,0		
	(b) Value-related obligations	L/sum	1,0		
	(c) Time-related obligations	month	10,0		
	(d)Contract sign boards (2x information board, see standard drawings)	m²	19,2		
PSC13.02	Stakeholders				
	Community Liaison officer for the duration of project	PC Sum	1,0	105 000,00	105 000,00
	Handling cost, profit and all other charges in respect of item	%	105 000,00		
PSC13.03	Safety obligation on site				
	Health and safety plan	L/sum	1,0		
	Implementation of health and safety plan for the duration of project .□ Monthly Audit, Site inspection and safety committee meeting conducted by the Employer's agent. Only payable if Contractor scores above 90% score per month and no serious offences occurred.	month	10,0		
PSC13.04	Environmental Management Programme				
	a) Compile Environmental Management Plan and attain approval. (Item is only payable where the Contractors Plan is approved)	PC sum	1,0	10 800,00	10 800,00
	b) Implement approved Environmental Management Plan, only payable if Contractors scores above 90% score per month and no serious offences exists	PC sum	1,0	10 800,00	10 800,00
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
14.00	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL				
14.01	Office and laboratory accommodation				
	(a) Offices (interior floor space only)	m ²	70,0		
	(e) Ablution units	No	4,0		
14.02	Office and laboratory furniture				
	(a) Chairs	No	10,0		
	(d) Desks, complete with drawers and locks	No	2,0		
	(f) Conference tables	No	1,0		
14.03	Office and laboratory fittings Installations and equipment				
	(a) Items measured by number				
	(1) 220/250 volt power points	No	2,0		
	(4) Double 55 watt fluorescent light fittings complete with ballast and tubes	No	2,0		
	(6) Hand wash basins complete with taps and drains	No	2,0		
	(10) Fire extinguishers, 9,0 kg,all purpose dry powder type, complete, mounted on wall with brackets	No	2,0		
	(11) Air conditioning units with 2,2 kW minimum capacity, mounted and with own power connection	No	2,0		
	(14) General-purpose steel cupboards with shelves	No	2,0		
	(16) Refrigerators	No	1,0		
	(b) Prime-cost items and items paid for in a lump sum:				
	(1) Provision of telephone service, including the cost of calls in connection with contract administration and telephone rental	PC sum	1,0	25 000,00	25 000,00
	(2) Handling costs and profit in respect of subsubitem 14.03(b)(1) above	%	25 000,00		
	(7) The provision of 400/231 volt 3-phase electrical power installations, including all wiring, switchboards, mains connections, etc	L/sum	1,0		
	(c) Items measured by area				
	(8) Notice boards as specified	m ²	0,7		
14.04	Car ports				
	(a) Car ports, as specified, at offices and laboratory buildings	No	6,0		
14.07	Rented, hotel and other accommodation				
	(a) Provisional sum for providing rented housing, hotel or other accommodation as described in subsubclause 14.03(c)(2)	PC sum	1,0	64 400,00	64 400,00
	(b) Handling costs and profit in respect of subitem 14.07(a)	%	64 400,0		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
15.00	ACCOMMODATION OF TRAFFIC				
15.01	Accommodating traffic and maintaining temporary deviations	km	5,0		
15.03	Temporary traffic-control facilities (one-lane width closures)				
	(a) Flagmen	man-day	1 440,0		
	(b) Portable STOP and GO-RY signs	No	4,0		
	(c) Temporary traffic-control signals as specified or as shown on the drawings	No	6,0		
	(d) Amber flicker lights	No	2,0		
	(e) Road signs, R- and TR-series, (size indicated)	No	10,0		
	(f) Road signs, TW-series, (size indicated)	No	10,0		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	m²	10,0		
	(h) Delineators (DTG50J) (size indicated):				
	(2) Mounted back to back	No	250,0		
	(i) Moveable barricade/road sign combination (size indicated)	No	10,0		
	(j) Traffic cones (size indicated)	L/sum	1,0		
	(m) Two-way communication devices	No	2,0		
15.04	Relocation of traffic-control facilities	L/sum	1,0		
15.12	Temporary culverts				
	(a) Provision and laying of temporary prefabricated culverts complete (state size, type and bedding)	m	5,0		Rate Only
	(d) Overhaul on excavated material carted to spoil, backfill material (but excluding portland cement), prefabricated culverts removed and reinstalled, and prefabricated culverts removed and stacked, for haul in excess of a free-haul distance of 1,0 km	m²-km	2 500,0		Rate Only
15.13	In situ preparation and compaction of existing gravel shoulders to 93% of modified AASHTO density	m³	850,0		Rate Only
Total Carried Forward To Summary					

