

# Division of Food Production, Forestry and Fisheries Tobago House of Assembly Shirvan Administrative Complex Corner Milford and Shirvan Road, Tobago TEL# (868) 639-5994/2234, 660-7152 FAX (868) 639-1746

#### **AMENDMENTS**

**DFPFF 20/21 - 006** 

#### Invitation to Tender For Access road Programme 2021

#### The following are the amendments made to the aforementioned tender.

- 1. There were changes/ additional works to various **Work Packages** (**WP**) namely; **Work Package 1,2,3,5,6,7,8,12,13,15,16,17,18,20,26,28,29,30,32,33,34,35 and 36**. Such changes/ additional works were made in **RED** in the attached documents below.
- 2. Page 8, Submission Instructions (7) (i)

(i) Pass performance - signed pass performance appraisal (most recent) report from the Division's pervious access road programme. This requirement would be waived for new participants/contractors to the programme.

#### 3. Page 11, Evaluation Criteria item (7) Equipment listing

7	Equipment Listing	Mandatory	Individuals/joint ventures must provide a				
			listing of equipment and evidence of				
			ownership. This include customs				
			documentation/bill of sale/affidavit, insurance				
			certificate, model type etc.				
			For new participants only, they are allowed to				
			demonstrate a lease or rental agreement from				
			the owners of the equipment (must demonstrate				
			proof of ownership as stated above). If the				
			equipment owner is bidding as an individual or				
			as a joint venture, this agreement (lease or				
			rental) <b>DOES NOT</b> disqualify the individual. It				
			should be noted, equipment owners can have				
			this agreement with ONLY ONE OTHER				
			entity in the programme.				

Please note all other submission criteria remains the same as stated in the tender document. Attachment is submitted for your information and action.

Also attached is the statutory declaration forms with the corrected year.

Please be guided accordingly.

#### WP 1 BILL OF QUANTITIES

#### Adelphi Branch Road to Belmont Branch Road Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 500' x 20'				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 500' x 20' x 150mm in depth	185	yds <sup>3</sup>		
b)	Allow for proper alignment of roadway		sum		
	Collection				
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement –				

	6x6x5 gauge BRC, block work, weep holes and backfilling 10,000 ft2			
a)	Construct concrete roadway 500' x 20' x 6".	185	yds <sup>3</sup>	
b)	Slipper drain curb wall 2,133' x 6" x 8"	28	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	24	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	4	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Repair area between roadway and slipper drain with concrete finish, including any other areas along the roadway (with existing material) that is damaged by the contractor's operation in caring PRESENT works (all equipment included).		sum	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total asserted to summers			
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the			

	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	<b>Method Statement</b> are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

#### WP 1 BILL OF QUANTITIES

#### Adelphi Branch Road to Belmont Branch Road Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 2 BILL OF QUANTITIES Poultry Farm Road, Argyle

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 1,000' x 16'				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CHID CEAL WORKS				
2.0	CHIP SEAL WORKS  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 12 inches in depth	593	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		
c)	Allow for sub-base construction 300mm with imported backfill material (rotten rock) compacted in 3" layer to 97% MPD	593	yds <sup>3</sup>		

Subsequent to excavating roadway, install 20ft length, 6 inch perforated PVC pipes, 3 ft in depth from existing ground level, perpendicular to roadway. Allow for no less than 600mm over hang in open drain. Further allow for pipe protection with geo-fabric and 6 inch cover around with crush-run.  Collection	2	nr		
All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate				
Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum	16,016	ft2		
Supply and spread 2mm aggregate and apply bitumen to seal coat roadway	16,016	ft2		
Collection				
Total carried to summary				
CONCRETE WORKS				
All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling where necessary.				
Construct three (6 ft x 16ft wide x 5") V-drain	4.3	yds <sup>3</sup>		
Construct curb wall 1,000' x 6" x 8"	13	yds <sup>3</sup>		
Slipper 4" thick x 12" wide	11	yds <sup>3</sup>		
Render outer face and top of curb wall	2	m3		
	length, 6 inch perforated PVC pipes, 3 ft in depth from existing ground level, perpendicular to roadway. Allow for no less than 600mm over hang in open drain. Further allow for pipe protection with geo-fabric and 6 inch cover around with crush-run.  Collection  All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate  Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum  Supply and spread 2mm aggregate and apply bitumen to seal coat roadway  Collection  Total carried to summary  CONCRETE WORKS  All inclusive of formwork, cement/ sand render, concrete — 3000 psi, reinforcement — 6x6x5 gauge BRC, block work, weep holes and backfilling where necessary.  Construct three (6 ft x 16ft wide x 5") V-drain  Construct curb wall 1,000" x 6" x 8"  Slipper 4" thick x 12" wide	length, 6 inch perforated PVC pipes, 3 ft in depth from existing ground level, perpendicular to roadway. Allow for no less than 600mm over hang in open drain. Further allow for pipe protection with geo-fabric and 6 inch cover around with crush-run.  Collection  All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate  Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum  Supply and spread 2mm aggregate and apply bitumen to seal coat roadway  Collection  Total carried to summary  CONCRETE WORKS  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling where necessary.  Construct three (6 ft x 16ft wide x 5") V-drain  4.3  Construct curb wall 1,000' x 6" x 8"  13	length, 6 inch perforated PVC pipes, 3 ft in depth from existing ground level, perpendicular to roadway. Allow for no less than 600mm over hang in open drain. Further allow for pipe protection with geo-fabric and 6 inch cover around with crush-run.  Collection  All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate  Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum  Supply and spread 2mm aggregate and apply bitumen to seal coat roadway  Collection  Total carried to summary  CONCRETE WORKS  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling where necessary.  Construct three (6 ft x 16ft wide x 5") V-drain  4.3 yds³  Construct curb wall 1,000" x 6" x 8"  13 yds³  Slipper 4" thick x 12" wide  11 yds³	length, 6 inch perforated PVC pipes, 3 ft in depth from existing ground level, perpendicular to roadway. Allow for no less than 600mm over hang in open drain. Further allow for pipe protection with geo-fabric and 6 inch cover around with crush-run.  Collection  All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate  Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum  Supply and spread 2mm aggregate and apply bitumen to seal coat roadway  Collection  Total carried to summary  CONCRETE WORKS  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling where necessary.  Construct three (6 ft x 16ft wide x 5") V-drain  Construct curb wall 1,000' x 6" x 8"  13 yds³  Slipper 4" thick x 12" wide  11 yds³  Slipper 4" thick x 12" wide

e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway	sum	
	Total carried to summary		
4.0	DEMOBILIZE		
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site		
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

### WP 2 BILL OF QUANTITIES Poultry Farm Road, Argyle

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CHIP SEAL WORKS	
3.0	CONCRETE WORKS	
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 3 BILL OF QUANTITIES Ballington Trace, Drainage and Crossings, Good Wood

