

BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL****PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Environmental Management</u>				
1	C1.2.1.1 PS.C1.2.1.1 PS.9	Monitoring of compliance with and reporting on the EMP	months	5		
		<u>Programming and Reporting</u>				
2	C1.2.2.3 PS.1.1 PS. 1 PS.C1.2.2.3	Submission of a Scheme 2 Initial Programme	Lump sum	1		
3	C1.2.2.4 PS.C1.2.2.3	Submission of a Scheme 2 Full Programme	Lump sum	1		
4	C1.2.2.5 PS.C1.2.2.5	Reviewing and updating a Scheme 2 programme every month	months	5		
5	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	months	5		
		<u>Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours</u>				
6	C1.2.3.3	Cleaning out culverts	m3	30		
		<u>Stakeholder Management and Liaison</u>				
7	C1.2.4 PS.12	Stakeholder Management and Liaison, including CPG subcontractors	months	5		
		<u>Health and Safety</u>				
8	C1.2.5.1 PS.10	Safety:Health and safety plan	Lump sum	1		
9	C1.2.5.2 PS.10	Implementation of health and safety plan	months	5		
		<u>Community Liaison Officer (CLO)</u>				
10	PS.13	Allow for CLO to be appointed	PC Sum	90000	1.00	90,000.00
11	PS.13 CL.6.6.2 (GCC 2015)	Handling costs and profit in respect of	%	90000		
		<u>Site Security</u>				
12	PS.15	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	months	5		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL**R**

The Widening of Citrus Lane- Ward 36

PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.3.1.1 PS.C1.3.1	The Contractor's general obligations:Fixed obligations	Lump sum	1		
2	C1.3.1.2 PS.C1.3.1	Value-related obligations	Lump sum	1		
3	C1.3.1.3 PS.C1.3.1	Time-related obligations	months	5		
4	C1.3.2 PS.C1.3.2	Contract sign boards (as per the drawing provided by the Engineer)	no	1		
5	PS.18.3	Submission of As-Built Data	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART 0104 C1.4 FACILITIES FOR THE ENGINEER

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.4.3.31	Rain gauge	no	1		
		Setting Out				
2	PS.16 PS.18 PS.20	Allowance for the additional survey required by the Engineer	PC Sum	15000	1.00	15,000.00
3	PS.16 PS.18 PS.20 CL.6.6.2 (GCC 2015)	Handling costs in respect of item above	%	15000		
		Quality Control				
4	PS.14.2 PS.17 PS.19	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART 0105 C1.5 ACCOMMODATION OF TRAFFIC

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.5.1.1	Accommodation of pedestrian and non-motorised traffic: Accommodation of pedestrian and non-motorised traffic	months	5		
2	C1.5.2	Accommodation of vehicular traffic	months	5		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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The Widening of Citrus Lane- Ward 36

SECTION 2 SITE CLEARANCE**PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Clearing and Grubbing</u>				
1	C1.6.1.1 PS.C1.6.1	Clearing with machines and some hand labour where necessary	m2	660		
2	C1.6.1.2 PS.C1.6.1	Clearing with hand labour only when labour enhanced work is specified	m2	330		
3	C1.6.2.1 PS.C1.6.1	Grubbing with machines and some hand labour where necessary	m2	220		
4	C1.6.2.2 PS.C1.6.1	Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine	m2	225		
		<u>Trees</u>				
5	C1.6.3.1	Removal and grubbing of large trees and tree stumps: Girth equal to or exceeding 1,0 m up to and including 2,0 m	no	15		
6	C1.6.3.2	Removal and grubbing of large trees and tree stumps: Girth exceeding 2,0 m up to and including 3,0 m	no	4		
7	C1.6.3.3	Removal and grubbing of large trees and tree stumps: Girth exceeding 3,0 m	no	3		
		<u>Conservation of topsoil</u>				
8	C1.6.9.1	Conservation of topsoil: Stockpiling topsoil	m3	330		
		<u>Existing Stormwater</u>				
9	C1.6.4.1 PS.C1.6.4.1	Removal of structures: Demolition of brickwork of Manholes, Culverts and Inlets.	no	3		
10	C1.6.4.1 PS.C1.6.4.1	Removal of structures: Stormwater manholes and inlet; covers and frames. Spoil at tip, including haulage	no	2		
11	C1.6.4.1 PS.C1.6.4.1	Removal of Stormwater Pipes, Diameter 300mm-600mm. Spoil at tip, including haulage	m	5		
12	C1.6.4.1 PS.C1.6.4.1	Removal of structures: Demolition of brickwork of a wall. Depth 0.0m to 1.0m	m3	6		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE

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The Widening of Citrus Lane- Ward 36

PART 0107 C1.7 LOADING AND HAULING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.7.2.1(a) PS.C1.7.2.2	Hauling material for use in the Works and off-loading it on the site of the Works:(a) Soil, gravel, crushed stone and pavement layer material	m3	150		
2	C1.7.2.2(a) PS.C1.7	Hauling material to spoil and off-loading it at a designated spoil area:(a) Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m3	220		
3	C1.7.2.2(b) PS.C1.7	Hauling material to spoil and off-loading it at a designated spoil area:(a) Cleared and grubbed material (organic matter and all other unsuitable or waste material) (b) Soil and gravel material	m3	300		
4	C1.7.2.2(c) PS.C1.7	Hauling material to spoil and off-loading it at a designated spoil area:(a) Cleared and grubbed material (organic matter and all other unsuitable or waste material)(c) Boulders and hard material	m3	80		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE

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The Widening of Citrus Lane- Ward 36

SECTION 3 SERVICES**PART 0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Location, identification, protection and relocation of existing services</u>				
1	C2.1.1.1 PS.2 PS.18.1	Contractor's obligation	Lump sum	1		
		<u>Water Services</u>				
2	C2.1.1.2 PS.3	Permanent services relocation or protection work by others	PC Sum	80000	1.00	80,000.00
3	C2.1.1.3 PS.3 CL.6.6.2 (GCC 2015)	Handling costs and profit in respect of item C2.1.1.2 above	%	80000		
		<u>Electric Services</u>				
4	C2.1.1.2 PS.6	Permanent services relocation or protection work by others	PC Sum	70000	1.00	70,000.00
5	C2.1.1.3 PS.6 CL.6.6.2 (GCC 2015)	Handling costs and profit in respect of item C2.1.1.2 above	%	70000		
		<u>Sewer</u>				
6	C2.1.1.2 PS.4	Permanent services relocation or protection work by others	PC Sum	40000	1.00	40,000.00
7	C2.1.1.3 PS.4 CL.6.6.2 (GCC 2015)	Handling costs and profit in respect of item C2.1.1.2 above	%	40000		
		<u>Private Services</u>				
8	C2.1.1.2	Permanent services relocation or protection work by others	PC Sum	30000	1.00	30,000.00
9	C2.1.1.3 CL.6.6.2 (GCC 2015)	Handling costs and profit in respect of item C2.1.1.2 above	%	30000		

TOTAL CARRIED TO SECTION 3 SUMMARY: SERVICES**R**

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SECTION 4 EARTHWORKS**PART 0402 C4.2 CUT MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Excavation to Stockpile or Fill</u>				
1	C4.2.3.1 PS.C4.2	Excavating of materials in cuttings, material obtained from: Soft excavation	m3	132		
		<u>Excavation to Spoil</u>				
2	C4.2.8.1 PS.C4.2	Excavate material to spoil in sites designated by the Employer, material obtained from: Soft excavation, overburden and unsuitable material	m3	66		
3	C4.2.9.3 PS.C4.2	Excavate material to spoil in sites designated by the Contractor, material obtained from: Boulder excavation class B	m3	45		
4	C4.2.4.3 PS.C4.2	Excavation of materials in box cuts for use in the works, material obtained from: Boulder excavation class B	m3	40		
5	C4.2.9.4 PS.C4.2	Excavate material to spoil in sites designated by the Contractor, material obtained from: Hard excavation (other than by blasting)	m3	15		
6	C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m3	49.5		
7	C4.2.12.1(a)	Finishing the side slopes of Cuttings: (a) In soft material	m2	330		

TOTAL CARRIED TO SECTION 4 SUMMARY: EARTHWORKS

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PART 0403 C4.3 EXISTING ROAD MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C4.3.4.1(a)	Saw-cutting existing materials within the following average depth ranges:Asphalt:(a) Up to 50 mm	m	220		

TOTAL CARRIED TO SECTION 4 SUMMARY: EARTHWORKS

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PART 0502 C5.2 FILL

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.2.11.1	Finishing -off fill slopes	m2	85		

