

Work Package 2:Overhead Pedestrian Link Bridge and Parking Upgrade

NEC3 Option B

Bill of Quantities as per below

Section No.1

PRELIMINARIES

Bill No.1 Preliminaries

GPW Work Package 2

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION 1				
	PRELIMINARIES				
	BILL NO. 1				
	FIXED CHARGES ITEMS				
	Establish Facilities on Site				
1	Contractual Requirements	Sum	1		R -
2	Site Offices and Storage Sheds including temporary fencing.	Sum	1		R -
3	Ablution and latrine facilities	Sum	1		R -
4	Tools and Equipment	Sum	1		R -
5	Establishment of Plant on Site	Sum	1		R -
6	Electrical power and communications	Sum	1		R -
	OTHER FIXED CHARGES				R -
7	Remove contractor's site establishment on completion including making good and restoring the site to the satisfaction of the Client/Engineer.	Sum	1		R -
8	Site Offices and Storage Sheds	Months	5		R -
9	Site security (Allow two security guards) at all times	Months	5		R -
10	Ablution and latrine facilities	Months	5		R -
11	Tools and Equipment	Months	5		R -
12	Water Supply	Months	5		R -
13	Electric power and communications / cell phones etc	Months	5		R -
14	Company/head office overhead cost.	Months	5		R -
15	Living accomodation	Months	5		R -
16	Supervision	Months	5		R -
17	Quality management	Months	5		R -
18	Standing time due to Client causing delay. Interruption exceeding 5hrs will be considered of working day.	Sum	1		R -
19	Standing time due to Client causing delay. Interruption but not exceeding 5hrs will be a rate charge per hour	Sum	1		R -
20	Full compliance with OHS requirement and legislation	Months	5		R -
21	Plant or lifting equipment required to reach +- 12m height and radius of 40 m. (To include Operating personel)	Sum	1		R -
22	Contractor's handling costs, profit and all other charges in respect of the following items				R -
23	Additional Geotechnical Investigation requested by the Employer's agent	Prov Sum	1	R 100 000,00	
24	Contractor's handling costs, profit and all other charges	%	0	R 100 000,00	
25	Additional Land Survey requested by the Employer's	Prov Sum	1	R 50 000,00	
26	Contractor's handling costs, profit and all other charges	%	0	R 50 000,00	
27	Detection of known / unknown existing services requested by the Employer's	Prov Sum	1	R 100 000,00	
28	Contractor's handling costs, profit and all other charges	%	0	R 100 000,00	
29	Liasise with relevant authorities (for the Removal / relocation of overhead existing service lines) by others				
33	Way leave application	No	2	R 50 000,00	
34	Liasie with City of Tshwane Metropolitan municipality regarding approval of drawings and any realted bridge application permit administration,	Item	1	R 50 000,00	
35	Preparation of detailed drawings of As-built drawings and issuing of drawings in Hard copies and soft copies (PDF & DWG/Revit Modetls e.t.c)	Item	1	R 50 000,00	
	TIME RELATED CHARGES				
36	Allow a lump sum for the payment of the Community Liaison Officer (R20 000/month) including PPE and monthly cellphone data & airtime allowance for the duration of the contrcat.	Prov Sum	1	R 100 000,00	
37	Handling cost and profit in respect of CLO	%	0	R 100 000,00	
38	Construction supervision and monitoring	Months	5		
39	Full compliance with OHS requirement and legislation	Months	5		
	Amount carried forward to next page				

