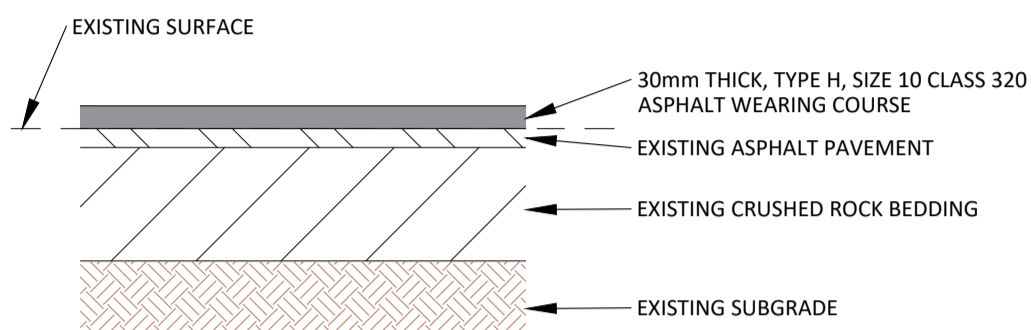
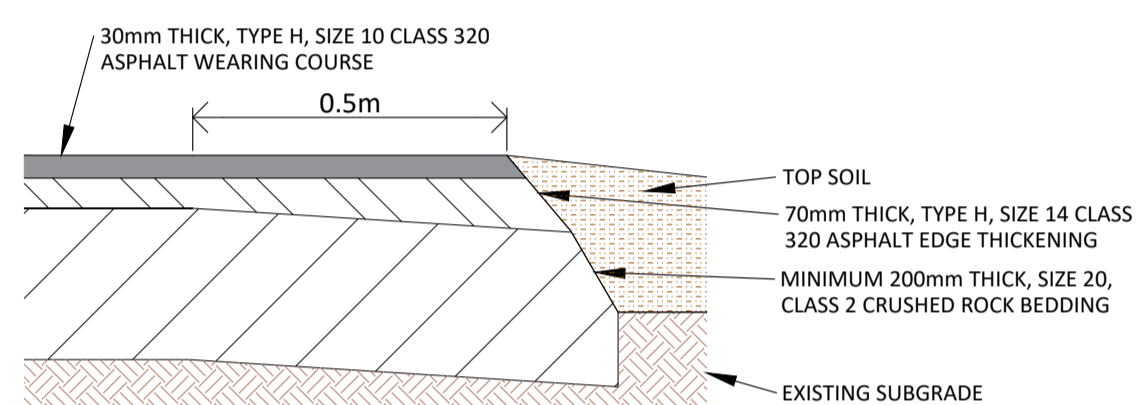


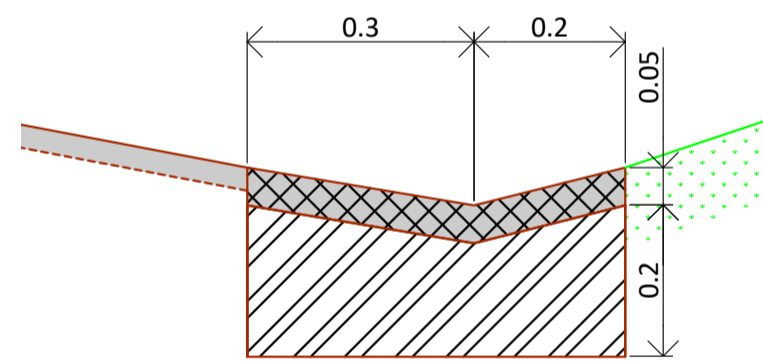
ASPHALT PAVEMENT DETAIL
NOT TO SCALE



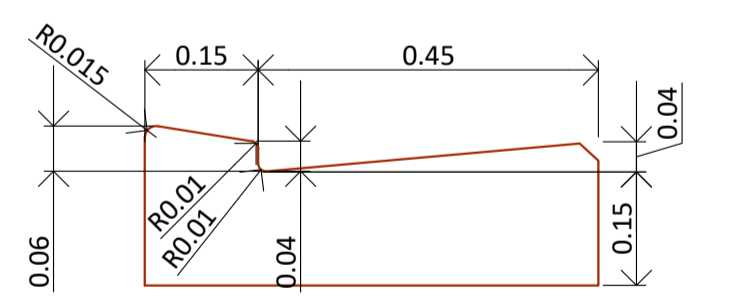
ASPHALT OVERLAY DETAIL
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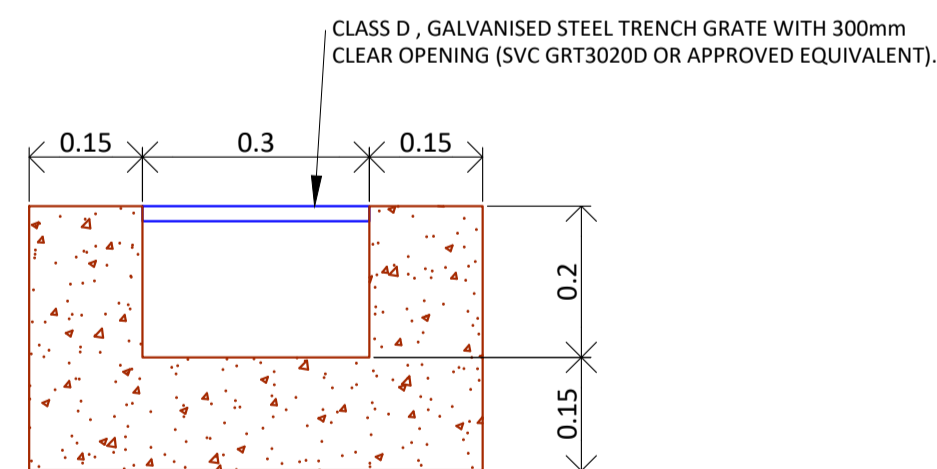
ASPHALT EDGE THICKENING DETAIL
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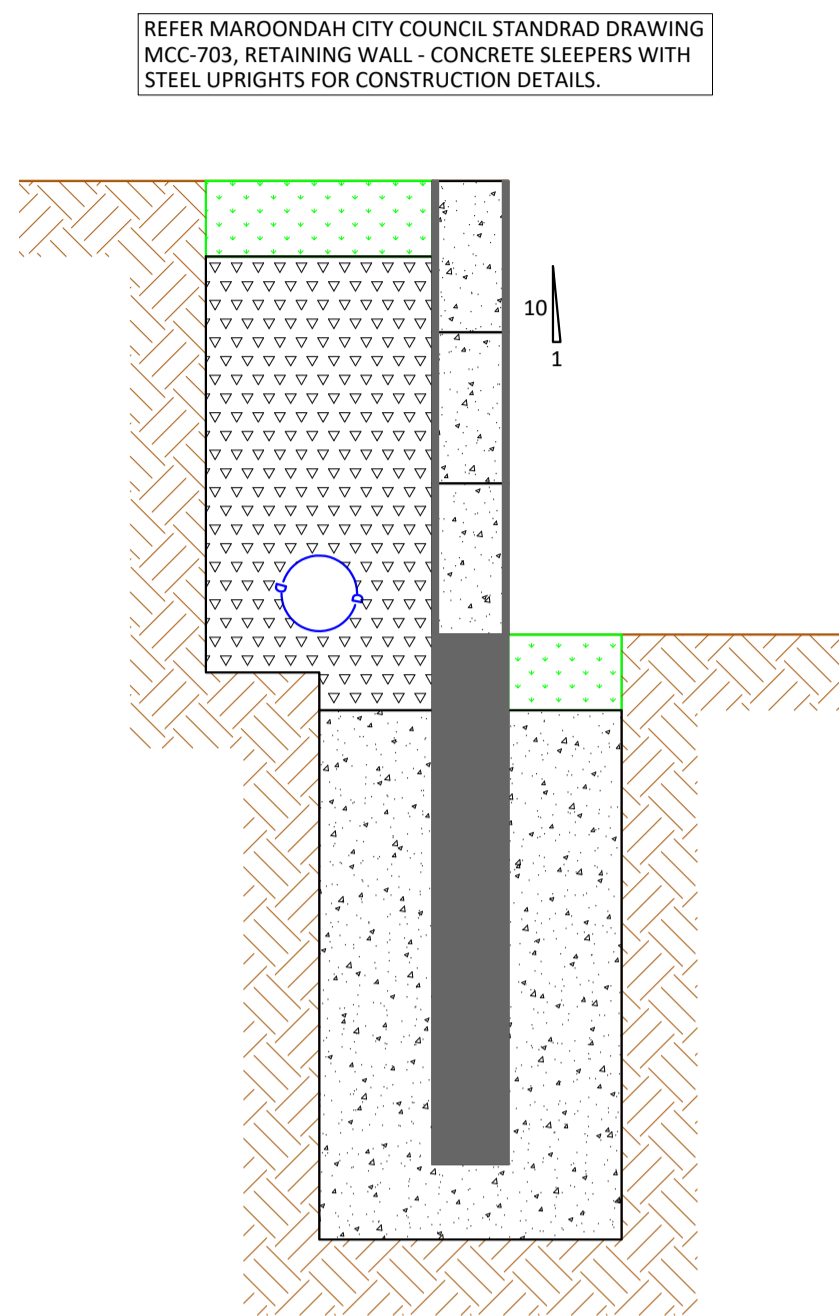
ASPHALT CHANNEL DETAIL
NOT TO SCALE



MODIFIED KERB AND CHANNEL DETAIL
NOT TO SCALE



TRENCH GRATE DETAIL
NOT TO SCALE



RETAINING WALL DETAIL
REFER TO MCC-703
SCALE 1:100

REFER MAROONDAH CITY COUNCIL STANDRAD DRAWING MCC-703, RETAINING WALL - CONCRETE SLEEPERS WITH STEEL UPRIGHTS FOR STEEL UPRIGHT, FOOTING AND SLEEPER DETAILS (TYP).