TOTAL CARRIED TO SECTION 4 SUMMARY: EARTHWORKS

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The Widening of Citrus Lane- Ward 36

SECTION 5 ROADWORKS**PART 0303 C3.3 CONCRETE KERBING AND CHANNELING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.3.2.1 PS.C3.3.2.1	Prefabricated kerbing-channeling (Type C, Figure 8 mountable kerb with 125mm wide channel/fillet for bellmouths. Drawing 38577. Kerb to be laid on 20/19 concrete foundation	m	200		
2	C3.3.3.1 PS.C3.3.2.1	Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves of radii more than or equal to 5,0 m but less than 20 m	m	30		
3	C3.3.4	Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways	m	10		
4	C13.4.11	Cast in-situ concrete for Pedestrian / Vehicular Scoop (Grade 20/19)	m3	15		
		Open Drains				
5	C3.3.6.2	Cast in situ concrete chutes (V-Drain as per drawing) Item to include formation, backfill and compaction, Concrete reinforcement and formwork	m	15		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS

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PART 0404 C4.4 COMMERCIAL MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C4.4.2.1(c - l)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers:Pavement layer material: Type G4	m3	62		
2	C4.4.2.1(c - l)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers:Pavement layer material: Type G6	m3	50		
3	C4.4.2.1(c - l)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers:Pavement layer material: Type G7	m3	80		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS

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PART 0501 C5.1 ROADBED

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.1.1.2	Roadbed construction and compaction to 95 % of MDD	m3	50		

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Part Continued **PART 0501 C5.1 ROADBED**

Item	Clause	Description	Unit	Quantity	Rate	Amount
2	C5.1.4.2(a)	Removal of unsuitable material to spoil: In layer thicknesses exceeding 200 mm (a) Stable material	m3	30		
3	C5.1.5.1	In-place treatment of roadbed in hard material: by ripping	m3	20		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS

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PART 0503 C5.3 ROAD PAVEMENT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers Processing and Compaction	no	1		
2	C5.3.2.1(k)	Construction of pavement layers: Upper subbase gravel (G4) layer, 100mm thickness, compacted to 98 % of MDD	m3	42		
3	C5.3.2.1(j)	Construction of pavement layers: Lower subbase gravel (G6) layer, 125mm thickness indicated, compacted to 93 % of MDD	m3	42		
4	C5.3.2.1(b)	Construction of pavement layers: Lower selected subgrade (G7) layer, 300mm thickness, compacted to 93 % of MDD	m3	50		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS

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PART 0901 C9.1 ASPHALT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C9.1.1.2(a) PS.C9.1	Asphalt Mix Design Sand skeletal mixes: (a) Continuously graded base or surfacing (Sa-S10)	Lump sum	1		
2	C9.1.5.1(e) PS.C9.1	Asphalt Surface New construction (paver laid): (e) Sand skeletal mix – continuously graded (Sa-S10) (35mm layer)	m2	330		
3	C8.1.1.2	Prime coat: MC - 30 cut back bitumen. 0.8l/m2 Bond Coat (Tack)	l	20		
4	C9.1.3.1 PS.C9.1	Application of bond coat: Stable-grade 30% net bitumen emulsion as specified. Applied with a calibrated distributor	l	30		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS

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The Widening of Citrus Lane- Ward 36

PART 1203 C12.3 GROUND IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C12.3.20 PS.C12.3.20	Importing dump rock for subgrade improvement, 300mm thick	m3	30		
2	C3.1.11 PS.C12.3.20	Supply and place minimum grade 5 geofabric to dumprock layer	m2	60		
3	C12.3.19 PS.C12.3.20	Importing G7 quality material from approved sources, to be applied over dumprock layer	m3	60		