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
d)	Allow for the removal of vegetation from work area.		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 475' x 12' x 150mm in depth	106	yds <sup>3</sup>		

		+	
Collection			
All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 3,600 ft2			
Construct concrete roadway 300' x 12' x 6"	67	yds <sup>3</sup>	
Construct curb wall 300' x 6" x 8"	4	yds <sup>3</sup>	
Construct 4" thick x 12" wide slipper	3	yds <sup>3</sup>	
Render outer face and top of curb wall	0.6	yds <sup>3</sup>	
Allow for backfilling behind 8" curb wall and existing ground with rotten rock —delete this item		sum	
Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
Supply and place 1/2" corrugated steel 8" c/c at dry gully area as directed (to cover 6'x12' area)	14	lgh	
Collection			
All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,100 ft2			
Construct concrete roadway 175' x 12' x 6"	39	yds <sup>3</sup>	
Construct curb wall 175' x 6" x 8"	2	yds <sup>3</sup>	
Slipper 4"x12" Slipper	2	yds <sup>3</sup>	
Render outer face and top of curb wall	0.3	yds <sup>3</sup>	
Collection			
	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 3,600 ft2  Construct concrete roadway 300' x 12' x 6"  Construct curb wall 300' x 6" x 8"  Construct 4" thick x 12" wide slipper  Render outer face and top of curb wall  Allow for backfilling behind 8" curb wall and existing ground with rotten rock —delete this item  Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway  Supply and place 1/2" corrugated steel 8" c/c at dry gully area as directed (to cover 6'x12' area)  Collection  All inclusive of formwork, cement/ sand render, concrete — 3000 psi, reinforcement — 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,100 ft2  Construct concrete roadway 175' x 12' x 6"  Construct curb wall 175' x 6" x 8"  Slipper 4"x12" Slipper  Render outer face and top of curb wall	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 3,600 ft2  Construct concrete roadway 300' x 12' x 6" 67  Construct 4" thick x 12" wide slipper 3  Render outer face and top of curb wall 0.6  Allow for backfilling behind 8" curb wall and existing ground with rotten rock –delete this item  Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway  Supply and place 1/2" corrugated steel 8" c/c at dry gully area as directed (to cover 6'x12' area)  Collection  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,100 ft2  Construct concrete roadway 175' x 12' x 6" 39  Construct curb wall 175' x 6" x 8" 2  Render outer face and top of curb wall 0.3	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 3,600 ft2  Construct concrete roadway 300' x 12' x 6" 67 yds³  Construct curb wall 300' x 6" x 8" 4 yds³  Construct 4" thick x 12" wide slipper 3 yds³  Render outer face and top of curb wall 0.6 yds³  Allow for backfilling behind 8" curb wall and existing ground with rotten rock – delete this item sum curb wall and general landscaping along roadway  Supply and place 1/2" corrugated steel 8" c/c at dry gully area as directed (to cover 6'x12' area)  Collection  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,100 ft2  Construct concrete roadway 175' x 12' x 6" 39 yds³  Construct concrete roadway 175' x 12' x 6" 39 yds³  Construct curb wall 175' x 6" x 8" 2 yds³  Slipper 4"x12" Slipper 2 yds³  Render outer face and top of curb wall 0.3 yds³

2.4	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 5/8 and 1/2 corrugated steel 8" c/c in both direction, weep holes and backfilling material		
a)	Construct reinforce concrete box drain with 4" thick base – 1,100 ft long x 2 ft wide x 2 ft depth (internal dimension) – reinforcement 1/2" corrugated steel at 8" c/c. All wall to be 150mm thick and render on open faces. Also allow for backfill behind box drain (rotten rock)	sum	
b)	Construct reinforce concrete crossing 14' feet x 4'feet 4" inches x 6" thick over box drain. 5/8" corrugated steel (both ways) to be placed 8" c/c	sum	
c)	Allow for backfilling (rotten rock) and compaction of existing 1,100 ft earthen drain to arrive at new formation level	sum	
	Collection		
	Total carried to summary		
2.0	DEMORII IZE		
3.0	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site		
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include for the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".		

2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

## WP 3 BILL OF QUANTITIES Ballington Trace, Drainage and Crossings, Good Wood Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 5 BILL OF QUANTITIES Belmont Farm Main Road Phase I

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of vegetation from the roadway/ project area		sum		
b)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD	262	sum		

	Excavate and cart away top layer 150mm in dept		yds <sup>3</sup>	
c)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 14,140 ft2			
a)	Construct concrete roadway 707' x 20' x 6".	262	yds <sup>3</sup>	
b)	Construct curb wall 707' x 6" x 8"	9	yds <sup>3</sup>	
c)	Constrict 4" thick x 12" wide slipper	8	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1.3	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	70	ft	
	Collection			
2.3	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,400 ft2			
a)	Construct concrete roadway 200' x 12' x 6"	45	yds <sup>3</sup>	
b)	Construct curb wall 200' x 6" x 8"	3	yds <sup>3</sup>	
c)	Slipper 4"x12" Slipper	2	yds <sup>3</sup>	

d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
	•			
e)	Allow for backfilling behind 8" curb wall and		sum	
,	existing ground with rotten rock			
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and			
	unused materials off site. Also dispose of			
	debris to an approved dump site			
2)	Allow for the removal of tools agricultural			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the		sum	
	removal of debris to an approved dump site			
	**			
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must			
	submit their onsite supervisor's name and			
	contact number to the Project Manager in the			
	Project Implementation Unit. Furthermore,			
	this individual (supervisor) will be required to			
	be onsite during project activities or at the			
	Division's request. Note that failure in this			
	regard will result in a "stop work order".			
2	A sufficiently detailed <b>Gantt Chart</b> and			
	Method Statement are to be provided to the			
	Project Implementation Unit for review prior			
	to the commencement of works.			

## WP 5 BILL OF QUANTITIES Belmont Farm Main Road Phase I Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
	2 51. 53. 53. 53. 53. 53. 53. 53. 53. 53. 53	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 6 BILL OF QUANTITIES Belmont Farm Main Road Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 801ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of vegetation from the roadway		sum		

b)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97%		sum	
	MPD Excavate and cart away top layer 150mm in depth	297	yds <sup>3</sup>	
c)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 16,020 ft2			
- )	C	207	1_3	
a)	Construct concrete roadway 801' x 20' x 6".	297	yds <sup>3</sup>	
b)	Slipper drain curb wall 801' x 6" x 8"	10	yds <sup>3</sup>	
0)	Shipper drain curb wall 801 x 6 x 8	10	yus	
2)	Climan 42 think y 102 wide	9	vda3	
c)	Slipper 4" thick x 12" wide	9	yds <sup>3</sup>	
1)	D 1 ( C 1 11	2	1 3	
d)	Render outer face and top of curb wall	2	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	90	ft	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	

	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the		
	Division's request. Note that failure in this regard will result in a "stop work order".		
2	A sufficiently detailed Contt Chart and		
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the		
	Project Implementation Unit for review prior to the commencement of works.		

