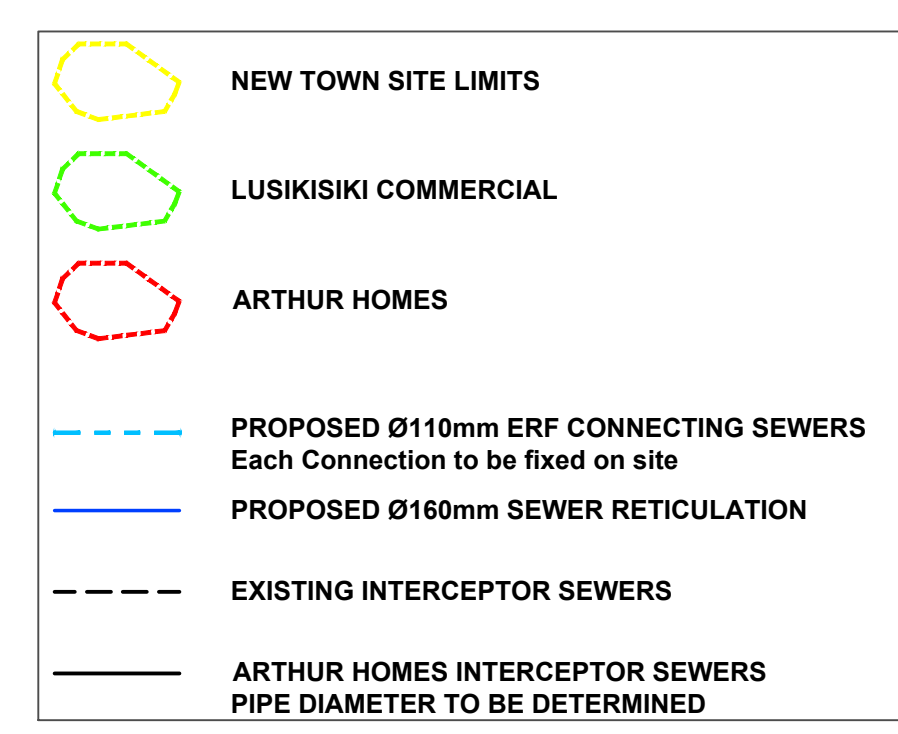


- GENERAL NOTES:**
- All Work To Be Done According To The Project Specifications.
 - All Levels And Dimensions To Be Checked On The Site Prior To Commencement Of Any Construction.
 - All Sighting Out Coordinates Are On The WGS84, LO29 System. Coordinates To Be Checked Prior To Any Construction.
 - All Existing Services To Be Exposed To Establish Exact Levels Before Construction May Commence.
 - The Contractor Must Liaise With Responsible Service Providers With Respect To Affected Services And Protection Thereof.
 - The Contractor Must Liaise With The Roads & Stormwater Division With Respect To Reinstatement Of Road Surfacing & Sidewalks.
 - Where Applicable Trenchfill To Extend 1m On Either Side Of The Road Edge.
 - All Conditions As Specified In The Environmental Management Plan, Must Be Completed With.
 - Maximum Deflection Angle At Couplings To Comply With Minimum Recommended By Pipe Manufacturer.
 - All Future Sewer Reticulation Pipelines to be 100mmØ. Connections into Manholes To Be As Directed On Site By The Engineer.
 - Existing Sewer Reticulation To Be Confirmed On Site. Connections into Manholes To Be As Directed On Site By The Engineer.
 - Existing Septic and Conservancy Tanks to be confirmed on site and house connections to be adjusted as directed by the Engineer.
 - Where two invert levels are given, they refer to invert levels at the centre of the manhole.