R.L. 160.200										
CUT/FILL	-0.236									
EDGE OF PATH										
DESIGN SURFACE	163.708	163.708	163.708	163.708	163.708	163.708	163.708	163.708	163.708	163.708
TOP OF WALL										
DESIGN SURFACE	163.363	163.220	163.078	162.935	162.793	162.650	162.508	162.365	162.223	162.081
EDGE OF PATH										
EXISTING SURFACE	163.60	163.62	163.61	163.60	163.52	163.43	163.34	163.25	163.16	163.07
TOE OF WALL										
CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.119	15.417	17.379
										18.382

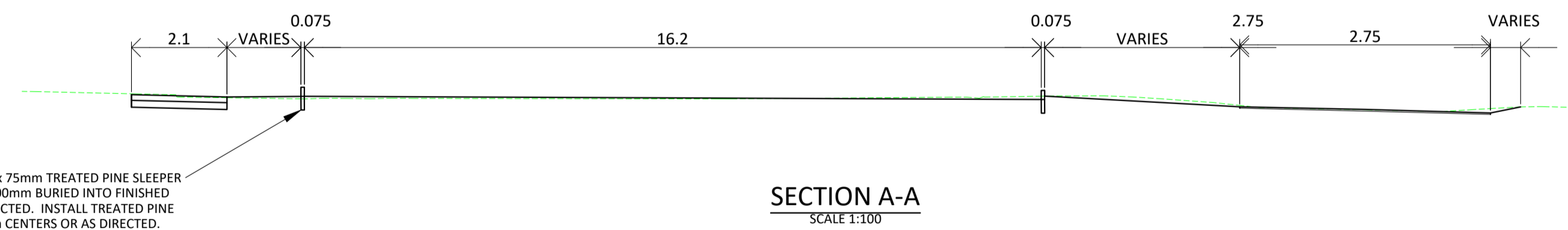
RETAINING WALL 1 LONGITUDINAL SECTION
SCALE 1:100

R.L. 160.000										
CUT/FILL	-0.097	-0.266	-0.125	-0.270	-0.474	-0.702				
EDGE OF PATH/ROAD										
DESIGN SURFACE	162.81	162.81	162.81	162.81	162.81	162.81	162.81	162.81	162.81	162.81
TOP OF WALL										
DESIGN SURFACE	162.795	162.468	162.104	161.811	161.938	161.900	161.900	161.900	161.900	161.900
EDGE OF PATH/ROAD										
EXISTING SURFACE	162.89	162.73	162.23	162.08	162.41	161.938	162.61	162.61	162.61	162.61
TOP OF WALL										
CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000				

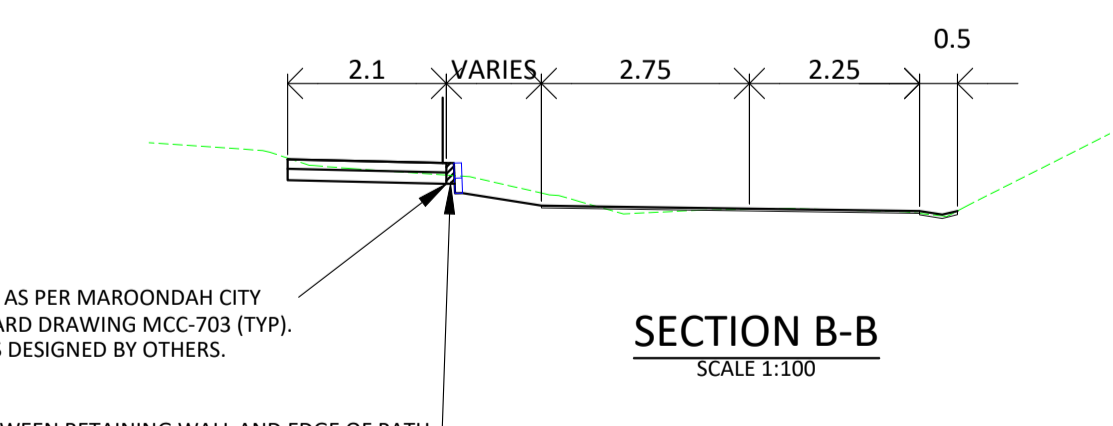
RETAINING WALL 2 LONGITUDINAL SECTION
SCALE 1:100

R.L. 161.600										
TOE OF WALL										
CUT / FILL										
DESIGN SURFACE										
TOE OF WALL										
DESIGN SURFACE										
TOP OF WALL										
DESIGN SURFACE										
EDGE OF PATH										
EXISTING SURFACE										
TOE OF WALL										
CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	10.010	12.000	12.010	14.000

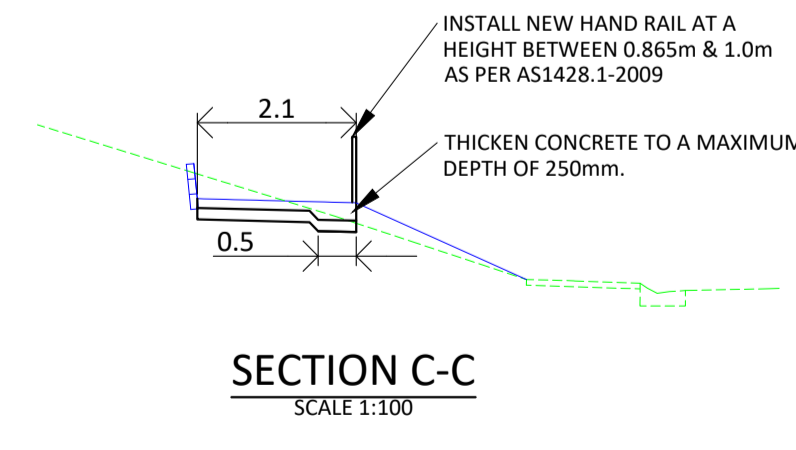
RETAINING WALL 3 LONGITUDINAL SECTION
SCALE 1:100



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100



SECTION C-C
SCALE 1:100



LEGEND

CONCRETE PAVING	TABLE DRAIN	WATERMAIN & FITTING	EX TREE OR SHRUB
ASPHALT OVERLAY	EX DRAIN & PIT	GASMAIN & FITTING	
FENCE LINE	PROP DRAIN & PIT	PHONE CABLE & PIT	
EX & PROP LEVELS	SEWER & PIT	LIGHT POLE	
EX & PROP CONTOURS	O'HEAD ELEC LINE & POLE	CENTRE LINE	
HOUSE DRAIN	U'GRND ELEC CABLE & PIT	TRAVERSE LINE	
		TBM	

NOTES AND AMENDMENTS

MAROONDAH CITY COUNCIL

CIVIL DESIGN PTY LTD
M: 0433 322 258
E: Kanchana.Withana@CivilDesign.com.au

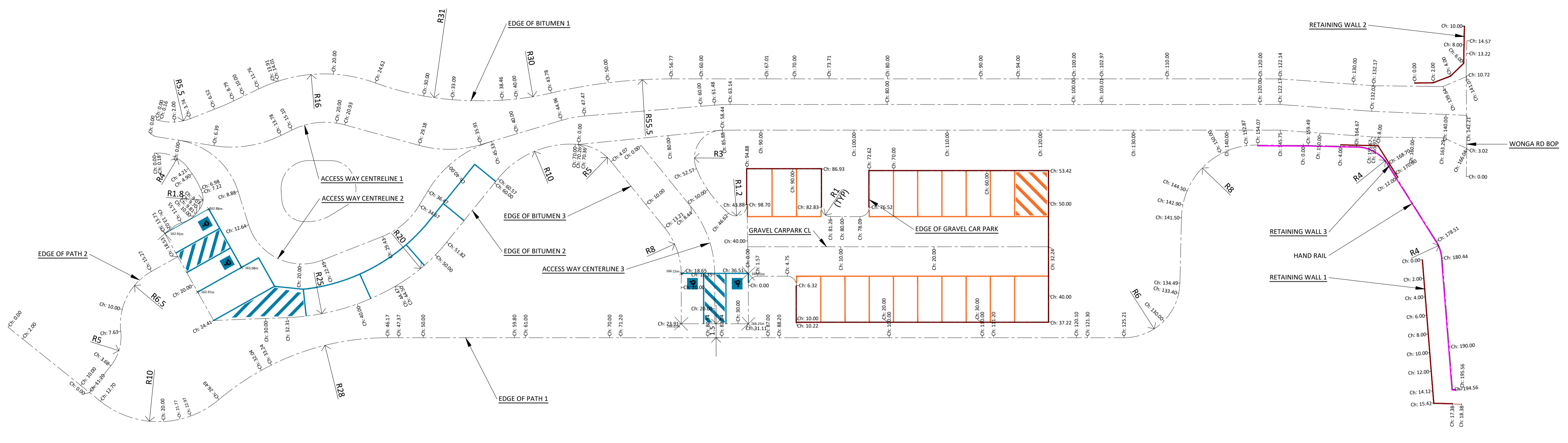
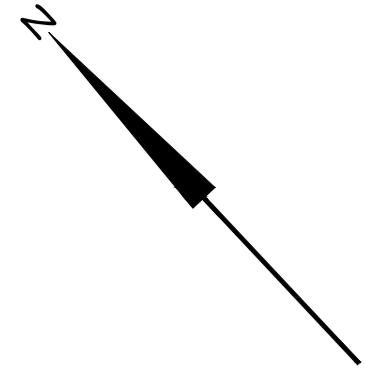
MALPIN RESERVE, RINGWOOD NORTH CARPARK AND PEDESTRIAN ACCESS WORKS

DETAIL PLAN

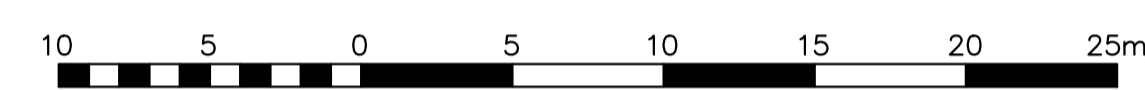
PROJ 016
CONTRACT - 016

SCALE: AS SHOWN
DATUM: A.H.D.