## WP 6 BILL OF QUANTITIES Belmont Farm Main Road Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 7 BILL OF QUANTITIES Belmont Farm Development Main Road Phase III

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 693ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  • Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of vegetation from the roadway		sum		
b)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD  Excavate and cart away top layer 150mm in depth	257	sum yds³		
c)	Allow for alignment of roadway as identified/directed		sum		
	Daga				

	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 13,860 ft2			
a)	Construct concrete roadway 693' x 20' x 6".	257	yds <sup>3</sup>	
b)	Slipper drain curb wall 693' x 6" x 8"	9	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	8	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	70	ft	
	Collection			
2.3	All inclusive of excavation, formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 5/8 corrugated steel 8" c/c in both direction			
a)	Allow for the supply and installation of 20' x 5' HDPE pipe. In addition, allow for its encasement in 6" reinforce concrete all round (1/2" HT rebar at 8" c/c).		sum	
b)	Construct catch pit 3'x5'x5'- 150mm thick - 1/2" HT rebar at 8" c/c			
c)	Allow for backfilling behind pipe (rotten rock) on completion of concrete works  Collection		sum	
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.		

## WP 7 BILL OF QUANTITIES Belmont Farm Main Road Phase III Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 8 BILL OF QUANTITIES Belmont Farm Main Road Phase IV

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 570ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of vegetation from the roadway		sum		
b)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum		
	Excavate and cart away top layer 150mm in depth	211	yds <sup>3</sup>		

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c)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
	Conection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 11,400 ft2			
a)	Construct concrete roadway 570' x 20' x 6".	211	yds <sup>3</sup>	
b)	Slipper drain curb wall 570' x 6" x 8"	7	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	60	ft	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore,			

	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed Gantt Chart and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

## WP 8 BILL OF QUANTITIES Belmont Farm Main Road Phase IV Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 12 BILL OF QUANTITIES Caledonia Farm Road to Money Hill Phase III

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 1,000ft x 19ft 1,300 ft x 19 ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 1/2 corrugated steel 10" c/c in both direction				
a)	Construct reinforce concrete box drain 600' long x 2' wide x 2' depth (internal dimension). All wall to be 150mm thick.	600	ft		
b)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum		
	Total carried to summary				

				<u> </u>
3.0	EARTHEN SURFACE			
3.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation and alignment for roadway 19,000 ft2 – 24,700 ft2			
a)	Excavate and cart away top layer one foot (12	<del>704</del>		
<i>u</i> ,	inches) in depth	915	yds <sup>3</sup>	
b)	Allow for proper alignment of roadway		sum	
		704		
c)	Supply and place rotten rock, compacted in 3" layer to 97% MPD	<del>704</del> 915	yds <sup>3</sup>	
	Collection			
	Conection			
	Total carried to summary			
4.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must			
1	submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore,			
	this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".			
	be onsite during project activities or at the Division's request. Note that failure in this			

Project Implementation Unit for review prior		
to the commencement of works.		

## WP 12 BILL OF QUANTITIES Caledonia Farm Road to Money Hill Phase III Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	EARTHEN SURFACE	
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 13 BILL OF QUANTITIES Charlotteville Breeding Unit and Nicholson Drive, Observatory Road, Charlotteville

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS (Charlotteville Breeding Unit)				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 260' x 10' x 150mm in depth	48	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		

	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 2,600 ft2			
a)	Construct concrete roadway 260' x 10 x 150mm.	48	yds <sup>3</sup>	
b)	Slipper drain curb wall 260' x 6" x 8"	3	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	3	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	0.5	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
2.3	Make good the area between office building and toilet - cast 4" thick concrete walkway (18' x 25') as directed.	5	yds <sup>3</sup>	
2.4	Make good the area above the toilet the sheep/goat pens as directed – then construct 15' x 4' reinforce concrete tank stand 1 foot above existing ground level. In addition, allow for:  12" x 12" Ground beams externally and one tie beam midspan; 5/8" corrugated main bars, 3/8" binders at 8" c/c surrounded with 1 ½" inches concrete cover.  8" x 8" x 16" blockwork atop ground beams with 1/2" corrugated bars (vertical) at 16" c/c and void fill with rotten rock (compacted).  6x6x5 gauge BRC; 4" thick concrete base; external concrete, rendered on outer face.	60	sq ft	
2.5	Construct 30' x 7' high retaining wall next to toilet. Allow for:	210	sq ft	
	2' wide x 1' thick concrete base two feet below ground, 5/8" corrugated steel in both direction (mat finish); 5/8" HT vertical bars in			

	every other block core (16" c/c) – block 8" x 8" x 16"; all block core filled with weak			
	concrete mix, and render on outer face.			
	Total carried to summary			
2.6	CONCRETE WORKS (Nicholson Drive, Observatory Road)			
	(Inchoison Direc, Observatory Roda)			
2.6.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.			
a)	Excavate and cart away top layer 465' x 12' x 150mm in depth	103	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
	Consection			
2.6.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 5,580 ft2			
9)	Construct concrete roadway 465' x 12' x 6".	103	yds <sup>3</sup>	
a)	Construct concrete toadway 403 X 12 X 0.	103	yus	
b)	Slipper drain curb wall 465' x 6" x 8"	6	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	5	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
2.0			1	

3.1	All inclusive, removal of tools, equipment and		
	unused materials off site. Also dispose of		
	debris to an approved dump site		
a)	Allow for the removal of tools, equipment and	sum	
	unused materials offsite. Also include the		
	removal of debris to an approved dump site		
	Total comind to common		
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed Gantt Chart and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

#### WP 13

#### BILL OF QUANTITIES Charlotteville Breeding Unit and Nicholson Drive, Observatory Road, Charlotteville Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
	(Charlotteville Breeding Unit)	
2.6	CONCRETE WORKS	
	(Nicholson Drive, Observatory Road)	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 15 BILL OF QUANTITIES Connector Road (LEFT) Belmont Farm Road Phase I

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 500ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  • Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD  Excavate and cart away top layer 150mm in depth	185	sum yds³		
	•				
b)	Allow for alignment of roadway as identified/directed		sum		
	Collection				
	Conection				

2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 10,000 ft2			
a)	Construct concrete roadway 500' x 20' x 6".	185	yds <sup>3</sup>	
b)	Slipper drain curb wall 500' x 6" x 8"	7	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
e)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	60	ft	
	Collection			
2.3	All inclusive of excavation, formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 5/8 corrugated steel 8" c/c in both direction			
a)	Allow for the supply and installation of 20' x 5' HDPE pipe. In addition, allow for its encasement in 6" reinforce concrete all round (1/2" HT rebar at 8" c/c).		sum	
b)	Construct catch pit 3'x5'x5'- 150mm thick - 1/2" HT rebar at 8" c/c		sum	
c)	Allow for backfilling on both sides of crossing (rotten rock) on completion of concrete works		sum	
	Collection			
	T-4-1			
3.0	Total carried to summary <b>DEMOBILIZE</b>			
3.0	DEMODILIZE			

3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site		
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.		

