

RAY NKONYENI LOCAL MUNICIPALITY



RAY NKONYENI LOCAL MUNICIPALITY

TENDER NO: 8/2/RNM0299

REHABILITATION OF COLLEGE AND PORTION OF CHURCHILL ROADS IN WARD 2 SOUTHBROOM

TENDER DRAWINGS

JUNE 2021

PREPARED BY:

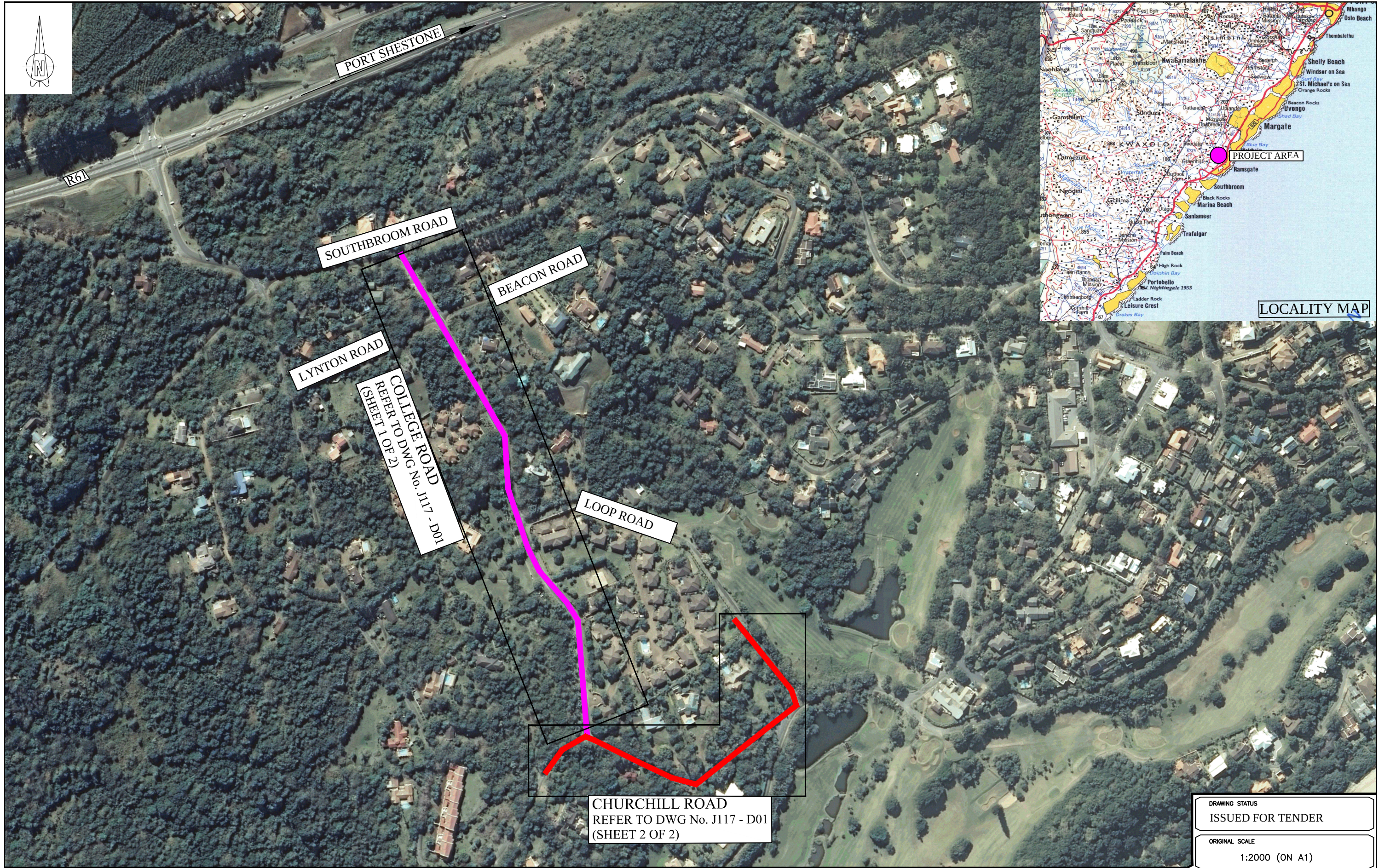


35 RIDGE ROAD
SCOTTSVILLE
PIETERMARITZBURG
3201

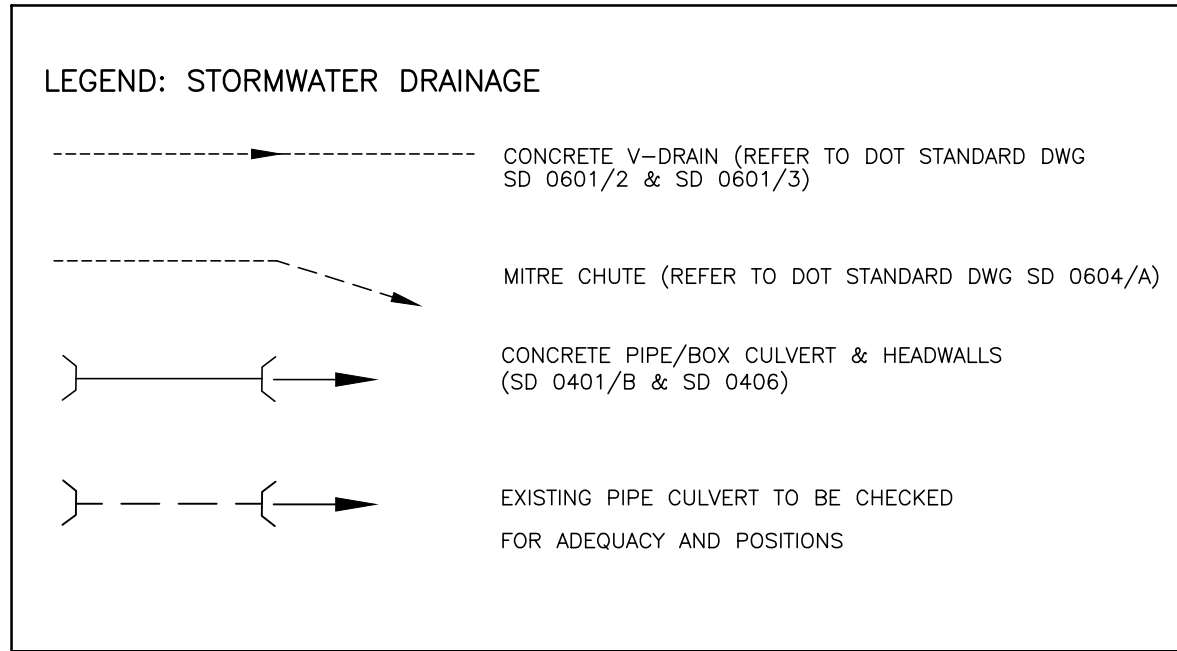
TEL: (033) 346 0673
FAX: (033) 346 0692
E-mail: ziyanda@ziyandaconsulting.co.za

ON BEHALF OF:

RAY NKONYENI LOCAL MUNICIPALITY
10 CONNOR STREET/ PO BOX 5
PORT SHEPSTONE
4240



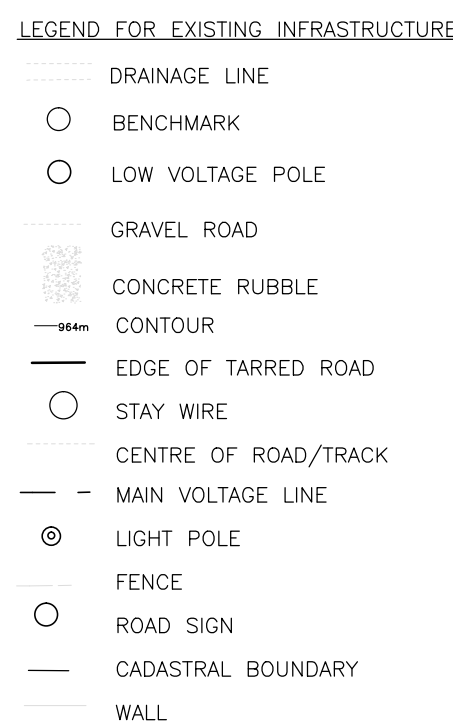
No.	REFERENCE DRAWINGS	0 ISSUED FOR TENDER REVISIONS 06/21 GM SM DATE CHKD APPRV ONLY REVISIONS MARKED THUS ARE VALID	DESIGNED	B. MLALAZI	ZIYANDA consulting TEL: (033) 346 0689 FAX: (033) 346 0692 E-mail: ziyanda@ziyandaconsulting.co.za PO BOX 809 HILTON PIETERMARITZBURG 3245 APPROVED : S. MGUTSHINI (PR ENG REG. No. 20040208)	RAY NKONYENI APPROVED : _____	PROJECT/DRAWING TITLE	RAY NKONYENI LOCAL MUNICIPALITY	ALT. DWG. No. OF	CONTRACT No.
			CHECKED	S. MGUTSHINI			SHT. No. OF	PROJECT No. J117		
			DRAWN	B. MLALAZI			DRAWING No. J117-D01			
			CHECKED	G. MLAMBO			REVISION O			
			PROJ. ENG.	S. MGUTSHINI			PROJECT PLAN AND LOCALITY MAP			