2 OF 11



SETOUT PLAN



SET OUT - ACCESS WAY CENTRELINE 1				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
6.39	345403.985	5815940.597	162.708	162.678
13.78	345409.987	5815936.489	163.065	163.035
15.10	345411.259	5815936.106	163.118	163.088
20.00	345415.241	5815933.392	163.359	163.329
20.93	345415.774	5815932.627	163.405	163.375
29.18	345420.087	5815925.592	163.860	163.830
35.91	345424.990	5815921.112	164.207	164.177
40.00	345428.652	5815919.298	164.425	164.395
44.96	345433.097	5815917.096	164.784	164.754
47.47	345435.213	5815915.756	164.934	164.904
60.00	345445.042	5815907.985	165.581	165.551
61.48	345446.204	5815907.066	165.669	165.639
63.14	345447.463	5815905.983	165.771	165.741
80.00	345459.773	5815894.466	166.664	166.604
100.00	345474.378	5815880.803	166.512	166.571
103.01	345476.578	5815878.745	166.409	166.390
120.00	345488.984	5815867.139	165.037	165.030
122.17	345490.565	5815865.660	164.801	164.673
130.00	345495.878	5815859.902	163.737	163.716
132.02	345497.250	5815858.415	163.516	163.453
135.00	345499.334	5815856.290	163.023	162.975
137.83	345501.315	5815854.269	162.554	162.608
140.00	345502.834	5815852.719	162.194	162.338
142.21	345504.382	5815851.140	161.878	162.078

SET OUT - ACCESS WAY CENTRELINE 2				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
8.88	345402.527	5815935.244	162.944	162.914
12.64	345400.901	5815931.856	163.041	163.041
22.49	345404.102	5815923.682	163.546	163.516
29.43	345410.557	5815921.127	163.778	163.748
34.67	345415.704	5815920.874	163.900	163.870
36.47	345417.427	5815921.367	163.926	163.896
40.00	345420.917	5815921.830	164.021	163.991

SET OUT - ACCESS WAY CENTRELINE 3				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
0.00	345437.493	5815909.306	165.255	165.211
8.44	345436.894	5815900.883	165.888	165.931
20.00	345431.297	5815891.112	166.183	166.075

SET OUT - GRAVEL CARPARK CENTRELINE				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
10.00	345445.715	5815886.714	166.700	166.587
20.00	345453.017	5815879.882	166.993	166.961
32.24	345461.959	5815871.517	166.956	167.006

SET OUT - RETAINING WALL 1				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
0.00	345490.362	5815843.034	163.335	163.599
2.00	345489.115	5815841.470	163.198	163.615
4.00	345487.869	5815839.906	163.062	163.606
6.00	345486.623	5815838.341	162.925	163.602
8.00	345485.377	5815836.777	162.788	163.517
10.00	345484.131	5815835.213	162.652	163.434
12.00	345482.884	5815833.649	162.515	163.400
14.12	345481.564	5815831.991	162.370	163.303
15.42	345480.755	5815830.976	162.370	163.340
17.38	345482.161	5815829.608	162.370	162.648
18.38	345482.879	5815828.909	162.297	162.297

SET OUT - RETAINING WALL 2				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
0.00	345502.655	5815857.445	162.795	162.892
2.00	345504.141	5815856.106	162.468	162.734
4.00	345505.991	5815855.348	162.104	162.229
6.00	345507.991	5815855.387	161.811	162.081
8.00	345509.387	5815856.819	161.938	162.412
10.00	345510.783	5815858.251	161.900	162.602

SET OUT - RETAINING WALL 3				
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL	EXISTING LEVEL
4.00	345492.358	5815858.074	164.504	164.357
8.01	345495.225	5815855.217	164.307	163.734
12.00	345494.469	5815851.290	163.978	163.751

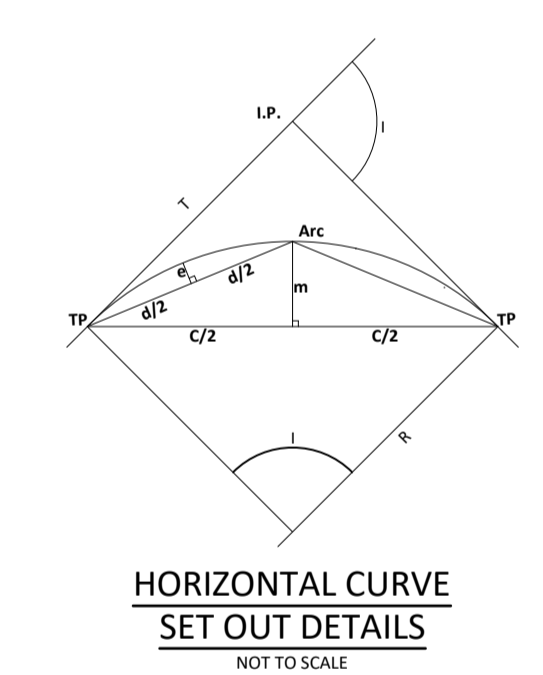
ACCESS WAY CENTRELINE 1 CURVE SET OUT TABLE								
CURVE	R(m)	l(deg,mm:ss)	ARC(m)	T(m)	C/2 (m)	m(m)	d/2(m)	Et(m)
HC1 (CH: 6.39 - 13.78)	12.00	35°16'51"	7.389	3.816	3.637	0.564	1.840	0.14
HC2 (CH: 15.10 - 20.93)	8.00	41°44'2"	5.827	3.050	2.850	0.525	1.449	0.13
HC3 (CH: 29.18 - 35.91)	12.00	32°7'51"	6.729	3.456	3.321	0.469	1.677	0.12
HC4 (CH: 44.96 - 47.47)	12.00	11°58'45"	2.509	1.259	1.252	0.066	0.627	0.02
HC5 (CH: 61.48 - 63.14)	20.00	4°45'32"	1.661	0.831	0.830	0.017	0.415	0.00

ACCESS WAY CENTRELINE 2 CURVE SET OUT TABLE								
CURVE	R(m)	l(deg,mm:ss)	ARC(m)	T(m)	C/2 (m)	m(m)	d/2(m)	Et(m)
HC6 (CH: 0.00 - 8.88)	8.00	63°36'1"	8.880	4.960	4.216	1.201	2.192	0.306
HC7 (CH: 12.64 - 22.49)	6.00	94°2'24"	9.848	6.439	4.390	1.910	2.393	0.498
HC8 (CH: 29.43 - 34.67)	8.00	37°34'22"	5.246	2.721	2.576	0.426	1.306	0.107
HC9 (CH: 36.47 - 45.33)	12.00	42°19'53"	8.866	4.646	4.333	0.810	2.204	0.204

ACCESS WAY CENTRELINE 3 CURVE SET OUT TABLE								
CURVE	R(m)	l(deg,mm:ss)	ARC(m)	T(m)	C/2 (m)	m(m)	d/2(m)	Et(m)
HC10 (CH: 8.44 - 16.35)	11.60	39°1'30"	7.901	4.111	3.875	0.666	1.966	0.168

EDGE OF PATH 1 CURVE SET OUT TABLE								
CURVE	R(m)	l(deg,mm:ss)	ARC(m)	T(m)	C/2 (m)	m(m)	d/2(m)	Et(m)
HC11 (CH: 12.70 - 26.49)	10.00	79°0'53"	13.791	8.246	6.362	2.285	3.380	0.588
HC12 (CH: 26.49 - 46.17)	28.00	40°17'17"	19.688	10.271	9.643	1.713	4.897	0.432
HC13 (CH: 125.21 - 134.49)	6.00	88°39'2"	9.283	5.860	4.192	1.708	2.263	0.443
HC14 (CH: 141.50 - 154.07)	8.00	90°0'14"	12.567	8.001	5.657	2.343	3.062	0.609
HC15 (CH: 164.67 - 168.70)	4.00	57°43'2"	4.029	2.204	1.931	0.497	0.997	0.126
HC16 (CH: 178.51 - 180.44)	4.00	27°37'22"	1.928	0.983	0.955	0.116	0.481	0.029

EDGE OF PATH 2 CURVE SET OUT TABLE								
CURVE	R(m)	l(deg,mm:ss)	ARC(m)	T(m)	C/2 (m)	m(m)	d/2(m)	Et(m)
HC17 (CH: 3.68 - 7.63)	6.50	67°18'58"	7.637	4.328	3.603	1.090	1.882	0.278
HC18 (CH: 15.27 - 18.53)	5.00	45°18'45"	3.954	2.087	1.926	0.386	0.982	0.097



