

**BILL OF QUANTITIES****SECTION 1 PRELIMINARY AND GENERAL****PART AA PRELIMINARIES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	GCC 2015/PS.1.4	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA  Fixed Charge obligations	sum	1		
2	C.1.2.3.1/PS.1. 4	COMMUNITY LIAISON OFFICER  Allow for a CLO to be appointed.	PC Sum	45600	1.00	45,600.00
3	C.1.2.3.1/PS.1. 4	% Mark-up for item 5 above	%	45600		
4	C.1.2.3.3/PS.1. 4	LOCAL LABOUR  Allow for the weekly submission of proof of employment of local labour	sum	1		
5	GCC 2015/PS.1.4	Time Related obligations	sum	1		

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2/PS.1.4	FIXED CHARGES  Offices for Engineer and Staff	sum	1		
2	AB.2/PS.1.4	Services Connection Fee (electrical / water / telephone) (Provisional)	sum	1		
3	AB.4/PS.1.4	Contractor's Camp Site / Store Yard	sum	1		
4	AB.7/PS.1.4	Road Deviations	sum	1		
5	AB.7/PS.1.4	Initial supply of all signs, barricades and delineators	sum	1		
6	PS.14	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
7	PS.13/PS.1.4	Allow for the following Additional Items which the tenderer requires to be priced separately :-	sum	1		
8		a)	sum	1		
9		b)	sum	1		
10	AB.7/PS.1.4	Maintenance of Pedestrian and Traffic Facilities	sum	1		
11	AB.7/PS.1.4	Maintenance of all signs, barricades and delineators	sum	1		

**Stormwater Attenuation Pond at 7 Sandringham Court**

Part Continued **PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
12	PS.14/PS.1.4	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
13	PS.11/PS.1.4	Site security	sum	1		

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

**PART AH OCCUPATIONAL HEALTH and SAFETY**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3	Submission of the Health and Safety File	sum	1		

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

## Stormwater Attenuation Pond at 7 Sandringham Court

**SECTION 2 CONSTRUCTION WORK****PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing in road reserve. Spoil at tip rate to include all haulage to nearest municipal dumpsite ONLY.	m2	8		
2	B.8.2	General clearance and grubbing in contractor's camp site. Spoil at tip rate to include all haulage to nearest municipal dumpsite ONLY.	m2	80		
3	B.8.3	General clearance and grubbing for attenuation within a servitude. Spoil at tip rate to include all haulage to nearest municipal dumpsite ONLY.	m2	520		
4	B.8.4	Removal of trees of girth exceeding 1,5 m	no.	10		
5	B.8.15	Removal of asphalt sidewalks/medians to tip. Spoil at tip rate to include all haulage to nearest municipal dumpsite ONLY.	m3	4		
6	B.8.16	Removal of kerb and channel/fillet to tip. Spoil at tip rate to include all haulage to nearest municipal dumpsite ONLY.	m3	2		
7	B.8.19	Removal of disused pipes, 500 - 800 mm diameter and spoil at tip. Rate to include all haulage	m	15		
8	B.8.9	Removal of underground brickwork (Existing Manholes)	no.	3		

**TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK****R****PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 15/19 concrete blinding of thickness 50 mm	m2	222		
2	C.8.1	Grade 30/19 concrete in slabs	m3	10		
3	C.8.1	Grade 40/19 concrete in wall base	m3	120		
4	C.8.3	Class 1 shuttering to wall base	m2	120		
5		Supply and install single layer dual reinforced bituminous torch on Unigum 4mm on primed surface and to be heat fused	m2	156		
6		Supply and install PVC centre bulb 200mm mid span of concrete wall, followed by flexband 200mm by 2mm with adhesive to the internal side of reinforced concrete	m	32		