## WP 15 BILL OF QUANTITIES Connector Road (LEFT) - Belmont Farm Road Phase I Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 16 BILL OF QUANTITIES Connector Road (LEFT) - Belmont Farm Road Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 537ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum		
	Excavate and cart away top layer 150mm in depth	200	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		

	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 10,740 ft2			
a)	Construct concrete roadway 537' x 20' x 6".	200	yds <sup>3</sup>	
b)	Slipper drain curb wall 537' x 6" x 8"	7	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	60	ft	
f)	Construct R/C turntable – radius 7ft x 6" thick	3	yds <sup>3</sup>	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site			
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore,			

	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed Gantt Chart and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

## WP 16 BILL OF QUANTITIES Connector Road (LEFT) - Belmont Farm Road Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 17 BILL OF QUANTITIES Connector Road (RIGHT) - Belmont Farm Road Phase I

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 716ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  • Note that failure to put effective safety		sum		
	measures in place will result in a "stop work order".				
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum		
	Excavate and cart away top layer 150mm in depth	265	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		

	Collection			
	Concensi			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 14,320 ft2			
a)	Construct concrete roadway 716' x 20' x 6".	265	yds <sup>3</sup>	
b)	Slipper drain curb wall 716' x 6" x 8"	9	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	8	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	60	ft	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore,			

	this individual (supervisor) will be required to			
	be onsite during project activities or at the			
	Division's request. Note that failure in this			
	regard will result in a "stop work order".			
2	A sufficiently detailed <b>Gantt Chart</b> and			
	<b>Method Statement</b> are to be provided to the			
	Project Implementation Unit for review prior			
	to the commencement of works.			

### WP 17 BILL OF QUANTITIES Connector Road (RIGHT) - Belmont Farm Road Phase I

#### Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 18 BILL OF QUANTITIES Connector Road (RIGHT) Belmont Farm Road Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 577ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum		
	Excavate and cart away top layer 150mm in depth	213	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		

	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 11,540 ft2			
a)	Construct concrete roadway 577' x 20' x 6".	213	yds <sup>3</sup>	
1 \	GI: 1 : 1 11.5772 (V 0V	7	1.3	
b)	Slipper drain curb wall 577' x 6" x 8"	7	yds <sup>3</sup>	
c)	Slipper drain 4" thick x 12" wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
	1		1	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	60	ft	
	Collection			
2.3	All inclusive of excavation, formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 5/8 corrugated steel 8" c/c in both direction			
a)	Allow for the supply and installation of 20' x 5' HDPE pipe. In addition, allow for its encasement in 4" thick base and 8" thick concrete side walls – also cater for the installation of wing walls on both ends		sum	
b)	Allow for backfilling on compaction with rotten rock between roadway and concrete walls		sum	
	Collection			
	The state of the s			
	Total carried to summary		1	
3.0	DEMOBILIZE			

3.1 a)	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site  Allow for the removal of tools, equipment and	su	m	
	unused materials offsite. Also include the removal of debris to an approved dump site			
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".			
2	A sufficiently detailed <b>Gantt Chart</b> and			
	Method Statement are to be provided to the Project Implementation Unit for review prior to the commencement of works.			

## WP 18 BILL OF QUANTITIES Connector Road (RIGHT) Belmont Farm Road Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 20 BILL OF QUANTITIES Connector Road to Castara Road, Mt. St. George

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 200' x 14'				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS ROADWAY				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 200' x 14' x 150mm in dept	52	yds <sup>3</sup>		
b)	Allow for alignment of roadway as identified/directed		sum		
	Collection				

2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes			
	and backfilling 2,800 ft2			
a)	Construct concrete roadway 200' x 14' x 6".	52	yds <sup>3</sup>	
b)	Slipper drain curb wall 200' x 6" x 8"	3	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	3	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	2	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Collection			
	Total carried to summary			
2.3	RETAINING WALL - 70ft x 8 ins thick x 12ft high EXCAVATION AND EARTH WORKS			
	All inclusive of good working equipment - backhoe, dump truck, compactor; remove vegetation and loose earth; set out trench etc.			
a)	Clear site of spoils and dispose in appropriate manner		sum	
b)	Allow for excavation of trench not exceeding 36" deep		sum	
	Total carried to summary			
2.3.1	REINFORCEMENT WORK			
2.3.1	All inclusive of good working equipment – generator, chop saw, nippers; reinforcement – 5/8" HT rebar 2" concrete cover all round			
a)	Supply and place 5/8" HT steel in retaining wall footing (mat design – 69' 8" x 2' 8" - rebar 12" c/c for vertical pieces and 8" c/c for	764	kg	

	horizontal pieces. Allow for stem reinforcement to flow continuously from mat into stem/ wall.			
b)	Supply and place 5/8" HT steel (lace) 9" c/c to retaining wall stem	518	kg	
	Total carried to summary			
	-			
2.3.2	CONCRETE WORKS			
	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, weep holes, perforated pipe, geo-fabric and backfilling material.			
a)	Supply and pour 21KN/mm2 concrete to retaining wall footing and stem	31	yds <sup>3</sup>	
b)	Allow for 2" PVC weeper holes 3ft c/c		sum	
c)	Supply and place 6" PVC perforated pipe to back of retaining wall	4	lgh	
d)	Allow for 1" to 1 1/2" gravel backfill to height of retaining wall. Also allow for supply and placing of geo fabric		sum	
e)	Allow for repair works between existing roadway and the retaining wall with concrete mix		sum	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			

	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

# WP 20 BILL OF QUANTITIES Connector Road to Castara Road, Mt. St. George Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS ROADWAY	
2.3	RETAINING WALL	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### WP 24 BILL OF QUANTITIES Goldsborough Estate Roads

Description	Quantity	Unit	Rate	Total
PRELIMINARIES				
To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
Allow for insurance and Security		sum		
This was in insurance and security		54111		
Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".  Total carried to summary		sum		
CONCRETE WORKS				
All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
	1.40	1 2		
Excavate and cart away top layer 540' x 14' x 150mm in depth	140	yds <sup>3</sup>		
Allow for alignment of roadway as identified/		sum		
	PRELIMINARIES  To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway  Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.  Allow for insurance and Security  Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".  Total carried to summary  CONCRETE WORKS  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.  Excavate and cart away top layer 540' x 14' x 150mm in depth	PRELIMINARIES  To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway  Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.  Allow for insurance and Security  Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".  Total carried to summary  CONCRETE WORKS  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.  Excavate and cart away top layer 540' x 14' x 150mm in depth  Allow for alignment of roadway as identified/	PRELIMINARIES  To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway  Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.  Allow for insurance and Security  sum  Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".  Total carried to summary  CONCRETE WORKS  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.  Excavate and cart away top layer 540' x 14' x 150mm in depth  Allow for alignment of roadway as identified/	PRELIMINARIES  To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway  Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.  Allow for insurance and Security  sum  Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".  Total carried to summary  CONCRETE WORKS  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.  Excavate and cart away top layer 540' x 14' x 150mm in depth  Allow for alignment of roadway as identified/  Sum

