

Surface Repairs to Roads, Sidewalks and Trench Re-instatments As and When Required within The West Region of eThekweni Municipality for 24 months.

BILL OF QUANTITIES

SECTION 1 PRELIMINARY AND GENERAL

PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.2.2.1 PS.C1.2.2.1	Programming and Reporting: Submission of a Scheme 1 Programme A new programme for each batch of activities.	no	1		
2	C1.2.5.1	Safety:Health and safety plan	Lump sum	1		
3	C1.2.5.2	Implementation of health and safety plan	months	24		
		<u>Community Liaison Officer</u>				
4	PS.C1.2.10	Provision for a Community Liaison Officer	PC Sum	300000	1.00	300,000.00
5	PS.C1.2.10	Handling cost, profit and all other charges in respect of Community Liaison Officer	%	300000		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.3.1.1	Fixed obligations	Lump sum	200000		
2	C1.3.1.3	Time-related obligations	months	24		

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
		<u>Temporary Traffic Control Facilities</u>				
1	C1.5.7.1(a)	Delineators including mounting bases and ballast: Single sided, reversible left or right (1200mm x 250mm)	no	50		
2	C1.5.7.1(b)	Delineators including mounting bases and ballast: Double sided, reversible left or right (1200mm x 250mm)	no	50		
3	C1.5.7.2	Traffic cones, minimum height 750 mm	no	50		
4	C1.5.7.5(d)	Provision of Illuminated Traffic Signs: (d) Illuminated road sign – TW series (length of sides indicated)	no	0		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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SECTION 2 BULK EARTHWORKS

PART 0404 C4.4 COMMERCIAL MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Import: Supply Material Only</u>				
1	C4.4.2.1(b)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G2	m3	1500		
2	C4.4.2.1(e)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G5	m3	500		
3	C4.4.2.1(g)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G7	m3	500		
		<u>Processing and Compacting of Materials</u>				
4	C5.2.2.1(a)	Fill construction: Normal fill material (G2) in compacted layer thicknesses of 200 mm and less: (a) Compacted to 98 % of MDD	m3	1500		
5	C5.2.2.1(a)	Fill construction: Normal fill material (G5) in compacted layer thicknesses of 200 mm and less: (a) Compacted to 95 % of MDD	m3	500		
6	C5.2.2.1(a)	Fill construction: Normal fill material (G7) in compacted layer thicknesses of 200 mm and less: (a) Compacted to 95 % of MDD	m3	500		

TOTAL CARRIED TO SECTION 2 SUMMARY: BULK EARTHWORKS

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PART 0501 C5.1 ROADBED

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Excavation to Spoil, Excluding Haulage</u>				
1	C5.1.2.1	Excavate material to spoil from roadbed construction, material obtained from: (a) Soft excavation	m3	100		
2	C5.1.2.1	Excavate material to spoil from roadbed construction, material obtained from: (d) Hard excavation	m3	25		
		<u>Hauling of Material to Spoil</u>				
3	C1.7.2.2(a)	Hauling of all material to spoil and off-loading it at an approved municipal dumpsite	m3 * km	1000		

TOTAL CARRIED TO SECTION 2 SUMMARY: BULK EARTHWORKS

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Surface Repairs to Roads, Sidewalks and Trench Re-instatments As and When Required within The West Region of eThekweni Municipality for 24 months.

SECTION 3 ROAD REPAIRS

PART 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Saw Cut</u>				
1	C8.8.1.1(a)	Saw cutting pavement layers for patching Asphalt or bituminous surfacing to an average dept: (a) Not exceeding 50 mm"	m	2000		
2	C8.8.1.1(b)	Saw cutting pavement layers for patching Asphalt or bituminous surfacing to an average dep : (b) Exceeding 50 mm but not exceeding 100 mm	m	1000		
3	C8.8.1.1(c)	Saw cutting pavement layers for patching Asphalt or bituminous surfacing to an average dept: (c) Exceeding 100 mm	m	1000		
		<u>Removal of Asphalt</u>				
4	C8.8.2.1(a)	Excavation in existing pavements for patching (non-milling) Asphalt layers (a) Not exceeding 10 m ² including for edge repairs wider than 250 mm"	m ³	500		
5	C8.8.2.1(b)	Excavation in existing pavements for patching (non-milling) Asphalt layers (b) Exceeding 10 m ² but not exceeding 50 m ² including for edge repairs wider than 250 mm	m ³	500		
6	C8.8.2.1(c)	Excavation in existing pavements for patching (non-milling) Asphalt layers (c) Exceeding 50 m ² up to 100 m ² including for edge repairs wider than 250 mm	m ³	500		
7	C8.8.2.1(d)	Excavation in existing pavements for patching (non-milling) Asphalt layers (d) Exceeding 100 m ²	m ³	500		
		<u>Removal of Pavement Layers</u>				
8	C8.8.2.3(a)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (a) Not exceeding 10 m ² including for edge repairs wider than 250 mm	m ³	430		
9	C8.8.2.3(b)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (b) Exceeding 10 m ² but not exceeding 50 m ² including for edge repairs wider than 250 mm	m ³	450		