Contract : Watt Street PEU
Schedule 1

PSC EXISTING ROAD MATERIALS

Item	Description	Unit	Quantity	Rate	Amount R
PSC17-2	EXISTING ROAD MATERIALS				
PSC17-2.1	Demolish existing pavements and discard materials to an approved dumping site to be located by the Contractor, including all haulage and dumping fees:				
	a) Remove and dispose of existing asphalt paved surfaces on walkways up to 80mm thick (average) along Works area (from roadway for new pavement works and excavations for new drainage and sleeves)	m ²	1 680,0		
	b) Remove and dispose of unreinforced concrete along works area (channels, edge beams, edging around fixtures, etc.)	m ²	100,0		
PSC17-2.2	Spoiling of paving blocks and road edging in spoil sites designated by the Employer:				
	a) Remove and dispose existing block paving (various types within roadway) along Works area	m ²	1 120,0		
	b) Remove and dispose existing block paving (various types for walkways and driveways) along Works area	m ²	11 200,0		
	c) Remove and dispose of kerbs (all types precast and cast-insitu) deemed to be in poor condition and for universal access ramps at intersections.	m	2 150,0		
PSC17-2.3	Dimantle and Demolish of existing structures, the contractort to discard materials to an approved dumping site to be located by the Contractor, including all haulage and dumping fees:				
	a) Take down existing fences and dispose of material	km	0,2		
	b) Dismantle and remove pipelines (not encased in concrete), electricity transmission lines, cables, exising damaged inlet covers etc.	PC sum	1,0	30 000,00	30 000,00
	c) Demolish and remove structures, reinforced and unreinforced concrete and brickwork, including bollards, benches, planters, dustbins, etc.	PC sum	1,0	27 000,00	27 000,00
	d) Dismantle steelwork, etc. (steel bins, bollards, benches, kerb inlet)	PC sum	1,0	32 000,00	32 000,00
Total Carried Forward To Summary					

Contract : Watt Street PEU

Schedule 1

SECTION 2200

Item	Description	Unit	Quantity	Rate	Amount R
22.00	PREFABRICATED CULVERTS				
22.01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(1) 0 m up to 1.5 m	m³	3 705,0		
	(2) Exceeding 1,5 m and up to 3,0 m	m³	1 850,0		
	(3) Exceeding 3,0 m and up to 4,5 m	m³	460,0		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m³	250,0		Rate Only
22.02	Backfilling:				
	(a) Using the excavated material	m³	6 500,0		
22.03	Concrete pipe culverts:				
	(c) On class C bedding □ Type S/C 100D-load pipes with spigot and socket joints:				
	(2) 450mm dia.	m	500,0		
	(3) 600mm dia.	m	200,0		
B22.17	Manholes, catchpits, precast inlet and outlet structures complete				
	(a) Manholes				
	(3) Brick manholes for drainage: constructed on all pipes up to 675 mm diameter				
	Construct complete with covers and frames, benching, etc, as per Engineer's drawings				
	a) Manhole at kerb inlet				
	Exceeding 1,0 m but not exceeding 2,5 m	No	2,0		
	Rectangular box Manhole				
	Exceeding 1,0 m but not exceeding 2,5 m	No	2,0		
	Manhole Skew box				
	Manhole (skew box)	No	2,0		
22.20	Benching	m²	0,2		
22.21	Accessories				
	(a) Manhole covers including frames				
	(3) Type 4, SABS 558/1973	No	2,0		
	(b) Inlet grids including frames				
	(2) TPA type 40	No	2,0		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing				
	(a) Precast kerbing to SABS 927				
	(12) Figure 12 kerb	m	600,0		
23.01	Concrete kerbing				
23.02	Concrete kerbing-channelling combination				
	(c) Precast kerb to SABS 927 and cast in situ channel (concrete class 20/19)				
	(3) Figure 3 barrier kerb	m	1 300,0		
	(8) Figure 8(b) kerb	m	800,0		
	(d) Cast in-situ concrete transition kerbs				
	(i) Cast in-situ concrete transition kerbs for any combination of kerbs. Concrete class 25/19.	m	50,0		
	(ii) Cast in-situ concrete transitions for pedestrian scoops, etc. Concrete class 25/19, 125mm thick, including finishing.	m	30,0		
	iii) Cutting bitumuous surfacing and pavement layers (150mm deep) for concrete kerbing.				
	1) Straight sections	m	20,0		
	2) Curved sections	m	20,0		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34.01	Pavement layers constructed from gravel taken from cut or borrow , including free haul up to 1,0 km				
	(f) Gravel base (chemically stabilized material) compacted to:				
	(2) 98% of modified AASHTO density (C3 layer) (for walkways)	m³	1 280,0		
	(i) BTB base compacted to 93% of Mod. RICE, 150 mm thick	m²	10500		
34.06	Extra over item 34.04 for adding extra materia as specified in subsubclause 3207(b)(iii):				
	(c) Gravel base	m³	50,0		
34.07	Extra over item 34.04 for temporarily blading the material to windrow	m³	180,0		
34.10	(a) Vibratory rollers	m²	8 510,0		
	(c) Grid rollers	m²	8 510,0		
34.11	Watering the pavement excavation floor	kℓ	15 000,0		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
38.00	BREAKING UP EXISTING PAVEMENT LAYERS				
38.02	Milling out existing bituminous material with an average milling depth:				
	(a) Not exceeding 30 mm	m ³	315		
	(c) Exceeding 60 mm	m ³	630		
38.03	Milling out cemented material:				
	(b) Average milling depth exceeding 50mm but not exceeding 100mm:	m ³	1050		
38.04	Excavating and spoiling material from an existing pavement and/or the underlying fill:				
	(b) Cemented material	m ³	1050		
	(d) Bituminous material (RAP)	m ³	630,00		
38.13	Drilling cores:				
	(a) In asphalt	No	20,00		
B38.13	Excavating milled stabilized material to stockpile and back to the road again	m ²	10 500,00		
B38.14	Providing the milling machine on the site (1.5 to 2m wide)	L/ Sum	1,00		
38.15	Moving the milling machine on the site for a distance exceeding 1.0km (1.5 to 2m wide)	No	1		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
41.00	PRIME COAT				
41.01	Prime coat:				
	(f) Bitumen emulsion bases prime	litre	7659		