COORDINATE LIST
HEIGHT DATUM: WGS84/31

Code	Y	X	Elevation
BASE 1	73500.234	3421860.315	334.193
BASE 2	65216.237	3421860.315	334.193
BASE 3	65216.237	3421860.315	334.193
BASE 4	65216.237	3421860.315	334.193
BASE 5	65216.237	3421860.315	334.193
BASE 6	65216.237	3421860.315	334.193
BASE 7	65216.237	3421860.315	334.193
BASE 8	65216.237	3421860.315	334.193
BASE 9	65216.237	3421860.315	334.193
BASE 10	65216.237	3421860.315	334.193
BASE 11	65216.237	3421860.315	334.193
BASE 12	65216.237	3421860.315	334.193
BASE 13	65216.237	3421860.315	334.193
BASE 14	65216.237	3421860.315	334.193
BASE 15	65216.237	3421860.315	334.193
BASE 16	65216.237	3421860.315	334.193
BASE 17	65216.237	3421860.315	334.193
BASE 18	65216.237	3421860.315	334.193
BASE 19	65216.237	3421860.315	334.193
BASE 20	65216.237	3421860.315	334.193
BASE 21	65216.237	3421860.315	334.193
BASE 22	65216.237	3421860.315	334.193
BASE 23	65216.237	3421860.315	334.193
BASE 24	65216.237	3421860.315	334.193
BASE 25	65216.237	3421860.315	334.193
BASE 26	65216.237	3421860.315	334.193
BASE 27	65216.237	3421860.315	334.193
BASE 28	65216.237	3421860.315	334.193
BASE 29	65216.237	3421860.315	334.193
BASE 30	65216.237	3421860.315	334.193
BASE 31	65216.237	3421860.315	334.193
BASE 32	65216.237	3421860.315	334.193
BASE 33	65216.237	3421860.315	334.193
BASE 34	65216.237	3421860.315	334.193
BASE 35	65216.237	3421860.315	334.193
BASE 36	65216.237	3421860.315	334.193
BASE 37	65216.237	3421860.315	334.193
BASE 38	65216.237	3421860.315	334.193
BASE 39	65216.237	3421860.315	334.193
BASE 40	65216.237	3421860.315	334.193
BASE 41	65216.237	3421860.315	334.193
BASE 42	65216.237	3421860.315	334.193
BASE 43	65216.237	3421860.315	334.193
BASE 44	65216.237	3421860.315	334.193
BASE 45	65216.237	3421860.315	334.193
BASE 46	65216.237	3421860.315	334.193
BASE 47	65216.237	3421860.315	334.193
BASE 48	65216.237	3421860.315	334.193
BASE 49	65216.237	3421860.315	334.193
BASE 50	65216.237	3421860.315	334.193
BASE 51	65216.237	3421860.315	334.193
BASE 52	65216.237	3421860.315	334.193
BASE 53	65216.237	3421860.315	334.193
BASE 54	65216.237	3421860.315	334.193
BASE 55	65216.237	3421860.315	334.193
BASE 56	65216.237	3421860.315	334.193
BASE 57	65216.237	3421860.315	334.193
BASE 58	65216.237	3421860.315	334.193
BASE 59	65216.237	3421860.315	334.193
BASE 60	65216.237	3421860.315	334.193
BASE 61	65216.237	3421860.315	334.193
BASE 62	65216.237	3421860.315	334.193
BASE 63	65216.237	3421860.315	334.193
BASE 64	65216.237	3421860.315	334.193
BASE 65	65216.237	3421860.315	334.193
BASE 66	65216.237	3421860.315	334.193
BASE 67	65216.237	3421860.315	334.193
BASE 68	65216.237	3421860.315	334.193
BASE 69	65216.237	3421860.315	334.193
BASE 70	65216.237	3421860.315	334.193
BASE 71	65216.237	3421860.315	334.193
BASE 72	65216.237	3421860.315	334.193
BASE 73	65216.237	3421860.315	334.193
BASE 74	65216.237	3421860.315	334.193
BASE 75	65216.237	3421860.315	334.193
BASE 76	65216.237	3421860.315	334.193
BASE 77	65216.237	3421860.315	334.193
BASE 78	65216.237	3421860.315	334.193
BASE 79	65216.237	3421860.315	334.193
BASE 80	65216.237	3421860.315	334.193
BASE 81	65216.237	3421860.315	334.193
BASE 82	65216.237	3421860.315	334.193
BASE 83	65216.237	3421860.315	334.193
BASE 84	65216.237	3421860.315	334.193
BASE 85	65216.237	3421860.315	334.193
BASE 86	65216.237	3421860.315	334.193
BASE 87	65216.237	3421860.315	334.193
BASE 88	65216.237	3421860.315	334.193
BASE 89	65216.237	3421860.315	334.193
BASE 90	65216.237	3421860.315	334.193
BASE 91	65216.237	3421860.315	334.193
BASE 92	65216.237	3421860.315	334.193
BASE 93	65216.237	3421860.315	334.193
BASE 94	65216.237	3421860.315	334.193
BASE 95	65216.237	3421860.315	334.193
BASE 96	65216.237	3421860.315	334.193
BASE 97	65216.237	3421860.315	334.193
BASE 98	65216.237	3421860.315	334.193
BASE 99	65216.237	3421860.315	334.193
BASE 100	65216.237	3421860.315	334.193

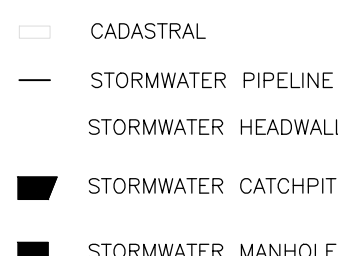
NOTES:
1. HEIGHTS AND POSITIONS RELATED TO TRIG
2. HEIGHTS ON THE MEAN SEA LEVEL
3. ONLY VISIBLE SERVICES WERE SURVEYED.



College Road
Churchill Section 02
Churchill Road Section 02
Churchill Road Section 03

Number	Radius	Length/Line/Chord	Direction	Value
L1	85.97	S29° 07'	21.32°E	
L2	125.63	S29° 07'	48.62°E	
L3	44.38	S10° 09'	13.48°E	
L4	29.56	S24° 58'	25.50°E	
L5	15.64	S41° 45'	50.06°E	
L6	106.87	S5° 23'	37.55°E	
C1	200.00	0.03	S29° 07'	34.97°E
C2	200.00	66.24	S19° 38'	31.05°E
C3	200.00	51.73	S17° 33'	49.49°E
C4	133.53	39.13	S33° 22'	07.78°E
C5	50.14	31.83	S23° 34'	43.80°E
L7	27.63	N26° 25'	14.52°E	
L8	17.32	N67° 24'	36.92°E	
C6	61.77	44.19	N46° 54'	55.72°E
L9	0.72	S5° 23'	37.55°E	
L10	107.17	S65° 08'	53.93°E	
L11	126.23	N52° 38'	34.98°E	
C7	24.49	25.54	S35° 16'	15.74°E
C8	25.41	27.59	N83° 44'	50.53°E
L12	12.70	N8° 21'	10.84°W	
L13	141.92	N35° 25'	44.17°W	
C9	53.30	25.19	N21° 53'	27.51°W

LEGEND



ALIGNMENT=CHURCHILL ROAD SECTION 1
STATION=0+000.00
OFFSET=0.00m
NORTHING=-3422177.81
EASTING=-65263.46

ALIGNMENT= CHURCHILL ROAD SECTION 2
STATION=0+013.49
OFFSET=3.75m R
NORTHING=-3422116.49
EASTING=-65204.79

CHURCHILL ROAD LAYOUT PLAN
SCALE 1:1000

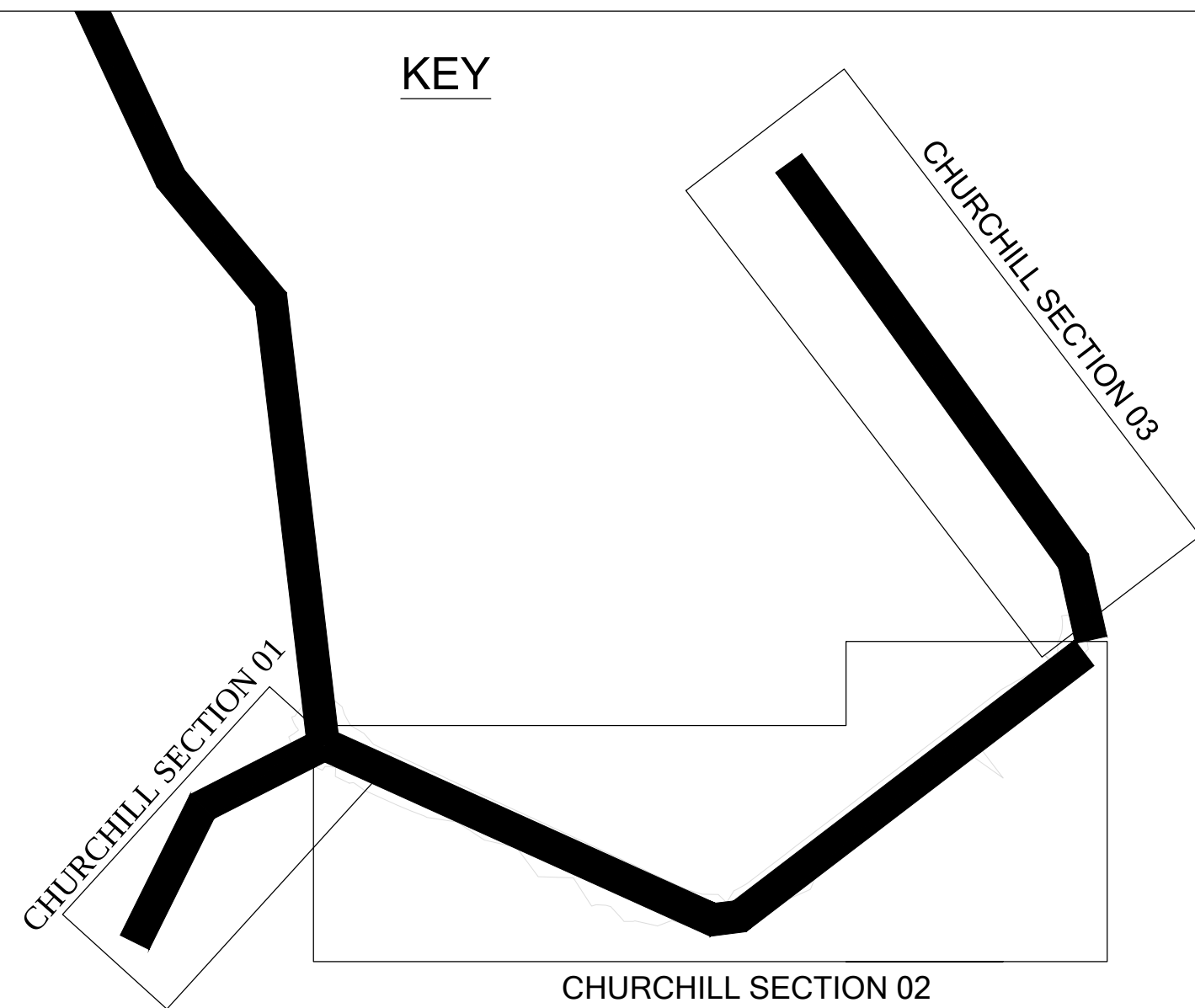
ALIGNMENT=CHURCHILL ROAD SECTION 3
STATION=0+025.29
OFFSET=1.52m R
NORTHING=-3422061.54
EASTING=-64970.76

ALIGNMENT=CHURCHILL ROAD SECTION 2
STATION=0+287.25
OFFSET=0.00m R
NORTHING=-3422088.00
EASTING=-64968.35

Intersection - 6
Captain Smith Road FGLT, Station=0+57.38
Churchill Road 03, Station=0+00.00

Intersection - 5
Captain Smith Road FGLT, Station=0+55.62
Churchill Road 02, Station=2+87.26

KEY



Chainage Distance (km)	
FINAL ROAD LEVELS	Left
	Centre Line
	Right
C/L Ground Levels	
Vertical Curves	
Horizontal Alignment	
Super Elevation	
Layworks	