	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 7,560 ft2			
a)	Construct concrete roadway 540' x 14' x 6"	140	yds <sup>3</sup>	
,	,			
b)	Construct curb wall 540' x 6" x 8"	7	yds <sup>3</sup>	
`			. 2	
c)	Construct 4" thick x 12" wide slipper	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
,	1			
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Collection			
	Constituti			
2.3	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 1/2 corrugated steel 8" c/c in both direction			
a)	Construct reinforce concrete slab covered box drain. Box drain with 4" thick base - 14' long 4' wide x 4' depth (internal dimension) — reinforcement 5/8" corrugated steel at 10" c/c. Slab cover to be 14 ft long x 5 ft 4inches wide x 6 inches depth single layer 5/8" mat (both directions). All wall to be 150mm thick.		sum	
b)	Construct concrete V-drain along roadway 14 ft long x 20 ft wide x 150mm thick	6	nr	
	Collection			
	Concetion			
	Total carried to summary			
2.0	EADTHEN CHIPE A CE			
3.0	EARTHEN SURFACE			
3.1	All inclusive of good working equipment - excavator, dump truck, 10 tonne roller compactor for excavation works; remove vegetation and align roadway 20,000 ft2			

a)	Excavate and cart away top layer 1,000 ft long x 20 ft wide x 12 inches in dept	740	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
c)	Supply and place rotten rock, compacted in 3" layer to 97% MPD	740	yds <sup>3</sup>	
d)	Construct R/C curb wall 1,000' x 6" x 8"	13	yds <sup>3</sup>	
e)	Construct R/C 4" thick x 12" wide slipper	11	yds <sup>3</sup>	
f)	Render outer face and top of curb wall	2	yds <sup>3</sup>	
g)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Collection			
3.2	All inclusive of good working equipment - excavator, dump truck, 10 tonne roller compactor for excavation works; remove vegetation and align roadway 14,400 ft2			
a)	Excavate and cart away top layer 1,200 ft long x 14 ft wide x 12 inches in depth	622	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
c)	Supply and place rotten rock, compacted in 3" layer to 97% MPD	622	yds <sup>3</sup>	
	Collection			
	Total carried to summary			
4.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include for the removal of debris to an approved dump site  Total carried to summary	sum	
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.		

# WP 24 BILL OF QUANTITIES Goldsborough Estate Roads Summary

Item	Description	Total
1.0	GENERAL	
2.0	CONCRETE WORKS	
3.0	EARTHEN SURFACE	
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 26 BILL OF QUANTITIES Grenadian Hill Connector Road Belle Garden

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS (Upper Grenadian Hill)				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 400' x 18' x 150mm in depth	133	yds <sup>3</sup>		

Collection All inclusive of formwork, cement/ sand				
All inclusive of formwork, cement/ sand				
pender, concrete – 3000 psi, reinforcement – 5x6x5 gauge BRC, block work, weep holes and backfilling 7,200 ft2				
Construct concrete roadway 400' x 18' x 6".	133	yds <sup>3</sup>		
Slipper drain curb wall 400' x 6" x 8"	5	yds <sup>3</sup>		
Slipper 4" thick x 12" wide	4	yds <sup>3</sup>		
Render outer face and top of curb wall	0.7	yds <sup>3</sup>		
Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along boadway		sum		
Construct catch-pit 2'x2'x2' (internal limensions) as directed. Cater for 4" concrete pase	1	nr		
Allow for the installation of 4" PVC pipe – 4ft above ground – 3ft apart filled with concrete along road edge as directed.		allow		
All inclusive of good working equipment excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				
Excavate and cart away top layer 368' x 17' x 50mm in depth	116	yds <sup>3</sup>		
Allow for alignment of roadway as identified/ lirected		sum		
Collection		+ +		
	Construct concrete roadway 400' x 18' x 6".  Clipper drain curb wall 400' x 6" x 8"  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Construct catch-pit 2'x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2" x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Construct catch-pit 2" x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2" x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2" x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-pit 2" x2'x2' (internal dimensions) as directed. Clipper 4" concrete ase  Clipper 4" thick x 12" wide  Construct catch-	Construct concrete roadway 400' x 18' x 6".  Construct concrete roadway 400' x 18' x 6".  Construct concrete roadway 400' x 18' x 6".  Construct catch wall 400' x 6" x 8"  Construct catch pit 2" wide  Construct catch pit 2" x2" x2" (internal imensions) as directed. Cater for 4" concrete ase  Construct catch pit 2" x2" x2" (internal imensions) as directed. Cater for 4" concrete long road edge as directed.  Collection  CONCRETE WORKS - Continues (Lower Grenadian Hill)  All inclusive of good working equipment excavator, dump truck, 10 tonne roller ompactor for excavation works); remove egetation; align roadway etc.  Excavate and cart away top layer 368' x 17' x 50mm in depth  Allow for alignment of roadway as identified/ irected	Construct concrete roadway 400' x 18' x 6".  Construct concrete roadway 400' x 18' x 6".  Construct concrete roadway 400' x 18' x 6".  Construct care wall 400' x 6" x 8"  Construct care and top of curb wall  Construct care and top of curb wall  Construct care and top of curb wall  Construct care pit 2'x2'x2' (internal imensions) as directed. Cater for 4" concrete ase  Collection  Concrete Works - Continues (Lower Grenadian Hill)  Concrete works - Continues (Low	Construct concrete roadway 400' x 18' x 6".  Construct carb wall 400' x 6" x 8"  Construct carb wall 400' x 6" x 8"  Construct carb wall 400 or curb wall  Construct carb packfilling (rotten rock) behind 8" sum  Construct carb pit 2'x2'x2' (internal imensions) as directed. Cater for 4" concrete ase  Construct carb pit 2'x2'x2' (internal imensions) as directed. Cater for 4" concrete ase  Construct provided with concrete long road edge as directed.  Collection  CONCRETE WORKS - Continues  (Lower Grenadian Hill)  All inclusive of good working equipment excavator, dump truck, 10 tonne roller ompactor for excavation works); remove egetation; align roadway etc.  Concrete works and cart away top layer 368' x 17' x  Construct carb pit 2'x2'x2' (internal in nr  1