BENCH MARKS (WGS 84 Lo = 29)

16mm PEG IN CONCRETE

Name	Y Co-ord	X Co-ord	Height
BM1	-53150.18	3470371.65	592.722
BM2	-53259.02	3470743.49	589.596
BM3	-53559.38	3470582.26	563.413
BM4	-54036.16	3470295.45	561.091
BM5	-54184.64	3469845.94	602.584
BM6	-54173.62	3469551.30	541.106
BM7	-54420.47	3469334.59	542.937
BM8	-54602.56	3469060.56	534.734
BM9	-54962.68	3468858.32	532.258
BM10	-55124.69	3470097.31	539.505
BM11	-55278.77	3470209.37	536.395
BM12	-55417.76	3470206.85	532.658
BM13	-55527.25	3470485.20	534.251
BM14	-55198.47	3470857.30	550.636
BM15	-55113.18	3471213.19	533.338
BM16	-54702.83	3471105.37	547.184
BM17	-54589.10	3470916.37	557.286
BM18	-54537.38	3471152.73	560.729
BM19	-54188.47	3471552.44	562.323
BM20	-53810.21	3471607.79	567.013
BM21	-53562.80	3471835.51	578.428
BM22	-54888.93	3471535.68	572.038
BM23	-55124.29	3471495.36	580.627
BM24	-55337.29	3471755.64	582.194
BM25	-55452.25	3471979.79	581.060
BM26	-55422.32	3472343.53	590.483
BM27	-55148.29	3472567.22	597.888
BM28	-55493.80	3472732.48	602.445
BM29	-55670.40	3472989.99	600.959
BM30	-56074.52	3472314.47	610.769



Sewer Schedule

Name	Y-Coord	X-Coord	Cover	Inlet	Depth	Length	Slope	Type	Size
MH085	-54449.02	3472262.51	581.77	580.22	1.56	65.23	4.03 %	PVC-U	160 mm
MH086	-54401.88	3472307.56	589.14	587.58	1.56	56.63	9.67 %	PVC-U	160 mm
MH087	-54295.02	3472267.51	579.18	577.60	1.59	56.63	7.87 %	PVC-U	160 mm
MH088	-54283.90	3472249.85	577.82	576.03	1.89	21.36	1.88 %	PVC-U	160 mm
MH089	-54271.88	3472232.16	577.19	575.63	1.56	36.84	2.21 %	PVC-U	160 mm
MH090	-54322.05	3472203.05	578.91	577.35	1.56	28.11	1.58 %	PVC-U	160 mm
MH091	-54309.19	3472237.57	578.02	576.51	1.52	28.11	1.58 %	PVC-U	160 mm
MH092	-54283.90	3472249.85	577.82	576.03	1.89	28.11	1.58 %	PVC-U	160 mm
MH093	-54351.13	3472255.17	582.69	581.13	1.56	45.49	10.09 %	PVC-U	160 mm
MH094	-54309.19	3472237.57	578.02	576.51	1.52				

PLAN SCALE 1 : 1000

SEWER PIPE
NGL

SCALE
VERTICAL 1 : 250
HORIZONTAL 1 : 1000

Chainage
0.000
65.227
121.852
178.477
199.840
221.204

Manhole Name
MH085
MH086
MH088
MH087
MH087A
MH088

Invert Level
580.217
587.587
587.587
586.083
577.626
577.598
576.003
576.003
576.832

Link Type / Link Size
PVC-U 160 mm
PVC-U 160 mm
PVC-U 160 mm
PVC-U 160 mm
PVC-U 160 mm