Item	Description	Unit	Quantity	Rate	Amount R
56.00	ROAD SIGNS				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:				
	(a) Aluminium sheet (2,0 mm thick)				
	(1) Area not exceeding 2 m ²	m ²	18,0		
56.03	Road sign supports (overhead road sign structures excluded):				
	(b) Steel tubing D shape 76mm OD with 2mm wall thickness galvanized.	m	130,0		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	15,0		
56.06	Extra over item 56.05 for cement-treated soil backfill	m ³	15,0		
56.07	Extra over item 56.05 for rock excavation	m ³	2,0		Rate Only
56.08	Dismantling, storing and re-erecting road signs with a surface area of (reinstallation of complete of road signs):				
	(a) Up to 2 m ²	No	3,0		
	(b) Exceeding 2 m ² but not 10 m ²	No	10,0		
56.09	Dismantling and storing road signs with a surface area of:				
	(a) Up to 2 m ²	No	3,0		Rate Only
Total Carried Forward To Summary					

Contract : Watt Street PEU

Schedule 1

SECTION 5800

Item	Description	Unit	Quantity	Rate	Amount R
58.00	LANDSCAPING AND PLANTING PLANTS				
B58.09	Trees and shrubs:				
	(a) Providing the trees and shrubs □ □ Supply and Planting of trees complete as per specifications: Incl. excavations and backfill with specified material, geotextile, drainex pipe and timber stakes, all as specified on Architect's drawings.				
	a) COMBRETUM ERYTHROPHYLLUM [BUSH WILLOW] Tree height: 2.7m to 3.15m; Stem thickness: 45 to 55mm;	No	53,0		
	b) Allow for maintaining landscaping and tress, this includes watering, deweeding, cutting, mowing, pruning, replacing dead plants, application of herbicides, applying fertilizer (if necessary), scarifying, straightening and firming tree stakes and ties, cleaning of rubbish and debris, maintaining monthly records, etc. The maintenance period shall commence upon issue of the Certificate of Practical Completion. Maintenance frequency to be once per week for 6 months.	No	6,0		
B58.10	Extra work for landscaping and street Furniture				
	Provide and install complete as per specifications/drawings:				
	a) New concrete Bench:				
	As per Detail. Refer to Detail for mosaic	No	41,0		
	b) New Way Finding Signage:				
	Way Finding Signage as per Detail. 4 way finding signs per Pole. Sign Post setting out as per Detail.	No	4,0		
	c) New Bollards (Type A):				
	Steel Bin:	No	30,0		
	d) New Bollards (Type B):				
	1200mm Steel Bollard or equally approved; Height above ground: 900mm Mitre-top 45degrees. Diameter: 150mm. Finish: Polyurethane Paint Colour: Dark Grey Tarnished Iron 61GY 11/019.	No	182,0		
	e) New Steel Bin:				
	72 litre steel swing bin as per Detail, Diameter: 402mm; Height: 798mm; Options Detail: Planted, Galvanised Mild Steel, Perforated Plate, Material: Galvanised Mild Steel.	No	21,0		
	f) Double Arm Street Light (Street level and Pedestrian level light head):				
	Street Light to match existing. Top Arm at 8m, Low Arm at 4m. Street Lighting to Electrical Engineer and manufactures specification.	No	8,0		
	g) Post Top Light:				
	LED 30w, 4.5mh Buried MOQ 50 seamless cylindrical GRP column with integrated luminaire on top; Standard colour: Black (RAL 9017).	No	30,0		
	h) Tree Planter:				
	4 rectangular interlocking pieces pre-cast concrete Tree ring, 50mm thick 25MPa, complete as per specifications. Refer to Architect's drawings.	No	53,0		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
73.00	CONCRETE BLOCK PAVING FOR ROADS				
B73.01	Concrete block paving				
	Inclusive of 20 mm layer bedding sand imported from commercial sources, with sand and cement mixture swept into joints and lightly hosed down, and cutting of units to fit edge restraint all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months. (A sample must be provided of all materials to be approved by the architect before placing orders.)				
	a) Walkways Concrete Pavers:				
	in basket weave pattern, @ intersections in herringbone pattern: Concrete Paving Block Type: "Technicrete" Double Zigzag o.e.a (or equal approved); Thickness: 60mm; Colour: Red paving blocks; Pattern: laid to standard basket weave pattern, in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	14 490,0		
