



SCALE FOR REDUCED PLAN

0 10 20 30 40 50 60 70 80 90 100

100mm ON ORIGINAL PLAN

NOTES

LEGEND

Existing sewer — — — — —

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AMENDMENT

NO	DATE	CHECKED	DONE BY	DESCRIPTION

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CONSULTING GROUP

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FAX: (027) 718 2234

e-mail: info@ribicon.com

DESIGNED	DRAWN	CHECKED
TRC	TRC	JA

CONSULTING ENGINEER

DATE

CLIENT

DATE

CLIENT

NAMA KHOI LOCAL MUNICIPALITY

PROJECT

UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

PRE DEVELOPMENT SITE PLAN

SCALE

1:1250

ORIGINAL DWG SIZE: A0

DATE

2-Nov-22

DRAWING NUMBER

RIB-4662-1001-01

STAGE

T

REV NO

0

MH Table		
MH REF	X	Y
MH1	3 276 118.7661	-84 997.371
MH5	3 276 313.6170	-84 905.842
MH6	3 276 348.3282	-84 895.458
MH7	3 276 410.0134	-84 902.528
MH8	3 276 479.9543	-84 904.734
MH9	3 276 548.9322	-84 906.942
MH10	3 276 617.5345	-84 909.138
MH11	3 276 684.2191	-84 917.234
MH12	3 276 729.1672	-84 921.066
MH13	3 276 760.1367	-84 924.361
MH14	3 276 798.8500	-84 927.440
MH15	3 276 802.2200	-84 924.680
MH16	3 276 824.4700	-84 853.730
MH17	3 276 822.0647	-84 795.922
MH18	3 276 820.3000	-84 753.540
MH19	3 276 822.7284	-84 741.551
MH21	3 276 342.5400	-84 936.940
MH22	3 276 366.9900	-84 954.470
MH23	3 276 391.8900	-84 970.820
MH24	3 276 399.3561	-84 983.073

MH Table		
MH REF	X	Y
MH25	3 276 475.7343	-84 985.482
MH26	3 276 543.8128	-84 987.909
MH27	3 276 617.9600	-84 990.520
MH28	3 276 632.3700	-84 983.440
MH29	3 276 678.1800	-84 984.020
MH30	3 276 725.7500	-84 986.450
MH31	3 276 758.4200	-84 987.510
MH32	3 276 773.2740	-84 973.813
MH33	3 276 787.2118	-84 974.055
MH35	3 276 644.5900	-84 808.750
MH36	3 276 646.8800	-84 845.240
MH38	3 276 650.8620	-84 789.407
MH39	3 276 653.4700	-84 750.320
MH41	3 276 686.1325	-84 707.518
MH42	3 276 738.5338	-84 711.642
MH43	3 276 794.4168	-84 715.908
MH43A	3 276 781.1468	-84 784.974
MH44	3 276 656.0989	-84 704.964
MH45	3 276 591.5377	-84 699.899
MH45A	3 276 785.6170	-84 794.513

MH Table		
MH REF	X	Y
MH46	3 276 754.6776	-84 793.749
MH47	3 276 708.5737	-84 792.012
MH48	3 276 599.2571	-84 787.891
MH49	3 276 574.4029	-84 785.775
MH50	3 276 539.7988	-84 781.991
MH51	3 276 475.1879	-84 773.230
MH52	3 276 714.1586	-84 856.715
MH52A	3 276 659.7768	-84 852.006
MH53	3 276 793.1002	-84 863.647
MH54	3 276 602.7793	-84 848.933
MH54A	3 276 641.6545	-84 852.443
MH55	3 276 529.0239	-84 842.334
MH56	3 276 330.5900	-84 884.190
MH57	3 276 377.1400	-84 887.940
MH58	3 276 379.0200	-84 849.470
MH59	3 276 383.7900	-84 824.320
MH60	3 276 447.3945	-84 833.414
MH61	3 276 454.6460	-84 825.850
MH62	3 276 464.9215	-84 761.299
MH63	3 276 480.4456	-84 688.264

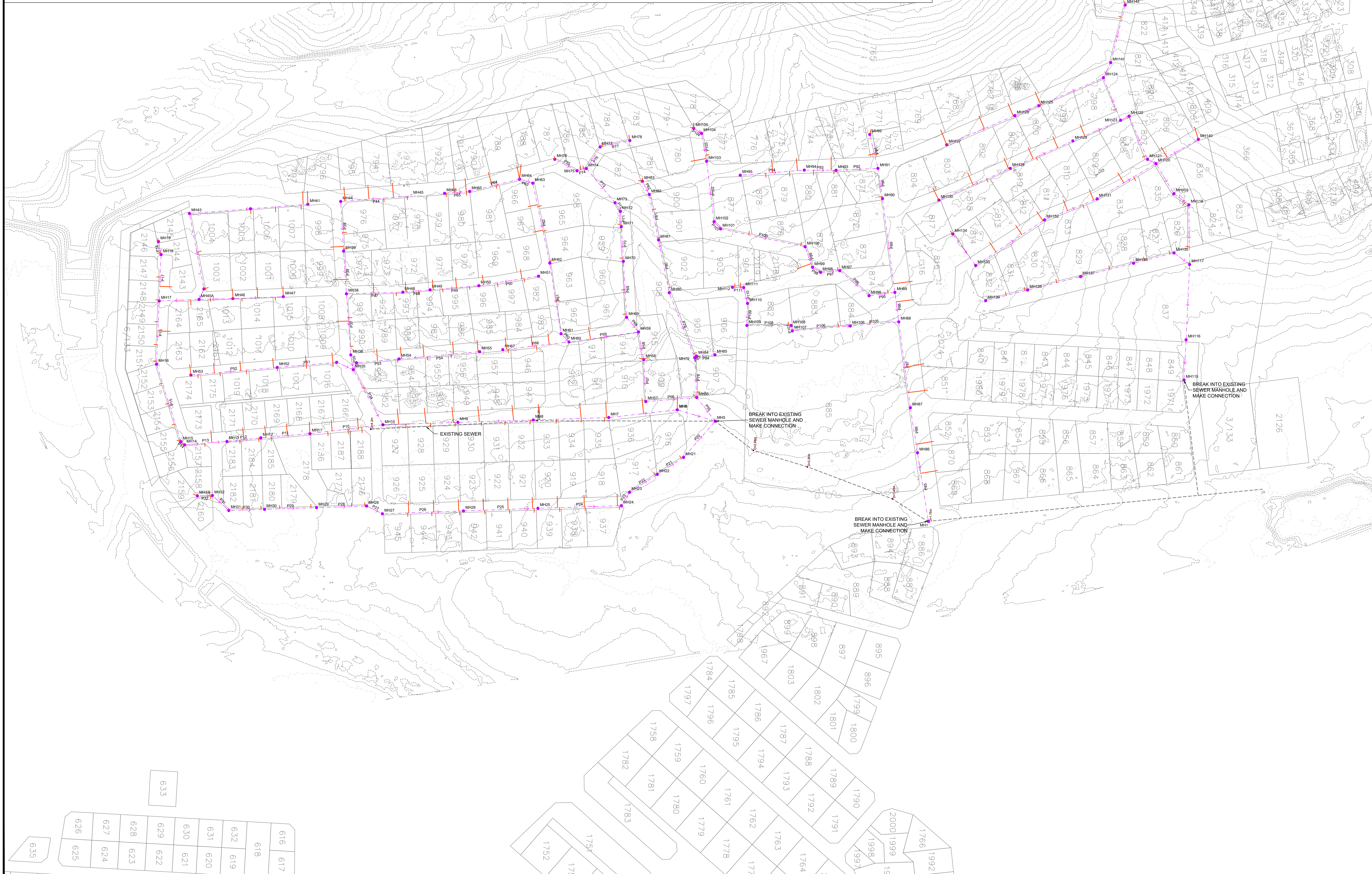
MH Table		
MH REF	X	Y
MH64	3 276 492.5013	-84 684.551
MH65	3 276 538.1532	-84 695.734
MH66	3 276 561.0928	-84 697.525
MH67	3 276 507.8488	-84 640.484
MH68	3 276 394.6100	-84 910.830
MH70	3 276 397.6000	-84 759.710
MH71	3 276 389.4600	-84 727.960
MH72	3 276 400.2800	-84 714.000
MH73	3 276 405.1800	-84 706.110
MH74	3 276 431.4300	-84 674.850
MH75	3 276 440.0200	-84 676.980
MH76	3 276 460.3100	-84 666.440
MH77	3 276 418.7300	-84 655.120
MH78	3 276 391.6800	-84 649.240
MH79	3 276 332.3800	-84 647.780
MH80	3 276 355.6800	-84 788.420
MH81	3 276 365.5133	-84 740.097
MH82	3 276 373.9700	-84 698.540
MH83	3 276 380.2400	-84 686.330
MH84	3 276 330.8100	-84 846.300