	Amount brought forward from previous page				
	Health & Safety Management				
40	Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals	Once Off	1		
41	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	Once Off	1		
42	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Months			
43	Allow for the appointment of a Full-Time Competent Construction Health & Safety Officer (SACPCMP Registered) to assist in the control of all health and safety related aspects on site as per CR 8(5)	Months	5		
44	Provision for traffic management and public protection measures where construction activities interface with existing roads, pedestrians and public areas.	Months	5		
45	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site as per CR	Months	5		
46	Allow for provision of Basic Emergency Preparedness and Response equipment & at least Two (2) First Aiders	Once Off	1		
	Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments:				
47	Hard Hats (High Density polyethylene, & 6-point lining)	No.			
48	Overall/work suit (100% Cotton)	No.			
49	Rain suits	No.			
50	Safety boots/shoes (Steel-Toe)	No.			
51	Safety Gumboots (Steel-Toe)	No.			
52	Safety gloves	No.			
53	Ear Plugs/Muffs	No.			
54	Dust Mask (at least FF2 type)	No.			
55	Respiratory Protective Equipment	No.			
56	Safety goggles/ Eye Protective Equipment	No.			
57	High visibility reflective vests and/or bibs	No.			
58	Personal Fall arrest and rescue equipment with and including life lines and associated equipment	No.			
59	Temporary warning signs and symbols	No.			
60	SANS approved safety netting (orange color with minimum of 1,2 meters high)	m	100		
61	Allow for Pre-employment medical examinations	No.			
62	Allow for exit medical examinations	No.			
63	Allow for all compulsory health and safety awareness programme (e.g. Inductions, toolbox Talks, Safety Promotions, Risk Assessment, First Aid, Fire Fighting, H&S related training, etc.)	Sum	1		
64	Provide Ablution Facilities and Eating Area for workers.	Months	5		
	Environmental Management				
65	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water.	Months	5		
66	Provide for the adequate and safe collection and disposal of waste material from site by an approved method.	Months	5		
Preliminaries & GeneralsAmount (Excluding Vat) carried to final summary PART A					

GPW - Overhead Pedestrian Link Bridge

OVERHEAD PEDESTRIAN LINK BRIDGE

1. DEMOLITION AND ALTERATIONS					
Item	Description	Unit	Qty	Rate	Amount
1.1	Formation of openings in existing building façade by carefully breaking open 3000mm Wide x 2400mm high as instructed by Engineer. Make good finishes to match existing.	No	2		
1.2	Remove and stockpile existing paving for later reuse	m²	20		
1.3	Making good and reinstatement works using stockpiled material to match existing surfaces	No	2		
Total carried forward to Part B Section 1 Summary					

2. SITE CLEARANCE					
2.1	CLEARING AND GRUBBING Clearing and grubbing by hand where necessary	m²	40		
2.2	Relocation of Jacaranda Trees with girth exceeding 500mm but not exceeding 1000mm	No	6		
2.3	Removal of trees 1 trees with girth exceeding 500mm but not exceeding 1000mm	No	3		
Total carried forward to Part B Section 2 Summary					

3. EARTHWORKS					
Item	Description	Unit	Qty	Rate	Amount
	Excavation for foundations				
3.1	Provisional sum allowed for additional foundation investigations	Prov Sum	1	R 45 000,00	
3.2	Handling costs and profit in respect of above item	%	10%	R 45 000,00	
3.3	Excavating soft material situated within the following successive depth ranges:				
3.4	0 m up to 1,5 m	m³	14		
3.5	> 1,5 m and < 3,0 m	m³	27		
3.6	Extra over subitem for excavation in hard material irrespective of depth	m³	1		
3.7	Extra over subitem for additional excavation required by the Engineer after excavation is complete	m³	25		
3.8	Topsoil not exceeding 200mm thick	m³	3		
3.9	Removal of unsuitable stable cut material to spoil	m³	4		
3.10	In reinforced concrete layer thicknesses not exceeding 500 mm	m³	5		
3.11	Cart away from site and dispose of all surplus and unsuitable excavated material, including loading, hauling, and tipping at a spoil site approved and designated by the Contractor.	m³	15		
3.12	Backfill and compact	m³	5		
3.13	Loading Loading from stockpile using machines and some hand labour where necessary	m³	30		
3.14	Hauling Hauling material for use in the Works and off-loading it on the site of the Works:	m3 - km	0		Rate only
3.15	Soil, gravel, crushed stone, pavement layer material and wet material Hauling material to spoil and off-loading it at a designated spoil or stockpile area:		30		
3.16	Soil and gravel material	m3 - km	30		
3.17	Boulders, hard material and concrete	m3 - km	20		
	Backfill to excavations utilising:				
3.18	Material from excavation	m3	14		
3.19	Imported material	m3	10		
3.20	Fill within a restricted area (extra over item C5.2.2)	m3	8		
3.21	Foundation fill consisting of: Rock fill using 100mm-300mm dump rock and fines, covered with a heavy filter fabric (U44)	m3	2		
Total carried forward to Part B Section 3 Summary					