	b) Driveways Pavers:				
	in basket weave pattern: Concrete Paving Block Type: "Technicrete" Double Zigzag o.e.a (or equal approved); Thickness: 80mm; Colour: Grey paving blocks; Pattern: laid to standard basket weave pattern, in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	1 712,0		
	c) Clay Pavers Type A:				
	Clay Paver Type: Corobrik® Springs Factory 52MPa Cederberg Paver PA clay paving bricks; Traffic Type: Light Traffic/ Medium to Heavy Traffic; Size/ Thickness: 200 x 98,5 x 65mm thick; Pattern: laid in Basket Weave Bond pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.				
	d) Clay Pavers Type B:				
	Corobrik® Springs Factory 83.7MPa Onyx Paver PA clay paving bricks; Traffic Type: Light Traffic/ Medium to Heavy Traffic; Size/ Thickness: 200 x 98,5 x 65mm thick; Pattern: laid in Basket Weave Bond pattern, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m²	284,0		
	d) Tactile and warning pavers:				
	PAVING- CONCRETE- DIRECTIONAL TACTILES (400x400mm): Directional tactiles to SANS 784 laid as per Engineers specification; PAVING- CONCRETE- WARNING TACTILES (400x400mm): Warning tactiles to SANS 784 laid as per Engineers specification	m²	200,0		
73.02	Cast in situ concrete edge and intermediate beams				
	a) Concrete edge beam 150 x 150 mm, in-situ cast concrete class 25/19. At edge of sidewalks against building line and between walkway paving and driveway paving.	m	720,0		
	b) Concrete edge beam 200 x 150 mm, insitu cast concrete class 25/19. At edge of driveways against building line.	m	220,0		
Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount R
PSC1	PROVISIONAL SUM				
PSC1.1	Training:				
PSC1.1.1	Provision of Accredited and Approved Training (Entrepreneurial and Generic)	Prov sum	1,0	250 000,00	250 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1	%	250 000,00		
PSC1.1.2	Training obligation				
	(a) Technical skills	Prov sum	1,0	300 000,00	300 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.2(a)	%	300 000,0		
	(b) Student Training	Prov sum	1,0	200 000,00	200 000,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.2(b)	%	300 000,0		
PSC1.1.3	Obligation for SMMEs				
	a) Payment for preliminary and general charges by appointed EME or QSE's, fixed and time-related. (Must be 10% of P&Gs)	Prov sum	1,0	451 250,00	451 250,00
	Handling cost, profit and all other charges in respect of item PSC1.1.1.3(a)	%	451 250,0		
PSC1.1.4	Sums stated Provisionally by Engineer				
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	180 000,00	180 000,00
	a) Relocation of existing services (raising/lowering of manholes/valve chambers/etc., relocating water meters/electrical poles/etc.), protection of existing services and including attaining wayleaves from Service Authorities.	%	180 000,00		
	Overheads, charges and profit on item above PSC1.1.4(a)				
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	268 300,00	268 300,00
	a) Provision for soft landscaping and street furniture additional to items described elsewhere in the bills of quantities.	%	268 300,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract				
	a) Design and construction for new electricity installation	Prov sum	1,0	530 000,00	530 000,00
	Overheads, charges and profit on item above	%	530 000,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract				
	b) Design and construction for Structural works	Prov sum	1,0	500 000,00	500 000,00
	Overheads, charges and profit on item above	%	500 000,00		
	For work to be done by Contractor and valued in terms of Clause 8.1.2.1 d) of conditions of contract	Prov sum	1,0	53 700,00	53 700,00
Total Carried Forward					

Contract : Watt Street PEU
 Schedule 1

PROVISIONAL SUM

Item	Description	Unit	Quantity	Rate	Amount R
Brought Forward					
	Overheads, charges and profit on item above	%	53 700,00		
	b) Provision for additional Stormwater work	Prov sum	1,0	107 300,00	107 300,00
	Overheads, charges and profit on item above	%	107 300,00		
	a) Provision for Removal & Relocation of existing Fence line	Prov sum	1,0	107 300,00	107 300,00
	Overheads, charges and profit on item above	%	107 300,0		
Total Carried Forward To Summary					