MH Table		
MH REF	X	Y
MH85	3 276 313.8400	-84 845.170
MH86	3 276 128.6850	-84 934.707
MH87	3 276 135.1900	-84 893.610
MH88	3 276 145.8113	-84 815.045
MH89	3 276 149.3600	-84 786.080
MH90	3 276 160.6500	-84 702.300
MH91	3 276 164.8277	-84 674.726
MH92	3 276 172.3443	-84 643.714
MH93	3 276 203.1133	-84 676.401
MH94	3 276 232.1904	-84 676.269
MH95	3 276 290.7300	-84 680.943
MH96	3 276 172.9400	-84 791.180
MH97	3 276 199.7300	-84 768.280
MH98	3 276 217.2600	-84 769.780
MH99	3 276 224.6800	-84 765.140
MH100	3 276 231.4600	-84 746.330
MH101	3 276 308.7500	-84 730.020
MH102	3 276 314.6800	-84 723.480
MH103	3 276 321.5000	-84 668.120
MH104	3 276 326.1800	-84 642.710

MH Table		
MH REF	X	Y
MH105	3 276 333.2341	-84 638.091
MH106	3 276 190.1083	-84 818.793
MH107	3 276 243.1518	-84 823.281
MH108	3 276 244.2276	-84 815.406
MH109	3 276 284.6869	-84 818.340
MH110	3 276 284.1500	-84 798.110
MH111	3 276 287.6032	-84 783.732
MH112	3 276 297.8200	-84 783.500

MH Table		
MH REF	X	Y
MH115	3 275 884.9774	-84 868.223
MH116	3 275 883.0529	-84 831.398
MH117	3 275 875.8882	-84 762.580
MH118	3 275 880.5025	-84 708.058
MH119	3 275 894.1806	-84 789.658
MH120	3 275 910.6065	-84 670.332
MH121	3 275 918.3033	-84 666.475
MH122	3 275 935.1730	-84 626.975
MH123	3 275 942.9179	-84 630.701
MH124	3 275 958.6497	-84 591.798
MH125	3 276 017.6920	-84 617.387
MH126	3 276 039.6725	-84 626.428
MH127	3 276 101.9751	-84 653.076
MH128	3 275 986.5959	-84 649.585
MH129	3 276 043.8092	-84 674.699
MH130	3 276 109.1504	-84 703.690
MH131	3 275 964.4100	-84 702.584
MH132	3 276 012.4959	-84 721.774
MH133	3 276 075.5091	-84 763.452
MH134	3 276 096.4389	-84 734.781

MH Table		
MH REF	X	Y
MH135	3 275 894.1317	-84 752.053
MH136	3 275 931.0907	-84 761.413
MH137	3 275 979.5607	-84 773.687
MH138	3 276 027.9389	-84 785.938
MH139	3 276 066.3249	-84 799.658
MH140	3 275 871.8412	-84 648.120
MH141	3 275 932.0062	-84 578.007
MH142	3 275 938.7077	-84 525.353



SCALE FOR REDUCED PLAN

100m ON ORIGINAL PLAN

NOTES

LEGEND

Existing Sewer Pipe

160mm uPVC Sewer Class 34

Sewer Manhole

Erf Connection

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

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AMENDMENT				
NO	DATE	CHECKED	DONE BY	DESCRIPTION

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DESIGNED	DRAWN	CHECKED
TRC	TRC	JA

CONSULTING ENGINEER	DATE

CLIENT	DATE

CLIENT

NAMA KHOI LOCAL MUNICIPALITY

PROJECT

UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

SEWERS LAYOUT PLAN

SCALE	DATE
1:1250 ORIGINAL DWG SIZE: A0	9-Nov-22

DRAWING NUMBER	STAGE	REV NO
RIB-4662-1101-01	T	2



SCALE FOR REDUCED PLAN

100mm ON ORIGINAL PLAN

NOTES

LEGEND

Existing Sewer Pipe

160mm uPVC Sewer Class 34

Sewer Manhole

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DESIGNED	DRAWN	CHECKED
TRC	TRC	JA

CONSULTING ENGINEER	DATE

CLIENT	DATE

NAMA KHOI LOCAL MUNICIPALITY

PROJECT

UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

SEWER LAYOUT (SHEET 1 OF 3)

SCALE	DATE
1:500	9-Nov-22

DRAWING NUMBER	STAGE	REV NO
RIB-4662-1101-02	T	2



SCALE FOR REDUCED PLAN

100mm ON ORIGINAL PLAN

NOTES

LEGEND

Existing Sewer Pipe

160mm uPVC Sewer Class 34

Sewer Manhole

Erf Connection

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DESIGNED	DRAWN	CHECKED
TRC	TRC	JA