4. CONCRETE WORKS					
Item	Description	Unit	Qty	Rate	Amount
4.1	Concrete blinding (50mm minimum thickness and class 15/19)	m³	2		
4.2	30MPa footing concrete	m³	18		
4.3	Reinforced Concrete to stub columns 600mm × 600mm	m³	6		
	All diameters				
4.4	Reinforcement footings	t	4		
4.5	Reinforcement columns	t	2		
4.6	Non-shrink grout	m³	0		
Total carried forward to Part B Section 4 Summary					

5. FORMWORK						
Item	Description	Unit	Qty	Rate	Amount	
5.1	<u>Substructure</u> Vertical formwork to provide class of finish indicated as F1 surface finish to foundation bases	m ²	40			
	Vertical formwork to provide class of finish indicated as F1 surface finish to hidden abutment wall surfaces					
	Vertical formwork to provide class of finish indicated as F3 surface finish to exposed abutment wall surfaces					
5.2	<u>Superstructure</u> Vertical formwork to provide class of finish indicated as F3 surface finish to deck parapet beams	m ²	50			
	Inclined formwork to provide class of finish indicated as F3 surface finish to deck soffit					
	Provision of designs and drawings of falsework and formwork by an ECSA registered competent person (Deck staging)					
Total carried forward to Part B Section 5 Summary						

6. STRUCTURAL STEEL					
Item	Description	Unit	Qty	Rate	Amount
	Detail drawings, supply, fabrication, delivery, fixing / assembly and erection of Reinforcement for: Foundation slab, Piers, Deck slab and Abutments. All steel to be corrosion free and with a 10 year warantee Mian Bridge and columns: All steel to be degreased and wire brush clean. Prime Coat: Apply at least one coat Jotamastic 70 or similar approved to a minimum of 140 Microns as recommended by paint supplier. Paint touch up with upon completion of erection / assemble. Final paint colour: One coat hardtop quick dry paint XP to minimum DFT of 60 microns, CFLC to be pregalvised Z275 material with no additional coatings. Rainwater goods and fittings (Gutters and Downpipes to be hot dipped to SAN 121 requirements, Allow for shop welding, site bolted construction Extrusions: Any design, civils, grout road closure.				
	(a) Abutments:				
6.1	(ii) High yield stress steel bars of type C, Class 2	t	4		
6.2	(b) Bridge Chords & Fence:				
6.3	(ii) 180 X 70 CHANNEL, 140 X 60 CHANNEL, IPE 40 & 70 X70 X6 ANGI F	t	8		
	(c) Bridge Deck/ Walk-way:				
6.4	(ii) 180 X 70 CHANNEL, 140 X 60 CHANNEL, IPE 40 & 70 X70 X6 ANGI F	t	4		
6.5	(d) Pier, Bolts & Corrosion Protection:				
6.6	(ii) High yield stress steel bars of type C, Class 2	t	3		
	(e) Foundations				
6.7	(ii) High yield stress steel bars of type C, Class 2 (Dowels)	t	3		
6.8	Holding down bolts	No	8		