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Part Continued **PART** 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
10	C8.8.2.3(c)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (c) Exceeding 50 m ² up to 100 m ² including for edge repairs wider than 250 mm	m3	450		
11	C8.8.2.3(d)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (d) Exceeding 100 m ²	m3	1000		
		<u>Loading from Spoil Stockpile</u>				
12	C1.7.1.1	Loading: Loading from stockpile using machines and hand labour	m3	1000		
		<u>Hauling to Spoil</u>				
13	C1.7.2.2(a)	Hauling of all material to spoil and off-loading it at an approved municipal dumpsite	m3 * km	1500		
		<u>Roadbed/ Formation</u>				
14	C5.1.1.2	Roadbed construction and compaction of 93% of MDD. Depth 150mm.	m2	3500		
		<u>Category B - Asphalt Layer</u>				
15	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 160mm for a patch with a surface area: (a) Not exceeding 10m ² including for edge repairs wider than 250mm	m2	0		
16	C8.8.4.3(b) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 160mm for a patch with a surface area: (b) Exceeding 10m ² including for edge repairs wider than 250mm	m2	0		
		<u>Category C - Asphalt Layer</u>				
17	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 80mm for a patch with a surface area: (a) Not exceeding 10m ² including for edge repairs wider than 250mm	m2	1000		

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Part Continued PART 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
18	C8.8.4.3(b) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 80mm for a patch with a surface area: (b) Exceeding 10m ² including for edge repairs wider than 250mm <u>Category D - Asphalt Layer</u>	m2	1750		
19	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 50mm for a patch with a surface area: (a) Not exceeding 10m ² including for edge repairs wider than 250mm	m2	500		
20	C8.8.4.3(b) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 50mm for a patch with a surface area: (b) Exceeding 10m ² including for edge repairs wider than 250mm <u>Category E - Asphalt Layer</u>	m2	500		
21	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 25mm for a patch with a surface area: (a) Not exceeding 10m ² including for edge repairs wider than 250mm	m2	500		
22	C8.8.4.3(b) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS14) of depth 25mm for a patch with a surface area: (b) Exceeding 10m ² including for edge repairs wider than 250mm <u>Tack / Prime Coat</u>	m2	800		
23	C9.1.3.1 C9.1.3.3	Application of bond coat: Stable-grade 30% net bitumen emulsion as specified applied with a calibrated distributor	l	500		
24	C8.1.1.2	Prime Coat: MC-30 cut-back bitumen <u>Pavement Base Layers: Including Material</u>	l	300		
25	C8.8.4.4(a) PS. C8.8.4.4	Backfilling of excavations for patching with: Granular base material (G2 compacted to 98%MDD) for a patch with a surface area: (a) Not exceeding 10 m2 including for edge repairs wider than 250 mm"	m3	500		

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Part Continued PART 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
26	C8.8.4.4(b) PS. C8.8.4.4	Backfilling of excavations for patching with: Granular base material (G2 compacted to 98%MDD) for a patch with a surface area: (b) Exceeding 10 m ² including for edge repairs wider than 250 mm	m3	800		

TOTAL CARRIED TO SECTION 3 SUMMARY: ROAD REPAIRS R

Surface Repairs to Roads, Sidewalks and Trench Re-instatments As and When Required within The West Region of eThekwin Municipality for 24 months.

SECTION 4 CONCRETE WORK

PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C3.3.1.1(a)	Prefabricated kerbing (a) Type A Barrier Kerb, Figure 2	m	200		
2	C3.3.1.1(b)	Prefabricated kerbing (b) Type A Barrier Kerb, Figure 6	m	1000		
3	C3.3.1.1(a)	Prefabricated kerbing (a) Type A Mountable Kerb, Figure 2	m	200		
4	C3.3.1.1(b)	Prefabricated kerbing (b) Type A Mountable Kerb, Figure 6	m	1000		
5	C3.3.1.2(a)	Cast in situ concrete: (a) Channel (300mm wide)	m	300		
6	C3.3.1.2(b)	Cast in situ concrete: (b) Fillet (100mm wide)	m	500		

TOTAL CARRIED TO SECTION 4 SUMMARY: CONCRETE WORK

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Surface Repairs to Roads, Sidewalks and Trench Re-instatments As and When Required within The West Region of eThekwin Municipality for 24 months.