CONSULTING ENGINEER	DATE

CLIENT	DATE

NAMA KHOI LOCAL MUNICIPALITY

PROJECT

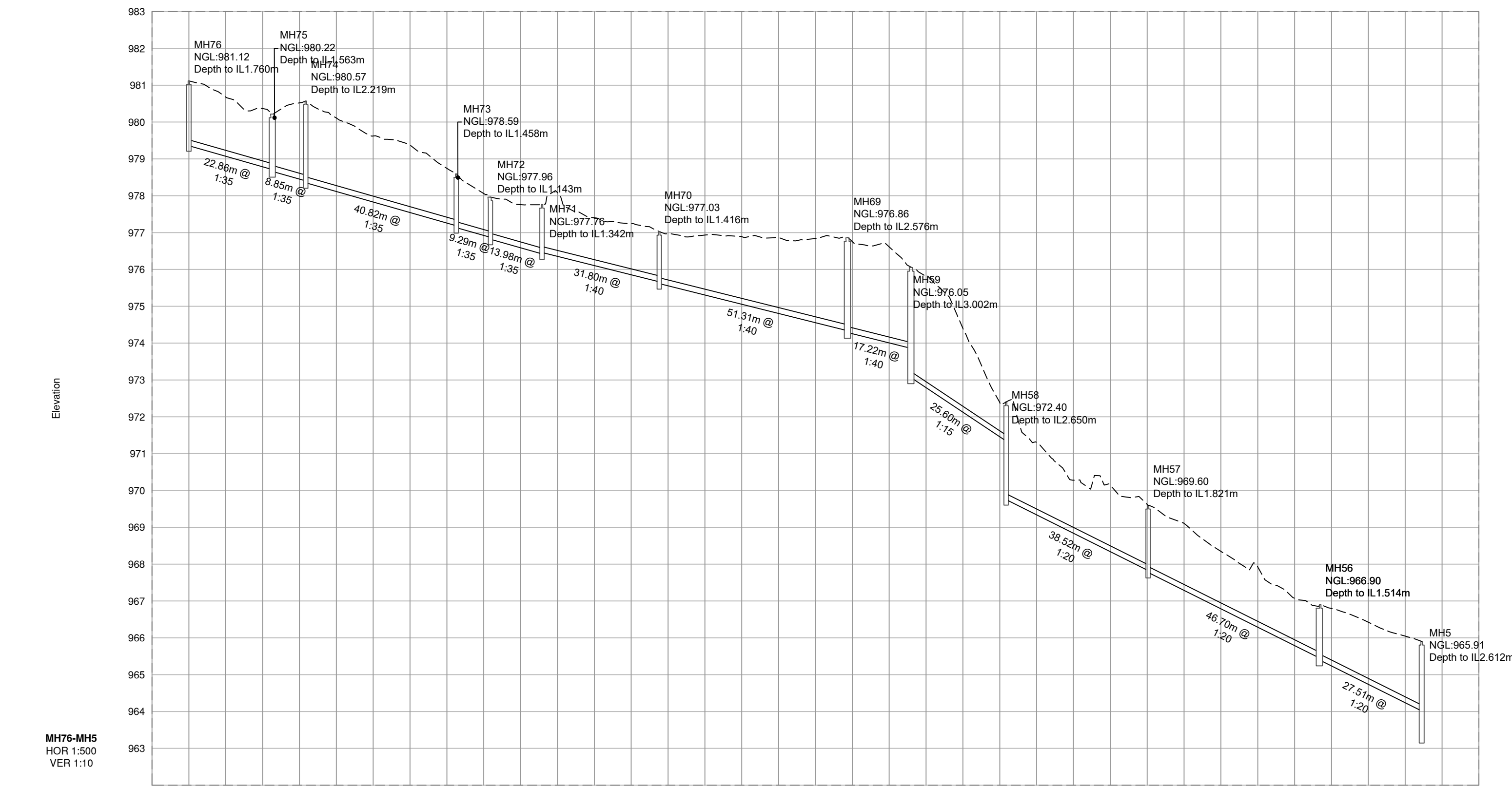
UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

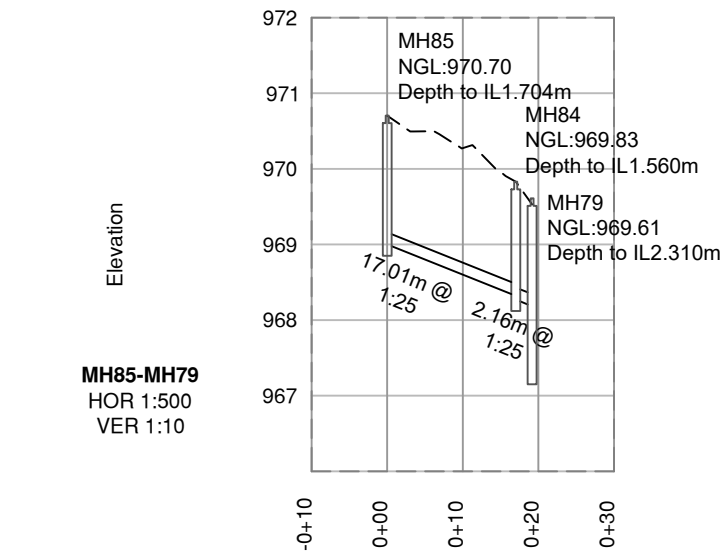
SEWER LAYOUT (SHEET 2 OF 3)

SCALE	DATE
1:500 ORIGINAL DWG SIZE A0	9-Nov-22

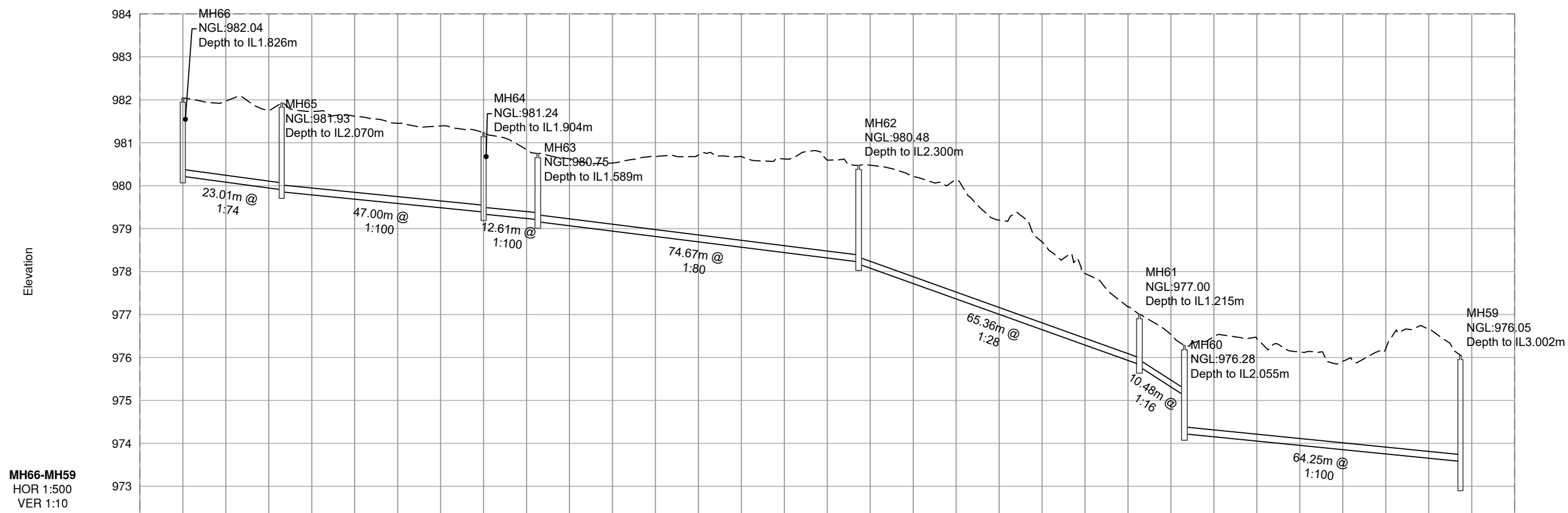
DRAWING NUMBER	STAGE	REV NO
RIB-4662-1101-03	T	2



