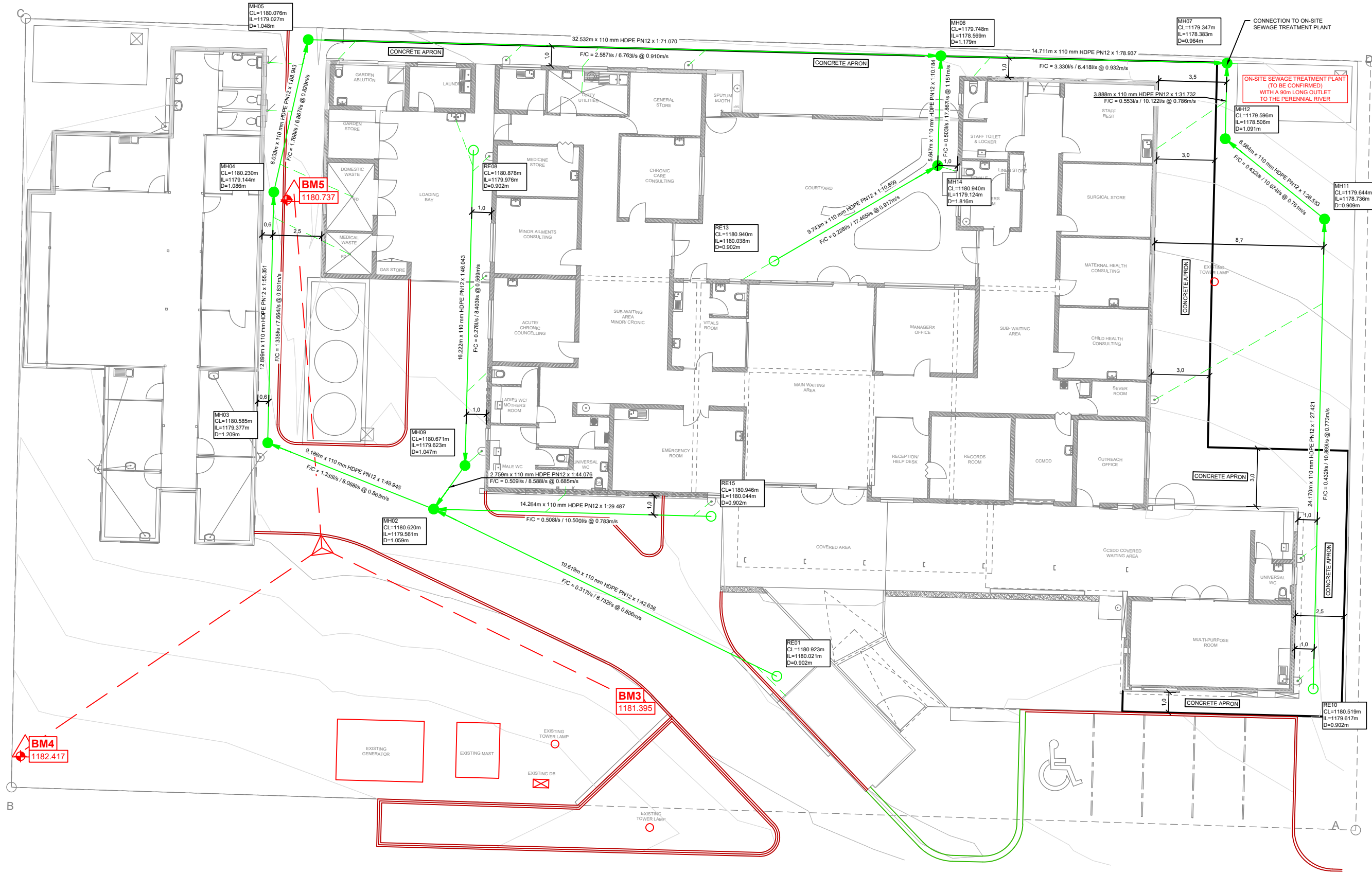
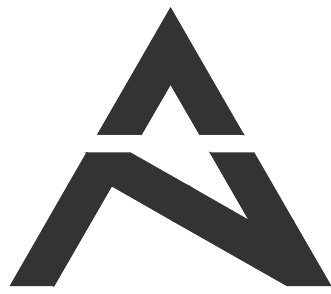