LONGSECTION CHURCHILL SECTION 01
SCALE 1:1500

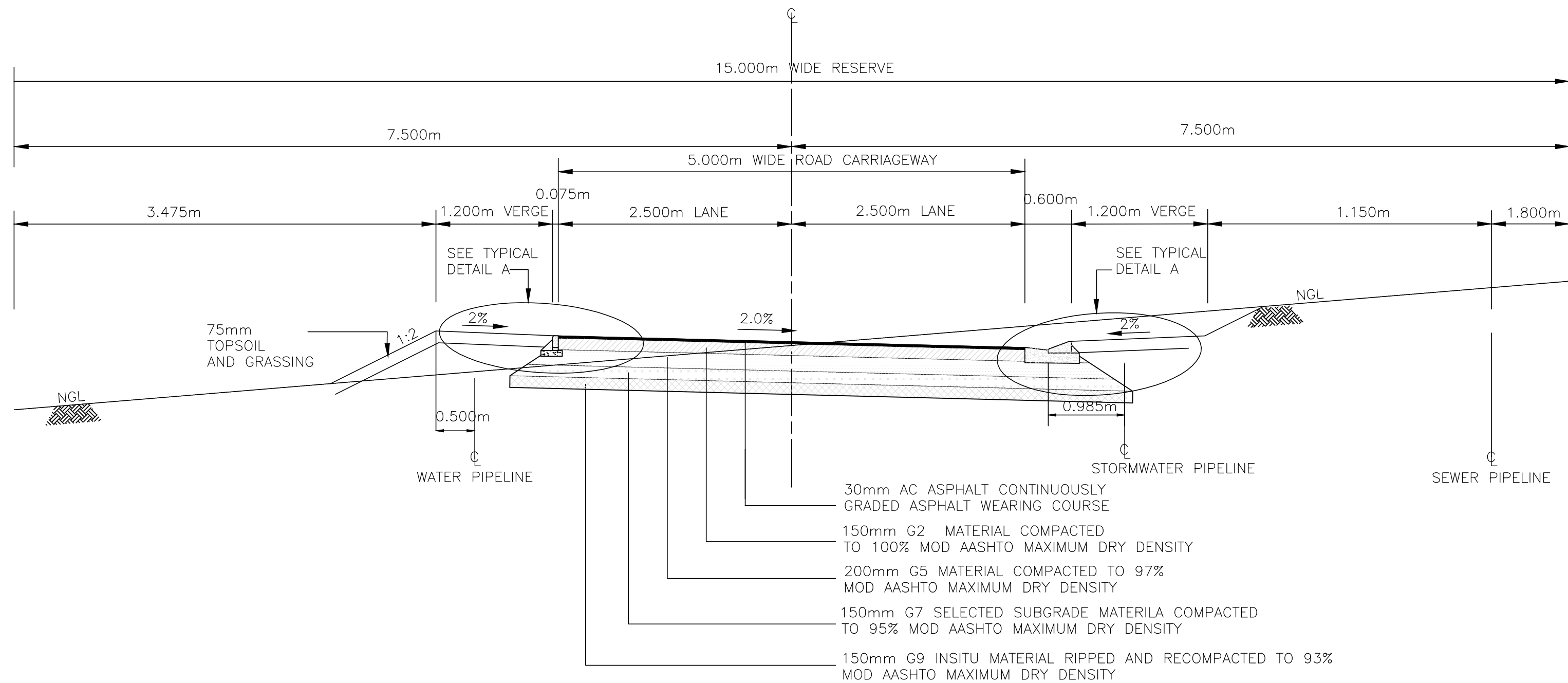
Chainage Distance (km)	
FINAL ROAD LEVELS	Left
	Centre Line
	Right
C/L Ground Levels	
Vertical Curves	
Horizontal Alignment	
Super Elevation	
Layworks	

LONGSECTION CHURCHILL SECTION 02
SCALE 1:1500

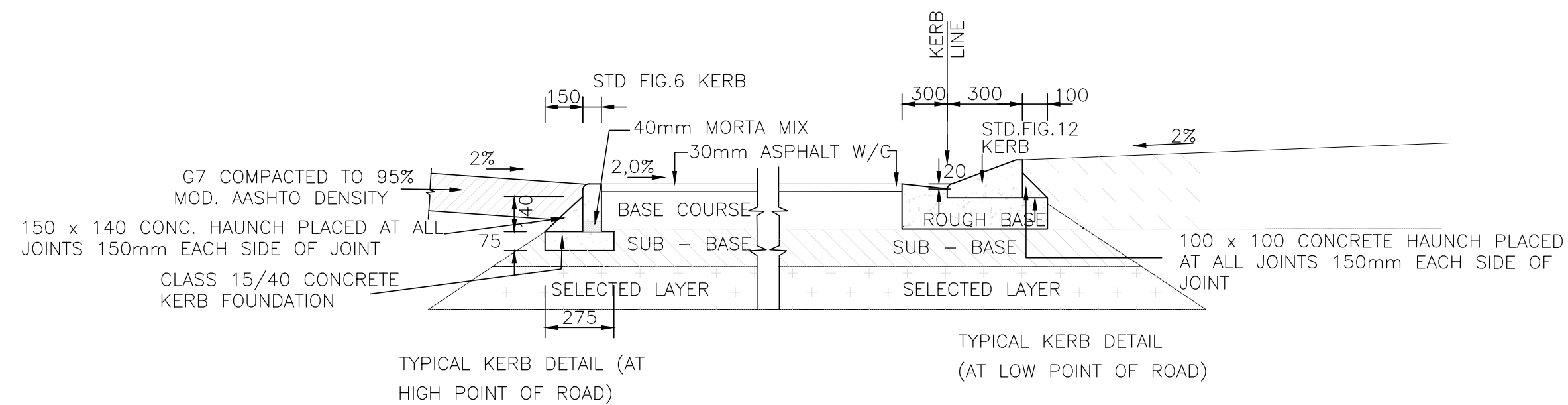
Chainage Distance (km)	
FINAL ROAD LEVELS	Left
	Centre Line
	Right
C/L Ground Levels	
Vertical Curves	
Horizontal Alignment	
Super Elevation	
Layworks	

LONGSECTION CHURCHILL SECTION 03
SCALE 1:1500

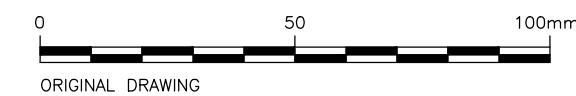
DESIGNED B. MLALAZI	CHECKED S. MGUTSHINI	DRAWN B. MLALAZI	CHECKED G. MLAMBO	PROJ. ENG. S. MGUTSHINI
TEL: (033) 346 0689 FAX: (033) 346 0692 E-mail: ziyanda@ziyandaconsulting.co.za				
APPROVED : S. MGUTSHINI (PR ENG REG. No. 20040208)				
PROJECT/DRAWING TITLE RAY NKONYENI LOCAL MUNICIPALITY REHABILITATION OF COLLEGE AND PORTION OF CHURCHILL ROADS IN WARD 2 SOUTHBROOM				
CHURCHILL ROAD LAYOUT PLAN AND LONGITUDINAL SECTION				
DRAWING STATUS ISSUED FOR TENDER		ORIGINAL SCALE AS SHOWN (ON A1)		
ALT. DWG. No.		CONTRACT No.		
SHT. No. 2 OF 2		PROJECT No. J117		
DRAWING No. J117-D01		REVISION 0		



TYPICAL CROSS SECTION
SCALE 1:50



DETAIL A
SCALE 1 : 20



DRAWING STATUS	
ISSUED FOR TENDER	
ORIGINAL SCALE	
AS SHOWN (ON A2)	
ALT. DWG. No.	CONTRACT No.
SHT. No. OF	PROJECT No.
	J117
DRAWING No.	REVISION
J117 - D02	0

No.	REFERENCE DRAWINGS

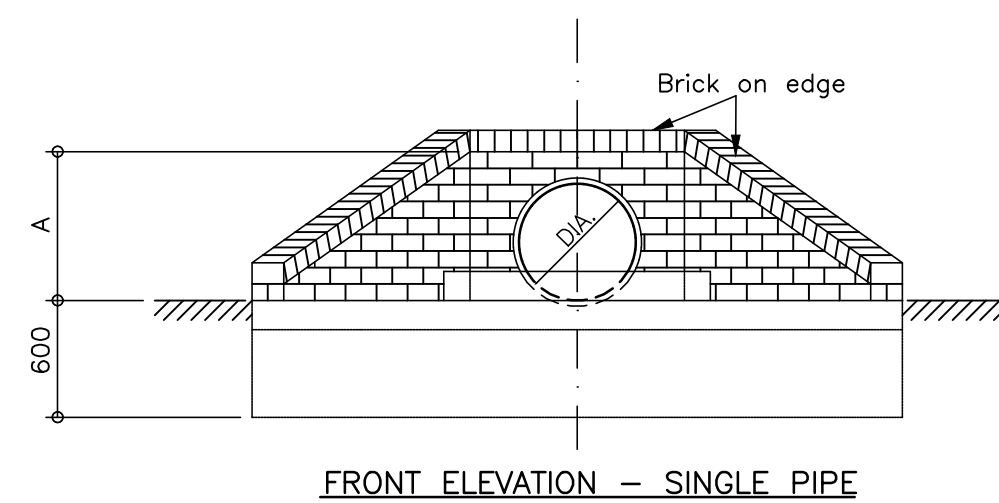
0	ISSUED FOR TENDER	06/21	GM	SM
△	REVISIONS	DATE	CHKD	APPRV
	ONLY REVISIONS MARKED THUS △ ARE VALID			

DESIGNED	B. MLALAZI
CHECKED	S. MGUTSHINI
DRAWN	B. MLALAZI
CHECKED	G. MLAMBO
PROJ. ENG.	S. MGUTSHINI

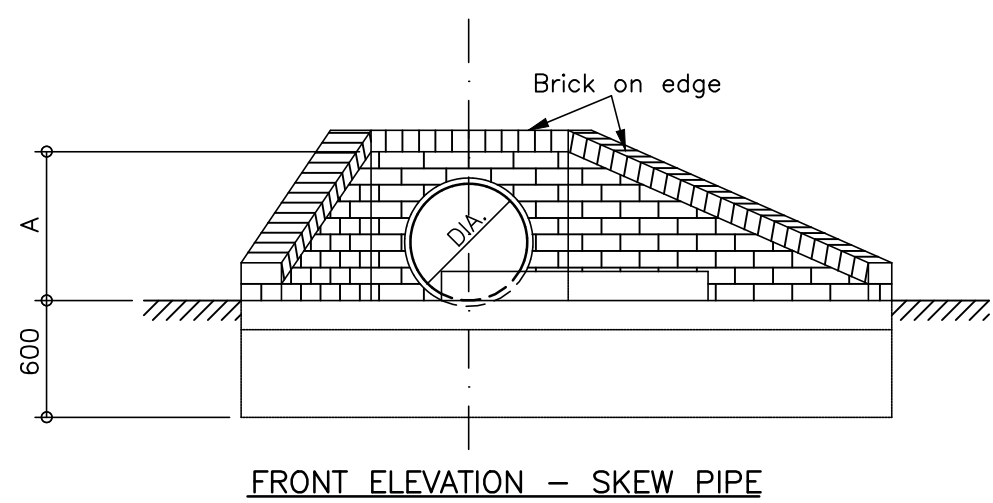
TEL: (033) 346 0689 FAX: (033) 346 0692 E-mail: ziyanda@ziyandoconsulting.co.za	PO BOX 809 HILTON PIETERMARITZBURG 3245
APPROVED :	
S. MGUTSHINI (PR. ENG. REG. No. 20040208)	

	APPROVED :