## Stormwater Attenuation Pond at 7 Sandringham Court

Part Continued **PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
7		Cementitious waterproofing to internal RC wall - two component polymer modified slurry at a rate of 2kg per sq. meter and 2 No. Coats required, all cold joints to reinforced with polypropylene membrane and saturated cementitious slurry	m2	158		
8	C.8.2	Mild steel reinforcement	t	3		
9	C.8.2	High tensile steel reinforcement	t	24		
10	C.8.1	Grade 40/19 concrete in walls	m3	90		
11	C.8.3	Class 1 shuttering to wall - back face	m2	200		
12	C.8.3	Class 3a shuttering to sloping wall - front face	m2	180		
13	C.8.3	Class 1 shuttering to sloping wingwall - back face	m2	50		
14	C.8.3	Class 3a shuttering to sloping wingwall - front face	m2	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3	Excavate soft material to spoil	m3	1500		
2	DA.8.3	Excavate soft material to fill	m3	2000		
3	DA.8.3	Extra over above for excavation of unsuitable/hard material rate to include spoil at tip at Municipal Dumpsite ONLY	m3	200		
4	DA.8.5	Compact soft material from site to 95% Mod. A.A.S.H.T.O.	m3	2150		
5	PS.DA.8.12	Import suitable fill material from contractor's off-site source inclusive of haulage and royalties	m3	500		
6	DA.8.9	Formation	m3	580		
7	DA.8.7	Stockpile handling of soft material to fill	m3	2000		
8	DA.8.10	Overhaul on excavated spoil material to an approved municipal dumpsite approximately 20 km from site, complete, as directed by the Engineer	m3	1750		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

## Stormwater Attenuation Pond at 7 Sandringham Court

**PART DB EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.5	Excavate and backfill in all material where depth is:- Over 1,5 m and not exceeding 4,0 m. Rate to include lateral support approved by Engineer.	m3	520		
2	DB.8.14	Extra over item for the supply, import and mix approved cement stabilised fill into berm fill material at 5% by mass, including moisture conditioning, placement, compaction to 95% Mod AASHTO density and all ancillary works complete, as per Engineer's Design.	no.	1000		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART DD EARTHWORKS FOR STRUCTURES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2	Restricted excavation in all material for wall key to spoil	m3	30		
2	DD.8.3	Backfill and compact using cement stabilised material. Rate to include all haulage and royalties	m3	150		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.ED.8.9	Saw cutting Road Edge	m	24		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Figure 8 Type A barrier kerb and channel	m	15		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EG.8.7	Supply and Install wooden post and guardrail	m	18		
2	EG.8.4	Brick paved sidewalk/median [Cedarburg]	m2	20		
3	EG.8.7	150mm G2 Layer	m3	40		

TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK

R

**PART EL DUMPROCK SUBGRADE IMPROVEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8	Dumprock subgrade improvement, 300 mm thick	m3	80		

## Stormwater Attenuation Pond at 7 Sandringham Court

**PART EL DUMPROCK SUBGRADE IMPROVEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
<b>TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK</b>						<b>R</b>

**PART PG NON PRESSURE PIPELINES and PC CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2/PS.PG.8.2	Supply, Weld, lay and handle 600mm OD HDPE solid wall pipe. PN10 SDR17 (tracibility and certification)	m	45		
2	PG.8.2/PS.PG.8.2	Supply, Weld, lay and handle 310 mm OD HDPE solid wall pipe. PN10 SDR17 (tracibility and certification)	m	85		
3	PS.PG.8.14	Supply, fabricate, lay 45 degree bends for 600 diameter HDPE pipe back to	no.	1		
<b>TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK</b>						<b>R</b>

**PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PH.8.2	Manhole type A with heavy duty concrete cover. Depth :- - Over 2,5 m and not exceeding 3,0 m. As per Engineer's Design	no.	1		
2	PH.8.2	Drop Manhole type A with light duty concrete cover. Depth :- - Over 2,0 m and not exceeding 4 m. As per Engineer's Design	no.	1		
3	PH.8.2	Manhole type A with light duty concrete cover. Depth :- - Over 1 m and not exceeding 2,0 m. As per Engineer's Design	no.	2		
4	PH.8.2	Diversion Manhole with light duty concrete cover. Depth:- Over 1,0 m and not exceeding 2,5 m. Complete with internal overflow wall, benching and pipe connections, as per Engineer's Design.	no.	1		
5	PH.8.2	Stormwater Surcharge Manhole with light duty concrete cover. Depth:- Over 2,0 m and not exceeding 2,5 m. Complete with surcharge outlet opening, pipe connections, benching, concrete base and all ancillary works, as per Engineer's Design.	no.	1		