Total carried forward to Part B Section 6 Summary	
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7. STRUCTURAL STEELWORK & RELATED WORKS					
Item	Description	Unit	Qty	Rate	Amount
7.1	Apply shop primer Corrosion protectionto steel structure	t	20		
7.2	Allow roof covering	m²	250		
7.3	Allow for revision of approved drawings and fabrication of additional bridge structural steel structure The budgetary allowances are for work to be executed either by a nominated / selected sub-contractor as instructed by the project Manager. Tenderers are to allow in their overall Preliminaries costs for this scope of work as no additional Preliminaries will be entertained should this work proceed. The Employer reserves the right to execute this work in part or in whole or omit the entire scope.	Item	1	R 450 000,00	
7.4	Supply connection plates	t	1		
7.5	High-strength bolts	No	1200		
7.6	Final protective coating	m²	650		
7.7	Allow for mobile crane (s) ,Erection,skew into position and assembly of steelwork	t	13		
7.8	Allow scaffolding	Item	1		
7.9	Allow for material laydown area preparation, located less than 500m at Minaar Street Parking Area.	Item	1		
Total carried forward to Part B Section 7 Summary					

8. COMPOSITE DECK SLAB					
Item	Description	Unit	Qty	Rate	Amount
8.1	Galvanized Bond-Dek 1.2mm	m ²	102		
8.2	30MPa concrete pumped cast to 170mm thick decking not exceeding 9m height	m ³	17		
8.3	Ref395 mesh reinforcement	m ²	102		
8.4	Shear studs 16mm dia	No	300		
8.5	Edge trims and closures	m	74		
Total carried forward to Part B Section 8 Summary					

9. ROOF STRUCTURE					
Item	Description	Unit	Qty	Rate	Amount
9.1	Secondary purlins	t	1		
9.2	Roof sheeting	m ²	102		
9.3	Flashings	m	70		
9.4	Gutters	m	68		
9.5	Rainwater downpipes Ø150	No	4		
Total carried forward to Part B Section 9 Summary					

10. ARCHITECTURAL FACADE / CLADDING					
Item	Description	Unit	Qty	Rate	Amount
10.1	Supply, Assembly, Installation and fixing of Architectural aluminium cladding	m ²	197		
10.2	cold-formed light steel framing system used to support external cladding materials on a building façade.	t	2		
10.3	Architectural perforated screens	m ²	197		
10.4	Corner trims	m	140		
10.5	Waterproof sealing	m	140		
Total carried forward to Part B Section 10 Summary					

11. UNDERSIDE SOFFIT CLADDING					
Item	Description	Unit	Qty	Rate	Amount
11.1	Metal soffit cladding	m ²	102		
11.2	Support framing	m ²	102		
Total carried forward to Part B Section 11 Summary					

12. HANDRAILS AND BALUSTRADES					
Item	Description	Unit	Qty	Rate	Amount
12.1	Stainless steel handrails	m	68		
12.2	Balustrades	m	68		
12.3	Supply and install 1.6mm thick x 350mm high kick plates to the overhead pedestrian bridge, including fabrication, galvanising/coating, fixing brackets, fasteners, and all associated works	m	68		
Total carried forward to Part B Section 12 Summary					

13. CONSTRUCTION OF SCREEN WALLS AND BOLLARDS					
Item	Description	Unit	Qty	Rate	Amount
13.1	Cast in situ concrete.				
13.2	Foundation concrete:Strength concrete (class 25/19):	m³	3		
13.3	345 x 2200mm high Facebrick Screen Wall	m²	36		
13.4	2400mm High Clear View Fence to match existing	m	30		
13.5	300mm Steel bollards filled with (class 30Mpa/19)concrete	No	16		
13.6	Supply and install steel spikes above masonry wall	m	30		
	PAINTING OF MINOR STRUCTURES				
13.7	Waterproofing all exposed surfaces of structure using Dynasytan BH or similar approved	m²	60		
13.8	Bituminous coating to all surfaces in contact with earth fill	m²	10		
Total carried forward to Part B Section 13 Summary					

14. EXPANSION JOINTS					
Item	Description	Unit	Qty	Rate	Amount
14.1	Sika Emshield DFR2 joints or similar approved	m	60		
14.2	Waterproof joint treatment	m	68		
Total carried forward to Part B Section 14 Summary					