Contract : Watt Street PEU
Schedule 1

					SMME's
Item	Description	Unit	Quantity	Rate	Amount R
PSC2	SMME's				
PSC2.1	Scope of Works Reserved for SMMEs Development□ Manholes, Kerbing, Paving, Edge Beams, Guard Rails				
PSC2.1.1	Accommodation of Traffic	Prov sum	1,0	345 600,00	345 600,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	345 600,00		
PSC2.1.2	Clearing and Grubbing	Prov sum	1,0	200 000,00	200 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	200 000,00		
PSC2.1.3	Concrete Kerbing, Concrete Channeling, Chutes and Downpipes and Concrete linings for open drains	Prov sum	1,0	150 000,00	150 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	150 000,00		
PSC2.1.4	Mass Earthworks	Prov sum	1,0	450 000,00	450 000,00
	SMMEs Preliminary & Generals	%	450 000,00		
PSC2.1.5	Road Signs	Prov sum	1,0	35 000,00	35 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	35 000,00		
PSC2.1.6	Road Markings	Prov sum	1,0	10 000,00	10 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	10 000,00		
PSC2.1.7	Concrete Block Paving	Prov sum	1,0	1 100 000,00	1 100 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	1 100 000,00		
PSC2.1.8	Drains	Prov sum	1,0	160 000,00	160 000,00
	Contractor's handling costs and other charges in respect to Development of SMMEs item B12/23.00	%	160 000,00		
Total Carried Forward					

Contract : Watt Street PEU Structural

Schedule 1

Item N°	Pay Ref.	Description	Unit	Quantity	Rate	Amount (Rand)
		SECTION 1 : EARTHWORKS & DEMOLITION				
	SABS 1200C	SITE CLEARANCE				
1,1		Demolish and remove debris off site to approved dumping area:				
1.1.1		Removal of demolished structures	m ³	rate only		
1.1.2		Wall on 4th Street Demolition and remove brick wall	m ³	88,32		
	SABS 1200D					
1,2	8.3.2	EXCAVATION				
	8.3.3 (a)	Excavate for foundations in all materials and dispose of within freehaul distance for :				
1.2.1		Pedestrian Access - Main Lift Road Level				
1.2.1.1		Canopy Bases Types "A" & "C"	m ³	25,8		
1.2.1.2		Turnstile Base Type "B"	m ³	1,6		
1.2.2		Pedestrian Access - Western Service Road				
1.2.2.1		Canopy Bases Types "A" & "C"	m ³	11		
1.2.2.2		Turnstile Base Type "B"	m ³	1,6		
1.2.2.3		Retaining Wall foundation	m ³	122,7		
1.2.2.4		"ClearVU" Fence Plinths	m ³	3,5		
1.2.3		Pedestrian Access - New Staircase at Road Level				
1.2.3.1		Canopy Bases Types "A" & "C"	m ³	7,4		
1.2.3.2		Turnstile Base Type "B"	m ³	1,6		
1.2.3.3		"ClearVU" Fence Plinths	m ³	25,9		
1.2.4		Gates at North and Southe Ends of the Station: Bases				
1.3.4.1		Base Type "B"	m ³	6,4		
1.3.4.2		Base Type "D"	m ³	4		
	8.3.3 (b)	Extra-over items 1.4.3 up to 1.4.5 for excavation in :				
1.2.5		Intermediate material	m ³	rate only		
		Carried Forward				

	SABS	SECTION 2 - CONCRETE (STRUCTURAL)			
	1200 G				
	8.1.3	CONCRETE			
2,1	8.4.2	Blinding layer in 20 MPa / 19 mm concrete 50mm minimum thickness			
2.1.1		Pedestrian Access - Main Lift Road Level			
2.1.1.1		Canopy Bases Types "A" & "C"	m³	0,35	
2.1.1.2		Turnstile Base Type "B"	m³	0,05	
2.1.2		Pedestrian Access - Western Service Road			
2.1.2.1		Canopy Bases Types "A" & "C"	m³	0,15	
2.1.2.2		Turnstile Base Type "B"	m³	0,05	
2.1.2.3		Retaining Wall foundation	m³	10	
2.1.2.4		Wall of 4th street foundation	m³	2,14	
2.1.2.5		"ClearVU" Fence Plinths	m³	0,04	
2.1.3		Pedestrian Access - New Staircase at Road Level			
2.1.3.1		Canopy Bases Types "A" & "C"	m³	0,1	
2.1.3.2		Turnstile Base Type "B"	m³	0,05	
2.1.3.3		"ClearVU" Fence Plinths	m³	0,3	
2.1.4		Gates at North and Southe Ends of the Station: Bases			
2.1.4.1		Base Type "B"	m³	0,2	
2.1.4.2		Base Type "D"	m³	0,15	
	2,2 8.4.3	Strength concrete: 30 MPa / 19 mm			
2.2.1		Pedestrian Access - Main Lift Road Level			
2.2.1.1		Canopy Bases Types "A" & "C" and Plinths	m³	5,34	
2.2.1.2		Turnstile Base Type "B"	m³	0,35	
2.2.2		Pedestrian Access - Western Service Road			
2.2.2.1		Canopy Bases Types "A" & "C" and Plinths	m³	1,42	
2.2.2.2		Turnstile Base Type "B"	m³	0,35	
		Carried Forward			