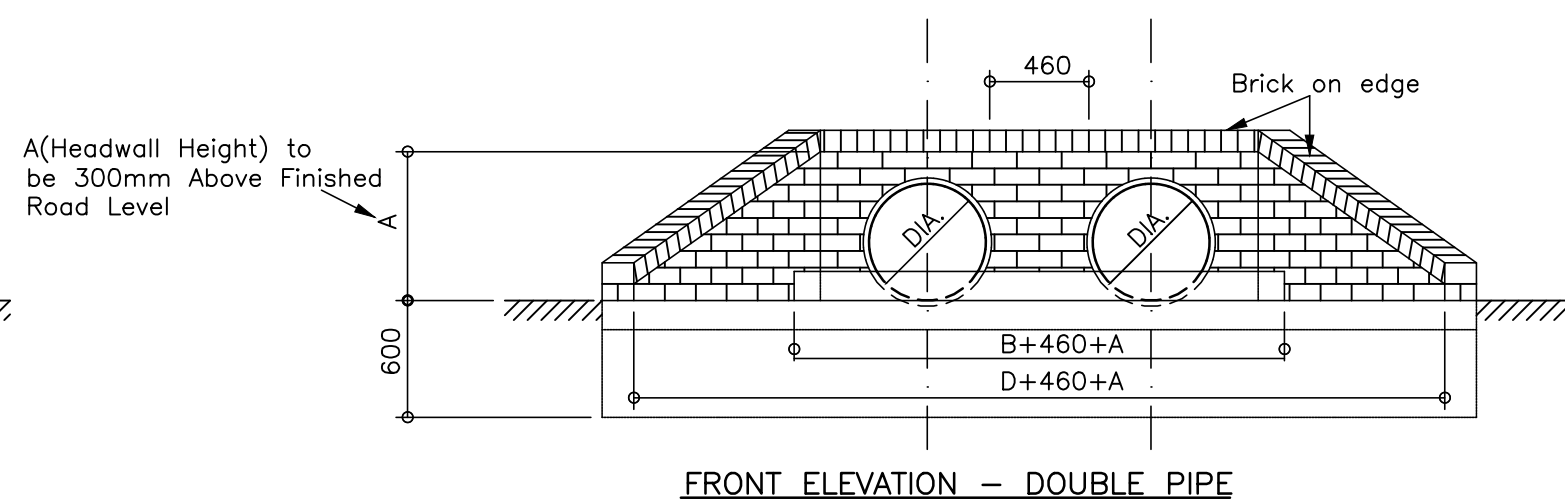
PROJECT/DRAWING TITLE	RAY NKONYENI MUNICIPALITY
	REHABILITATION OF COLLEGE AND PORTION OF CHURCHILL ROADS IN WARD 2 SOUTHBROOM
	TYPICAL ROAD CROSS SECTION



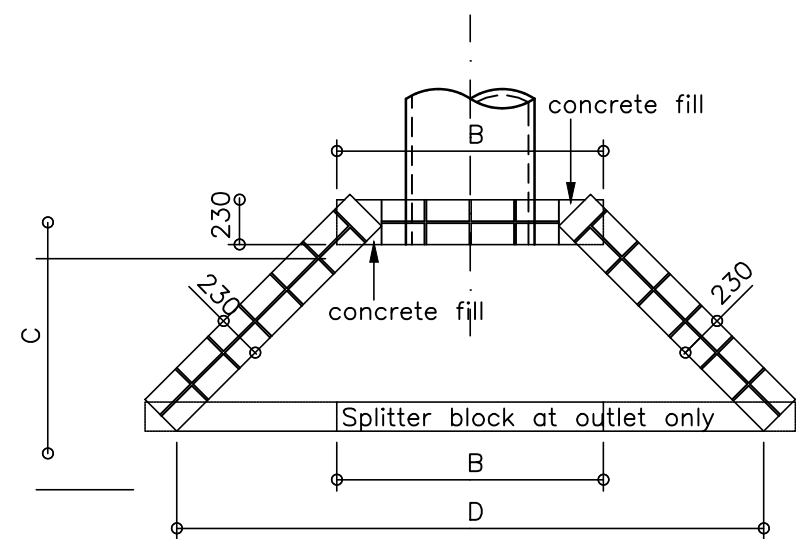
FRONT ELEVATION – SINGLE PIPE



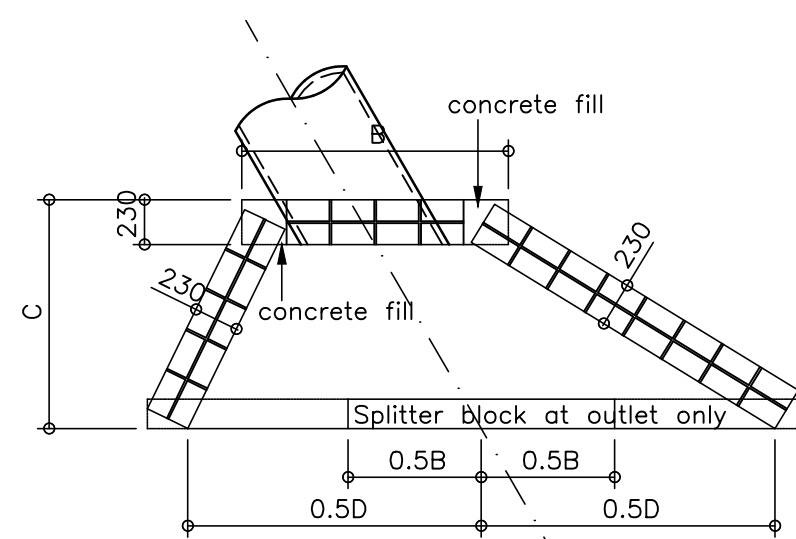
FRONT ELEVATION – SKEW PIPE



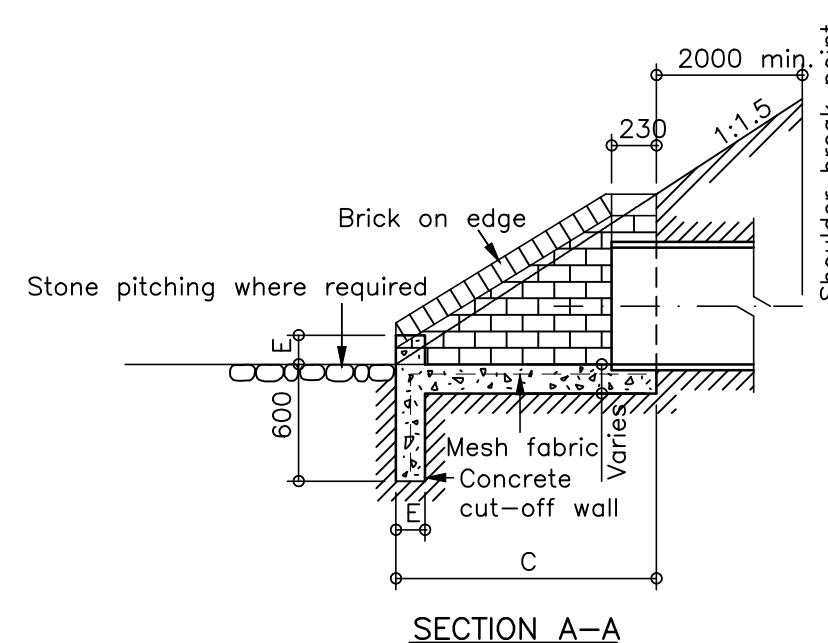
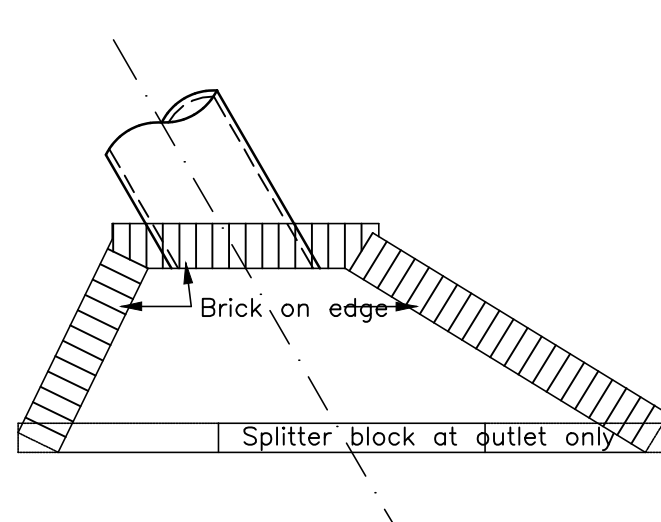
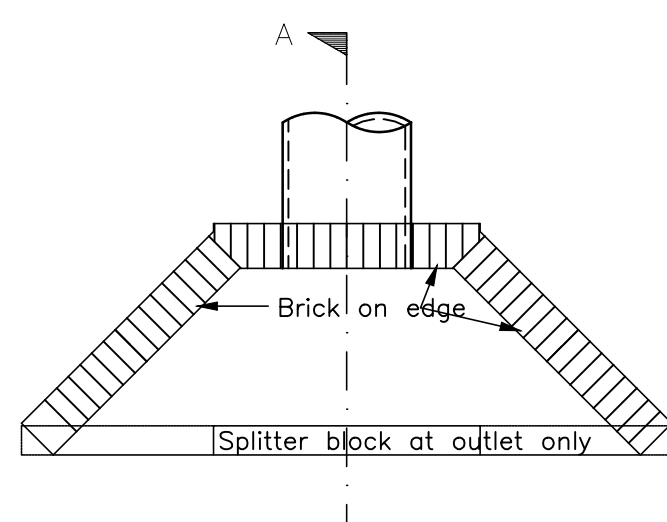
FRONT ELEVATION – DOUBLE PIPE



LAYOUT OF BRICKWORK

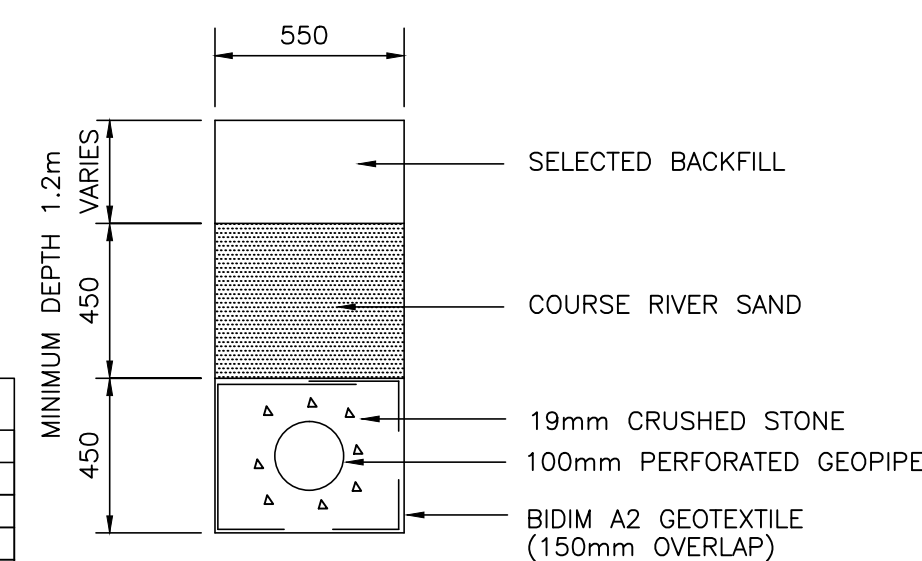


LAYOUT OF BRICKWORK



SECTION A-A

Dimensions (mm)					
Nominal Dia.	A	B	C	D	E
450	595	1 150	1 050	2 700	150
600	765	1 380	1 200	3 000	150
750	935	1 610	1 350	3 300	150
900	1 105	1 840	1 500	3 600	230
1 050	1 275	2 070	1 750	3 900	230
1 200	1 445	2 300	1 900	4 200	230