HORIZONTAL CURVE SET OUT DETAILS
NOT TO SCALE

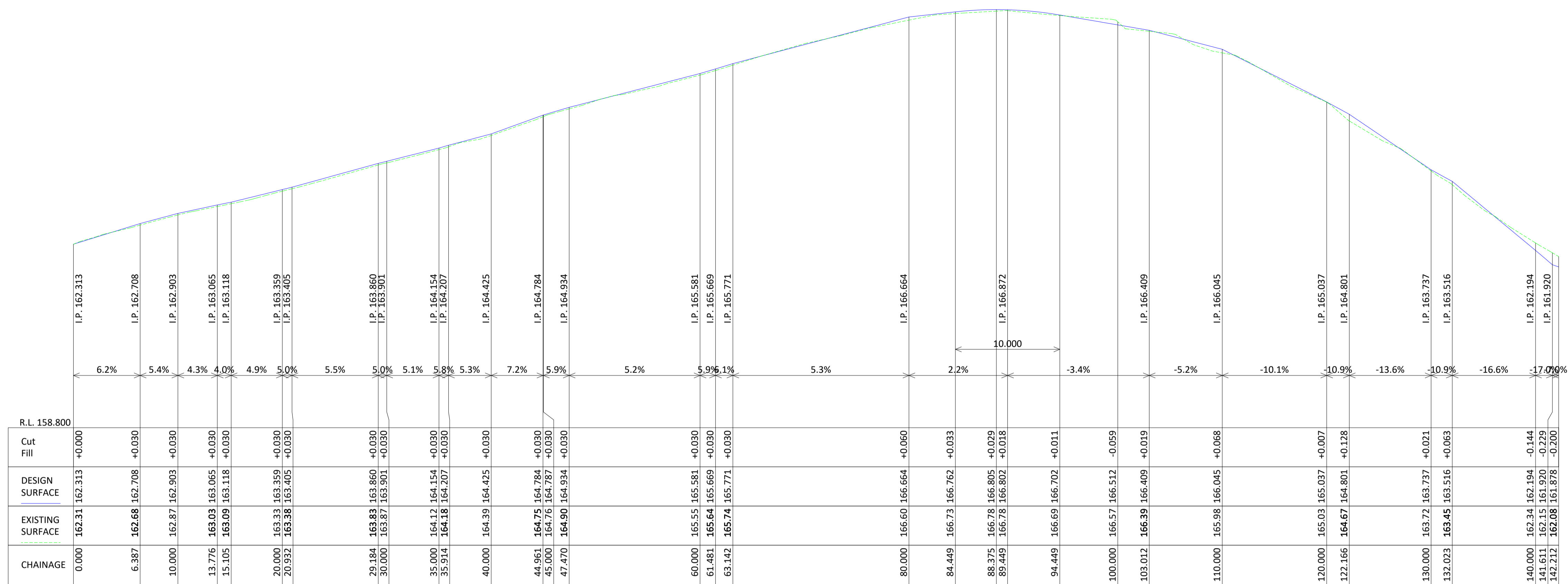


LEGEND

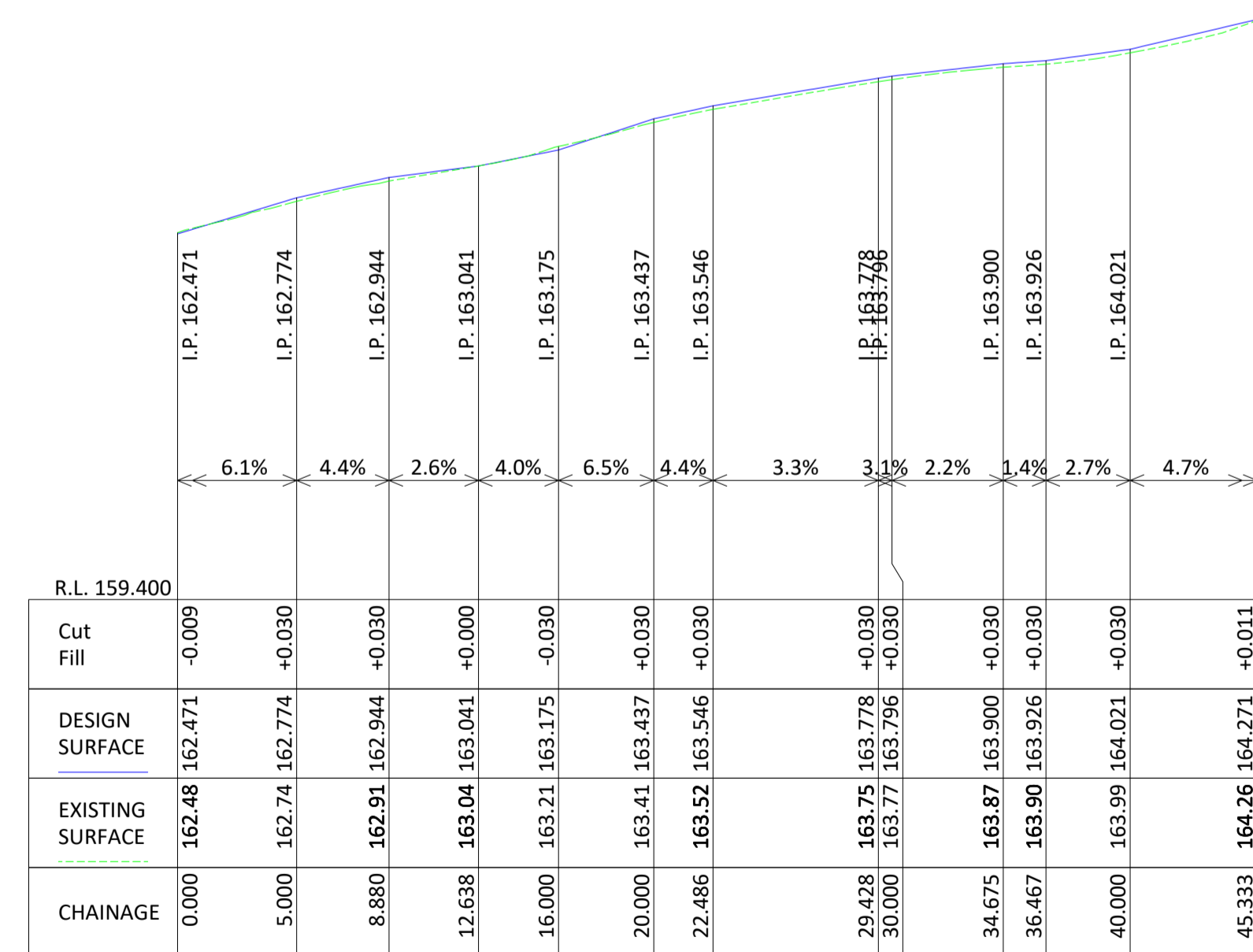
CONCRETE PAVING	TABLE DRAIN	WATERMAIN & FITTING	W	EX TREE OR SHRUB
ASPHALT OVERLAY	EX DRAIN & PIT	GASMAIN & FITTING	G	T
FENCE LINE	PROP DRAIN & PIT	PHONE CABLE & PIT	S	TR
EX & PROP LEVELS	SEWER & PIT	LIGHT POLE	OHE	TBM
EX & PROP CONTOURS	O'HEAD ELEC LINE & POLE	CENTRE LINE	E	TRAVVERSE LINE
HOUSE DRAIN	U'GRND ELEC CABLE & PIT			

NOTES AND AMENDMENTS

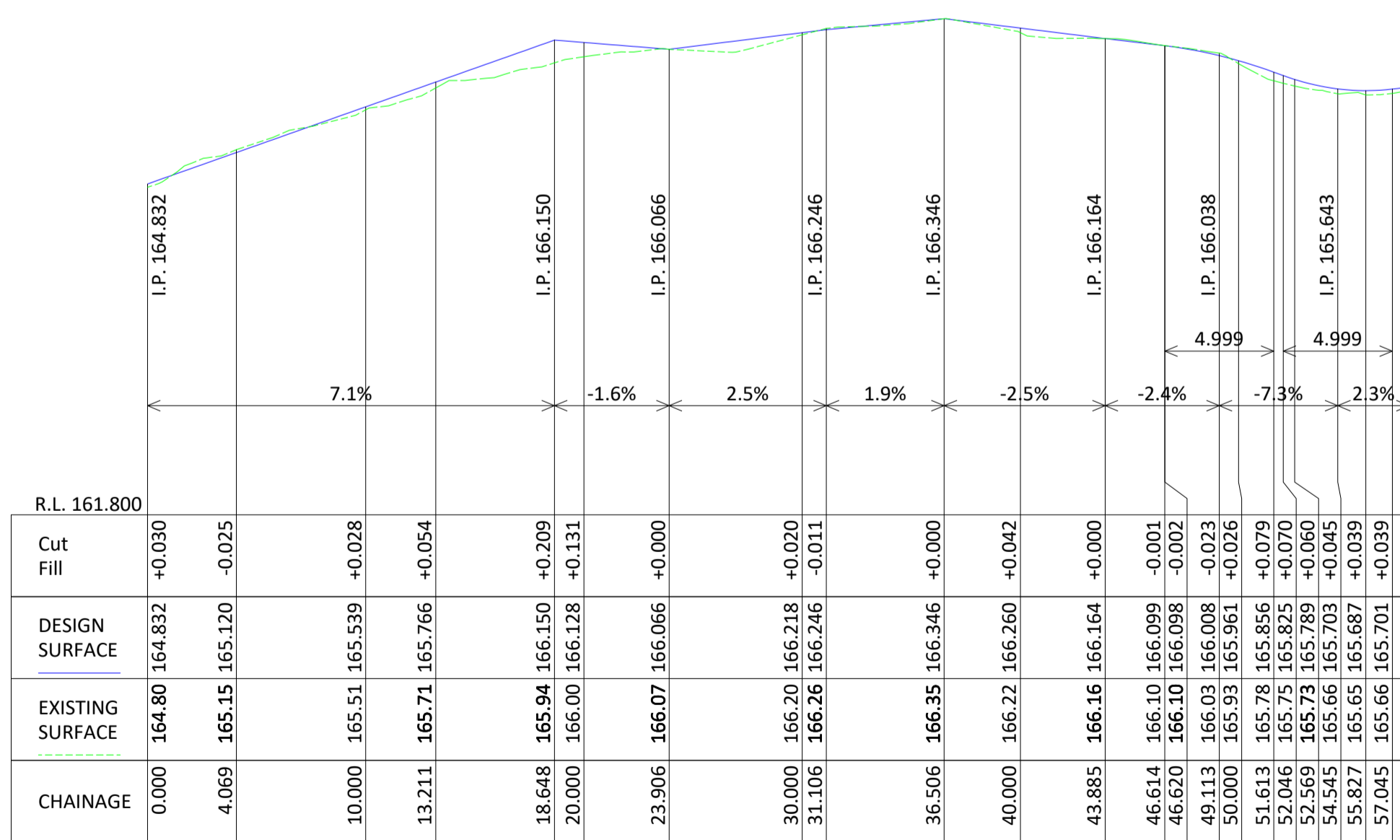
	MAROONDAH CITY COUNCIL		CIVIL DESIGN PTY LTD M: 0433 322 258 E: Kanchana.Withana@CivilDesign.com.au	
	MCALPIN RESERVE, RINGWOOD NORTH CARPARK AND PEDESTRIAN ACCESS WORKS SETOUT AND LINE MARKING PLAN			
SURVEY: SC DATE: FEB'19 DESIGNED: CD DATE: MAY'20 CD016-T-VOL(2).dwg	SCALE: AS SHOWN	DATUM: A.H.D	PROJ 016 CONTRACT - ----	3 OF 11 016