NGL AT MH CL	981.18	980.22	979.86	979.50	979.14	978.78	978.42	978.06	977.70	977.34	976.98	976.62	976.26	975.90	975.54	975.18	974.82	974.46	974.10	973.74	973.38	973.02	972.66	972.30	971.94	971.58	971.22	970.86	970.50	970.14	969.78	969.42	969.06	968.70	968.34	967.98	967.62	967.26	966.90	966.54	966.18	965.82	965.46	965.10	964.74	964.38	964.02	963.66	963.30	962.94	962.58	962.22	961.86	961.50	961.14	960.78	960.42	960.06	959.70	959.34	958.98	958.62	958.26	957.90	957.54	957.18	956.82	956.46	956.10	955.74	955.38	955.02	954.66	954.30	953.94	953.58	953.22	952.86	952.50	952.14	951.78	951.42	951.06	950.70	950.34	950.00	949.66	949.32	948.98	948.64	948.30	947.96	947.62	947.28	946.94	946.60	946.26	945.92	945.58	945.24	944.90	944.56	944.22	943.88	943.54	943.20	942.86	942.52	942.18	941.84	941.50	941.16	940.82	940.48	940.14	939.80	939.46	939.12	938.78	938.44	938.10	937.76	937.42	937.08	936.74	936.40	936.06	935.72	935.38	935.04	934.70	934.36	934.02	933.68	933.34	933.00	932.66	932.32	931.98	931.64	931.30	930.96	930.62	930.28	929.94	929.60	929.26	928.92	928.58	928.24	927.90	927.56	927.22	926.88	926.54	926.20	925.86	925.52	925.18	924.84	924.50	924.16	923.82	923.48	923.14	922.80	922.46	922.12	921.78	921.44	921.10	920.76	920.42	920.08	919.74	919.40	919.06	918.72	918.38	918.04	917.70	917.36	917.02	916.68	916.34	916.00	915.66	915.32	914.98	914.64	914.30	913.96	913.62	913.28	912.94	912.60	912.26	911.92	911.58	911.24	910.90	910.56	910.22	909.88	909.54	909.20	908.86	908.52	908.18	907.84	907.50	907.16	906.82	906.48	906.14	905.80	905.46	905.12	904.78	904.44	904.10	903.76	903.42	903.08	902.74	902.40	902.06	901.72	901.38	901.04	900.70	900.36	900.02	899.68	899.34	899.00	898.66	898.32	897.98	897.64	897.30	896.96	896.62	896.28	895.94	895.60	895.26	894.92	894.58	894.24	893.90	893.56	893.22	892.88	892.54	892.20	891.86	891.52	891.18	890.84	890.50	890.16	889.82	889.48	889.14	888.80	888.46	888.12	887.78	887.44	887.10	886.76	886.42	886.08	885.74	885.40	885.06	884.72	884.38	884.04	883.70	883.36	883.02	882.68	882.34	882.00	881.66	881.32	880.98	880.64	880.30	879.96	879.62	879.28	878.94	878.60	878.26	877.92	877.58	877.24	876.90	876.56	876.22	875.88	875.54	875.20	874.86	874.52	874.18	873.84	873.50	873.16	872.82	872.48	872.14	871.80	871.46	871.12	870.78	870.44	870.10	869.76	869.42	869.08	868.74	868.40	868.06	867.72	867.38	867.04	866.70	866.36	866.02	865.68	865.34	865.00	864.66	864.32	863.98	863.64	863.30	862.96	862.62	862.28	861.94	861.60	861.26	860.92	860.58	860.24	859.90	859.56	859.22	858.88	858.54	858.20	857.86	857.52	857.18	856.84	856.50	856.16	855.82	855.48	855.14	854.80	854.46	854.12	853.78	853.44	853.10	852.76	852.42	852.08	851.74	851.40	851.06	850.72	850.38	850.04	849.70	849.36	849.02	848.68	848.34	848.00	847.66	847.32	846.98	846.64	846.30	845.96	845.62	845.28	844.94	844.60	844.26	843.92	843.58	843.24	842.90	842.56	842.22	841.88	841.54	841.20	840.86	840.52	840.18	839.84	839.50	839.16	838.82	838.48	838.14	837.80	837.46	837.12	836.78	836.44	836.10	835.76	835.42	835.08	834.74	834.40	834.06	833.72	833.38	833.04	832.70	832.36	832.02	831.68	831.34	831.00	830.66	830.32	829.98	829.64	829.30	828.96	828.62	828.28	827.94	827.60	827.26	826.92	826.58	826.24	825.90	825.56	825.22	824.88	824.54	824.20	823.86	823.52	823.18	822.84	822.50	822.16	821.82	821.48	821.14	820.80	820.46	820.12	819.78	819.44	819.10	818.76	818.42	818.08	817.74	817.40	817.06	816.72	816.38	816.04	815.70	815.36	815.02	814.68	814.34	814.00	813.66	813.32	812.98	812.64	812.30	811.96	811.62	811.28	810.94	810.60	810.26	809.92	809.58	809.24	808.90	808.56	808.22	807.88	807.54	807.20	806.86	806.52	806.18	805.84	805.50	805.16	804.82	804.48	804.14	803.80	803.46	803.12	802.78	802.44	802.10	801.76	801.42	801.08	800.74	800.40	799.06	798.72	798.38	798.04	797.70	797.36	797.02	796.68	796.34	796.00	795.66	795.32	794.98	794.64	794.30	793.96	793.62	793.28	792.94	792.60	792.26	791.92	791.58	791.24	790.90	790.56	790.22	789.88	789.54	789.20	788.86	788.52	788.18	787.84	787.50	787.16	786.82	786.48	786.14	785.80	785.46	785.12	784.78	784.44	784.10	783.76	783.42	783.08	782.74	782.40	782.06	781.72	781.38	781.04	780.70	780.36	780.02	779.68	779.34	779.00	778.66	778.32	777.98	777.64	777.30	776.96	776.62	776.28	775.94	775.60	775.26	774.92	774.58	774.24	773.90	773.56	773.22	772.88	772.54	772.20	771.86	771.52	771.18	770.84	770.50	770.16	769.82	769.48	769.14	768.80	768.46	768.12	767.78	767.44	767.10	766.76	766.42	766.08	765.74	765.40	765.06	764.72	764.38	764.04	763.70	763.36	763.02	762.68	762.34	762.00	761.66	761.32	760.98	760.64	760.30	760.00	759.66	759.32	758.98	758.64	758.30	757.96	757.62	757.28	756.94	756.60	756.26	755.92	755.58	755.24	754.90	754.56	754.22	753.88	753.54	753.20	752.86	752.52	752.18	751.84	751.50	751.16	750.82	750.48	750.14	749.80	749.46	749.12	748.78	748.44	748.10	747.76	747.42	747.08	746.74	746.40	746.06	745.72	745.38	745.04	744.70	744.36	744.02	743.68	743.34	743.00	742.66	742.32	741.98	741.64	741.30	740.96	740.62	740.28	739.94	739.60	739.26	738.92	738.58	738.24	737.90	737.56	737.22	736.88	736.54	736.20	735.86	735.52	735.18	734.84	734.50	734.16	733.82	733.48	733.14	732.80	732.46	732.12	731.78	731.44	731.10	730.76	730.42	730.08	729.74	729.40	729.06	728.72	728.38	728.04	727.70	727.36	727.02	726.68	726.34	726.00	725.66	725.32	724.98	724.64	724.30	723.96	723.62	723.28	722.94	722.60	722.26	721.92	721.58	721.24	720.90	720.56	720.22	719.88	719.54	719.20	718.86	718.52	718.18	717.84	717.50	717.16	716.82	716.48	716.14	715.80	715.46	715.12	714.78	714.44	714.10	713.76	713.42	713.08	712.74	712.40	712.06	711.72	711.38	711.04	710.70	710.36	710.02	709.68	709.34	709.00	708.66	708.32	707.98	707.64	707.30	706.96	706.62	706.28	705.94	705.60	705.26	704.92	704.58	704.24	703.90	703.56	703.22	702.88	702.54	702.20	701.86	701.52	701.18	700.84	700.50	700.16	699.82	699.48	699.14	698.80	698.46	698.12	697.78	697.44	697.10	696.76	696.42	696.08	695.74	695.40	695.06	694.72	694.38	694.04	693.70	693.36	693.02	692.68	692.34	692.00	691.66	691.32	690.98	690.64	690.30	690.00	689.66	689.32	688.98	688.64	688.30	687.96	687.62	687.28	686.94	686.60	686.26	685.92	685.58	685.24	684.90	684.56	684.22	683.88	683.54	683.20	682.86	682.52	682.18	681.84	681.50	681.16	680.82	680.48	680.14	679.80	679.46	679.12	678.78	678.44	678.10	677.76	677.42	677.08	676.74	676.40	676.06	675.72	675.38	675.04	674.70	674.36	674.02	673.68	673.34	673.00	672.66	672.32	671.98	671.64	671.30	670.96	670.62	670.28	669.94	669.60	669.26	668.92	668.58	668.24	667.90	667.56	667.22	666.88	666.54	666.20	665.86	665.52	665.18	664.84	664.50	664.16	663.82	663.48	663.14	662.80	662.46	662.12	661.78	661.44	661.10	660.76	660.42	660.08	659.74	659.40	659.06	658.72	658.38	658.04	657.70	657.36	657.02	656.68	656.34	656.00	655.66	655.32	654.98	654.64	654.30	653.96	653.62	653.28	652.94	652.60	652.26	651.92	651.58	651.24	650.90	650.56	650.22	649.88	649.54	649.20	648.86	648.52	648.18	647.84	647.50	647.16	646.82	646.48	646.14	645.80	645.46	645.12	644.78	644.44	644.10	643.76	643.42	643.08	642.74	642.40	642.06	641.72	641.38	641.04	640.70	640.36	640.02	639.68	639.34	639.00	638.66	638.32	637.98	637.64	637.30	636.96	636.62	636.28	635.94	635.60	635.26	634.92	634.58	634.24	633.90	633.56	633.22	632.88	632.54	632.20	631.86	631.52	631.18	630.84	630.50	630.16	629.82	629.48	629.14	628.80	628.46	628.12	627.78	627.44	627.10	626.76	626.42	626.08	625.74	625.40	625.06	624.72	624.38	624.04	623.70	623.36	623.02	622.68	622.34	622.00	621.66	621.32	620.98	620.64	620.30	620.00	619.66	619.32	618.98	618.64	618.30	617.96	617.62	617.28	616.94	616.60	616.26	615.92	615.58	615.24	614.90	614.56	614.22	613.88	613.54	613.20	612.86	612.52	612.18	611.84	611.50	611.16	610.82	610.48	610.14	609.80	609.46	609.12	608.78	608.44	608.10	607.76	607.42	607.08	606.74	606.40	606.06	605.72	605.38	605.04	604.70	604.36	604.02	603.68	603.34	603.00	602.66	602.32	601.98	601.64	601.30	600.96	600.62
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NGL AT MH CL	970.704	970.704	970.704
INVERT LEVEL	969.000	969.000	969.000
COVER	1.539	1.539	1.539
GRADE %	4.00%	4.00%	4.00%
	1.25	1.25	1.25
FULL BORE VELOCITY FLOW RATE			
uPVC PIPE DETAILS (CL TO CL LENGTHS)	CL34 1660 17.07m	CL34 1660 17.07m	CL34 1660 17.07m