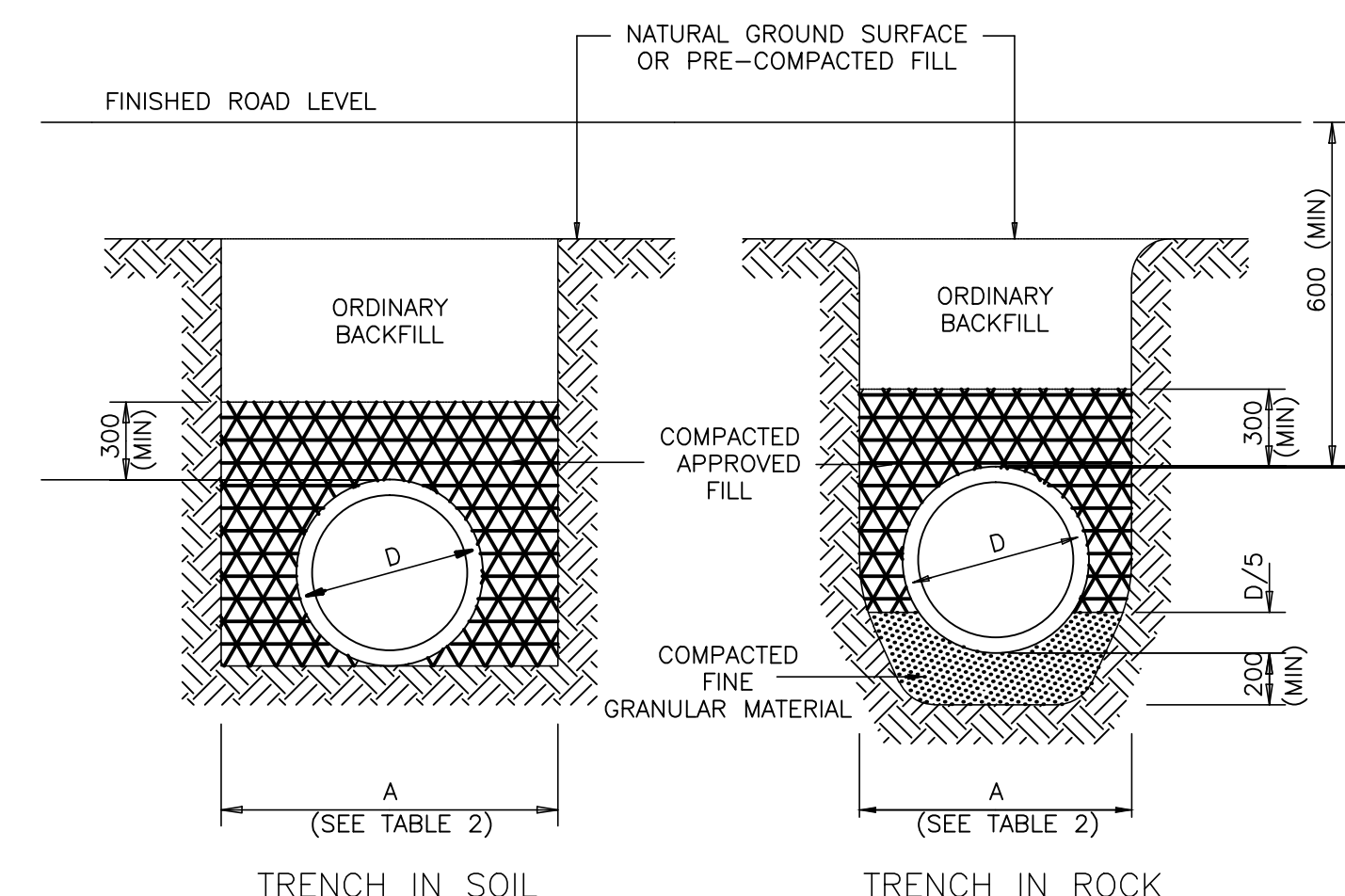
SUBSOIL DRAIN DETAIL
SCALE 1:20

NOTES :

- 1.Splitter block and pitching to be provided at all outlets where erosion is likely to occur.
- 2.Splitter block may be omitted if discharge velocity is less than 0.9 m/s.
- 3.Cut-off walls may be omitted if structure is founded on rock.
- 4.For multiple pipe culverts increase dimensions 'A' and 'D' by (n-1)(A+460)mm : Where n = number of pipes and A = nominal diameter of pipes
- 5.Pipes to be cut flush with headwall.
- 6.For skew pipe culverts the headwall shall be parallel to the centre line of the road.
- 7.If corrugated metal pipes are used 4x20mmx150mm long galvanised anchor bolts in the hollows of the corrugation are to be used.
- 8.All concrete is to be 20MPa.
- 9.Square mesh fabric (Reference S.M.F.193) is to be placed 50mm from top in all apron slabs and centrally in cut-off walls.
- 10.Brickwork is to consist of good quality burnt clay common bricks in accordance with SABS 227 Specification, or cement bricks in accordance with SABS 987 Specification, uniform in size and shape layed in stretcher bond style with the skins tied together with galvanised crimped wire wall ties.
- 11.Brickforce is to be placed every 4th course.
- 12.Jointing on all visible faces to be pointed
- 13.No in-fill shall be larger than a half standard brick size unless 15MPa concrete is used.

NOTES :

1. The drainage pipe shall be not less than 100mm in diameter, perforated or slotted, and manufactured from pitch fibre, high-density polyethylene or uPVC. No openings shall be provided in the pipe invert.
2. The geotextile shall conform with grade A2 Bidim. A stronger grade may be used at the Engineer's discretion.
3. Selected backfill and bedding shall be natural permeable material as specified in 2104 of CSRA Standard Specifications.
4. The Engineer must be satisfied that the geospacer has sufficient capacity to transmit the quantity of water discharged from the surrounding soil.
5. Crushed stone shall conform with coarse-grade stone as specified in 2104 of CSRA Standard Specifications.
6. The higher end of each subsoil drain pipe shall be sealed off with a rodding eye inlet. Additional rodding eye inlets may be required as instructed by the Engineer.
7. For new works the pipe shall be at least 800mm below top of subgrade whereas for rehabilitation of existing roads it shall be at least 900mm below road surface.
8. Rodding eye inlets to be positioned at head of pipe run only.



TRENCH IN SOIL

TRENCH IN ROCK

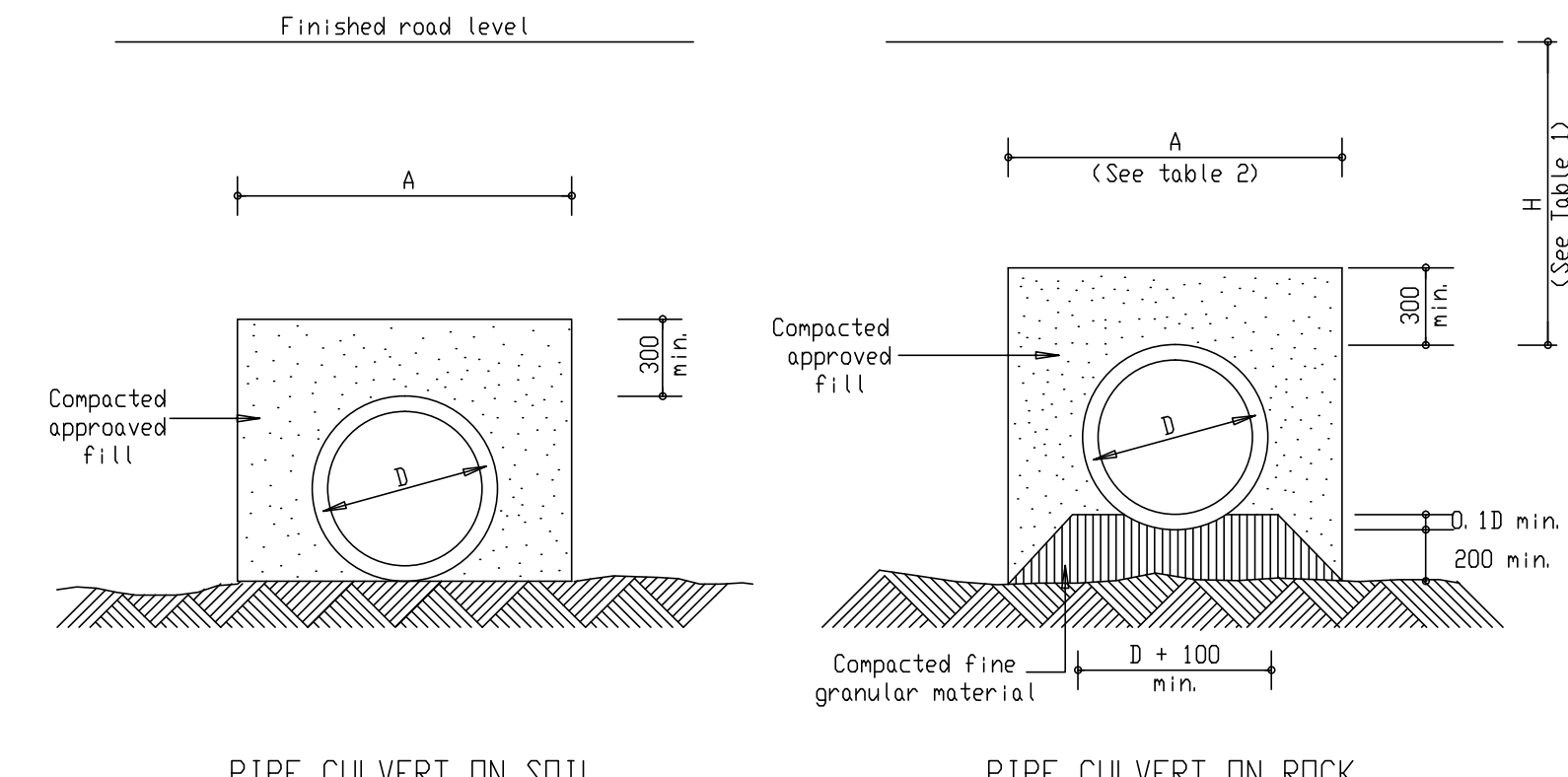
CLASS C BEDDING
(TRENCH CONDITION)

'D' Load	PERMISSIBLE MAX. HEIGHT (H) OF FILL IN METRES	
	CLASS A BEDDING	CLASS C BEDDING
25 D	3.0	1.5
50 D	6.0	3.0
75 D	9.0	4.5
100 D	12.0	6.0
125 D	15.0	7.5
150 D	18.0	9.0
200 D	24.0	12.0

TABLE 2 TRENCH WIDTH		
NOMINAL PIPE DIAMETER (D) (mm)	RECOMMENDED DIMENSION (A) (mm)	MAX. TRENCH WIDTH (mm)
450	1100	1100
600	1300	1300
750	1500	1500
900	1600	1700
1050	1800	2200
1200	2000	2400
1500	2200	2600
1800	2800	3000

NOTES:

1. When possible pipes shall be laid by first constructing the required compacted fill to allow a pipe trench to be excavated into it, thereby satisfying requirements for negative projecting pipeline. The recommended trench widths are listed in Table 2. The maximum trench widths apply to deep trenches where shoring is required.
2. All pipes shall comply with SANS 667-1986, "Standard specifications for concrete non-pressure pipes", and shall be installed in accordance with SANS 0102-1987, "Code of practice for design and installation of precast concrete pipes."
3. Joints shall either be spigot and socket with rubber ring, ogee with rubber collar or modified ogee with rubber ring seal.
4. In selecting the type and class of pipe it is generally preferable to use the stronger class of pipe with a class C bedding rather than the lower strength pipe with a class A bedding.
5. For fill heights exceeding 10m or pipeline length exceeding 40m a minimum nominal pipe diameter of 900mm is recommended.
6. Construction joints in concrete cradle to coincide with pipe joints. All insitu concrete shall be 15MPa
7. The minimum cover over any pipe culvert shall be 600mm. In exceptional cases pipes may be encased in concrete and the cover reduced to 200mm.
8. All pipe lifting holes must be plugged to the satisfaction of the Engineer.
9. Pipes to be laid to a minimum grade of 2%.