		Brought Forward				
2.3.1.4		Gates at North and South Ends of the Station: Bases				
2.3.1.4.1		Base Type "B"	m ²	4,14		
2.3.1.4.2		Base Type "D"	m ²	1,73		
2.3.2	8.2.2	Smooth vertical plane to:				
2.3.2.1		Pedestrian Access - Main Lift Road Level				
2.3.2.1.1		Plinth Detail D1	m ²	3,11		
2.3.2.1.2		Plinth Detail D2	m ²	2,9		
2.3.2.2		Pedestrian Access - Western Service Road: Plinth D1	m ²	3,11		
2.3.2.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	m ²	2,07		
2.4	2.2.3	Smooth horizontal plane to:	m ²	rate only		
2.5	2.2.4	Chamfers exceeding 20 mm x 20 mm and grooves				
2.5.1		Pedestrian Access - Main Lift Road Level				
2.5.1.1		Plinth Detail D1	m	6,21		
2.5.1.2		Plinth Detail D2	m	8,28		
2.5.2		Pedestrian Access - Western Service Road: Plinth D1	m	6,21		
2.5.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	m	4,14		
	8.1.2	REINFORCEMENT				
2.8	8.1.2.3	Mild steel bars				
2.8.1		up to 12mm dia.				
2.8.1.1		Pedestrian Access - Main Lift Road Level	kg	12		
2.8.1.2		Pedestrian Access - Western Service Road	kg	233		
2.8.1.3		Pedestrian Access - New Staircase at Road Level	kg	4		
2.9	8.3.1	High-tensile steel bars sizes up to 40mm				
2.9.1.1		Pedestrian Access - Main Lift Road Level	kg	213		
		Carried Forward				

		Brought Forward				
2.9.1.2		Pedestrian Access - Western Service Road	kg	720		
2.9.1.3		Pedestrian Access - New Staircase at Road Level	kg	77		
2.9.1.4		Gates at North and South Ends of the Station: Bases	kg	158		
2,1	8.3.2	High-tensile welded mesh reinforcement				
2.10.1		Type reference 193 in 6m x 2.4m standard sheets	m ²	rate only		
2.10.2		Type reference 245 in 6m x 2.4m standard sheets	m ²	rate only		
2.10.3		Type reference 311 in 6m x 2.4m standard sheets	m ²	rate only		
2.10.4		Type reference 395 in 6m x 2.4m standard sheets	m ²	rate only		
2.10.5		Type reference 500 in 6m x 2.4m standard sheets for	m ²	rate only		
2.11	8.4.4	UNFORMED SURFACE FINISHES				
2.11.1		Wood-floated finish (see PSG 7.1)	m ²	rate only		
2.11.2		Steel-floated finish (see PSG 7.2)	m ²	rate only		
2.11.3		Pedestrian Access - Main Lift Road Level				
2.11.3.1		Plinth Detail D1	m ²	0,68		
2.11.3.2		Plinth Detail D2	m ²	0,56		
2.11.4		Pedestrian Access - Western Service Road				
2.11.4.1		Plinth Detail D1	m ²	0,86		
2.11.4.2		"ClearVU" Fence Plinths	m ²	0,93		
2.11.4		Pedestrian Access - New Staircase at Road Level				
2.11.4.1		Plinth Detail D1	m ²	0,58		
2.11.4.2		"ClearVU" Fence Plinths	m ²	6,99		
2.12.4		Power-floated finish (see PSG 7.1)	m ²	rate only		
2.12.5		Special-Surface finish (see PSG 7.1)	m ²	rate only		
		Carried Forward				

