



FOOTPATHS LAYOUT
SCALE 1:1000

HORIZONTAL ALIGNMENT : FOOTPATH 1				
No.	CHAINAGE	CO-ORDINATES WG Lc31*		CURVE DETAILS
		Y Co-Ord	X Co-Ord	
START	0.000	-9400.876	2817839.229	---
Curve No. 1	BC1	1865.049	-11265.916	2817833.673
	EC1	2297.749	-11682.793	2817833.381
	P11		-11486.436	2817833.016
	CC1		-11268.627	2818743.669
Curve No. 2	BC2	3068.187	-12368.811	2818284.029
	EC2	3555.308	-12839.656	2818385.382
	P12		-12590.726	2818397.457
	CC2		-12794.356	2817451.480
Curve No. 3	BC3	4252.581	-13536.110	2818351.599
	EC3	4687.736	-13967.040	2818397.861
	P13		-13755.199	2818340.972
	CC3		-13603.940	2819749.955
Curve No. 4	BC4	5710.905	-14955.197	2818663.227
	EC4	5960.376	-15185.481	2818757.442
	P14		-15076.306	2818695.750
	CC4		-14698.434	2819619.351
END	5961.153	-15186.158	2818757.825	---

HORIZONTAL ALIGNMENT : FOOTPATH 2				
No.	CHAINAGE	CO-ORDINATES WG Lc31*		CURVE DETAILS
		Y Co-Ord	X Co-Ord	
START	0.000	-9400.876	2817839.229	---
Curve No. 1	BC1	1865.049	-11265.916	2817833.673
	EC1	2297.749	-11682.793	2817833.381
	P11		-11486.436	2817833.016
	CC1		-11268.627	2818743.669
Curve No. 2	BC2	3068.187	-12368.811	2818284.029
	EC2	3555.308	-12839.656	2818385.382
	P12		-12590.726	2818397.457
	CC2		-12794.356	2817451.480
Curve No. 3	BC3	4252.581	-13536.110	2818351.599
	EC3	4687.736	-13967.040	2818397.861
	P13		-13755.199	2818340.972
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	EC4	5960.376	-15185.481	2818757.442
	P14		-15076.306	2818695.750
	CC4		-14698.434	2819619.351
END	5961.153	-15186.158	2818757.825	---

HORIZONTAL ALIGNMENT : FOOTPATH 3				
No.	CHAINAGE	CO-ORDINATES WG Lc31*		CURVE DETAILS
		Y Co-Ord	X Co-Ord	
START	0.000	-9400.876	2817839.229	---
Curve No. 1	BC1	1865.049	-11265.916	2817833.673
	EC1	2297.749	-11682.793	2817833.381
	P11		-11486.436	2817833.016
	CC1		-11268.627	2818743.669
Curve No. 2	BC2	3068.187	-12368.811	2818284.029
	EC2	3555.308	-12839.656	2818385.382
	P12		-12590.726	2818397.457
	CC2		-12794.356	2817451.480
Curve No. 3	BC3	4252.581	-13536.110	2818351.599
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Curve No. 4	BC4	5710.905	-14955.197	2818663.227
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	P14		-15076.306	2818695.750
	CC4		-14698.434	2819619.351
END	5961.153	-15186.158	2818757.825	---

BENCHMARKS	
BM3F	19402.863 3306106.996 283.637
BM2A	19349.095 3306069.798 269.461
BM1	19292.144 3306045.901 262.495
BM3	19402.863 3306106.995 283.637

FOOTPATH	LENGTH	AREA
1	754	119
2	1018	167
3	1878	208

LEGEND	
Existing Road	
Existing Formal/masonry Buildings	
Existing Informal Structure	
Existing Fence	
Existing Concrete Works	
Existing Sewer Manhole	
Limit of Construction	
Existing Stormwater	
Stormwater headwall	
Embankment	
New Dry-stack Retaining wall	

NOTES

GENERAL :