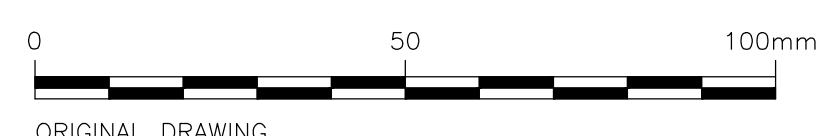
PIPE CULVERT ON SOIL

PIPE CULVERT ON ROCK

CLASS C BEDDING
(EMBANKMENT CONDITION)

'D' Load	Permissible Maximum Height (H) of Fill in metres	
	Class A Bedding	Class C Bedding
25 D	3.0	1.5
50 D	6.0	3.0
75 D	9.0	4.5
100 D	12.0	6.0
125 D	15.0	7.5
150 D	18.0	9.0
200 D	24.0	12.0

TABLE 1



No.	REFERENCE DRAWINGS

0	ISSUED FOR TENDER	06/21	GM	SM
△	ONLY REVISIONS MARKED THUS △ ARE VALID	DATE	CHKD	APPRV

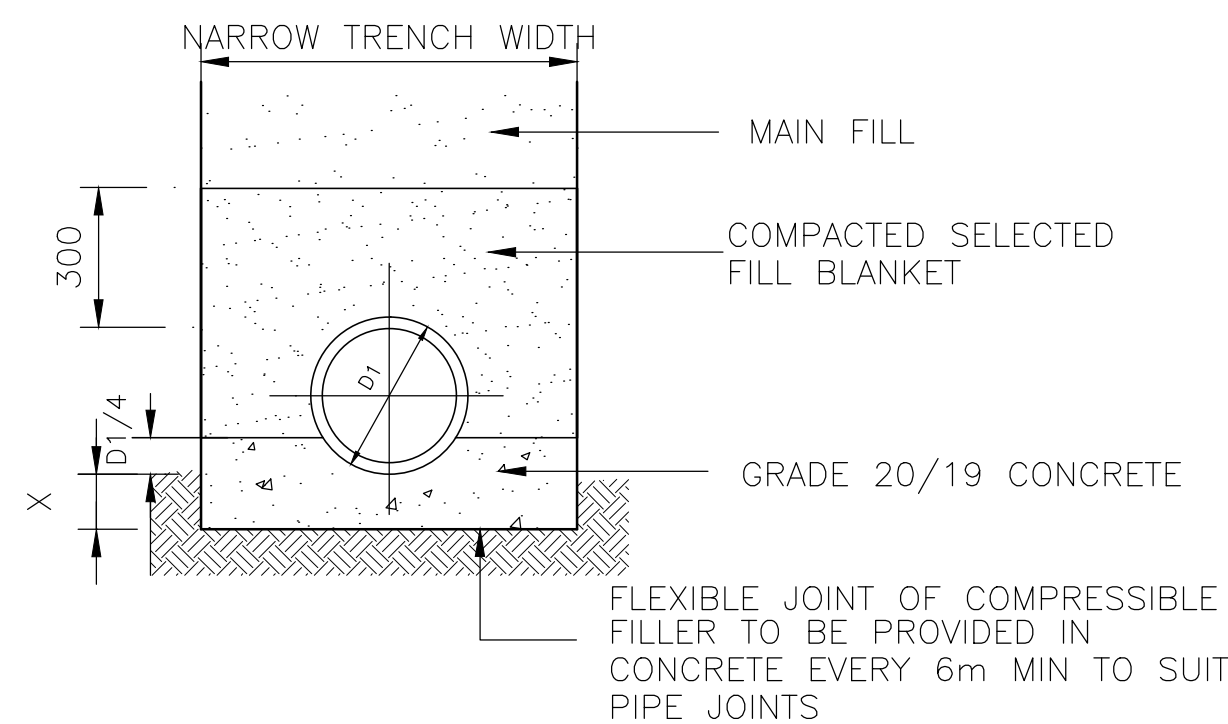
DESIGNED	B. MLALAZI
CHECKED	G. MLAMBO
DRAWN	B. MLALAZI
CHECKED	G. MLAMBO
PROJ. ENG.	S. MGUTSHINI


ZIYANDA
 consulting
 PO BOX 809
 HILTON
 PIETERMARITZBURG
 3245
 TEL: (033) 346 0689
 FAX: (033) 346 0692
 E-mail: ziyanda@ziyandaconsulting.co.za
 APPROVED :
 S. MGUTSHINI
 (PR ENG REG. No. 20040208)

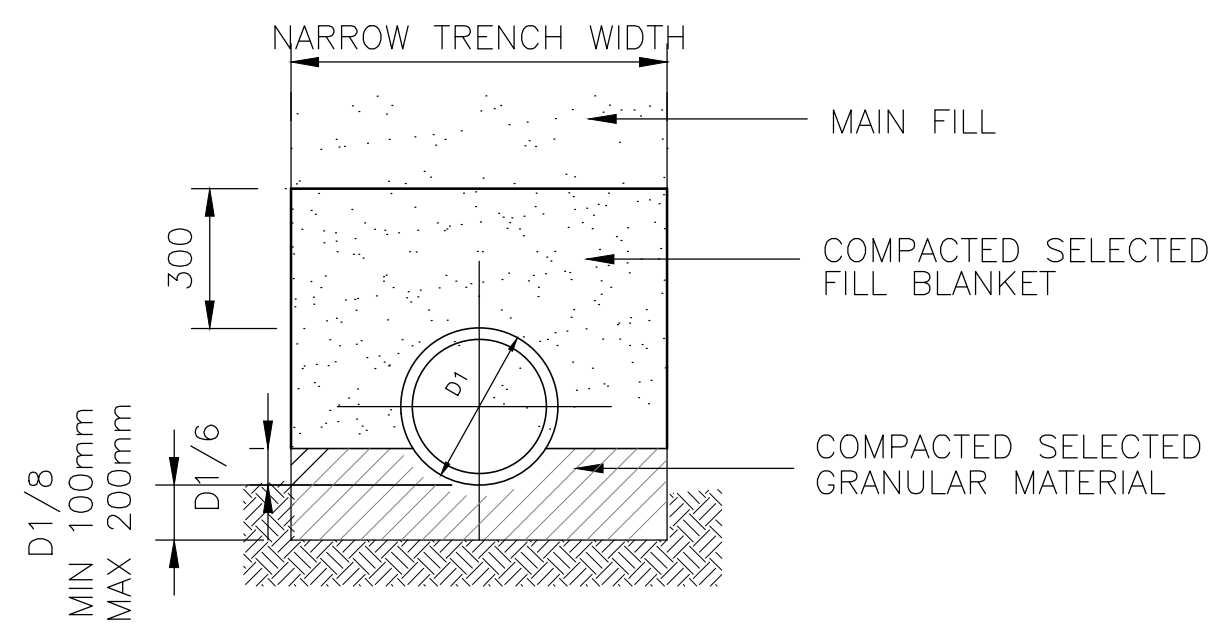

RAY NKONYENI
 LOCAL MUNICIPALITY
 APPROVED :

PROJECT/DRAWING TITLE
 RAY NKONYENI LOCAL MUNICIPALITY
 REHABILITATION OF COLLEGE AND PORTION
 OF CHURCHILL ROADS IN WARD 2
 SOUTHBROOM
 STANDARD DETAILS

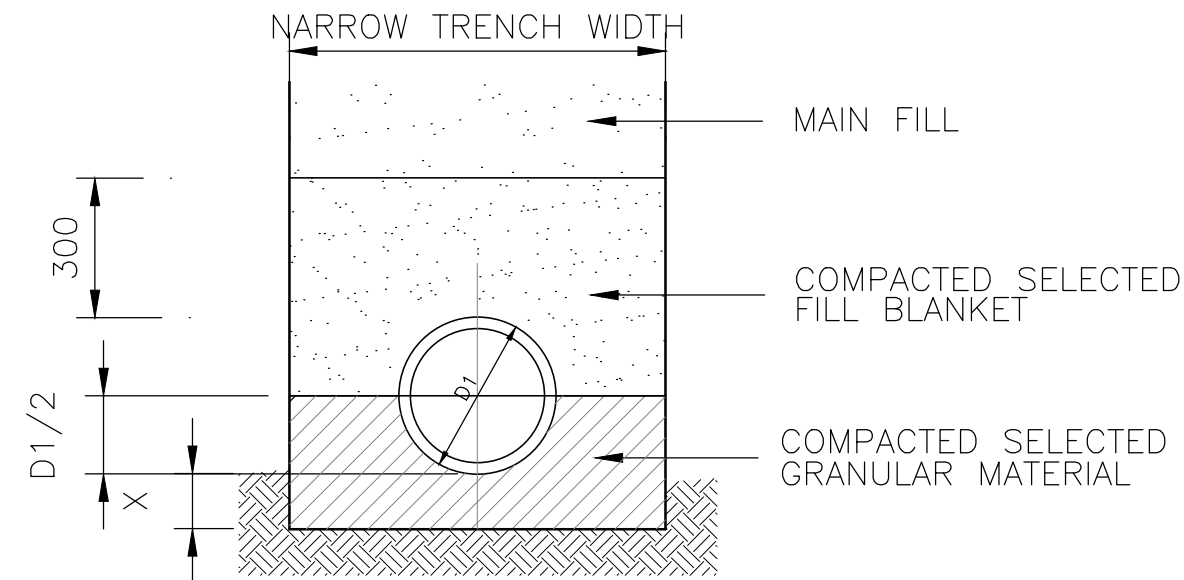
DRAWING STATUS ISSUED FOR TENDER	
ORIGINAL SCALE NOT TO SCALE	
ALT. DWG. No.	CONTRACT No.
SHT. No.1 OF 2	PROJECT No. J117
DRAWING No. J117-D03	REVISION 0



