

NOTES

EQUIPMENT NOTES

1. All top and finish elevations.
2. All work to be done in accordance with the specifications, plans, notes, and any other information furnished by the Employer.
3. Dimensions of materials are to be as shown on the drawings.
4. All materials and workmanship to be in accordance with the specifications.
5. All work to be done in accordance with the specifications.
6. All work to be done in accordance with the specifications.
7. All work to be done in accordance with the specifications.
8. All work to be done in accordance with the specifications.
9. All work to be done in accordance with the specifications.
10. All work to be done in accordance with the specifications.

GENERAL NOTES

1. All work to be done in accordance with the specifications.
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REVISION

NO.	DATE	DESCRIPTION

CLIENT

[Signature]

COMPANY

LEKWA

REGISTERED PROFESSIONAL ENGINEER

LEKWA ENGINEERING

1000 10th Street NW
Calgary, Alberta T2P 1C6
Canada

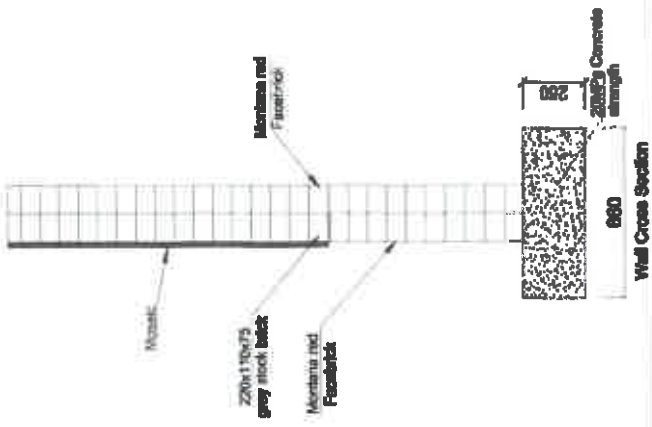
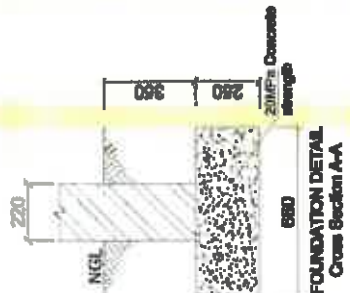
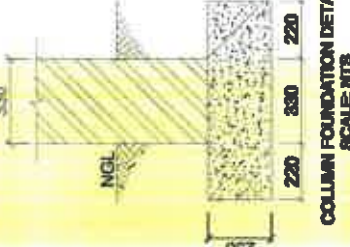
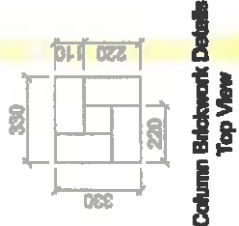
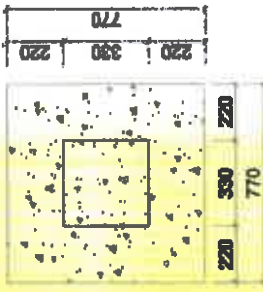
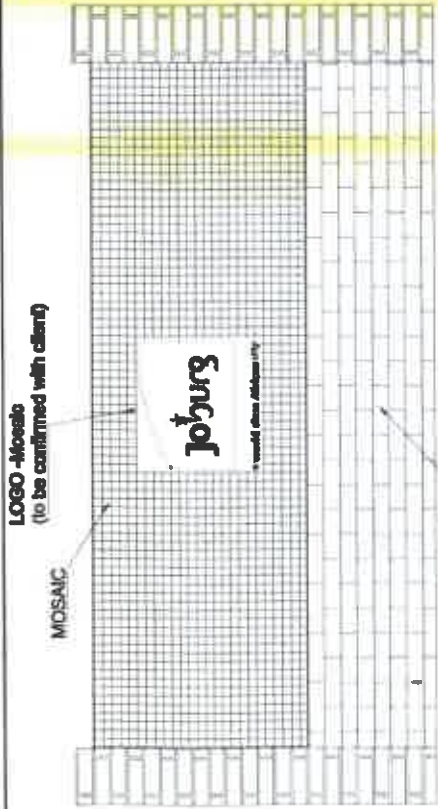
DATE AUGUST 2018
DRAWING NO. LP-17-00-01-00



LOCALITY MAP



SAMPLE - MOSAIC WALL



CONSTRUCTION OF A PERIMETER WALL FOR LIMPOPO PUBLIC TRANSPORT FACILITY

Item No.	Description	Unit	Qty	Rate	Amount
	SECTION No.1				
	Bill No. 1				
	PRELIMINARIES AND GENERAL				
	GENERAL REQUIREMENTS & PROVISIONS				
1.1	Remuneration of Liaison Officer (CLO)				
1.1.1	Remuneration of CLO (based on R4 700/month incl. cellphone and traveling allowance)	Month	8	R	-
1.2	HOUSING OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL				
	Office and laboratory accommodations:				
1.2.1	Office (interior floor space only)	m ²	25	R	-
1.2.2	Office and laboratory furniture:				
	(a) Chairs	No.	4	R	-
	(b) Desks, complete with drawers and locks	No.	2	R	-
	(c) Conference table with chairs	No.	1	R	-
1.3	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
1.3.1	Fixed obligations	Sum	1	R	-
1.3.2	Value-related obligations	Sum	1	R	-
1.3.3	Time-related obligations	Month	8	R	-
1.3	DAYWORKS				
	Labour Charges				
	Note: Executed on instruction of the Engineer only				
1.3.1	Skilled	hr	80	R	-
1.3.2	Semi-skilled	hr	80	R	-
1.3.3	Un-skilled	hr	80	R	-
1.4	Plant charges				
	Crane for excavators				
1.4.1	Smaller than 80kw (arms)	hr	80	R	-
PRELIMINARIES AND GENERAL CARRIED TO FINAL SUMMARY					R 0.00