1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE.
3. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
4. ALL SURVEY AND SETTING OUT DATA PROVIDED IS BASED ON (WGS 84).
5. ALL WORK AREAS TO BE REINSTATED (PREMIUM CONCRETE, ETC.)
6. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
7. UNLESS OTHERWISE AGREED WITH ENGINEER, CONTRACTOR TO SUPPLY ENGINEER WITH RESULTS OF COMPACTION TESTS, AND WHEN APPLICABLE, PERCENTAGE STABILISATION TESTS ON BACKFILL.
8. ALL WORKS IN ACCORDANCE WITH CITY OF DURBAN SPECIFICATIONS AND SANS 1200.
9. THE ENGINEER REQUIRES 24 HOURS NOTICE FOR ALL INSPECTIONS.

MATERIAL COMPLIANCE TESTING :

1. RESULTS OF COMPACTION AND CBR TESTS ON INSITU SUB-BASE MATERIAL AND FILLED SUB-BASE MATERIAL MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE UPPER LAYER WORKS ARE IMPORTED TO THE SITE AND PLACED.

FREQUENCY OF TESTS :

1. CBR TESTS 1 PER 300m²
2. COMPACTION TESTS 1 PER 200m² NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS IMPORTED AND COMPACTED IN PLACE.

RETAINING WALL :

1. ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE.
2. ALL CONCRETE WORK IS TO COMPLY WITH SANS 1200S.
3. CONCRETE GRADE : FOUNDATION/25 /19
4. ALL FOUNDATION EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
5. ALL REINFORCING FIXING IS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
6. SIX CONCRETE CUBES TO BE TAKEN PER BATCH. THREE CUBES TO BE TESTED AT SEVEN DAYS, THE REMAINDER AT TWENTY EIGHT DAYS. THE RESULTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. SET BOTTOM ROW OF BLOCKS IN WET CONCRETE.
8. ALL BACKFILL TO BE COMPACTED TO 85% MOD AASHTO DENSITY.
9. STORM WATER BEHIND THE TOP OF THE WALL TO BE MANAGED IN SUCH A MANNER AS TO OBVIATE SCOUR BEHIND OR OVER-TOPPING OF THE WALL.

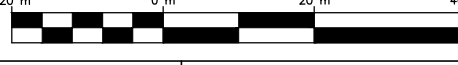
ROADS AND FOOTPATHS :

1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY. DAYLIGHT REQUIREMENTS ARE TO BE DECIDED BY THE ENGINEER ON SITE. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
3. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
4. UNDERGROUND SERVICE CROSSINGS AND MARKERS ARE TO BE ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS.
5. ALL NEW ROAD SIGNS AND ROAD MARKING REQUIREMENTS ARE TO CONFORM TO THE SOUTHERN AFRICAN DEVELOPMENT COMMUNITY ROAD TRAFFIC SIGNS MANUAL (SADC - RTSM).
6. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH "COLD" SPECIFICATIONS FOR ROAD AND BRIDGE WORKS FOR STATE ROAD AUTHORITIES.
7. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

STORMWATER :

1. ALL STORMWATER PIPES ARE CLASS 1000 CONCRETE AND HD CL 34 uPVC PIPES.
2. ALL STORMWATER CONCRETE PIPES TO COMPLY WITH SANS 677 STANDARDS.
3. ALL uPVC PIPES TO COMPLY WITH SANS 966 STANDARDS.
4. ALL JOINTS TO BE SPOUT AND SOCKET TYPE.
5. ALL STORMWATER PIPES TO BE LAID ON CLASS 8 BEDDING.
6. ALL EXISTING DRAINAGE CULVERTS ARE TO BE INSPECTED, AND ANY FOUND IN UNSERVICABLE CONDITION ARE TO BE REPLACED ON INSTRUCTION BY THE CIVIL ENGINEER.
7. CULVERT INVERTS ARE TO BE DECIDED BY CIVIL ENGINEER ON SITE, UNLESS SHOWN OTHERWISE. MIN. COVER = 600mm, MIN. SLOPE = 2%.

SCALE (mm)



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