15. TESTING & COMMISSIONING					
Item	Description	Unit	Qty	Rate	Amount
15.1	Weld testing	Item	1		
15.2	Bolt torque testing	Item	1		
15.3	Load testing of bridge	Item	1		
15.4	Final commissioning	Item	1		
15.5	Allow maintenance of the bridge for at least 24 months into the project budget and will remain available for allocation at the sole discretion of the Client	Item	1		
Total carried forward to Part B Section 15 Summary					

16. BUDGETARY ALLOWANCE					
Item	Description	Unit	Qty	Rate	Amount
	The following budgetary allowances are for work to be executed either by a nominated / selected sub-contractor as instructed by the project Manager. Tenderers are to allow in their overall Preliminaries costs for this scope of work as no additional Preliminaries will be entertained should this work proceed. The Employer reserves the right to execute this work in part or in whole or omit the entire scope.				
16.1	ELECTRICAL INSTALLATION,CONNECTION & COMMISSIONING	Prov Sum	1	R 180 000,00	
16.2	Add attendance	%	4%	R 180 000,00	
16.3	Handling costs and profit	%	6%	R 180 000,00	
16.4	LIGHTNING PROTECTION,INSTALLATION,CONNECTION & COMMISSIONING	Prov Sum	1	R 185 000,00	
16.5	Add attendance	%	4%	R 185 000,00	
16.6	Handling costs and profit	%	6%	R 185 000,00	
16.7	ALLOW FOR INSTALLATION OF FLOOR COVERING	Prov Sum	1	R 195 000,00	
16.8	Add attendance	%	4%	R 195 000,00	
16.9	Handling costs and profit	%	6%	R 195 000,00	
16.10	ALLOW FOR INSTALLATION OF SUNDRIES (FIRE DOORS,FIRE EXTINGUISHERS,SIGNAGE etc)	Prov Sum	1	R 135 000,00	
16.11	Add attendance	%	4%	R 135 000,00	
16.12	Handling costs and profit	%	6%	R 135 000,00	
Total carried forward to Part B Section 16 Summary					

FINAL SUMMARY		
Section	WORK PACKAGE 2:FINAL SUMMARY	Amount
PART B	1. DEMOLITION AND ALTERATIONS	
	2. SITE CLEARANCE	
	3. EARTHWORKS	
	4. CONCRETE WORKS	
	5. FORMWORK	
	6. STRUCTURAL STEEL	
	7. STRUCTURAL STEELWORK & RELATED WORKS	
	8. COMPOSITE DECK SLAB	
	9. ROOF STRUCTURE	
	10. ARCHITECTURAL FACADE / CLADDING	
	11. UNDERSIDE SOFFIT CLADDING	
	12. HANDRAILS AND BALUSTRADES	
	13. CONSTRUCTION OF SCREEN WALLS AND BOLLARDS	
	14. EXPANSION JOINTS	
	15. TESTING & COMMISSIONING	
	16. BUDGETARY ALLOWANCE	
	Overhead Pedestrian Link Bridge Amount (Excluding Vat) carried to final summary Part B	