[illegible]

All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

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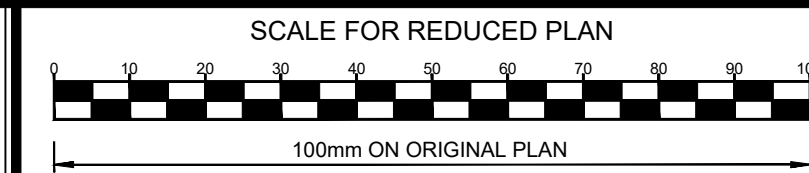
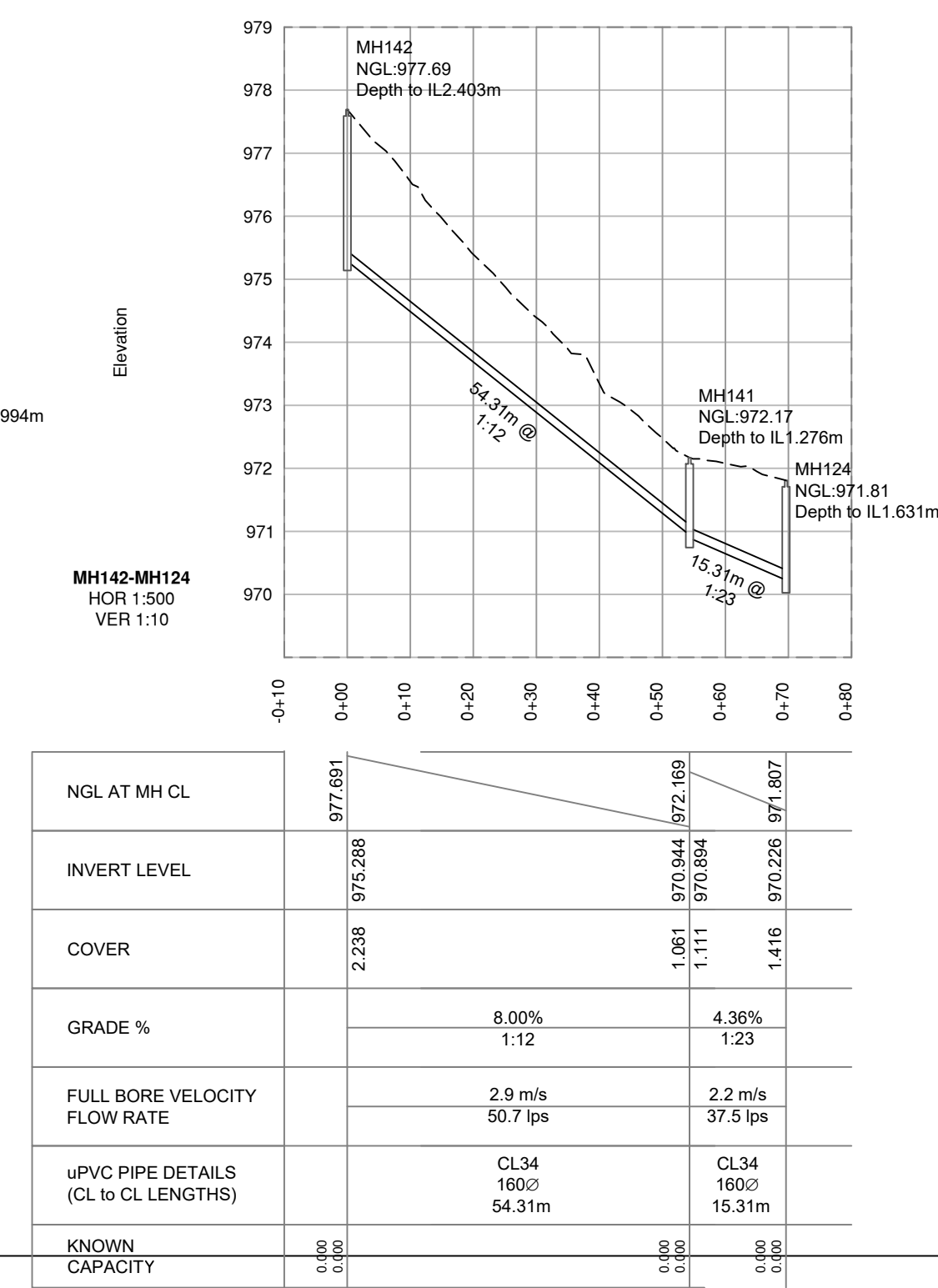
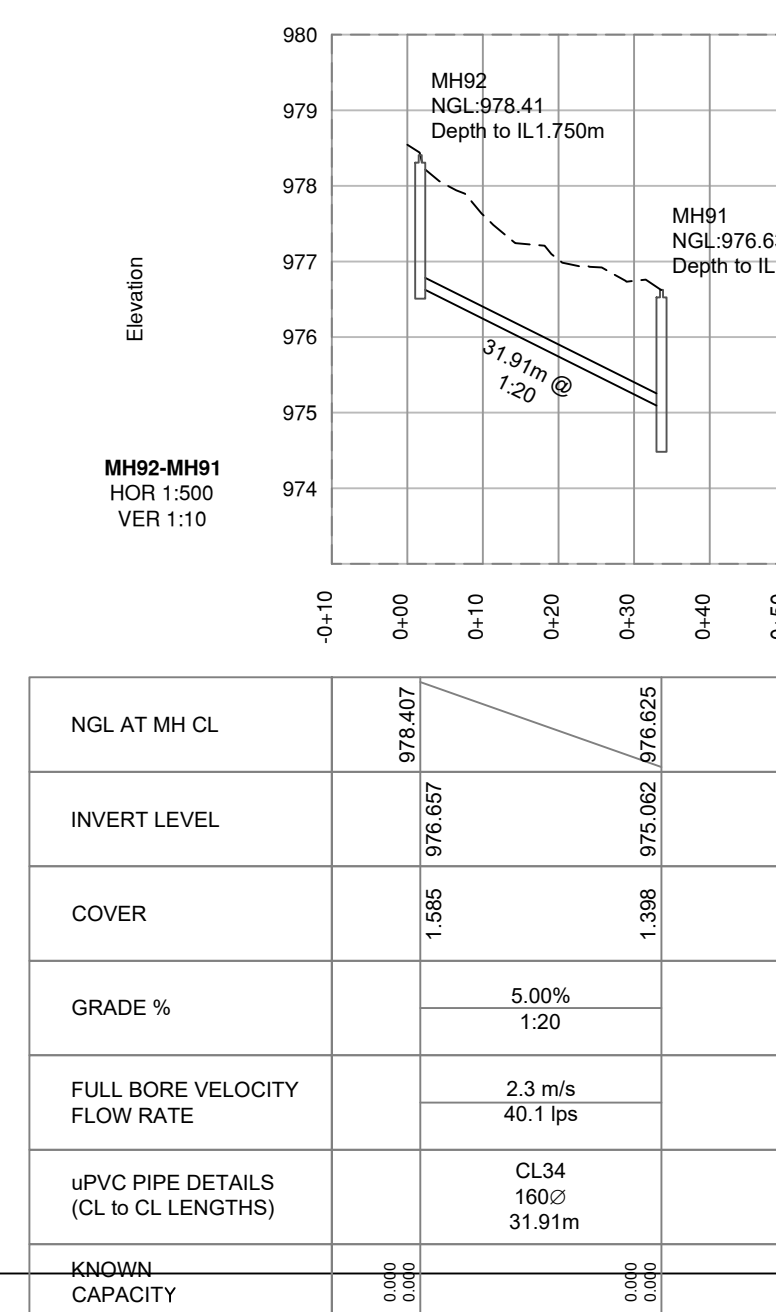
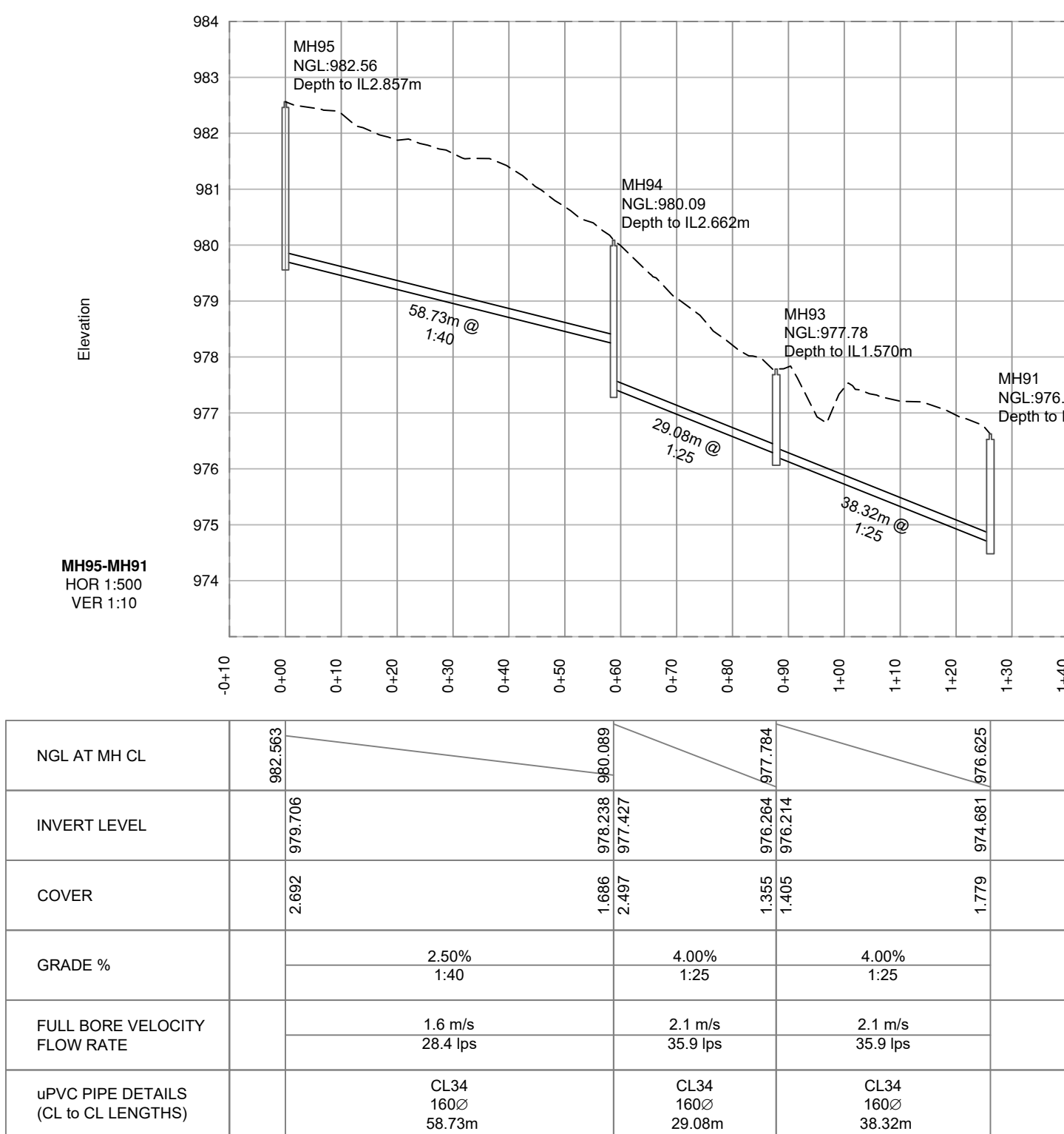