		Brought Forward				
2.13	8.4.4	JOINTS	m	rate only		
2.14	8,7	GROUTING				
2.14.1		Pedestrian Access - Main Lift Road Level				
2.14.1.1		Plinth Detail D1	no	3		
2.14.1.2		Plinth Detail D2	m	4		
2.14.2		Pedestrian Access - Western Service Road: Plinth D1	m	3		
2.14.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	m	2		
2.15	8,8	HD BOLTS Supply and Install Holding Down Bolts for:				
2.15.1		M20 Grade 8.8 and 450mm long				
2.15.1.1		Pedestrian Access - Main Lift Road Level				
2.15.1.1.1		Plinth Detail D1	kg	18,5		
2.15.1.1.2		Plinth Detail D2	kg	24,7		
2.15.1.2		Pedestrian Access - Western Service Road: Plinth D1	kg	18,5		
2.15.1.3		Pedestrian Access - New Staircase at Road Level: Plinth D1	kg	12,3		
2.15.1.4		Gates at North and South Ends of the Station: Bases	kg	49,3		
2.15.2		M20 anchor bolts to be HILTI HIT-V threaded rod with 300mm embedment, drilled with HILTI HIT-RE-500 epoxy or approved equivalent.				
2.15.2.1		Pedestrian Access - Main Lift Road Level	kg	24,7		
2.15.2.2		Roof Over Stair Tower at South Road	kg	32,1		
2.15.2.3		Pedestrian Access - Western Service Road: ClearVu Poles	kg	141,9		
2.15.2.4		Gates at North and South Ends of the Station	kg	74		
2.15.3		M10 Raw Bolts or similar approved Installed to Manufacturer's Specifications.				
2.15.3.1		Grille over Openings	kg	5,51		
		Carried Forward to Summary				

SABS	SECTION 4 - MISCELLANEOUS ITEMS				
3,1	Roof sheeting: Supply and fit "Chromadek" 0.8 mm thick IBR roof sheeting to approved colour including all fasteners and Flashing sheets on Alucushion insulation.				
3.1.1	Pedestrian Access - Main Lift Road Level	m ²	16,6		
			0		
3.1.2	Pedestrian Access - Western Service Road	m ²	21,3		
3.1.3	Pedestrian Access - New Staircase at Road Level	m ²	10,9		
3.1.4	Roof Over Stair Tower at South Road	m ²	95		
3,2	Rectagrid Panels:				
3.2.1	Pedestrian Access - Main Lift Road Level				
3.2.1.1	Vertical Panels	m ²	40,4		
3.2.1.2	Horizontal Panels	m ²	52,8		
3.2.2	Pedestrian Access - Western Service Road				
3.2.2.1	Vertical Panels	m ²	11,2		
3.2.3	Pedestrian Access - New Staircase at Road Level				
3.2.3.1	Vertical Panels	m ²	5,7		
3.2.4	Grille over Openings	m ²	2		
3,3	76x25mm Medium Security ClearVu Fence with 76x76x2.5 SHS Posts, inclusive of the Fixing Accessories:				
3.3.1	Pedestrian Access - Western Service Road	m	75		
3.3.2	Pedestrian Access - New Staircase at Road Level	m	85		
	Turnstiles				
	TITAN 4: four arm, full height, bi-directional double turnstile - Polyester exterior grade powder coat - charcoal blue - Fail Secure. Including delivery and installation.	no	2		
	Bypass Gates				
	Security gate - maglock and door closer (843mm clear opening) Size to be confirmed - Polyester exterior grade powder coat -charcoal blue. Including delivery and installation.	no	2		
	Roller Shutter Gate				
	Xpanda or equal approved Aluminium electrically operated roller shutter in Graphite Grey Powder coated finish (Colour code: RAL 7024), overall size 4800mm x 2400mm high with 550mm headroom with 130mm clearance on free side and 315mm clearance on operator side, 75mm wide extruded slates with Fenestra cutouts and polycarbonate inserts, 75mm wide side guides, Xpanda Rol-Lok, with slatted canopy cover and weather strip T-bar to bottom edge, with perimeter framing plugged and screwed to face at maximum 300mm centres to steel Structure.	no	1		
	ClearVu Fence- Panels				
	Provide ClearVu wall fence panels width 3305mm, height 2400mm, with 3,5mm coated wire diameter, galvanised and Polymetric 6000 coated Jet Black.	no	196		
	ClearVu Fence- Posts				
	Taper locking posts	no	198		
	Barbed Wire				
	Ripper Concertina coil 730mm - Galvanised fixed to ClearVu fencing.	m	650		
	Carried Forward to Summary				