Parking Upgrade					
ITEM NO.	DESCRIPTION	UNIT	QTY	Rate	Amount
	PARKING	H2			
	1. Earthworks	H3			
	Site clearance	H4			
1.1	Digging up topsoil to an average depth of 150mm, and stockpile on site	m²	0		Rate only
1.2	Digging up topsoil to an average depth of 150mm, and	m²	3898		
1.3	Breaking up 200mm and asphalt Thick surface beds	m²	100		
1.4	Breaking up 200mm and asphalt Thick surface beds	m²	100		
	Cutting down and removing, grubbing up roots, filling in holes and compacting to 93% Mod AASHTO density	H4			
1.5	Tree not exceeding 500mm girth	No	0		Rate only
	Extra over all excavations for carting away	H4			
1.6	Cut to stockpile on site, available for fill or carting away if not suitable	m3	300		
1.7	Spoil material off site	m3	500		
	Filling supplied by the contractor under parking areas, roadways, etc	H4			
1.8	Filling from stockpile	m3	0		Rate Only
1.9	Topsoil from stockpile to shape site	m3	0		Rate Only
1.10	Imported gravel-soil material	m3			Rate Only
1.11	Stabilised natural gravel (C4)	m3	0		Rate Only
1.12	Imported natural gravel	m3	0		Rate Only
1.13	19mm Gravel over site	m3			Rate Only
1.14	Bedding sand 20mm	m3	456		
1.15	Gritstone to fill permeable gaps.	m2			Rate Only
1.16	Import G7 material	m3	584		
	Compaction of ground surfaces	H4			
1.17	Compact 150mm layer of in-situ sub-grade material to 93% Mod AASHTO density	m2	3898		
1.18	Compact 150mm layer of imported gravel-soil material (C4) to 93% Mod AASHTO density	m2			Rate Only
1.19	Compact 150mm layer of imported natural gravel material to 93% Mod AASHTO density	m2			Rate Only
1.20	19mm Gravel or G3 material in 50mm layer over site with a vibrating flat drum	m2			Rate Only
1.21	Compact 150mm layer of imported G7 material to 93% Mod AASHTO density	m2			Rate Only
1.21	Compact 150mm layer of topsoil material to 93% Mod AASHTO density	m2			Rate Only
	Amount carried to Part C Summary section 1				

ITEM	DESCRIPTION	UNIT	QTY	Rate	Amount
ITEM	DESCRIPTION	UNIT	QTY	Rate	Amount
	2. Paving and related works	H4			
	Paving and related works, including excavation, subgrade preparation, layerworks, bedding sand, paving units, edge restraints, joint filling, compaction, drainage interfaces, Landscaping, Stormwater, Asphalt and all ancillary works, complete				
2.1	Supply and lay 60mm thick perforated / permeable paving blocks blocks, including subgrade preparation, bedding sand, laying, joint filling, compaction, edge restraints, and all associated works, complete.	m2	500		
2.2	Supply and lay 60mm thick interlocking concrete paving blocks, including bedding sand, joint filling, compaction, soil poisoning and all associated works, complete	m2	6090		
	Paving Edge Beams and Kerb Restraints	H4			
2.3	200mm x 300mm edge restraints (Edge beam) 30Mpa 19mm stone, smooth finish	m3	0		Rate Only
2.4	Supply and install Figure 7 concrete kerbing, including excavation, concrete bedding, haunching, jointing, alignment, and all associated works, complete	m	220		
	Testing	H3			
2.5	CBR / Indicator test of in-situ material on site (roadbed)	No	0		Rate Only
2.6	CBR / Indicator test from stockpile to confirm quality (to be used as fill layers and structural layers)	No	0		Rate Only
2.7	Bulk fill compaction tests, 4 test per 2000m² @ every 300mm depth	No	13		
2.8	Bulk fill (G7) compaction tests 4 tests per 2000m² @ every 150mm depth	No	1		
2.9	Compaction tests 4 tests per 2000m² @ every 150mm depth	No	4		
2.10	Roadbed compaction test 4 test per 2000m² @ every 150mm depth	No	12		
2.11	CBR / Indicator test for each layer of material to be used	No	5		
2.12	UCS and ITS lab test for C4 layer- 2%, 2.5%, 3% (cement) - to be submitted for approval	No	0		Rate Only
2.13	UCS and ITS control test for C4 layer (during construction)	No	5		Rate Only
2.14	C4 compaction tests 4 tests per 2000m² @ every 150mm depth	No	18		Rate Only
2.15	Tensile Strength test for paving blocks on batches	No	3		
2.16	Bulk fill (G7) compaction tests 4 tests per 2000m² @ every 150mm depth	No	10		
	Landscaping	H3			
2.17	Supply, plant and establish Kikuyu grass, including ground preparation, fertilising, watering, and maintenance during the establishment period, complete.	m2	910		
2.18	150mm Topsoil to shape and achieve levels	m3	137		
	STORMWATER	H2			
	Excavation in earth not exceeding 2m deep	H4			
2.19	Trenches	m3	20		
	Extra over trench and hole excavations in earth for excavation in	H4			
2.20	Hard rock	m3	1		
	Filling supplied by the contractor under and around pipes	H4			
2.21	Class B bedding	m3	20		
2.22	19mm Nominal aggregate	m3			Rate Only
	25MPa/13mm concrete	H4			
2.23	Slabs	m3	4		
Amount carried forward to next page					