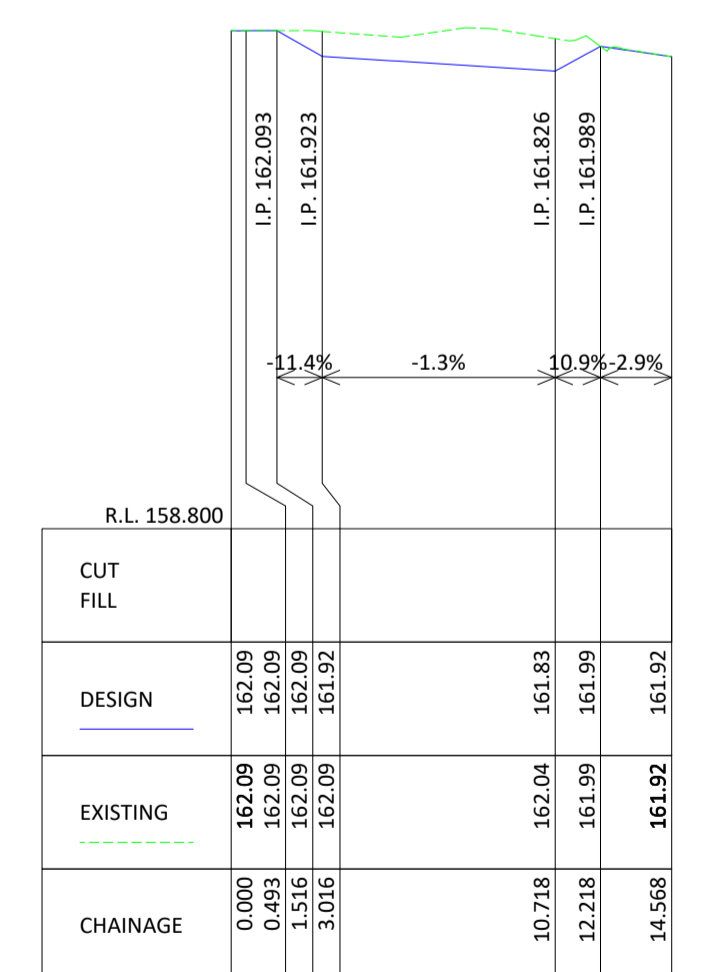
ACCESS WAY CENTRELINE 1 LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



ACCESS WAY CENTRELINE 2 LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



EDGE OF BITUMEN 3 LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



WONGA RD BOP LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



CONTRACTOR MUST DIAL 1100 TO CONFIRM LOCATION OF EXISTING SERVICES AND COMPLY WITH ANY AUTHORITY REQUIREMENTS REGARDING EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.

LEGEND

- CONCRETE PAVING
- ASPHALT OVERLAY
- FENCE LINE
- EX & PROP LEVELS
- EX & PROP CONTOURS
- HOUSE DRAIN
- TABLE DRAIN
- EX DRAIN & FITTING
- PROP DRAIN & PIT
- SEWER & PIT
- O'HEAD ELEC LINE & POLE
- U'GRND ELEC CABLE & PIT
- WATERMAIN & FITTING
- GASMAIN & FITTING
- PHONE CABLE & PIT
- LIGHT POLE
- CENTRE LINE
- TRAVERSE LINE
- EX TREE OR SHRUB
- TREE TO BE REMOVED
- TBM

NOTES AND AMENDMENTS

maroondah
 City Council

SURVEY: SC
 DATE: FEB'19
 DESIGNED: CD
 DATE: MAY'20
 CD016-T-VOL(2).dwg

CHECKED:
 DATE:

MAROONDAH CITY COUNCIL

MCALPIN RESERVE,
 RINGWOOD NORTH
 CARPARK AND PEDESTRIAN ACCESS WORKS
 LONGITUDINAL SECTIONS SH1

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 E: Kanchana.Withana@CivilDesign.com.au