SECTION 5 MANHOLES AND INLETS

PART 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Alterations to existing</u>				
1	PS.C3.2.30(a)	Raise/Lower existing manholes fitted with concrete cover and frame in paved area: 0-100mm	no	40		
2	PS.C3.2.30(b)	Raise/Lower existing manholes fitted with cast iron cover and frame in paved area: 0-100mm	no	10		
3	PS.C3.2.30(c)	Raise/Lower cast iron water valve cover in paved area: 0-100mm	no	5		

TOTAL CARRIED TO SECTION 5 SUMMARY: MANHOLES AND INLETS

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Surface Repairs to Roads, Sidewalks and Trench Re-instatments As and When Required within The West Region of eThekweni Municipality for 24 months.

SECTION 6 SIDEWALK REPAIRS

PART 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Saw Cut - Sidewalk</u>				
1	C8.8.1.1(a)	Saw cutting pavement layers for patching Asphalt or bituminous surfacing to an average dept: (a) Not exceeding 50 mm"	m	1000		
		<u>Removal of Asphalt - Sidewalk</u>				
2	C8.8.2.1(a)	Excavation in existing pavements for patching (non-milling)Asphalt layers (a) Not exceeding 10 m ² including for edge repairs wider than 250 mm"	m ³	500		
3	C8.8.2.1(b)	Excavation in existing pavements for patching (non-milling)Asphalt layers (b) Exceeding 10 m ² but not exceeding 50 m ² including for edge repairs wider than 250 mm	m ³	500		
4	C8.8.2.1(c)	Excavation in existing pavements for patching (non-milling)Asphalt layers (c) Exceeding 50 m ² up to 100 m ² including for edge repairs wider than 250 mm	m ³	500		
5	C8.8.2.1(d)	Excavation in existing pavements for patching (non-milling)Asphalt layers (d) Exceeding 100 m ²	m ³	500		
		<u>Removal of Pavement Layers - Sidewalk</u>				
6	C8.8.2.3(a)	Excavation in existing pavements for patching (non-milling) Sand and Grav layers: (a) Not exceeding 10 m ² including for edge repairs wider than 250 mm"	m ³	500		
7	C8.8.2.3(b)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (b) Exceeding 10 m ² but not exceeding 50 m ² including for edge repairs wider than 250 mm	m ³	500		
8	C8.8.2.3(c)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (c) Exceeding 50 m ² up to 100 m ² including for edge repairs wider than 250 mm	m ³	500		
9	C8.8.2.3(d)	Excavation in existing pavements for patching (non-milling) Sand and Gravel layers: (d) Exceeding 100 m ²	m ³	500		

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Part Continued **PART** 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Loading from Spoil Stockpile</u>				
10	C1.7.1.1	Loading: Loading from stockpile using machines and hand labour	m3	500		
		<u>Hauling to Spoil</u>				
11	C1.7.2.2(a)	Hauling of all material to spoil and off-loading it at an approved municipal dumpsite	m3 * km	1000		
		<u>Asphalt Layer - Sidewalk</u>				
12	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS7) of depth 25mm for a patch with a surface area: (a) Not exceeding 10m ² including for edge repairs wider than 250mm	m2	500		
13	C8.8.4.3(a) PS. C8.8.4.3	Backfilling of excavations for patching with: Asphalt (SAS7) of depth 25mm for a patch with a surface area: (a) exceeding 10m ² including for edge repairs wider than 250mm	m2	500		
		<u>Tack / Prime Coat</u>				
14	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	100		
15	C8.1.1.2	Prime Coat: MC-30 cut-back bitumen	l	100		
		<u>Pavement Base Layers: Including Material - Sidewalks</u>				
16	C8.8.4.4(a) PS. C8.8.4.4	Backfilling of excavations for patching with: Granular base material (G2 compacted to 98%Mdd) for a patch with a surface area: (a) Not exceeding 10 m2 including for edge repairs wider than 250 mm"	m3	200		
17	C8.8.4.4(b) PS. C8.8.4.4	Backfilling of excavations for patching with: Granular base material (G2 compacted to 98%Mdd) for a patch with a surface area: (b) Exceeding 10 m ² including for edge repairs wider than 250 mm	m3	150		
		<u>Weed Killer</u>				
18	PS.C5.3.2.1	Application of weed killer per Engineers instruction	m2	500		

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Part Continued **PART** 0808 C8.8 PATCHING AND EDGE BREAK REPAIR

Item	Clause	Description	Unit	Quantity	Rate	Amount
19	C6.2.1.1	Concrete Surface Cast in situ concrete: (c) Concrete (25/19) 100mm thick-wood finish and jointed to suit surrounding paving	m2	500		

TOTAL CARRIED TO SECTION 6 SUMMARY: SIDEWALK REPAIRS R