2.2	All inclusive of formwork, cement/ sand				
	render, concrete – 3000 psi, reinforcement –				
	6x6x5 gauge BRC, block work, weep holes and backfilling 6,624 ft2				
	4.10 0441111111g 0,02 1 102				
a)	Construct concrete roadway 368' x 17' x 6".	116	yds <sup>3</sup>		
b)	Slipper drain curb wall 368' x 6" x 8"	5	yds <sup>3</sup>		
c)	Slipper 4" thick x 12" wide	4	yds <sup>3</sup>		
d)	Render outer face and top of curb wall	0.7	yds <sup>3</sup>		
e)	Allow for backfilling (rotten rock) behind 8"		sum		
	curb wall and general landscaping along roadway				
	Todanay				
f)	Allow for the installation of 4" PVC pipe – 4ft		allow		
	above ground – 3ft apart filled with concrete				
	along road edge as directed.				
	Collection				
	Collection				
	Total carried to summary				
3.0	-				
3.0	EARTHEN SURFACE				
3.0	EARTHEN SURFACE All inclusive of good working equipment				
3.0	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment				
3.0	EARTHEN SURFACE All inclusive of good working equipment (excavator, dump truck, 10 tonne roller				
	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter	0	v.4-3		
3.0 a)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in	9	yds <sup>3</sup>		
	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter	9	yds <sup>3</sup>		
a)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth	9			
a) b)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)	9	sum		
a)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth				
a) b)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in		sum		
a) b)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in		sum		
a) b) c)	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in 3" layer to 97% MPD		sum		
a) b) c) 3.0 4.0	EARTHEN SURFACE  All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in 3" layer to 97% MPD  Total carried to summary  DEMOBILIZE		sum		
a) b) c)	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in 3" layer to 97% MPD  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and		sum		
a) b) c) 3.0 4.0	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in 3" layer to 97% MPD  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and unused materials off site. Also dispose of		sum		
a) b) c) 3.0 4.0	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); alignment of turntable 25' diameter  Excavate and cart away top layer 6 inches in depth  Allow for alignment of turntable (25' dia.)  Supply and place rotten rock, and compact in 3" layer to 97% MPD  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and		sum		

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

## WP 26 BILL OF QUANTITIES Grenadian Hill Connector Road Belle Garden

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	EARTHEN SURFACE	
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

## WP 28 BILL OF QUANTITIES Robert Street Extension, Roxborough Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 539' x 17'				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.				

a)	Excavate and cart away top layer 281' x 17' x 150mm in dept	88	yds <sup>3</sup>	
b)	Allow for compaction of roadway with 10 tonne roller to 97% MPD after crossing		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 9,163 ft2			
a)	Construct concrete roadway 539' x 17' x 6".	170	yds <sup>3</sup>	
b)	Slipper drain curb wall 539' x 6" x 8"	7	yds <sup>3</sup>	
0)	Shipper drain curo wall 339 x 6 x 8	/	yus	
<u>a)</u>	Slipper 4" thick x 12" wide	6	ruda <sup>3</sup>	
c)	Shipper 4 thick x 12 wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
<u>u)</u>	Render outer race and top of curb wan	1	yus	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Toadway			
f)	Allow for (6 ft x 17ft wide x 6") V-drain during concrete works		sum	
g)	Allow for the fixing and placing of concrete to roadway entrance 12ft x 6ft. Note that the construction is to be similar to that of the roadway.		sum	
h)	Allow for turntable (25' dia.) as directed. Note that the construction is to be similar to that of the roadway.		sum	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		

# WP 28 BILL OF QUANTITIES Robert Street Extension, Roxborough Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

## WP 29 BILL OF QUANTITIES Robinson Trace Louis D'oir Drainage and Concrete Platform

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.0	CONORDID WORKS				

a)	Construct reinforce concrete box drain with 4" thick base – 300 ft long x 2 ft wide x 2 ft 3ft depth (internal dimension) – reinforcement 1/2" corrugated steel at 8" c/c. All wall to be 150mm thick and render on open face  Collection		sum	
b)	Construct R/C concrete platform	1,800	sq ft	
d)	Allow for backfilling (rotten rock) box drain and general landscaping of the works		sum	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include for the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".			
2	A sufficiently detailed Comtt Chart and			
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.			

## WP 29 BILL OF QUANTITIES Robinson Trace Louis D'oir Drainage and Concrete Platform Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

## WP 30 BILL OF QUANTITIES Starwood Trace Speyside

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 470' x 20'				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations.  Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller				

	compactor for excavation works); remove vegetation; align roadway etc.			
a)	Excavate and cart away top layer 470' x 20' x 150mm in dept	<del>696</del> 175	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 9,400 ft2			
a)	Construct concrete roadway 470' x 20' x 6".	<del>696</del> 175	yds <sup>3</sup>	
b)	Slipper drain curb wall 470' x 6" x 8"	6	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	5	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Construct two (2) catch-pits 2'x2'x2' (internal dimensions) as directed. Cater for 4" concrete base	2	nr	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	

	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior to the commencement of works.		

#### WP 30 BILL OF QUANTITIES Starwood Trace Speyside Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

## WP 32 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase I

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities;				
	Signage, Survey works; Spray paint; Stakes;				
	Caution tape; Insurance; Security; OSHA and				
	EMA Requirements on roadway 636ft x 20ft				
	Allow for temporary facilities, inclusive of		Gum		
a)	miscellaneous Supplies: Spray paint, Stakes,		sum		
	Caution tape etc.				
	F				
b)	Allow for insurance and Security		sum		
	-				
c)	Allow for PPE and other safety items for site		sum		
	workers, DFPFF staffs and the General Public				
	in accordance with necessary regulations set				
	by OSHA. In addition, consideration is to be				
	given to Government's Covid-19 regulations.				
	Note that failure to put effective safety				
	measures in place will result in a "stop work				
	order".				
	Total carried to summary				
2.0	CHIP SEAL WORKS				
2.1	All inclusive of good working equipment				
	(excavator, dump truck, 10 tonne roller				

	compactor ); remove vegetation; align roadway etc.				
a)	Excavate and cart away top layer 1,350' x 20' x 12 inches in depth	1,000	yds <sup>3</sup>		
b)	Allow for proper alignment of roadway		sum		
c)	Allow for Sub-base construction 300mm with imported backfill material (rotten rock) compacted in 3" layer to 97% MPD	1,000	yds <sup>3</sup>		
	Collection				
2.2	All inclusive of Crush Run, spread and compacted with 5 to 10 tonne roller in layers of 3" to finish at 6" thick; 2mm aggregate; application of bitumen to crush run and 2mm aggregate.				
a)	Road base construction using crushed run, supply, spread and compact in 3" layer to 98% MPD and apply bitumen to crush rum	27,000	ft2		
b)	Supply and spread 2mm aggregate and apply bitumen to seal coat roadway	27,000	ft2		
	Collection				
	Total carried to summary				
2.0 3.0	CONCRETE WORKS				
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 1/2" HT steel, block work and backfilling material				
a)	Construct slipper drain curb wall 1,350' x 6" x 8"	18	yds <sup>3</sup>		