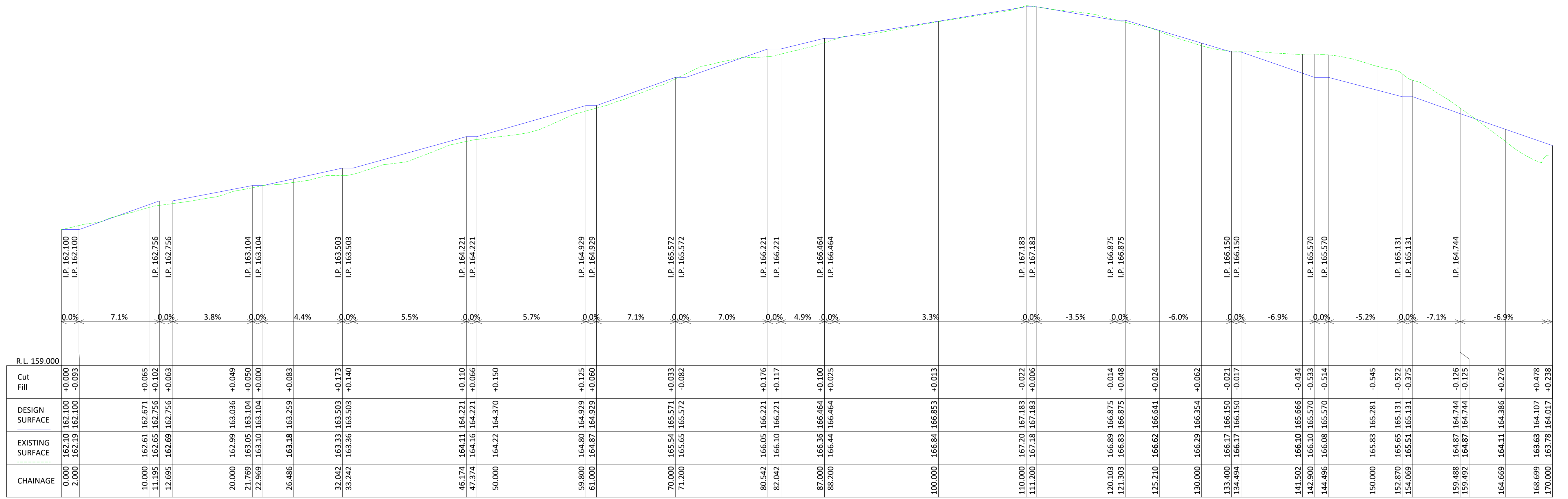


PROJ 016

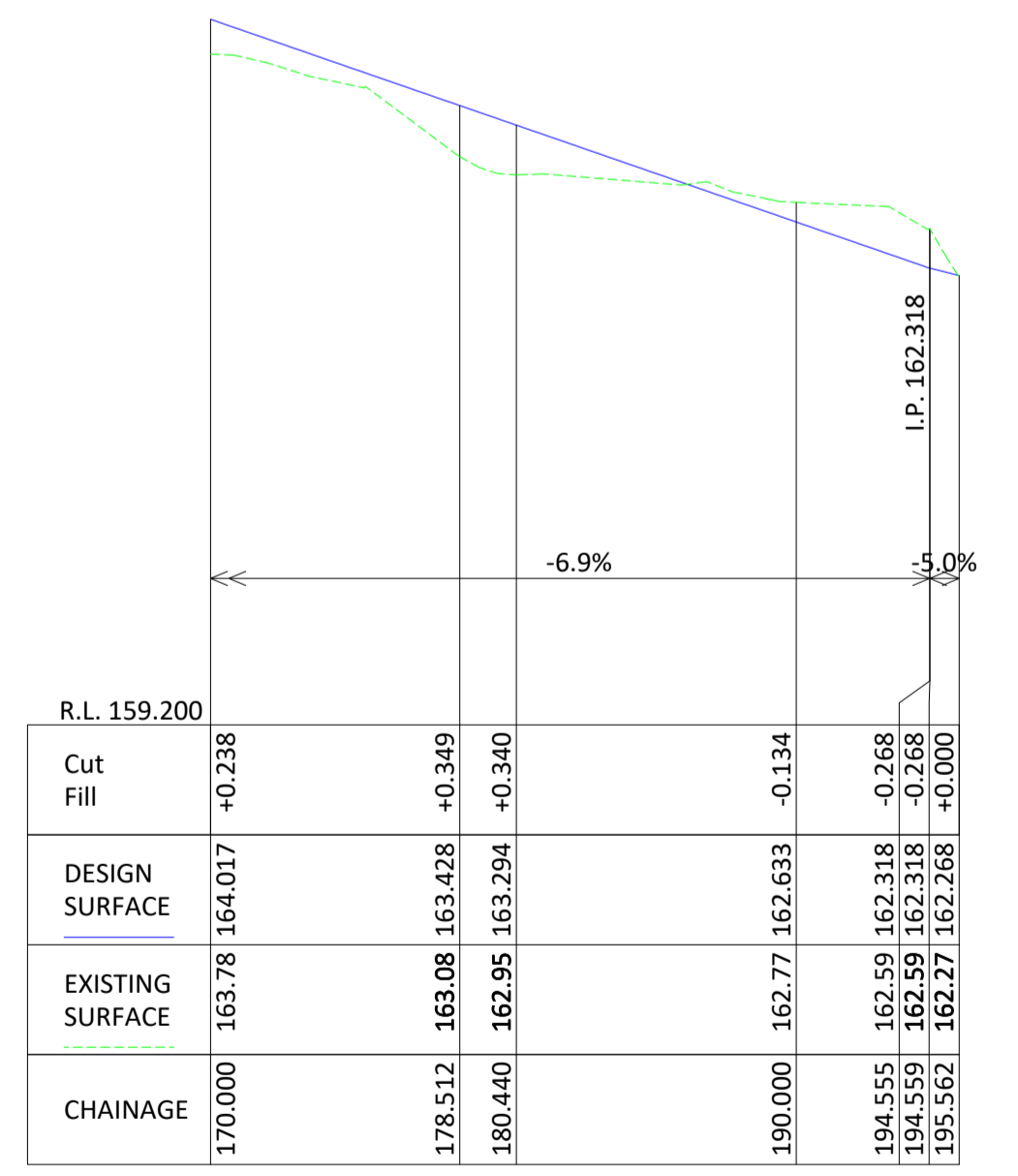
CONTRACT - ----

SCALE: AS SHOWN
 DATUM: A.H.D

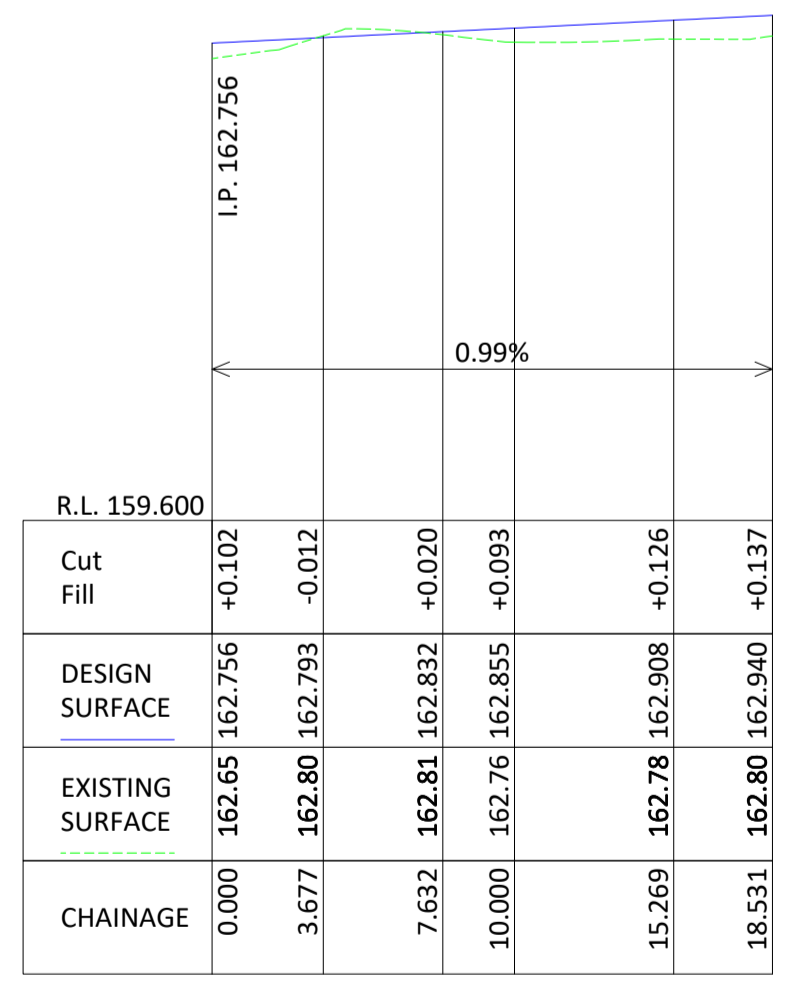
5 OF 11
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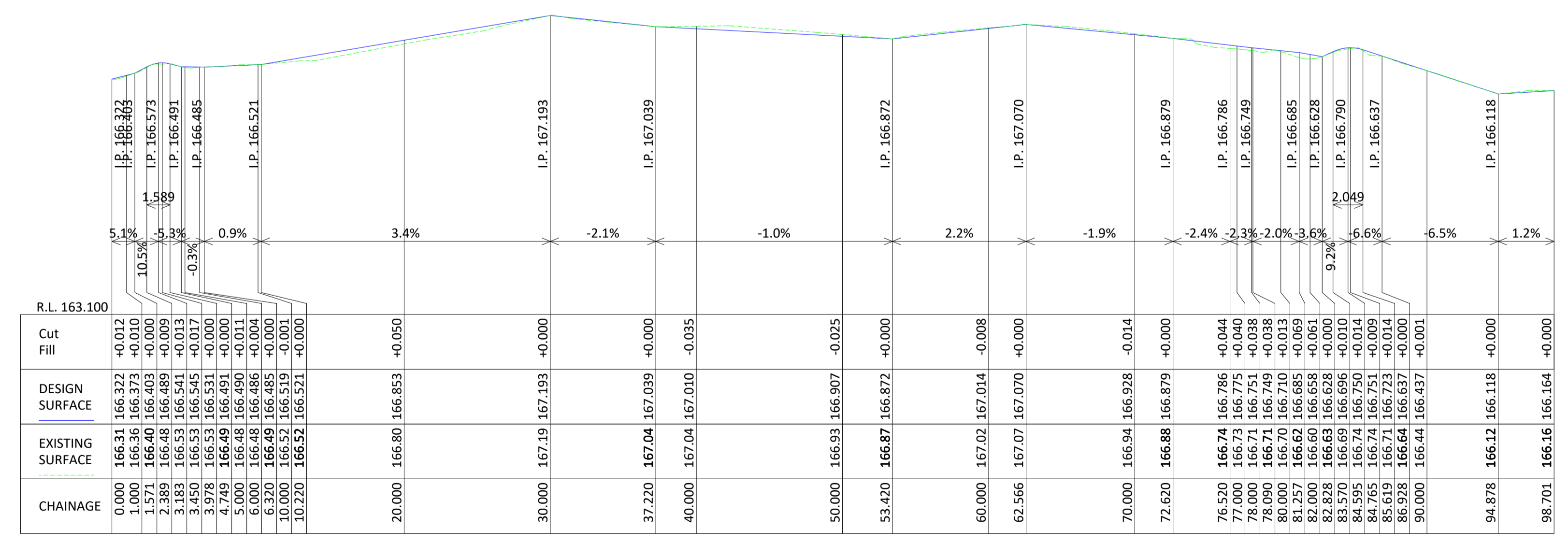
EDGE OF PATH 1 (CH:0.00 - 170.00) LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



EDGE OF PATH 1 (CH:170.00 - 193.94) LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