**Stormwater Attenuation Pond at 7 Sandringham Court**


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**Part Continued PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
6	PH.8.2	Stormwater Choke Manhole with light duty concrete cover and field inlet. Depth:- Over 2,0 m and not exceeding 2,5 m. Complete with 200 mm choke pipe connection, benching, concrete base, pipe connections and all ancillary works, as per Engineer's Design. Rate to include supply of 200mm diameter HDPE solid wall pipe. PN10 SDR17 (tracibility and certification)	no.	1		

**TOTAL CARRIED TO SECTION 2 SUMMARY: CONSTRUCTION WORK**
**R**

**Stormwater Attenuation Pond at 7 Sandringham Court**


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**SECTION 3 PROTECTION WORK**
**PART F PROTECTION WORKS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	PS.F.8.9	Allow for the Erosion protection with approved flora and fauna on steep embankments as directed by Engineer. Rate to include 100mm thick topsoil, Compost and Fertilizer.	PC Sum	2000	1.00	2,000.00

**TOTAL CARRIED TO SECTION 3 SUMMARY: PROTECTION WORK**
**R**

**Stormwater Attenuation Pond at 7 Sandringham Court**


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**SECTION 4 REINSTATMENT**
**PART S REINSTATEMENT**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	S.8.1	Reinstatement of ground surface	m2	180		
2	S.8.3	Reinstatement of type A kerb and channel/fillet	m	15		
3	S.8.2	Reinstatement of paved areas - brick paving	m2	30		
4	S.8.4	Reinstatement of precast concrete fence 1,8 m high	m	15		

**TOTAL CARRIED TO SECTION 4 SUMMARY: REINSTATMENT**
**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 1 PRELIMINARY AND GENERAL**

PART AA	PRELIMINARIES	
PART AB	GENERAL SPECIFICATIONS	
PART AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY		

**BILL OF QUANTITIES SECTION SUMMARY****SECTION 2 CONSTRUCTION WORK**

PART B	SITE CLEARANCE	
PART C	CONCRETE WORK	
PART DA	EARTHWORKS : BULK	
PART DB	EARTHWORKS FOR PIPE TRENCHES	
PART DD	EARTHWORKS FOR STRUCTURES	
PART ED	ROAD ASPHALT	
PART EF	KERBS AND HAUNCHES	
PART EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	
PART EL	DUMPROCK SUBGRADE IMPROVEMENT	
PART PG	NON PRESSURE PIPELINES and PC CULVERTS	
PART PH	MANHOLES and APPURTENANT DRAINAGE WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 3    PROTECTION WORK**

PART F	PROTECTION WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 4 REINSTATEMENT**

PART S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

**SUMMARY OF BILL OF QUANTITIES**

**Section**

1	PRELIMINARY AND GENERAL		R	_____
AA	PRELIMINARIES	R		_____
AB	GENERAL SPECIFICATIONS	R		_____
AH	OCCUPATIONAL HEALTH and SAFETY	R		_____
2	CONSTRUCTION WORK		R	_____
B	SITE CLEARANCE	R		_____
C	CONCRETE WORK	R		_____
DA	EARTHWORKS : BULK	R		_____
DB	EARTHWORKS FOR PIPE TRENCHES	R		_____
DD	EARTHWORKS FOR STRUCTURES	R		_____
ED	ROAD ASPHALT	R		_____
EF	KERBS AND HAUNCHES	R		_____
EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		_____
EL	DUMPROCK SUBGRADE IMPROVEMENT	R		_____
PG	NON PRESSURE PIPELINES and PC CULVERTS	R		_____
PH	MANHOLES and APPURTENANT DRAINAGE WORKS	R		_____
3	PROTECTION WORK		R	_____
F	PROTECTION WORKS	R		_____
4	REINSTATMENT		R	_____
S	REINSTATEMENT	R		_____
SUB TOTAL			R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)			R	_____
TOTAL CARRIED TO FORM OF TENDER			R	_____