Sewer Schedule														Name	Node Type	Node Size	Y-Coord	X-Coord	Cover	Inlet	Depth	Slope	Type	Size	Level In	Level Out
RE01	Rodding Eye	Ø 110	-40394.09	3007268.12	1180.92	1180.02	0.90		1:42.64	HDPE PE100 PN12	110 mm	1180.02	1179.56													
MH02	HDPE Manhole	Ø 1000	-40376.46	3007259.52	1180.62	1179.56	1.06		1:49.94	HDPE PE100 PN12	110 mm	1179.56	1179.38													
MH03	HDPE Manhole	Ø 1000	-40367.93	3007256.11	1180.59	1179.38	1.21		1:55.35	HDPE PE100 PN12	110 mm	1179.38	1179.14													
MH04	HDPE Manhole	Ø 1000	-40368.24	3007243.21	1180.23	1179.14	1.09		1:68.94	HDPE PE100 PN12	110 mm	1179.14	1179.03													
MH05	HDPE Manhole	Ø 1000	-40370.01	3007235.38	1180.08	1179.03	1.05		1:71.07	HDPE PE100 PN12	110 mm	1179.03	1178.57													
MH06	HDPE Manhole	Ø 1000	-40402.53	3007236.21	1179.75	1178.57	1.18		1:78.94	HDPE PE100 PN12	110 mm	1178.57	1178.38													
MH07	HDPE Manhole	Ø 1000	-40417.24	3007236.58	1179.35	1178.38	0.96																			
RE08	Rodding Eye	Ø 110	-40378.50	3007241.06	1180.88	1179.98	0.90		1:46.04	HDPE PE100 PN12	110 mm	1179.98	1179.62													
MH09	HDPE Manhole	Ø 1000	-40378.07	3007257.28	1180.67	1179.62	1.05		1:44.08	HDPE PE100 PN12	110 mm	1179.62	1179.56													
MH02	HDPE Manhole	Ø 1000	-40376.46	3007259.52	1180.62	1179.56	1.06																			
RE15	Rodding Eye	Ø 110	-40390.72	3007259.89	1180.95	1180.04	0.90		1:29.49	HDPE PE100 PN12	110 mm	1180.04	1179.56													
MH02	HDPE Manhole	Ø 1000	-40376.46	3007259.52	1180.62	1179.56	1.06																			
RE13	Rodding Eye	Ø 110	-40393.95	3007246.76	1180.94	1180.04	0.90		1:10.66	HDPE PE100 PN12	110 mm	1180.04	1179.12													
MH14	HDPE Manhole	Ø 1000	-40402.36	3007241.85	1180.94	1179.12	1.82		1:10.18	HDPE PE100 PN12	110 mm	1179.12	1178.57													
MH06	HDPE Manhole	Ø 1000	-40402.53	3007236.21	1179.75	1178.57	1.18																			
RE10	Rodding Eye	Ø 110	-40421.67	3007268.77	1180.52	1179.62	0.90		1:27.42	HDPE PE100 PN12	110 mm	1179.62	1178.74													
MH11	HDPE Manhole	Ø 1000	-40422.25	3007244.60	1179.64	1178.74	0.91		1:28.53	HDPE PE100 PN12	110 mm	1178.74	1178.51													
MH12	HDPE Manhole	Ø 1000	-40417.15	3007240.47	1179.60	1178.51	1.09		1:31.73	HDPE PE100 PN12	110 mm	1178.51	1178.38													
MH07	HDPE Manhole	Ø 1000	-40417.24	3007236.58	1179.35	1178.38	0.96																			

BENCHMARKS (WGD84 L023)			
BENCHMARK	Y	X	Z
BM3	-40 386.862	3 007 269.762	1181.396
BM4	-40 355.216	3 007 272.227	1182.417
BM5	-40 368.913	3 007 243.612	1180.737

- NOTES:
- DUE TO THE PRESENCE OF DOLOMITIC MATERIAL IN THE AREA, THIS SITE HAS A IHC2/1 CLASSIFICATION WITH D3 PRECAUTIONARY MEASURES PRESCRIBED.
- ALL PIPES TO BE HDPE PE100.
 - JOINTS TO BE BUTT-WELDED (SANS 0268 - PART 1) IN GENERAL, OR ELECTRO FUSION WELDED (SANS 0268 - PART 2) WHERE BUTT-WELDING IS NOT POSSIBLE.
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH THE RELEVANT SANS 0268, SANS 0269, SANS 1269, SANS 0270, SANS 1655 AND SANS 1671 CODES.
 - NO COMPRESSION FITTINGS ARE ALLOWED BELOW GROUND, EXCEPT IF THEY ARE INSTALLED IN WATERTIGHT MANHOLES.
 - ALL MANHOLES TO BE WATERTIGHT PREFABRICATED HDPE MANHOLES.
 - ALL CONNECTIONS TO HDPE MANHOLES SHALL BE FLEXIBLE AND WATERTIGHT.
 - ALL SEWER PIPES AND FITTINGS MUST BE WATERTIGHT.
 - ALL LAID DRAINAGE AND SANITARY SEWER PIPES SHOULD BE TESTED FOR LEAKAGE USING THE STANDARD SANS WATER TEST UN INSTALLATION.
 - WELDED HDPE PIPE SYSTEMS SHOULD BE PRESSURE TESTED TO THE RELEVANT PIPE PRESSURE CLASS AND THE MANUFACTURER'S SPECIFICATIONS.
 - ALL SITE SERVICES TO BE TESTED TO HAVE ZERO PERCENT LEAKAGE.
 - THE NUMBER OF JOINTS MUST BE KEPT TO A MINIMUM.