EDGE OF PATH 2 LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



EDGE OF GRAVEL CAR PARK LONGITUDINAL SECTION
 SCALES 1:250 HOR 1:50 VER



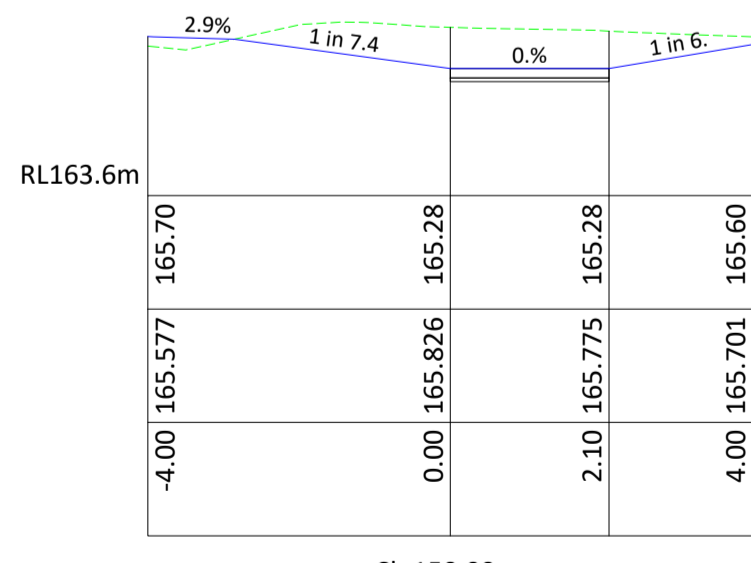
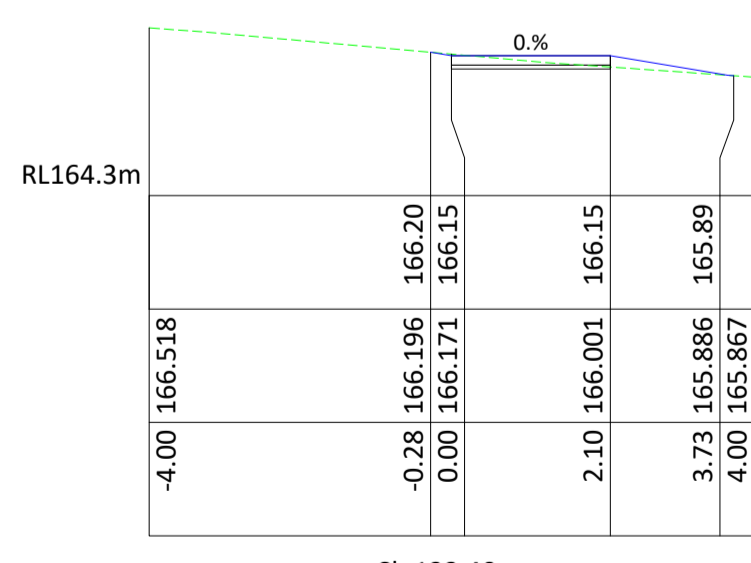
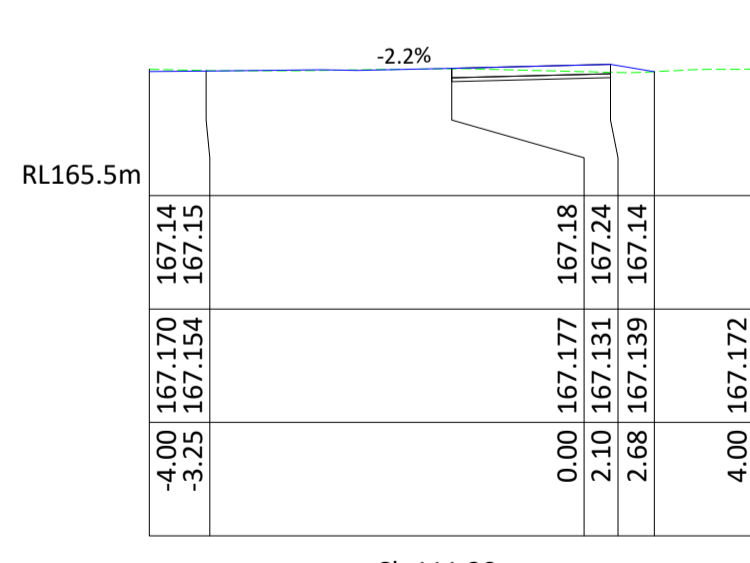
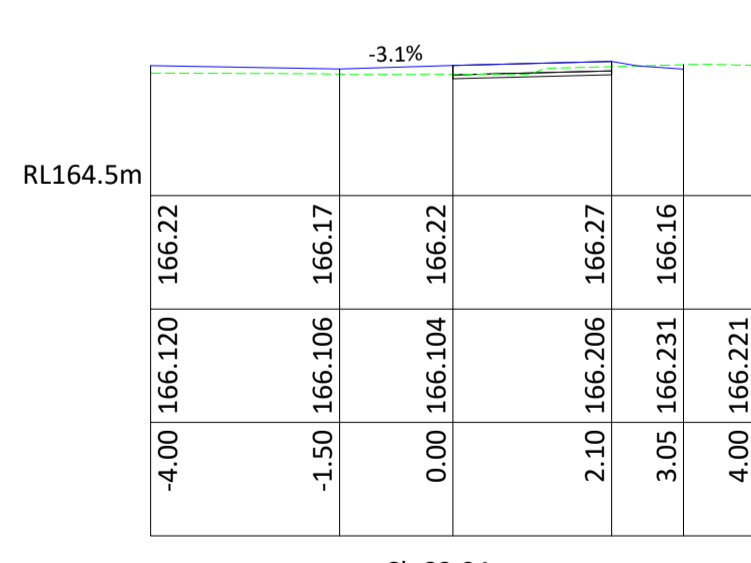
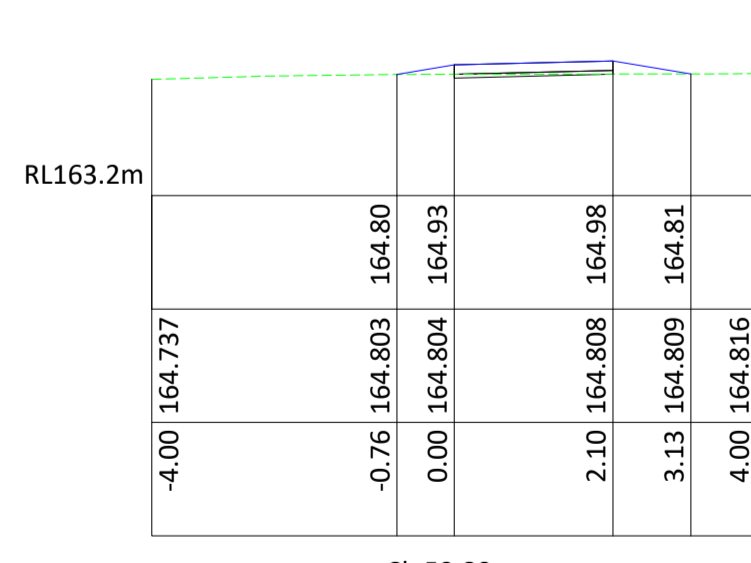
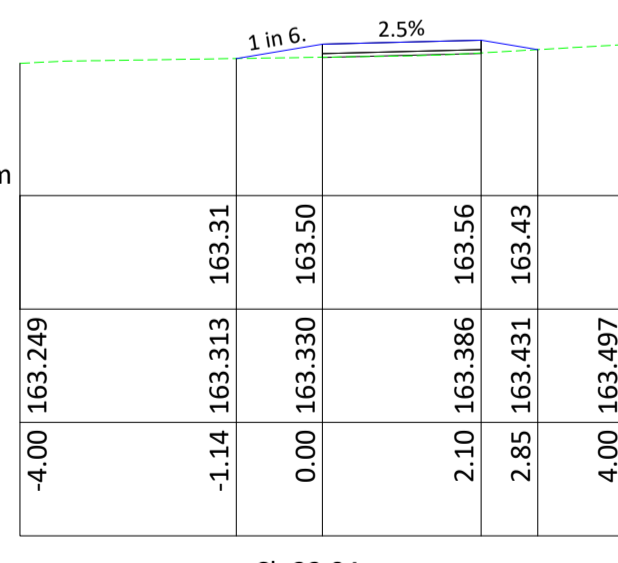
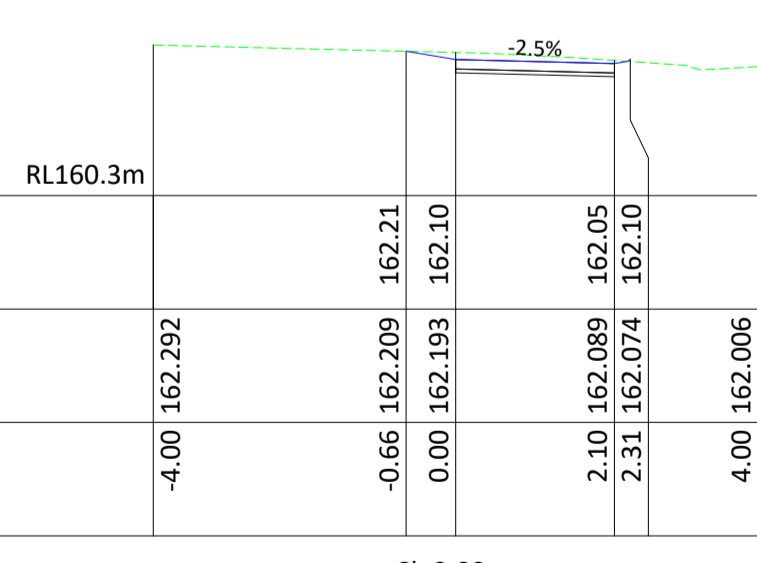