b)	Slipper 4" thick x 12" wide	15	yds <sup>3</sup>		
c)	Render outer face and top of curb wall	3	yds <sup>3</sup>		
			<del>                                     </del>		
e)	Allow for backfilling (rotten rock) behind 8"		sum		
	curb wall and general landscaping along		2 2722		
	roadway				
f)	Allow for the placing of 4" PVC sleeves with	64	ft		
	end caps every 300 feet under roadway				
	(perpendicular to roadway)				
	Collection				
	Conection				
	TD / 1				
	Total carried to summary				
3.0	DEMORILIZE				
3.1	<b>DEMOBILIZE</b> All inclusive, removal of tools, equipment and				
3.1	unused materials off site. Also dispose of				
	debris to an approved dump site				
	11				
a)	Allow for the removal of tools, equipment and		sum		
	unused materials offsite. Also include the				
	removal of debris to an approved dump site				
	Total carried to summary				
	General Note				
1	Prior to mobilizing, selected contractors must				
	submit their onsite supervisor's name and				
	contact number to the Project Manager in the				
	Project Implementation Unit. Furthermore,				
	this individual (supervisor) will be required to				
	be onsite during project activities or at the				
	Division's request. Note that failure in this				
	regard will result in a "stop work order".				
2	A sufficiently detailed Gantt Chart and				
	Method Statement are to be provided to the				
	Project Implementation Unit for review prior				
	to the commencement of works.				
				ı	ı

## WP 32 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase I Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CHIP SEAL WORKS	
<del>2.0</del>		
3.0	CONCRETE WORKS	
3.0		
4.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 33 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 636ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
2.0	CONCRETE WORKS				
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller				

Allow for the removal of loose material and compact roadway with 10 tonne roller to 97%		sum	
MPD Excavate and cart away top layer 150mm in depth	258	yds <sup>3</sup>	
Allow for alignment of roadway as identified/directed		sum	
Collection			
All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 13,960 ft2			
Construct concrete roadway 698' x 20' x 6".	258	yds <sup>3</sup>	
Slipper drain curb wall 698' x 6" x 8"	9	yds <sup>3</sup>	
Slipper 4" thick x 12" wide	8	yds <sup>3</sup>	
Render outer face and top of curb wall	1.3	yds <sup>3</sup>	
Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	70	ft	
Collection			
Total carried to summary			
DEMORII IZE			
All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
	Excavate and cart away top layer 150mm in depth  Allow for alignment of roadway as identified/directed  Collection  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 13,960 ft2  Construct concrete roadway 698' x 20' x 6".  Slipper drain curb wall 698' x 6" x 8"  Slipper 4" thick x 12" wide  Render outer face and top of curb wall  Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway  Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)  Collection  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and unused materials off site. Also dispose of	Excavate and cart away top layer 150mm in depth  Allow for alignment of roadway as identified/ directed  Collection  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 13,960 ft2  Construct concrete roadway 698' x 20' x 6". 258  Slipper drain curb wall 698' x 6" x 8" 9  Slipper 4" thick x 12" wide 8  Render outer face and top of curb wall 1.3  Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway  Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)  Collection  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and unused materials off site. Also dispose of	Excavate and cart away top layer 150mm in depth  Allow for alignment of roadway as identified/ directed  Collection  All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 13,960 ft2  Construct concrete roadway 698' x 20' x 6". 258 yds³  Slipper drain curb wall 698' x 6" x 8" 9 yds³  Slipper 4" thick x 12" wide 8 yds³  Render outer face and top of curb wall 1.3 yds³  Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway  Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)  Collection  Total carried to summary  DEMOBILIZE  All inclusive, removal of tools, equipment and unused materials off site. Also dispose of

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.		

# WP 33 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 34 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase III

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				
	Total carried to summary				
2.0	CONCRETE WORKS				

2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.			
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum	
	Excavate and cart away top layer 150mm in depth	296	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 16,000 ft2			
a)	Construct concrete roadway 800' x 20' x 6".	296	yds <sup>3</sup>	
u)	Construct concrete roadway 600 X 20 X 0 .	270	yus	
b)	Slipper drain curb wall 800' x 6" x 8"	10	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	9	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1.5	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	80	ft	
	Collection			
	The state of the s			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			

a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site	sum	
	Total carried to summary		
	General Note		
1	Prior to mobilizing, selected contractors must		
	submit their onsite supervisor's name and		
	contact number to the Project Manager in the		
	Project Implementation Unit. Furthermore,		
	this individual (supervisor) will be required to		
	be onsite during project activities or at the		
	Division's request. Note that failure in this		
	regard will result in a "stop work order".		
2	A sufficiently detailed <b>Gantt Chart</b> and		
	Method Statement are to be provided to the		
	Project Implementation Unit for review prior		
	to the commencement of works.		 

# WP 34 BILL OF QUANTITIES Top Hill Circular Road Belmont Farm Phase III Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 35 BILL OF QUANTITIES Top Hill Road (RIGHT) Belmont Farm Phase I

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway 609ft x 20ft				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				

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2.0	CONCRETE WORKS			
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.			
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD		sum	
	Excavate and cart away top layer 150mm in depth	226	yds <sup>3</sup>	
b)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
	CONCRETE WORKS			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 12,180 ft2			
			. 2	
a)	Construct concrete roadway 609' x 20' x 6".	226	yds <sup>3</sup>	
b)	Slipper drain curb wall 609' x 6" x 8"	8	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	7	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	61	ft	
	Collection			
2.3	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 1/2 corrugated steel 8" c/c in both direction			

a)	Construct reinforce concrete box drain with catch pit. Box drain to be 200' x 2' wide x 2' depth (internal dimension). All wall to be 150mm thick.	200	ft	
	Collection			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			
1	Prior to mobilizing, selected contractors must submit their onsite supervisor's name and contact number to the Project Manager in the Project Implementation Unit. Furthermore, this individual (supervisor) will be required to be onsite during project activities or at the Division's request. Note that failure in this regard will result in a "stop work order".			
2	A sufficiently detailed <b>Gantt Chart</b> and <b>Method Statement</b> are to be provided to the Project Implementation Unit for review prior to the commencement of works.			

### WP 35 BILL OF QUANTITIES Top Hill Road (RIGHT) Belmont Farm Phase I Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

### WP 36 BILL OF QUANTITIES Top Hill Road (RIGHT) Belmont Farm Phase II

Item	Description	Quantity	Unit	Rate	Total
1.0	PRELIMINARIES				
1.1	To cover the cost of Temporary Facilities; Signage, Survey works; Spray paint; Stakes; Caution tape; Insurance; Security; OSHA and EMA Requirements on roadway				
a)	Allow for temporary facilities, inclusive of miscellaneous Supplies: Spray paint, Stakes, Caution tape etc.		sum		
b)	Allow for insurance and Security		sum		
c)	Allow for PPE and other safety items for site workers, DFPFF staffs and the General Public in accordance with necessary regulations set by OSHA. In addition, consideration is to be given to Government's Covid-19 regulations. Note that failure to put effective safety measures in place will result in a "stop work order".		sum		
	Total carried to summary				