TOTAL CARRIED TO SECTION 5 SUMMARY: ROADWORKS**R**

The Widening of Citrus Lane- Ward 36

SECTION 6 STORMWATER**PART 0301 C3.1 DRAINS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>V-Drains</u>				
1	C3.1.1.1(a)	Excavation for open drains: Excavating all material situated within the following depth ranges below the surface level using conventional methods:(a) 0 m to 1,5 m	m3	33		
2	C13.4.11	Cast in situ concrete for v-drains as directed by the Engineer (Grade 20/19)	m3	30		
		<u>Subsoil Drainage</u>				
3	C3.1.4.1(a)	Excavation and disposal of material for subsoil drainage systems: in all material situated within the following depth ranges below the surface:(a) 0 m to 1,5 m	m3	20		
4	C3.1.7.2	Crushed stone obtained from commercial sources (13,2mm stone chips)	m3	15		
5	C3.1.8.2	Natural sand from commercial sources (Clean Course Sand)	m3	12		
6	C3.1.9.1	Pipes in subsoil drainage systems: U-PVC pipes and fittings, normal duty, complete with couplings (110mm, perforated)	m	30		
7	C3.1.11 PS.C12.11	Geotextiles (Drainage Grade, A3)	m2	60		
8	C3.1.20	Breaking into existing drainage structures and install subsoil drain pipe	no	2		
9	C3.1.22	Test flushing of subsoil drain pipe systems	no	2		

TOTAL CARRIED TO SECTION 6 SUMMARY: STORMWATER

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PART 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Excavation: Stormwater Pipes and Structures</u>				
1	C3.2.1.1(a) PS.C2.1.6	Excavation for culvert structures for pipes: in all material situated within the following depth ranges below the surface level:(a) 0 m to 1,5 m	m	30		
2	C3.2.1.1(b) PS.C2.1.6	Excavation for culvert structures for pipes: in all material situated within the following depth ranges below the surface level: (b) Exceeding 1,5 m and up to 3,0 m	m	20		

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Part Continued **PART** 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
3	C3.2.1.1(a) PS.C2.1.6	Excavation for culvert structures for Manholes, Inlets and Headwalls: in all material situated within the following depth ranges below the surface level:(a) 0 m to 1,5 m	m3	20		
4	C3.2.1.1(b) PS.C2.1.6	Excavation for culvert structures for Manholes, Inlets and Headwalls: in all material situated within the following depth ranges below the surface level:(b) 1,5 m to 3,0 m	m3	15		
5	C3.2.1.4 PS.C2.1.6	Extra over sub-item C3.2.1.1 for excavation in hard or boulder material,irrespective of depth	m3	10		
		Backfilling				
6	C3.2.2.1	Backfilling: Using the excavated material	m3	30		
		Stormwater Concrete Pipes: Spigot and Socket Type				
7	C3.2.3.2 PS.C3.2.3.2	Concrete pipe culverts: On Class B bedding (450mm diameter concrete Class 100D)	m	20		
		Structures				
8	PS.C3.2.15.2	Manhole: Type A with a heavy duty polymer concrete cover; Depth: Exceeding 0,0m and up to 1,5m	no	2		
9	PS.C3.2.15.2	Inlets and outlets to culverts: Headwalls, Type A, for 450mm pipes	no	4		
10	C3.2.23	Breaking into existing drainage structures and building in pipes or culverts of the following size (pipe diameter: 450-600mm)	no	2		
11	PS.C3.2.30	Raise/Lower manhole in paved area by :- 0 to 250mm	no	3		
		Compaction				
12	C3.2.24.1	Compaction of bedding for inlets, outlets, manholes and catchpits: Preparation and compaction of insitu bedding material to 90% of MDD (depth 150mm)	m3	6		

TOTAL CARRIED TO SECTION 6 SUMMARY: STORMWATER

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The Widening of Citrus Lane- Ward 36

PART 1206 C12.6 MECH STABILISED FILL AND GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C12.6.14.1(a)	Foundation trench excavation: Excavating all material situated within the following depth ranges below the surface level(a) 0 m to 1,5 m	m3	30		
2	C12.6.15	Surface preparation for bedding the gabions and mattresses	m2	20		
3	C12.6.16.2	Reno mattress: PVC coated gabion boxes (2,0m x 1,0m x 0.3m)	m3	20		
4	C12.6.17 PS.C12.11	Geotextile (Filtration and separation for use with reno mattress, min Grade 7)	m2	30		