2 0 4 8m
SCALE 1:200

Datum 1177.00			
Chainage	0.000	10.000	18.992
Manhole Name	RE01	MH09	MH02
Ground Level	1180.56	1180.52	1180.52
Cover Level	1180.52	1180.51	1180.50
Inlet Level	1179.98	1179.83	1179.81
Depth	0.542	1.074	1.059
Link Type / Link Size	HDPE PE100 PN12 110 mm		HDPE PN12 110 mm
Length / Slope	16.226 m 1:44		2.760 m 1:44
Flow	0.278 l/s		0.509 l/s
Capacity	8.403 l/s		8.588 l/s
Velocity	0.569 m/s		0.685 m/s
Full-Bore Velocity	1.201 m/s		1.227 m/s

Datum 1176.00			
Chainage	0.000	10.000	20.000
Manhole Name	RE10	MH11	MH12
Ground Level	1180.52	1179.84	1179.84
Cover Level	1180.52	1179.84	1179.84
Inlet Level	1179.87	1179.85	1179.84
Depth	0.652	1.226	1.072
Link Type / Link Size	HDPE PE100 PN12 110 mm		HDPE PE100 PN12 110 mm
Length / Slope	24.186 m 1:27		8.668 m 1:32
Flow	0.432 l/s		0.553 l/s
Capacity	10.889 l/s		10.874 l/s
Velocity	0.773 m/s		0.781 m/s
Full-Bore Velocity	1.556 m/s		1.446 m/s

Datum 1176.00			
Chainage	0.000	9.543	15.395
Manhole Name	RE13	MH14	MH06
Ground Level	1180.54	1180.94	1179.75
Cover Level	1180.54	1180.94	1179.75
Inlet Level	1180.58	1179.82	1179.68
Depth	0.592	1.815	1.172
Link Type / Link Size	HDPE PE100 PN12 110 mm		HDPE PE100 PN12 110 mm
Length / Slope	9.786 m 1:11		5.624 m 1:29
Flow	0.228 l/s		0.503 l/s
Capacity	17.465 l/s		17.867 l/s
Velocity	0.917 m/s		1.151 m/s
Full-Bore Velocity	2.495 m/s		2.553 m/s

Datum 1177.00			
Chainage	0.000	10.000	14.294
Manhole Name	RE15	MH02	
Ground Level	1180.54	1180.52	1180.52
Cover Level	1180.54	1180.52	1180.52
Inlet Level	1180.44	1179.95	1179.81
Depth	0.632	1.035	1.059
Link Type / Link Size	HDPE PE100 PN12 110 mm		
Length / Slope	14.272 m 1:29		
Flow	0.508 l/s		
Capacity	10.500 l/s		
Velocity	0.783 m/s		
Full-Bore Velocity	1.500 m/s		

GENERAL NOTES

DRAWING LEGEND

- NEW SEWER PIPE
- PROPOSED SEWER CONNECTION
- NEW RODDING EYE
- NEW HDPE MANHOLE
- F/C PEAK FLOW / CAPACITY

APPROVED BY COUNCIL / CLIENT

CITY ENGINEER / CLIENT REG. NO. DATE

ISSUE DATE: 17/03/2026 DRAWING SIZE: A1 REVISION: 0

PRELIMINARY INFO ONLY FOR TENDER

X FOR CONSTRUCTION AS-BUILT

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DATE	INITIAL	NO.	DESCRIPTION OF REVISION

CLIENT

health Department: Health Northern Cape Province

PROJECT

UPGRADING AND REFURBISHMENT OF LOGOBATE PHC

DRAWING TITLE

SEWER LONGITUDINAL SECTION SHEET 2

APPROVED BY BVI

JJ HAEFELE 20190844 17/03/2026

ENGINEER/TECHNOLOGIST REG. NO. DATE

SCALE 1:50 VER 1:200 HOR DRAWN D COETZEE

DESIGNED D COETZEE CHECKED J HAEFELE

PLAN NUMBER REVISION NO.

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