CONSTRUCTION OF A PERIMETER WALL FOR LIRANI PUBLIC TRANSPORT FACILITY

Item No.	Description	Unit	Qty	Rate	Amount
	SECTION No.2 BILL No. 1 EARTHWORKS (PROVISIONAL) SITE CLEARANCE, ETC.				
1.1	Site clearance				
1.1.1	Dig up and remove rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush etc.	m ²	580		R
	EXCAVATION, FILLING, ETC.				
1.2	Excavation in earth not exceeding 2m. deep				
1.2.1	Trenches.	m ³	65		R
1.2.2	Basin-wall	m ³	20		R
1.3	Extra over trench and hole excavations in earth for excavation in				
1.3.1	Soft rock.	m ³	10		R
1.3.2	Hard rock.	m ³	8		R
1.4	Extra over all excavations for carting away				
1.4.1	Surplus material from excavations and/or stockpile on site to a dumping site to be located by the contractor (up to a radius of 5km - return distance not covered)	m ³	55		R
1.5	Risk of collapse of excavations				
1.5.1	Sides of trench and hole excavations not exceeding 1,8m deep including keeping excavations free from water	m ²	380		R
1.6	Keeping excavations free of water				
1.6.1	Keeping excavations free of water other than subterranean water	Item	1		R
1.7	Earth filling obtained from excavations and/or stockpile on site compacted to 95% Mod. AASHTO density				
1.7.1	Backfill to trenches, holes, etc.	m ³	30		R
EARTHWORKS CARRIED TO SECTION SUMMARY					R 0.00

CONSTRUCTION OF A PERIMETER WALL FOR LINEAR PUBLIC TRANSPORT FACILITY

Item No.	Description	Unit	Qty	Rate	Amount
	SECTION No.2				
	BILL No. 2				
	CONCRETE FORMWORK AND REINFORCEMENT				
	CONCRETE				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
2.1	28MPa/20mm concrete				
2.1.1	Strip footings	m ²	20	R	-
2.1.2	Base-wall	m ²	10	R	-
2.2	TEST BLOCK				
2.2.1	Mixing and testing a set of three 150 x 150 x 150mm. concrete strength test cubes (Provisional)	no	1	R	-
2.3	FORMWORK				
	Rough formwork to sides				
2.3.1	Base-wall	m ²	46	R	-
2.4	PRECAST CONCRETE				
2.4.1	370 X 75mm thick overall coping (Type 14) weathered on top to 65mm thick along one edge with drip grooves in bottom along both edges	m	200	R	-
	PAVING				
	Approved brand of anti-termite roll poison and woodkiller is to be applied under paving by a Registered Company and guaranteed for ten years.				
	Paving shall be laid in accordance with SABS 1200MI, SABS 105B and the Concrete Masonry Association's specifications.				
	Paving shall be laid on 20mm (thickness after final or filling elsewhere).				
	Clean plaster sand shall be swept into joints between roadstones.				
2.5	20mm Thick "Insect Control Screen" standard TAN coloured grit screen laid on and including 20mm thick bed of fine sand				
2.5.1	Paving to pavements, pathways, etc. to falls including any consequent cutting (circular cutting elsewhere).	m ²	200	R	-
CONCRETE FORMWORK AND REINFORCEMENT CARRIED TO SECTION SUMMARY					R 0.00

CONSTRUCTION OF A PERIMETER WALL FOR LEASE PUBLIC TRANSPORT FACILITY

Item No.	Description	Unit	Qty	Rate	Amount
	SECTION No.2				
	BSA.No.2				
	MASONRY				
	SKIDWORK				
	FOUNDATIONS (PROVISIONAL)				
3.1	Brickwork of 10K bricks (140MPa nominal compressive strength) in class 1 mortar				
3.1.1	Piers	m ³	2		R
3.1.2	One brick walls	m ²	60		R
	SUPERSTRUCTURE				
	SKIDWORK FINISHES				
	Skidwork finishes				
3.2	Joint finishing material in replacement joints				
3.2.1	10mm Bitumen impregnated fibre board built in vertically between brick skins	m ²	38		R
3.3	Reinforcement in brickwork				
3.3.1	150mm wide brick force built in horizontally	m	1600		R
3.4	Face brick pointed with recessed horizontal and vertical joints. (Allow P.C. amount of R5,000.00 per 1000 for supply and delivery)				
3.4.1	Piers	m ³	11		R
3.4.2	One brick walls in English bond pointed both sides	m ²	371		R
3.4.3	Extra over ordinary brickwork for face brickwork	m ²	208		R
MASONRY, CARRIED TO SECTION SUMMARY					R 0.00

CONSTRUCTION OF A PERIMETER WALL FOR LHMAT PUBLIC TRANSPORT FACILITY

BILL NO.	FINAL SUMMARY	AMOUNT
1	PRELIMINARIES AND GENERALS	R 0.00
2	EARTHWORKS (PROVISIONAL)	R 0.00
3	CONCRETE, FORMWORK AND REINFORCEMENT	R 0.00
4	MASONRY	R 0.00
	SUB-TOTAL 1	R -
	10% CONTINGENCIES	R -
	SUB-TOTAL 2	R -
	15% VAT	R -
	CONTRACT TOTAL	R -