	SABS 1200 H	SECTION 5 - STRUCTURAL STEELWORK			
	SANS 10120 AH				
	8.3.1	SUPPLY AND FABRICATION			
4,1	8.3.1.2	Supply and fabrication in Grade 355JR steel to SANS 1431, steelwork complete with all necessary cleats, base plates, brackets, gussets, packs etc. Canopy Structure:			
4.1.1		Pedestrian Access - Main Lift Road Level			
4.1.1.1		3.576m column UB 203x133x25 kg/m	kg	310	
4.1.1.2		2.80m Rafter IPE 200	kg	216	
4.1.1.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	38	
4.1.1.4		Purlins CLPC 100x50x20x2.0 - 6.31kg/m	kg	104	
4.1.1.5		Bracing members L 50x50x5 - 3.77kg/m)	kg	34	
4.1.1.6		2.940m Column RHS 200x100x6.0 - 27.2 kg/m	kg	368	
4.1.1.7		4.90m Rafters RHS 200x100x6.0 - 27.2 kg/m	kg	614	
4.1.2		Pedestrian Access - Western Service Road			
4.1.2.1		3.007m column UB 203x133x25 kg/m	kg	260	
4.1.2.2		2.80m rafter IPE 200	kg	216	
4.1.2.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	47	
4.1.2.4		Purlins CLPC 100x50x20x2.0 - 6.31kg/m	kg	134	
4.1.2.5		Bracing members L 50x50x5 - 3.77kg/m)	kg	52	
4.1.3		Pedestrian Access - New Staircase at Road Level			
4.1.2.1		3.007m column UB 203x133x25 kg/m	kg	174	
4.1.2.2		2.80m rafter IPE 200	kg	144	
4.1.2.3		Apex Tie-Beams L 80x80x6 - 7.34kg/m	kg	24	
4.1.2.4		Purlins CLPC 100x50x20x2.0 - 3.53kg/m	kg	69	
		Carried Forward			

SABS	SECTION 5 - STRUCTURAL STEELWORK				
4.1.2.5	Bracing members L 50x50x5 - 3.77kg/m)	kg	52		
4.1.4	Roof Over Stair Tower at South Road				
4.1.4.1	6,905m Inclined column UB 203x133x25 kg/m	kg	802		
4.1.4.2	3.910m column UB 203x133x25 kg/m	kg	451		
4.1.4.3	9.00m Rafter UB 203x133x25 kg/m	kg	1039		
4.1.4.4	Apex Tie-Beams CHS 89.9x4.0 - 8,38kg/m	kg	77		
4.1.4.5	Purlins CLPC 125x50x20x2.0 - 4,84kg/m	kg	409		
4.1.4.6	Bracing members L 60x60x6 - 5.42kg/m)	kg	179		
4.1.4.7	0.620m Haunch UB 203x133x25 kg/m	kg	36		
4.1.4.8	T40 CS Hangers - 9.86 kg/m	kg	431		
4.1.5	Gates at North and South Ends of the Station: Bases				
4.1.5.1	4.475m column SHS 80x80x5.0 - 11.9kg/m	kg	598		
4.1.5.2	12.64m Beams SHS 80x80x5.0 - 11.9kg/m	kg	742		
4.1.5.3	Bracing members L 50x50x5 - 3.77kg/m)	kg	57		
4.1.6	Grille over Openings		0		
4.1.6.1	Bracing members L 50x50x5 - 3.77kg/m)	kg	384		
4.2	SHOP PREPARATION AND PAINTING				
4.2.1	Sand Blast, Shop Prime and Paint the Architect specification of steelwork included under items 4.1	kg	8061		
4.3	TRANSPORT				
4.3.1	Delivery, including offloading and stacking on site, of steelwork included under items 4.1	kg	8061		
4.4	ERECTION				
4.4.1	Erection of steelwork included under items 4.1 including all lifting and positioning at required elevations.	kg	8061		
	Carried Forward to Summary				

Contract : Watt Street PEU		
Schedule 1		
SUMMARY OF SECTIONS		
Section	Description	Amount R
13.00	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
14.00	HOUSING, OFFICES AND LABORATORY FOR THE ENGINEER'S SITE PERSONNEL	
15.00	ACCOMMODATION OF TRAFFIC	
16.00	OVERHAUL	
17.00	CLEARING AND GRUBBING	
PSC17-2	PSC EXISTING ROAD MATERIALS	
21.00	DRAINS	
22.00	PREFABRICATED CULVERTS	
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
33.00	MASS EARTHWORKS	
34.00	PAVEMENT LAYERS OF GRAVEL MATERIAL	
35.00	STABILIZATION	
38.00	BREAKING UP EXISTING PAVEMENT LAYERS	
41.00	PRIME COAT	
42.00	ASPHALT BASE AND SURFACING	
52.00	GABIONS	
56.00	ROAD SIGNS	
57.00	ROAD MARKINGS	
58.00	LANDSCAPING AND PLANTING PLANTS	
59.00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
73.00	CONCRETE BLOCK PAVING FOR ROADS	
81.00	TESTING MATERIALS AND WORKMANSHIP	
PSC1	PROVISIONAL SUM	
PSC2	SMME's	
	SUBTOTAL SCHEDULE A	
STRUCTURAL BOQ		
	EARTHWORKS AND DEMOLITION	
	CONCRETE	
	ROOF AND CLADDING	
	STEELWORKS	
	SUBTOTAL SCHEDULE B	
	SUBTOTAL SCHEDULE (A + B)	
	Add 15% VAT	
	TOTAL	