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2.0	CONCRETE WORKS			
2.1	All inclusive of good working equipment (excavator, dump truck, 10 tonne roller compactor for excavation works); remove vegetation; align roadway etc.			
a)	Allow for the removal of loose material and compact roadway with 10 tonne roller to 97% MPD  Excavate and cart away top layer 150mm in	206	sum yds <sup>3</sup>	
	depth	200	yus	
b)	Allow for alignment of roadway as identified/directed		sum	
	Collection			
2.2	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling 11,120 ft2			
a)	Construct concrete roadway 556' x 20' x 6"	206	yds <sup>3</sup>	
<i>a)</i>	Construct concrete foadway 550 X 20 X 0	200	yus	
b)	Slipper drain curb wall 556' x 6" x 8"	7	yds <sup>3</sup>	
c)	Slipper 4" thick x 12" wide	6	yds <sup>3</sup>	
d)	Render outer face and top of curb wall	1	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
-	Allow for the placing of 4" DVC alcoveryith	56	C,	
f)	Allow for the placing of 4" PVC sleeves with end caps every 300 feet under R/C roadway (perpendicular to roadway)	56	ft	
	Collection			
2.3	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 6x6x5 gauge BRC, block work, weep holes and backfilling for roadway 1,200 ft2			
	Page			

- \	G	22	1-3	
a)	Construct concrete roadway 100' x 12' x 6"	22	yds <sup>3</sup>	
b)	Construct curb wall 100' x 6" x 8"	2	yds <sup>3</sup>	
- 0)	Construct care wan 100 X 0 X 0		yus	
c)	Construct 4" thick x12" wide slipper	1	yds <sup>3</sup>	
,	11		-	
d)	Render outer face and top of curb wall	0.2	yds <sup>3</sup>	
e)	Allow for backfilling (rotten rock) behind 8" curb wall and general landscaping along roadway		sum	
	Toduway			
	Collection			
2.4	All inclusive of formwork, cement/ sand render, concrete – 3000 psi, reinforcement – 1/2 corrugated steel 8" c/c in both direction			
2)	Construct reinforce concrete slab covered box		cum	
a)	drain. Box drain with 4" thick base - 12' long x 3' wide x 2' depth (internal dimension) – reinforcement 1/2" corrugated steel at 8" c/c. Slab cover to be 12 ft long x 4 ft 4inches wide x 6 inches depth single layer 5/8" mat (both directions). All wall to be 150mm thick.		sum	
	g :: .			
	Collection			
	Total carried to summary			
	Total carried to summary			
3.0	DEMOBILIZE			
3.1	All inclusive, removal of tools, equipment and unused materials off site. Also dispose of debris to an approved dump site			
a)	Allow for the removal of tools, equipment and unused materials offsite. Also include the removal of debris to an approved dump site		sum	
	Total carried to summary			
	General Note			

1	Prior to mobilizing, selected contractors must	
	submit their onsite supervisor's name and	
	contact number to the Project Manager in the	
	Project Implementation Unit. Furthermore,	
	this individual (supervisor) will be required to	
	be onsite during project activities or at the	
	Division's request. Note that failure in this	
	regard will result in a "stop work order".	
2	A sufficiently detailed <b>Gantt Chart</b> and	
	Method Statement are to be provided to the	
	Project Implementation Unit for review prior	
	to the commencement of works.	

## WP 36 BILL OF QUANTITIES Top Hill Road (RIGHT) Belmont Farm Phase II Summary

Item	Description	Total
1.0	PRELIMINARIES	
2.0	CONCRETE WORKS	
3.0	DEMOBILIZATION	
	Sub Total	
	VAT	
	Total	

#### SCHEDULE III (a)

Statutory Declaration (Private Company)

#### REPUBLIC OF TRINIDAD AND TOBAGO

#### IN THE MATTER OF THE STATUTORY DECLARATIONS ACT CHAPTER 7:04

I,	, Director and
	(Name of director)
authorized	representative of(Name of company)
a company	duly incorporated and continued under the Companies Act 1995, with its registered
office situa	te at(Address of company)
	(Address of company)
the Island of	of Tobago/Trinidad in the Republic of Trinidad and Tobago, make oath and say as
1.	I am the authorized representative of
	and duly authorized to give this declaration on its behalf.
2.	The facts hereto deposed are true and correct and within my personal knowledge and
	belief save where otherwise stated to be based on information, in which case I verily
	believe same to be true and the source reliable.
3.	I hereby certify that any signed contracts/letters of award of purchase orders that has
3.	I hereby certify that any signed contracts/letters of award of purchase orders that has been submitted by the Bidder in response to the Division's Access Road Programme
3.	

and that the Bidder was not terminated for any reason related to and or ancillary to material non – performance.

- 4. I have had my Attorney-at-Law explained to me and I fully understand the consequences, ramifications and implications of the aforesaid declaration.
- 5. I have deposed this declaration of my own free will, voluntarily and as a free and independent person without any threats, intimidation, promises and or inducement from anyone and after receiving legal advice and I hereby declare that I am mentally sound and in full control of my mental capacity, mind and body.
- 6. I, make this declaration conscientiously believing the same to be true and according to the Statutory Declarations Act, and I am aware that if there is any statement in this declaration which is false in fact, which I know or believe to be false or do not believe to be true, I am liable to fine and imprisonment

Declare	ed at	)		
this	day		)	
of		2021	)	
				Before me

COMMISSIONER OF AFFIDAVITS

#### SCHEDULE III (b)

Statutory Declaration (Private Individual)

#### REPUBLIC OF TRINIDAD AND TOBAGO

#### IN THE MATTER OF THE STATUTORY DECLARATIONS ACT CHAPTER 7:04

(Occupation of person)  (Address of person)
bbago/Trinidad in the Republic of Trinidad and Tobago, make oath and say as
bbago/Trinidad in the Republic of Trinidad and Tobago, make oath and say as
ne facts hereto deposed are true and correct and within my personal knowledge and lief save where otherwise stated to be based on information, in which case I verily lieve same to be true and the source reliable.
ereby certify that any signed contracts/letters of award of purchase orders that has en submitted by the Bidder in response to the Division's Access Road Programme 18 is a true representation of works the Bidder has undertaken for me personally d further that the Bidder was not terminated for any reason related to and or cillary to material non – performance.
have had my Attorney-at-Law explained to me and I fully understand the nsequences, ramifications and implications of the aforesaid declaration.
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- 4. I have deposed this declaration of my own free will, voluntarily and as a free and independent person without any threats, intimidation, promises and or inducement from anyone and after receiving legal advice and I hereby declare that I am mentally sound and in full control of my mental capacity, mind and body.
- 5. I, make this declaration conscientiously believing the same to be true and according to the Statutory Declarations Act, and I am aware that if there is any statement in this declaration which is false in fact, which I know or believe to be false or do not believe to be true, I am liable to fine and imprisonment

Declared at			)	
this	day		)	
of		2021	)	
				Before me,

**COMMISSIONER OF AFFIDAVITS**