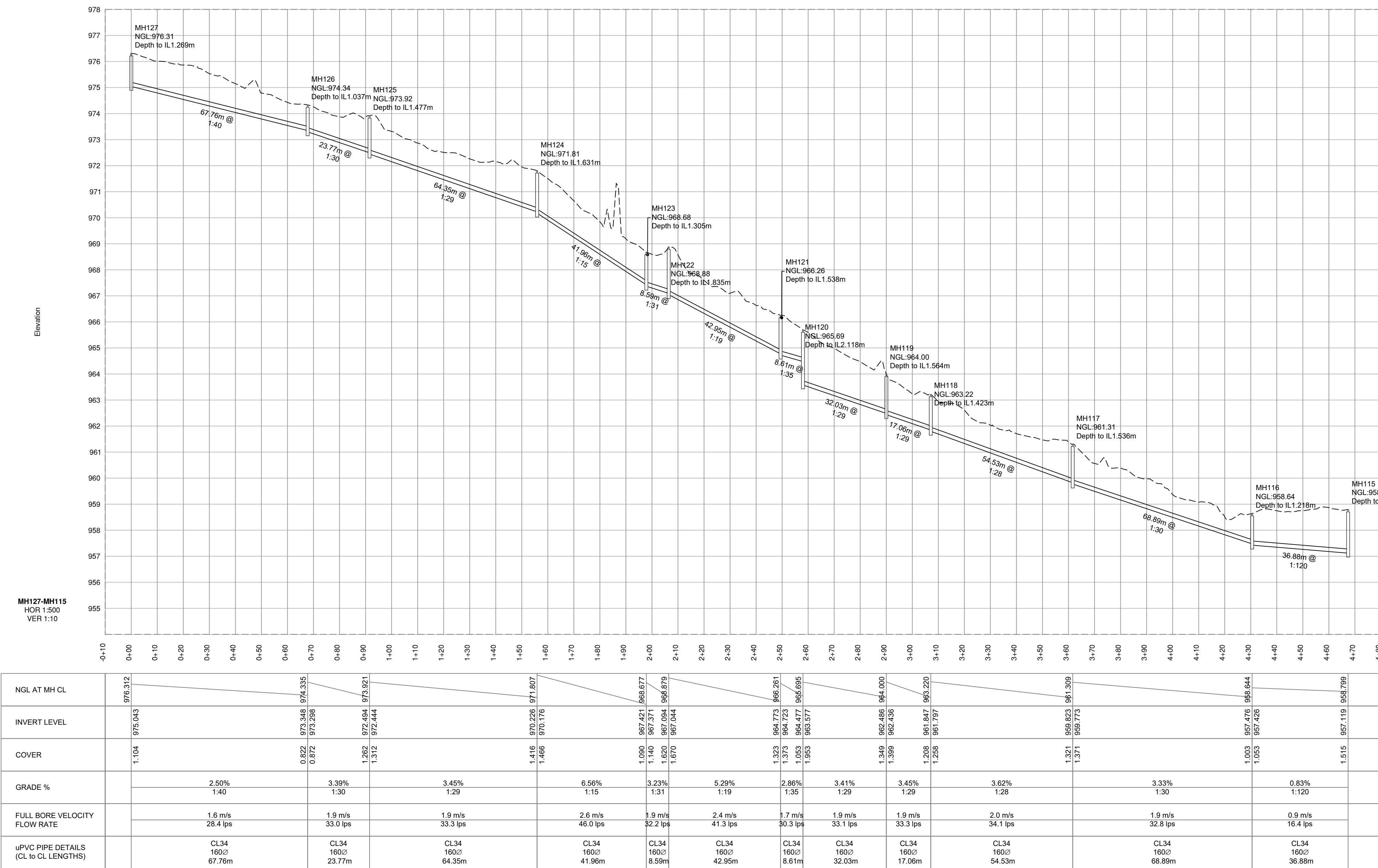
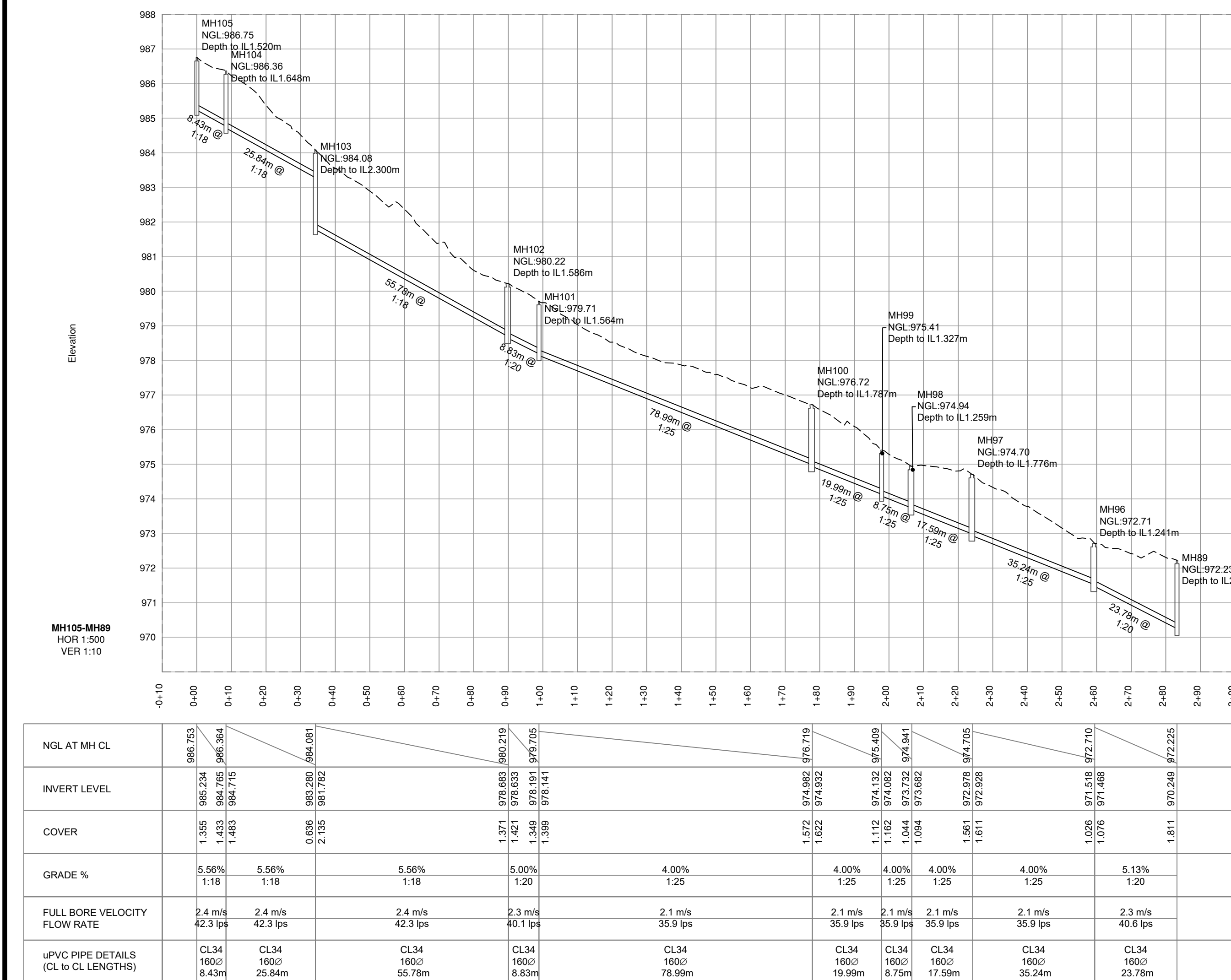
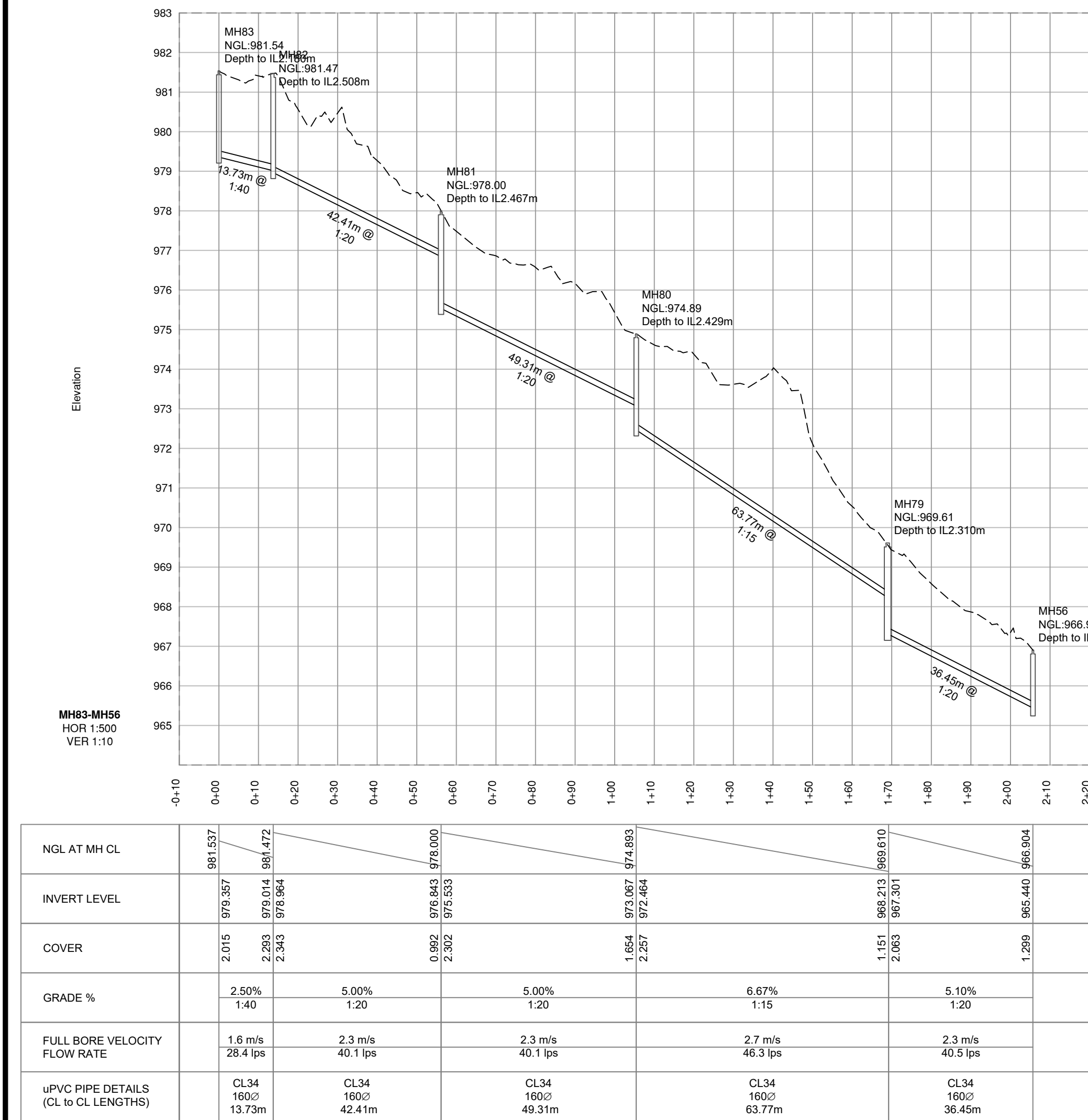
CLIENT _____ DATE _____