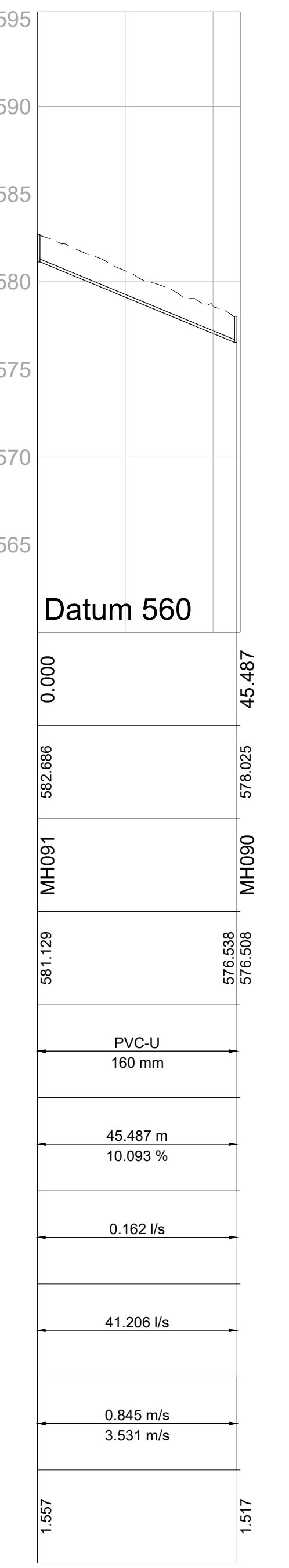
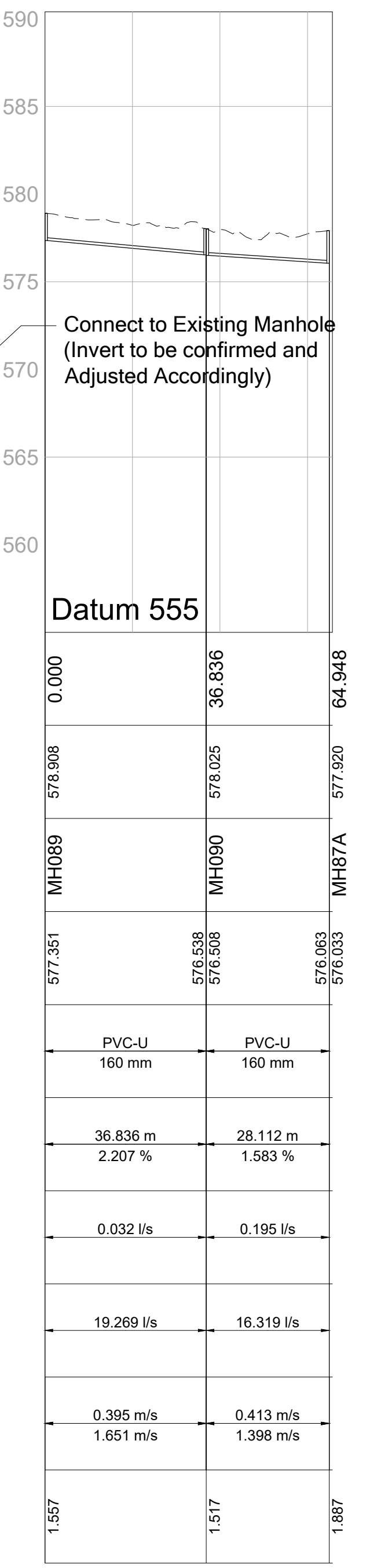
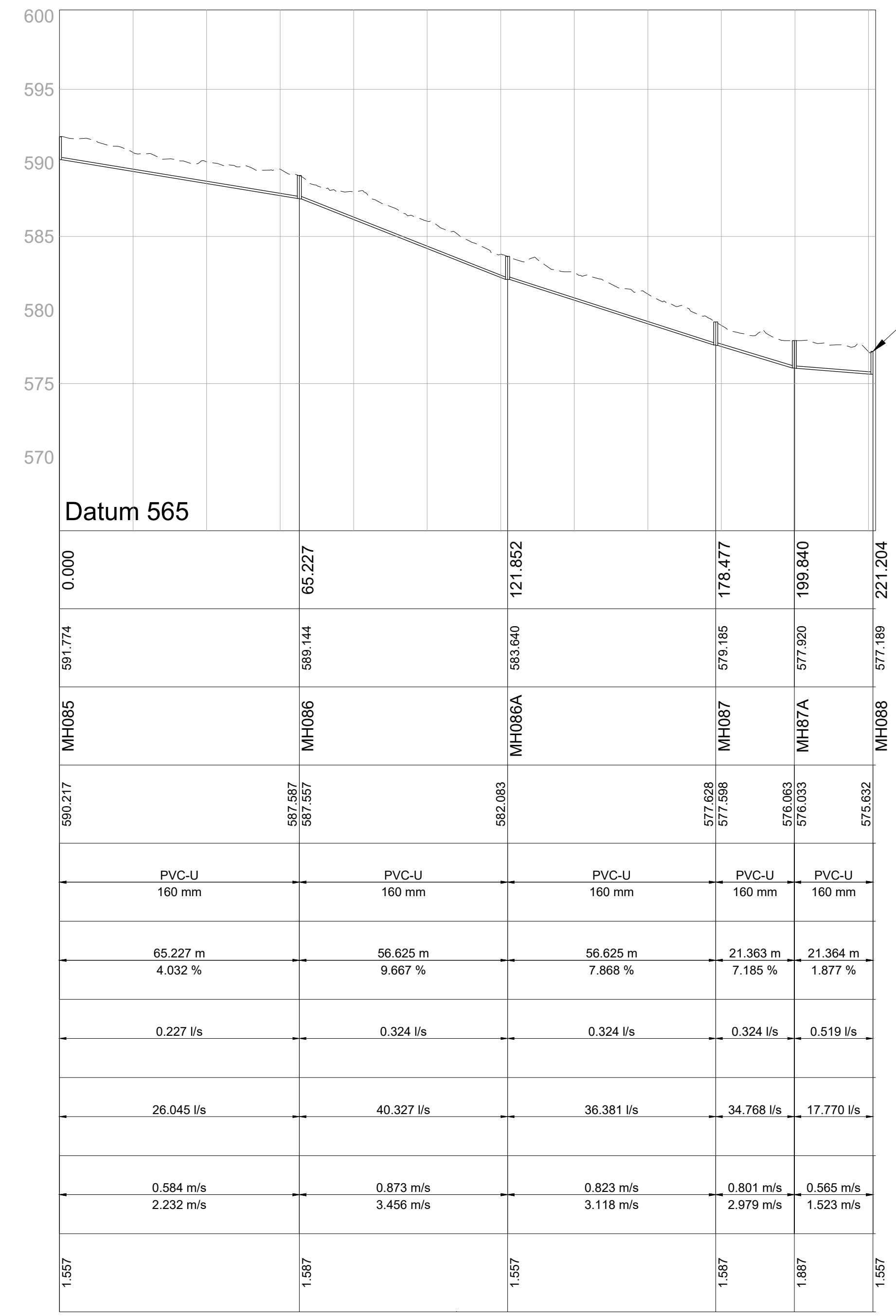
Length / Slope
65.227 m 4.032 %
56.625 m 9.667 %
56.625 m 7.868 %
21.363 m 7.185 %
21.364 m 1.877 %