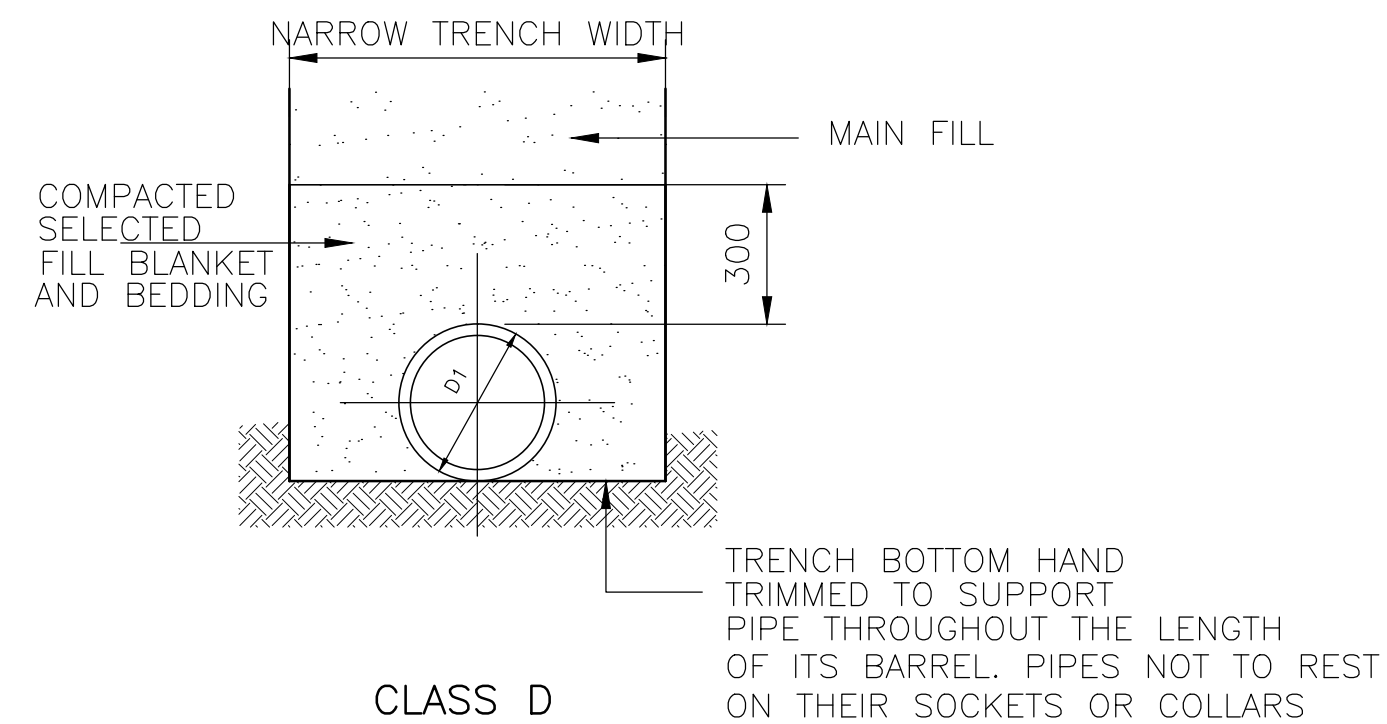
CLASS A



CLASS C



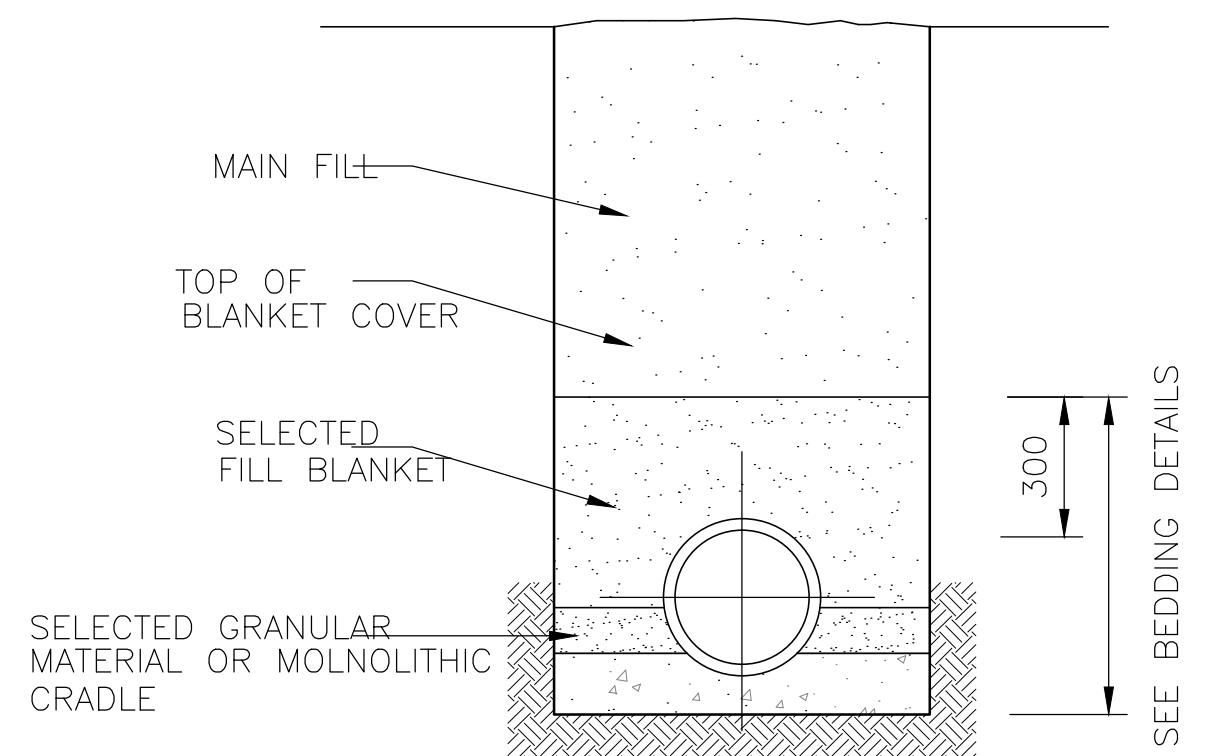
CLASS B



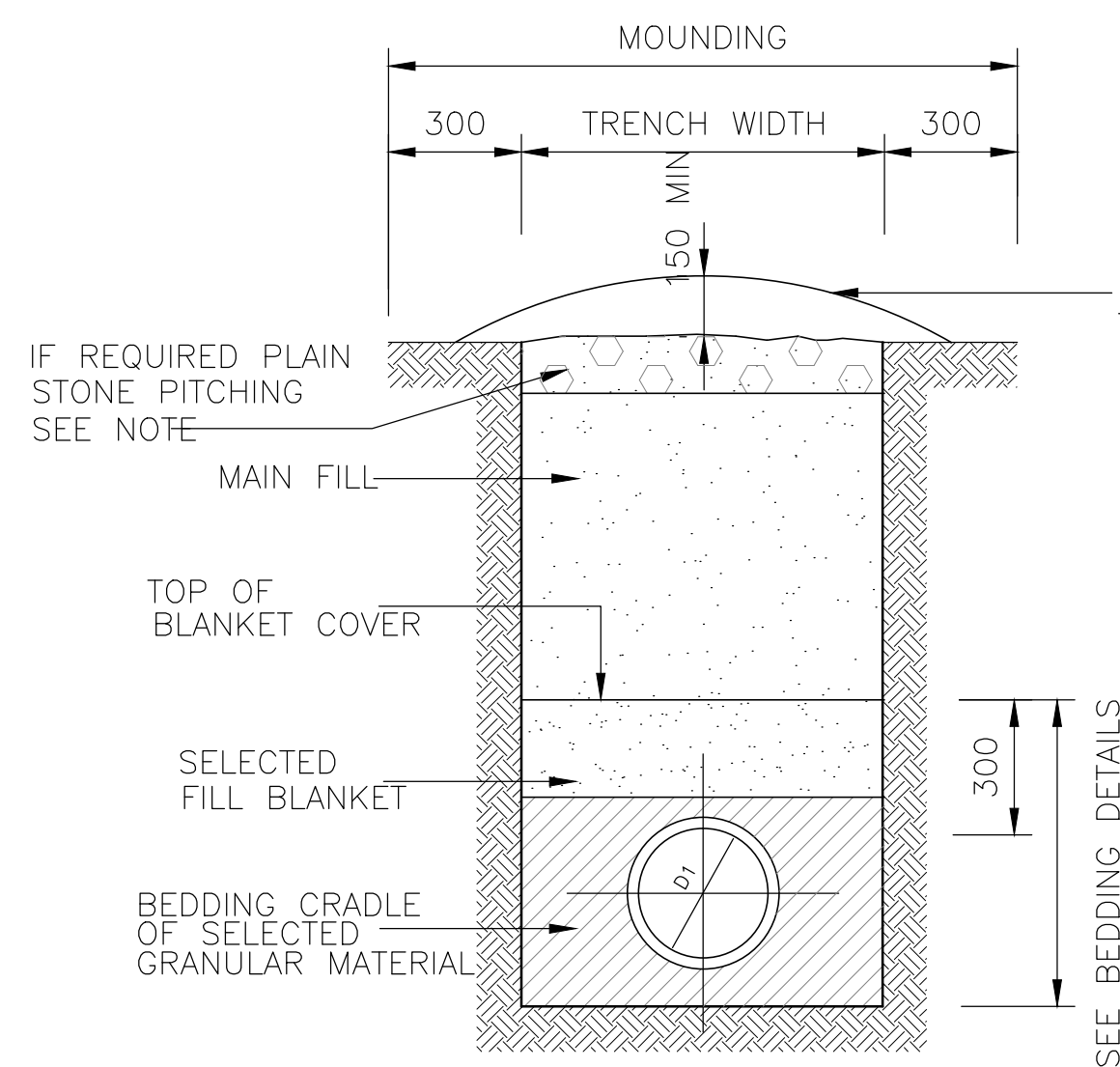
CLASS D

BEDDING FOR RIGID PIPES

RIGID PIPE	FLEXIBLE PIPE
CASTIRON	STEEL PIPE
CONCRETE	uPVC
FIBRE CEMENT PIPE	HDPE
	mPVC

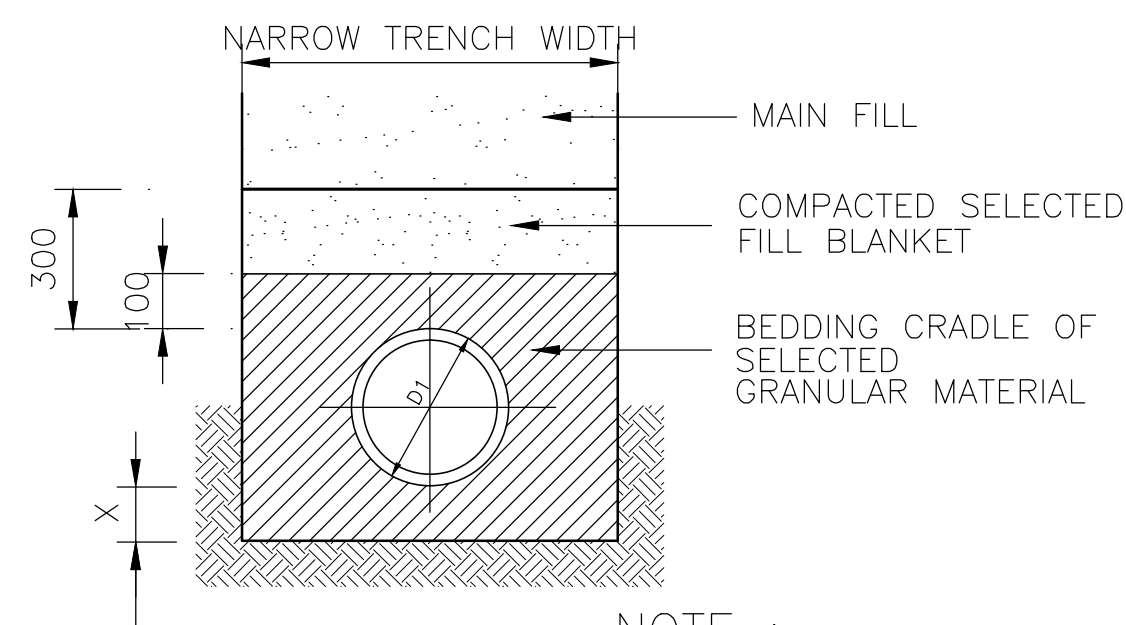


BACK FILLING OVER RIGID PIPELINE



BACKFILLING OVER FLEXIBLE PIPELINE

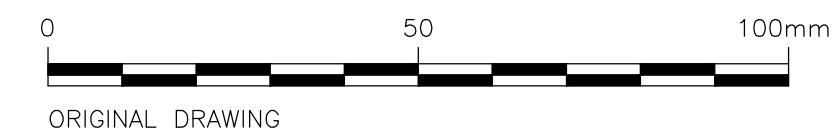
NOTE :-
TO BE USED ONLY ON WRITTEN APPROVAL FROM THE ENGINEER IN CASES OF SHALLOW PIPES OR WHERE DEPTH FROM EXISTING GROUND LEVEL TO TOP OF PIPE IS 600 OR LESS. INSITU MEASURES TO BE TAKEN TO ALLOW FOR CROSS DRAINAGE AS REQUIRED AT EXISTING GROUND LEVEL, IN THAT CASE TOP LAYER OF THE TRENCH TO BE REPLACED TO 200mm DEPTH WITH STONE PLAIN PITCHING TO SABS 1200 DK.