ITEM NO	DESCRIPTION	UNIT	QTY	Rate	Amount
				Amount brought from previous page R	-
ITEM NO	DESCRIPTION	UNIT	QTY	Rate	Amount
	Rough formwork to sides	H4			
2.24	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	8		
	Fabric reinforcement	H4			
2.25	Supply and install Ref. 193 welded steel reinforcing mesh, including cutting, bending, lapping, tying, spacer supports, and all associated works, complete	m2	12		
	Stormwater kerb inlet [Detail 1 as per drawing DRG-CC-214303] Supply and construct stormwater kerb inlet not exceeding 2000mm deep, including excavation, concrete works, connection to stormwater pipework, backfilling, and all associated works, complete	H4			
2.26	Kerb inlet	No	0		Rate only
	Perforated pipe	H4			
2.27	160mmØ diameter perforated pipe (for subsoil)	m	0		Rate only
	Class 100D concrete pipes with spigot and socket joints with rubber rings	H4			
2.28	450mm Pipes laid in and including trenches not exceeding 1m deep	m	42		
	Sumps, catchpits, inspection chambers, etc including concrete kerbs or precast concrete cover slabs (gratings and covers	H4			
2.29	650 x 795mm Brick catchpit 595mm deep internally	No	0		Rate only
2.30	New Junction box (1.5m (L) x 1m (W) x1.5m (D)	No	1		
2.31	Double grid inlet	No	2		
2.32	Field inlet	No	1		
	Drainage	H4			
2.33	BIDIM geomembrane (Kaytech or similar approved) to be wrapped around 19mm aggregate	m2	0		Rate only
2.34	LLDPE GRI-GM17 geotextile (thickness 1.0mm) or similar approved	m2	0		Rate only
	Reinstate asphalt	H4			
2.35	Removal of tar section for the installation of the services such as stormwater pipe / Electricity /Sewer / Water / Fibre etc	m2	18		
2.36	40mm TPA medium continuously asphalt surfacing	m2	18		
2.37	150mm crushed stone. Graded un-weathered crushed stone (G1)	m3	3		
2.38	150mm C4 Stabilized natural gravel layer including compaction to 95% Modified AASHTO density	m3	3		
2.39	G7 bulk fill in 150mm layers including compaction to 93% modified AASHTO density.	m3	3		
	Testing	H3			
2.40	Compaction test on pipe trenches to be done and supplied every 300mm layers @ 20m intervals	No	2		
	Surveys	H3			
2.41	As-built survey of the current platform to confirm values (allowance)	No	1		
2.42	Survey of the bulk earthworks platform levels once complete (allowance)	No	1		
2.43	As built of the site on compaction (allowance)	No	1		
				Amount carried to summary section 2	