Flow
0.227 l/s
0.324 l/s
0.324 l/s
0.324 l/s
0.519 l/s

Capacity
26.045 l/s
40.327 l/s
36.381 l/s
34.768 l/s
17.770 l/s

Velocity/Full-bore Velocity
0.584 m/s 2.232 m/s
0.873 m/s 3.458 m/s
0.823 m/s 3.118 m/s
0.801 m/s 2.979 m/s
0.565 m/s 1.523 m/s

Depth
1.567
1.567
1.567
1.587
1.587
1.567



MH085 to MH088

MH089 to MH087A

MH091 to MH090

FOR TENDER PURPOSES

REV	DATE	BY	DESCRIPTION
A	MAY 2020	LA	FIRST ISSUE FOR TENDER

CHECKED	APP'D	REV	DATE	BY
NL	IF			

DESCRIPTION	CHECKED	APP'D



SCALE: AS SHOWN	DESIGNED BY: N. LELALA
DRAWN: N. LELALA	NAME: N. LELALA
DISCIPLINE: CIVIL	SIGNATURE: [Signature]
DATE: MAY 2020	CHECKED BY: I. FIELD
	NAME: I. FIELD
	SIGNATURE: [Signature]



PROJECT: LUSIKISIKI SEWER RETICULATION			
TITLE: PHASE 3A : ARTHUR HOMES PLAN AND LONSECTIONS SHEET 5 OF 10			
SHEET: A0	CONTRACT No.: 20209	DRAWING No.: 20209/03A/00/500/204	REVISION: A