NOTE :-
WHERE PIPE IS LAID WITHIN VERY CLAYEY SAND WITH HEAVING POTENTIAL, ON WRITTEN INSTRUCTION FROM THE ENGINEER THE MINIMUM VALUE OF X=100 FROM THE PIPE INVERT TO BOTTOM OF TRENCH WILL BE INCREASED TO A TOTAL VALUE OF 200mm MAXIMUM OR AS DIRECTED ON SITE BY THE ENGINEER.

BEDDING FOR FLEXIBLE PIPES

FOR GROUND BEARING
PRESSURE OF 150kPa



No.	REFERENCE DRAWINGS

0	ISSUED FOR TENDER	06/21	GM	SM
REVISIONS	DATE	CHKD	APPRV	
ONLY REVISIONS MARKED THUS Δ ARE VALID				

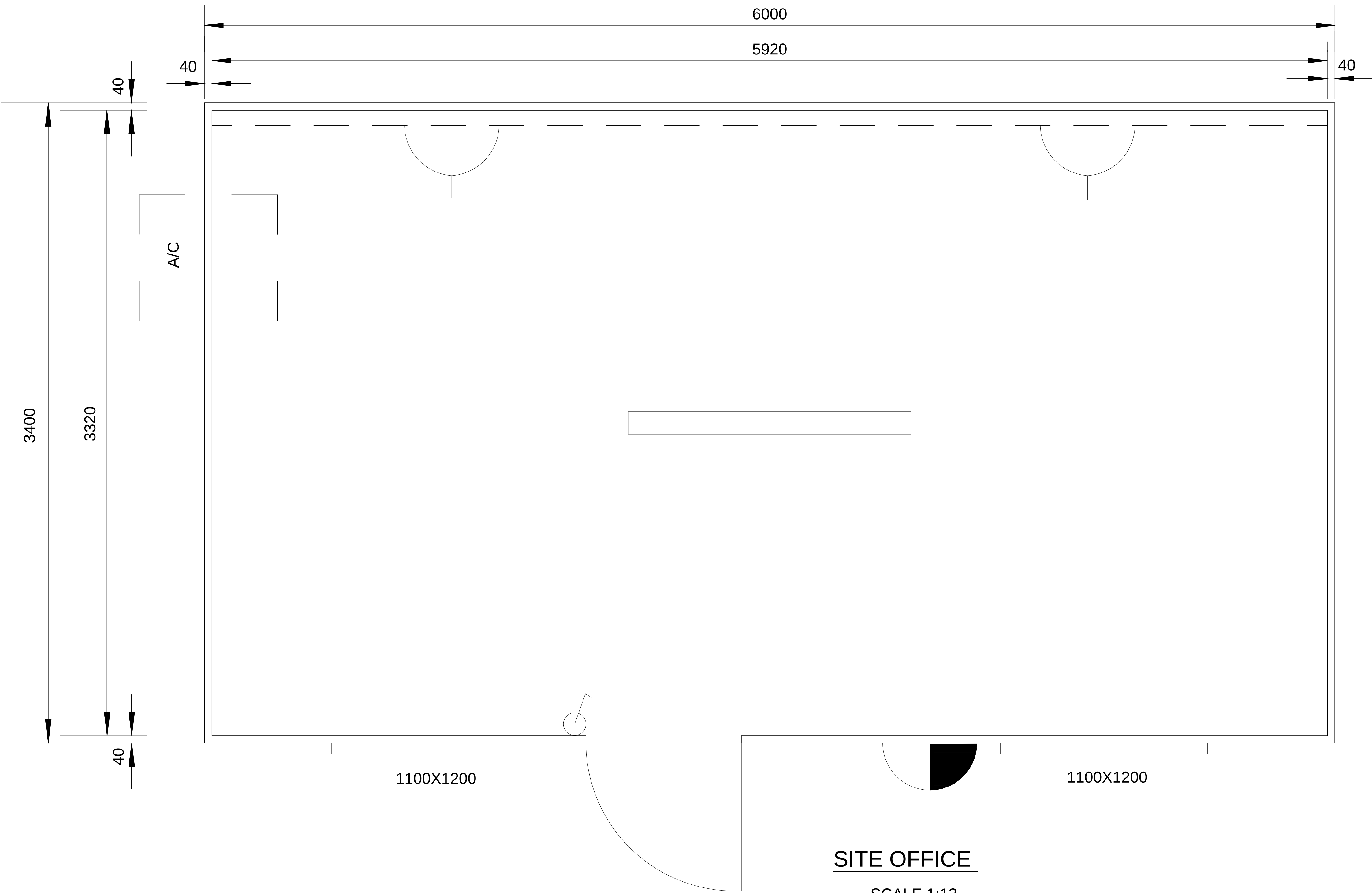
DESIGNED	B. MLALAZI
CHECKED	G. MLAMBO
DRAWN	B. MLALAZI
CHECKED	G. MLAMBO
PROJ. ENG.	S. MGUTSHINI


ZIYANDA consulting
 PO BOX 809
 HILTON PIETERMARITZBURG
 3245
 TEL: (033) 346 0689
 FAX: (033) 346 0692
 E-mail: ziyanda@ziyandaconsulting.co.za
 APPROVED :
 S. MGUTSHINI
 (PR ENG REG. No. 20040208)


 APPROVED : _____

PROJECT/DRAWING TITLE
 RAY NKONYENI LOCAL MUNICIPALITY
 REHABILITATION OF COLLEGE AND PORTION
 OF CHURCHILL ROADS IN WARD 2
 SOUTHBROOM
 BEDDING STANDARD DETAILS

DRAWING STATUS	
ISSUED FOR TENDER	
ORIGINAL SCALE	
NOT TO SCALE	
ALT. DWG. No.	CONTRACT No.
SHT. No. 2 OF 2	PROJECT No. J117
DRAWING No. J117-D03	REVISION Δ 0

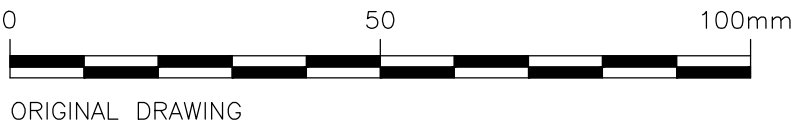


ELECTRICAL LEGEND

- FLUORESCENT LIGHTING
- SECURITY LIGHTING
- PLUG POINT
- SWITCH POINT
- AIR CONDITIONER

NOTES

- DOORS
INTERIOR WALL PLY C/DECK
EXTERIOR WALL PLY C/DECK
- ELECTRICITY
D.B220V
NORMAL TRUNKING
- OTHER
IND. VINYL
- OFFICE FURNITURE
AS PER THE BID SPECIFICATION



DRAWING STATUS	
ISSUED FOR TENDER	
ORIGINAL SCALE	
AS SHOWN (ON A1)	
ALT. DWG. No.	CONTRACT No.
SHT. No. OF	PROJECT No.
J117	
DRAWING No.	REVISION
J117-D04	0

No.	REFERENCE DRAWINGS
-----	--------------------

0	ISSUED FOR TENDER	06/21	GM	SM
△	REVISIONS	DATE	CHKD	APPRV
ONLY REVISIONS MARKED THUS △ ARE VALID				

DESIGNED	B. MLALAZI
CHECKED	S. MGUTSHINI
DRAWN	B. MLALAZI
CHECKED	G. MLAMBO
PROJ. ENG.	S. MGUTSHINI



TEL: (033) 346 0689
FAX: (033) 346 0692
E-mail: ziyanda@ziyandaconsulting.co.za

APPROVED :
S. MGUTSHINI
(PR ENG REG. No. 20040208)

PO BOX 809
HILTON
PIETERMARITZBURG
3245



RAY NKONYENI
MUNICIPALITY

APPROVED : _____

PROJECT/DRAWING TITLE

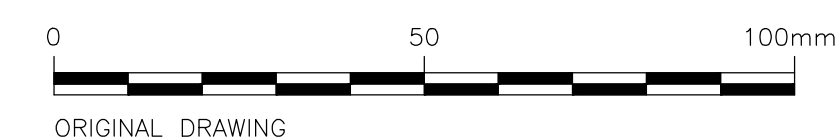
RAY NKONYENI LOCAL MUNICIPALITY

REHABILITATION OF COLLEGE AND PORTION
OF CHURCHILL ROADS IN WARD 2
SOUTHBROOM

SITE OFFICE PLAN



- 1) CHROMADEK METAL SHEETING (RUST RESISTANT METAL)
- 2) SPRAY PAINTED TO CUSTOMER'S SPECIFICATIONS
WITH AUTOMOTIVE QUALITY DUCO PAINT WORKING
- 3) HIGH PERFORMANCE 5 TO 7 YEAR OUTDOOR QUALITY VINYL LOGOS
UV RESISTANT FULL COLOUR THERMAL PRINT ONTO A
HIGH PERFORMANCE OUTDOOR GRADE VINYL SUBSTRATE OR
HIGH PERFORMANCE 5 TO 7 YEAR OUTDOOR QUALITY
- 4) VINYL APPLIED DIRECTLY TO THE PREPARED
CHROMADEK (IF LOGO CONSISTS OF FLAT COLOURS)
- 5) LOCATION
THE BOARD MUST BE ERECTED AT THE ENTRANCE TO THE CONSTRUCTION SITE
- 6) ERECTION DURATION
THE BOARD MUST REMAIN UNTIL THE END OF THE DEFECTS LIABILITY PERIOD



DRAWING STATUS ISSUED FOR TENDER	
ORIGINAL SCALE AS SHOWN (ON A1)	
ALT. DWG. No.	CONTRACT No.
SHT. No. OF	PROJECT No. J117
DRAWING No. J117-D05 REVISION 0	