TOTAL CARRIED TO SECTION 6 SUMMARY: STORMWATER**R**

The Widening of Citrus Lane- Ward 36

SECTION 7 RETAINING WALLS**PART 1206 C12.6 MECH STABILISED FILL AND GABIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Gabion Walls</u>				
1	C12.6.14.1(a)	Foundation trench excavation: Excavating all material situated within the following depth ranges below the surface level(a) 0 m to 1,5 m	m3	60		
2	C12.6.14.1(b)	Foundation trench excavation: Excavating all material situated within the following depth ranges below the surface level(b) Exceeding 1,5 m and up to 3,0 m	m3	30		
3	C12.6.15	Surface preparation for bedding the gabions	m2	60		
4	C12.6.16.2	Gabions and mattresses: PVC coated gabion boxes (2,0m x 1,0m x 1,0m)	m3	40		
5	C12.6.17 PS.C12.11	Geotextile (Filtration, min Grade 7)	m2	60		
		<u>Segmented Block Walls (Geolock or similar approved)</u>				
6	C12.6.2	Excavation for wall base foundation	m3	35		
7	C12.6.3	Concrete for wall base foundation (Grade 25/26)	m3	15		
8	C12.6.7	Metallic reinforcing mesh (Mesh Ref 245)	m2	40		
9	C12.6.12.2	Facings (Geolock wall as per drawing for wall 0-2m): For concrete block wall facing	m2	80		
10	C12.6.13	Drainage (50mm weepholes installed inclusive of all elements as per the drawing)	no	10		
11	C12.6.11	Backfill (Cement stabilised backfill as per the drawing)	m3	18		
12	C12.6.11	Backfill (19mm stone chips)	m3	12		
13	C12.6.11	Backfill (compacted to 95% MDD)	m3	10		
14	C12.6.17	Geotextile (Drainage grade A3)	m2	60		
15	C12.6.3	Concrete for wall Top Blocks of wall (Grade 25/26)	m3	10		
16	C3.1.9.1	Pipes in subsoil drainage systems: U-PVC pipes and fittings, normal duty, complete with couplings (110mm, perforated)	m	20		

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Part Continued **PART** 1206 C12.6 MECH STABILISED FILL AND GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
17	C3.3.6.2	Precast concrete chutes (catchwater drain, minimum 300mm wide by 150mm deep as per the drawing). Item to include all materials, formation, backfill and installation.	m	20		

TOTAL CARRIED TO SECTION 7 SUMMARY: RETAINING WALLS

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The Widening of Citrus Lane- Ward 36

SECTION 8 ANCILLARY ROADWORKS**PART 1104 C11.4 ROAD RESTRAINT SYSTEMS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.4.1.1(c)	Erecting of guardrails at 3,81 m spacing: Complete galvanized system compliant to SANS 1350:(c) On concrete or other surfaces, with spacer blocks but without posts (Drawing 38580)	m	80		
2	C11.4.1.2(a)	Terminal sections for 3,81 guardrails comprising of:(a) End wings to SANS350	no	8		
3	C11.4.4.1	Extra over C11.4.1 for horizontally curved guard rails factory bent to a radius of less than 45 m	m	10		
4	C11.4.6.2	Reflective plates: lastic plates	no	30		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROADWORKS

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PART 1106 C11.6 ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.6.3.1	Road sign supports: Steel tubing (75 mm diameter, Galvanised)	no	8		
2	C11.6.1.3(a)	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from: Prepainted galvanized steel plate: (a) Area 0 to 0,52 m2	m2	4		
3	C11.6.5.1	Excavation and backfilling for road sign supports: Excavating soft material and backfilling	m3	6		
4	C13.4.11	Cast in situ concrete for road sign footings as directed by the Engineer (Grade 20/19)	m3	4		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROADWORKS

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PART 1107 C11.7 ROAD MARKINGS AND ROAD STUDS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.7.1.4 PS.C11.7.1	White lettering and symbols (Thermoplastic)	m2	16		
2	C11.7.1.7 PS.C11.7.1	Transverse lines, painted island and arrestor bed markings (White) (Thermoplastic)	m	50		
3	C11.7.1.1	Road marking: White lines broken or unbroken (paint type and width of line indicated)"	km	0.22		

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PART 1107 C11.7 ROAD MARKINGS AND ROAD STUDS

Item	Clause	Description	Unit	Quantity	Rate	Amount
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PART 1108 C11.8 LANDSCAPING AND PLANTING PLANTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.8.3.3(a) PS.C11.8.3	(a) Topsoil obtained from within the road reserve or borrow areas (100mm depth)	m ³	55		
TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROADWORKS						R