ITEM NO	DESCRIPTION	UNIT	QTY	Rate	Amount
ITEM NO	DESCRIPTION	UNIT	QTY	Rate	Amount
	3. Vehicle Shelter,Guard House,Concrete Base,PV Mast Lights,Signage and Other related Works	H2			
3.1	Supply and install a three-vehicle sheltered parking structure 7.5 m wide to 5m length x 2.1m high comprising galvanized mild steel support columns, beams, rafters, and bracing, complete with powder-coated finish. Roof covering to be profiled metal sheeting fixed to steel purlins with approved screws and accessories. All inclusive of foundations, concrete bases, anchor bolts, excavations, backfilling and associated builder's work	No	71		
3.2	Supply and install a three (3) vehicle shaded factory ready parking bay structure 7.5 m wide to 5m length x 2.1m high comprising galvanized steel support posts, beams, connection brackets, and high-density UV-stabilized shade cloth roofing securely tensioned and fixed to the supporting framework. The completed structure shall provide effective solar protection for parked vehicles while allowing ventilation and light penetration. All inclusive of excavation, concrete foundations, anchor bolts, base plates, and other associated builder's work	No	160		
3.3	Supply and install parking bay identification numbers fabricated from steel plate, measuring approximately 200 mm high x 100 mm wide, cut, embossed, engraved, or vinyl-faced as approved. Numbers shall be mounted securely to parking bay kerbs, walls, posts, or other designated surfaces.	No	231		
3.4	Allow Prime Cost Sum of R100,000.00 covers the complete Guard House as per approved drawings, including all electrical, plumbing, fittings, finishes, and associated services. Site clearance, relocation of existing services, bulk service connections beyond the guard house footprint, and foundation requirements, Site clearance, relocation of existing services, service connections beyond the guard house footprint.	No	2		
3.5	Construct Concrete base for guardhouse 3m x 4m	m3	3		
3.6	Concrete base for mobile clinic Construct a reinforced concrete foundation and floor slab for a guard house measuring 3.0 m x 4.0 m, complete with all excavation, formwork, reinforcement, concrete placement, finishing, curing, and associated works, in accordance with the engineer's details and approved drawings.	m3	30		
3.7	PV Panel high mast lighting Provide for PV panel high mast lighting as a Prime Cost (PC) sum of R30,000.00, including supply, delivery, installation, testing and commissioning, complete.	Item	7		
3.8	Sidewalk paving Road Signage	m2	200		
3.9	Supply and install stop signs, including sign face, galvanised steel post, concrete footing, mounting brackets, and all associated works, complete.	No	4		
3.10	Supply and install yield signs, including sign face, galvanised steel post, concrete footing, mounting brackets, and all associated works, complete.	No	3		
3.11	Supply and install 30 km/h speed limit signs, including sign plates, galvanised steel support posts, concrete foundations, mounting hardware, and all ancillary works, complete.				
3.12	Supply and install galvanised speed culming studs, including setting out, preparation of the existing surface, application of approved surfacing material, road markings, traffic signage, and all associated works, complete.	No	16		
	Fire Hydrant and associated fire reticulation works				
	Supply and install fire hydrant complete, including excavation, connection to existing water reticulation network connection to a maximum of 30m, valves, fittings, concrete thrust blocks, marker posts, testing, commissioning, backfilling, and all associated	Item	4		
Amount carried to summary section 3					
Section	WORK PACKAGE 1:FINAL SUMMARY	Amount			
PART C	1. Earthworks				
	2. Paving and related works				
	3. Vehicle Shelter,Guard House,Concrete Base,PV Mast Lights,Signage and Other related Works				
	Parking Upgrade Amount (Excluding Vat) carried to final summary Part C				

GPW - Overhead Pedestrian Link Bridge & Parking Upgrade

FINAL SUMMARY		
Section	WORK PACKAGE 2:FINAL SUMMARY	Amount
Part A	Preliminaries & Generals	
Part B	Overhead Pedestrian Link Bridge (Excluding Vat)	
Part C	Parking Upgrade (Excluding VAT)	
SUB - TOTAL 1		
CONTINGENCY Add 5% contingency into the project budget and will remain available for allocation at the sole discretion of the Client. Any utilization of the contingency amount shall be subject to the Client's prior approval and may only be applied to unforeseen costs, variations, or additional project requirements.		
SUB-TOTAL 2 (Excluding VAT)		
ADD:Value Added Tax (VAT) Calculated at 15%		
Total Carried to form of offer		