PROJECT

UPGRADING OF OKIEP SEWER
NETWORK

SEWER SECTIONS
(SHEET 2 OF 4)

SCALE 1:1000	DATE 9-Nov-22		
ORIGINAL DWG SIZE A0		STAGE	REV NO
DRAWING NUMBER RIB-4662-2001-02		T	2



NOTES

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

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AMENDMENT				
NO	DATE	CHECKED	DONE BY	DESCRIPTION



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e-mail: info@ribicon.com

DESIGNED	DRAWN	CHECKED
TRC	TRC	JA

CONSULTING ENGINEER _____ DATE _____

CLIENT _____ DATE _____

NAMA KHOI LOCAL MUNICIPALITY

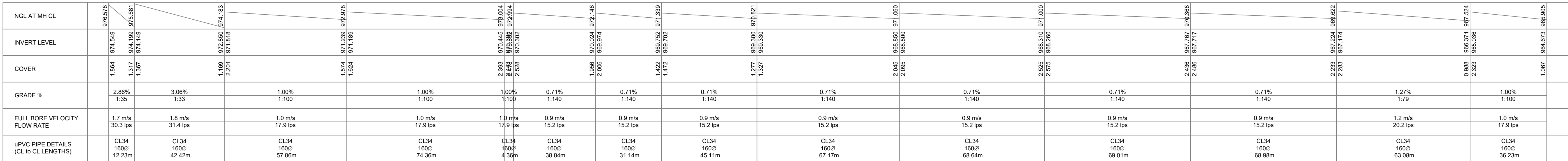
PROJECT

UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

SEWER SECTIONS (SHEET 3 OF 4)

SCALE		DATE	
1:1000		9-Nov-22	
ORIGINAL DWG SIZE A0			
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RIB-4662-2001-03		T	2

NOTES

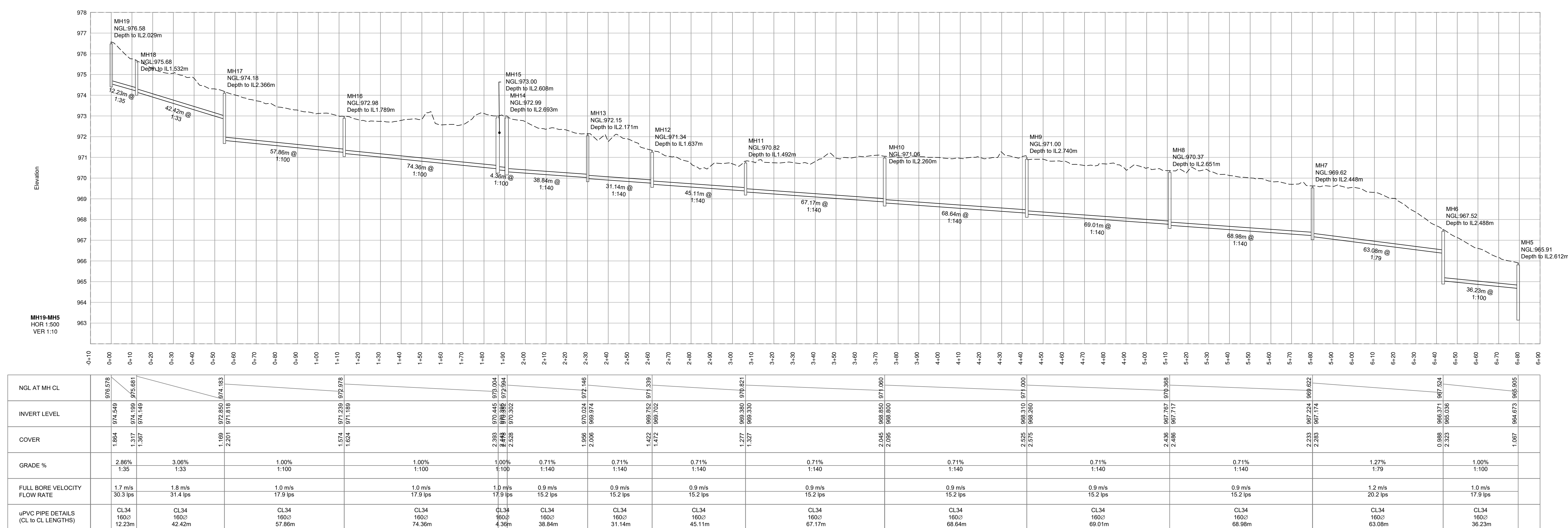
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	REV N 2



SCALE FOR REDUCED PLAN



100mm ON ORIGINAL PLAN

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

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TRC	TRC	JA

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CLIENT

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MUNICIPALITY

PROJECT

UPGRADING OF OKIEP SEWER NETWORK

DRAWING DESCRIPTION

SEWER SECTIONS
(SHEET 5 OF 5)

SCALE	DATE
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9-Nov-22

ORIGINAL DWG SIZE A0			
DRAWING NUMBER	STAGE	REV N	

RIB-4662-2001-05

STAGE	REV N
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