PART 1109 C11.9 FINISHING ROAD AND ROAD RESERVE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.9.1.2	Single carriageway road	km	0.22		
TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROADWORKS						R

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 PRELIMINARY AND GENERAL

PART 0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	
PART 0103	C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND	
PART 0104	C1.4 FACILITIES FOR THE ENGINEER	
PART 0105	C1.5 ACCOMMODATION OF TRAFFIC	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 2 SITE CLEARANCE

PART 0106	C1.6 CLEARING AND GRUBBING	
PART 0107	C1.7 LOADING AND HAULING	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 3 SERVICES

PART 0201	C2.1 GEN REQMENTS AND TRENCHING SERVICE	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 4 EARTHWORKS

PART 0402	C4.2 CUT MATERIALS	
PART 0403	C4.3 EXISTING ROAD MATERIALS	
PART 0502	C5.2 FILL	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 5 ROADWORKS

PART 0303	C3.3 CONCRETE KERBING AND CHANNELING	
PART 0404	C4.4 COMMERCIAL MATERIALS	
PART 0501	C5.1 ROADBED	
PART 0503	C5.3 ROAD PAVEMENT LAYERS	
PART 0901	C9.1 ASPHALT LAYERS	
PART 1203	C12.3 GROUND IMPROVEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 6 STORMWATER

PART 0301	C3.1 DRAINS	
PART 0302	C3.2 CULVERTS	
PART 1206	C12.6 MECH STABILISED FILL AND GABIONS	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 7 **RETAINING WALLS**

PART 1206	C12.6 MECH STABILISED FILL AND GABIONS	
TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 8 ANCILLARY ROADWORKS

PART 1104	C11.4 ROAD RESTRAINT SYSTEMS	
PART 1106	C11.6 ROAD SIGNS	
PART 1107	C11.7 ROAD MARKINGS AND ROAD STUDS	
PART 1108	C11.8 LANDSCAPING AND PLANTING PLANTS	
PART 1109	C11.9 FINISHING ROAD AND ROAD RESERVE	
TOTAL CARRIED TO FINAL SUMMARY		

SUMMARY OF BILL OF QUANTITIES

Section

1	PRELIMINARY AND GENERAL		R	_____
0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	R		_____
0103	C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND	R		_____
0104	C1.4 FACILITIES FOR THE ENGINEER	R		_____
0105	C1.5 ACCOMMODATION OF TRAFFIC	R		_____
2	SITE CLEARANCE		R	_____
0106	C1.6 CLEARING AND GRUBBING	R		_____
0107	C1.7 LOADING AND HAULING	R		_____
3	SERVICES		R	_____
0201	C2.1 GEN REQMENTS AND TRENCHING SERVICE	R		_____
4	EARTHWORKS		R	_____
0402	C4.2 CUT MATERIALS	R		_____
0403	C4.3 EXISTING ROAD MATERIALS	R		_____
0502	C5.2 FILL	R		_____
5	ROADWORKS		R	_____
0303	C3.3 CONCRETE KERBING AND CHANNELING	R		_____
0404	C4.4 COMMERCIAL MATERIALS	R		_____
0501	C5.1 ROADBED	R		_____
0503	C5.3 ROAD PAVEMENT LAYERS	R		_____
0901	C9.1 ASPHALT LAYERS	R		_____
1203	C12.3 GROUND IMPROVEMENT	R		_____
6	STORMWATER		R	_____
0301	C3.1 DRAINS	R		_____
0302	C3.2 CULVERTS	R		_____
1206	C12.6 MECH STABILISED FILL AND GABIONS	R		_____
7	RETAINING WALLS		R	_____
1206	C12.6 MECH STABILISED FILL AND GABIONS	R		_____
8	ANCILLARY ROADWORKS		R	_____
1104	C11.4 ROAD RESTRAINT SYSTEMS	R		_____
1106	C11.6 ROAD SIGNS	R		_____
1107	C11.7 ROAD MARKINGS AND ROAD STUDS	R		_____
1108	C11.8 LANDSCAPING AND PLANTING PLANTS	R		_____
1109	C11.9 FINISHING ROAD AND ROAD RESERVE	R		_____

SUB TOTAL **R** _____

ADD VAT (15%) - (only if a registered VAT Vendor) **R** _____

TOTAL CARRIED TO FORM OF TENDER **R** _____