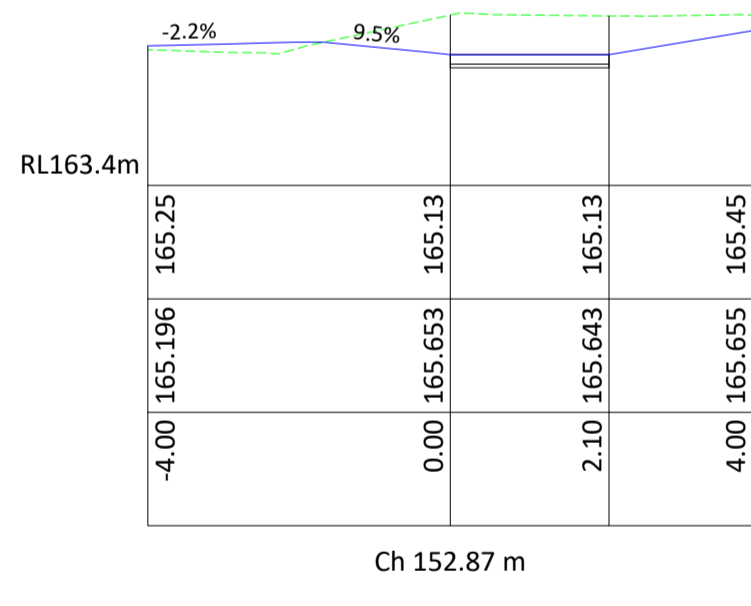
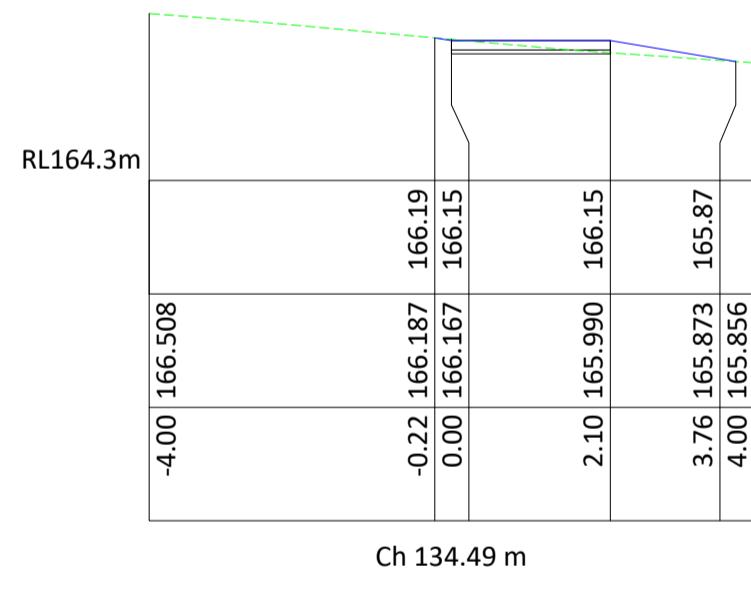
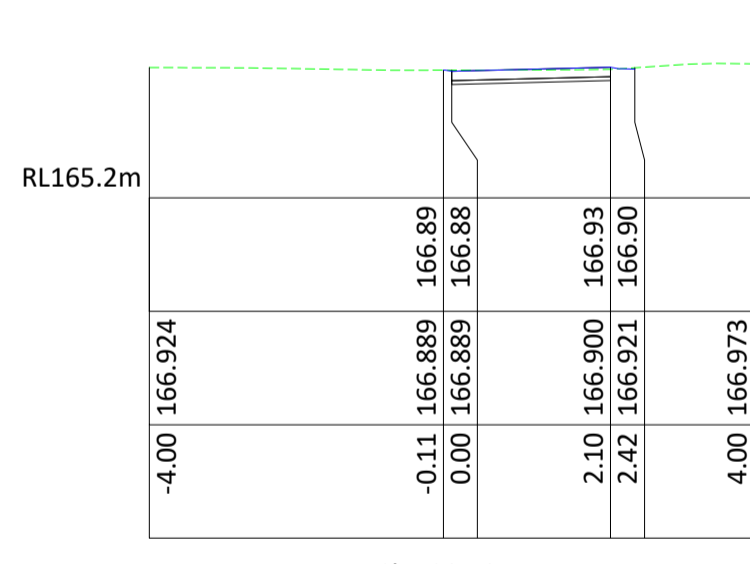
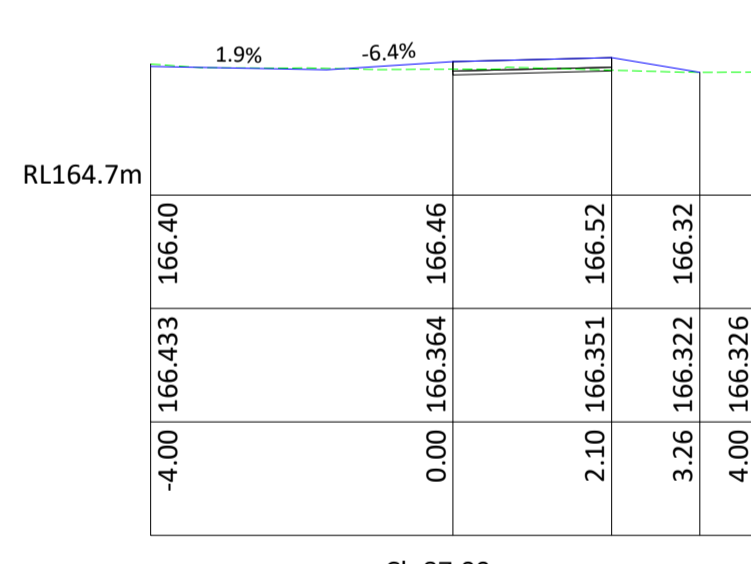
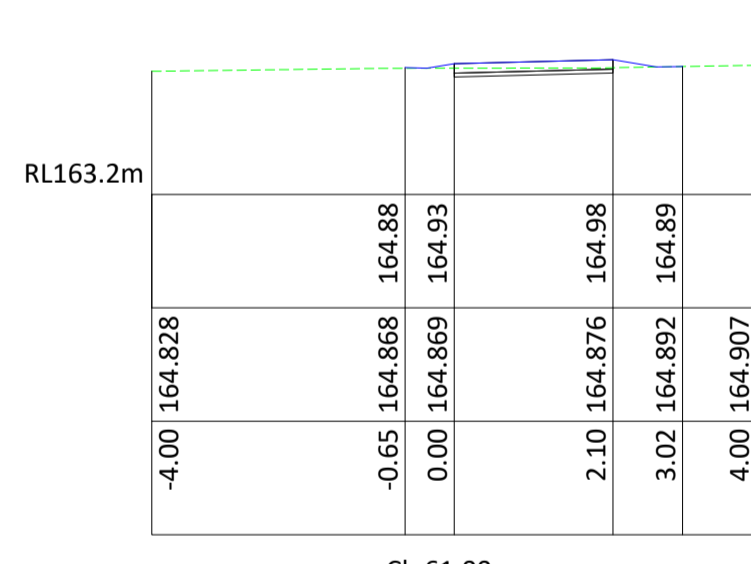
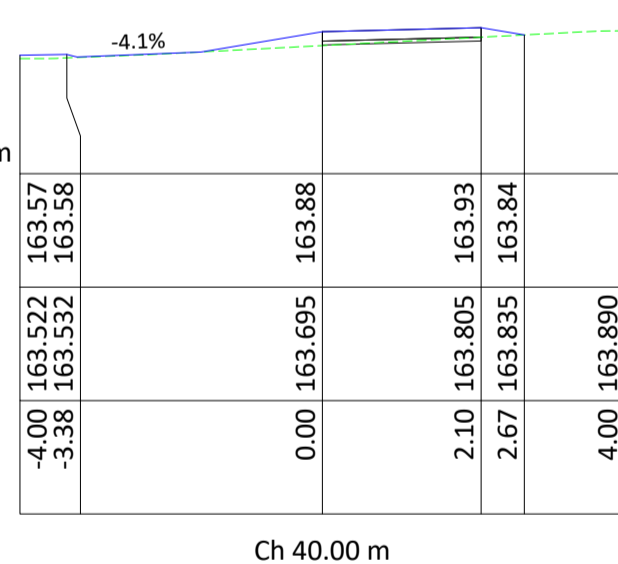
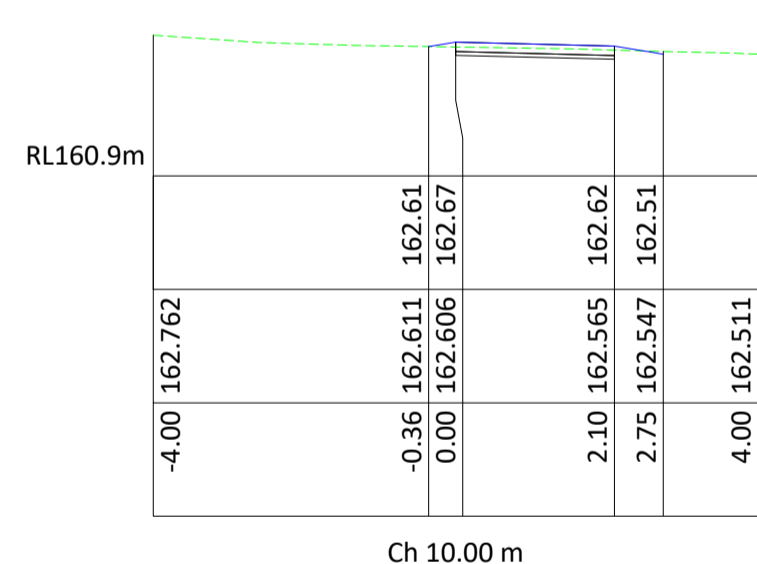
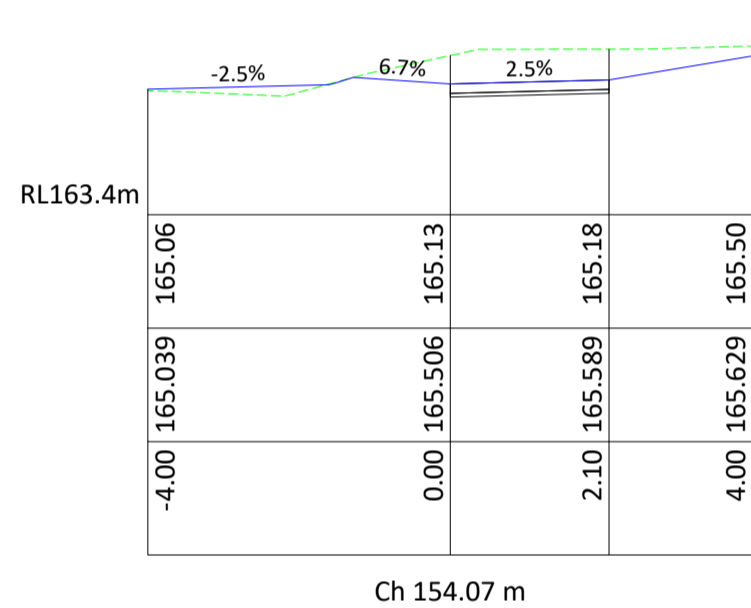
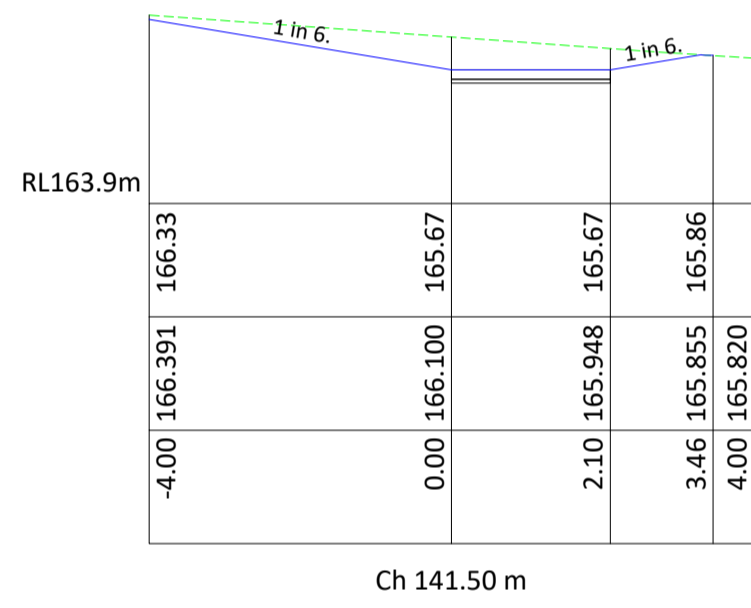
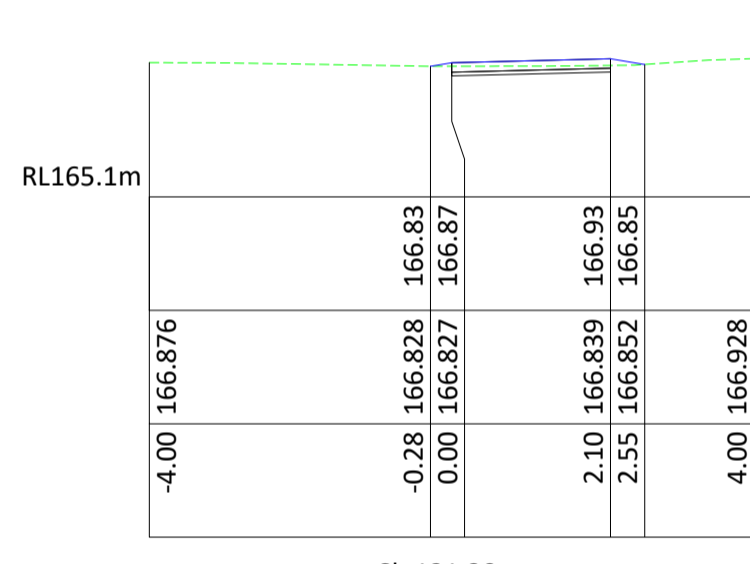
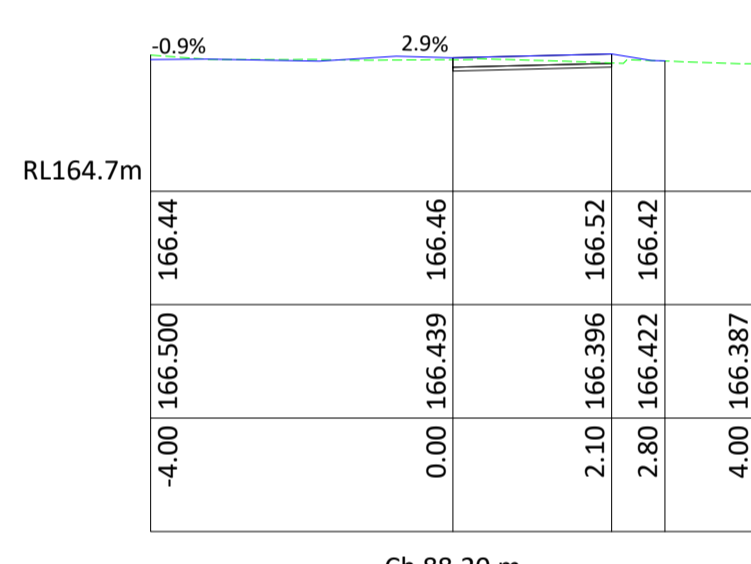
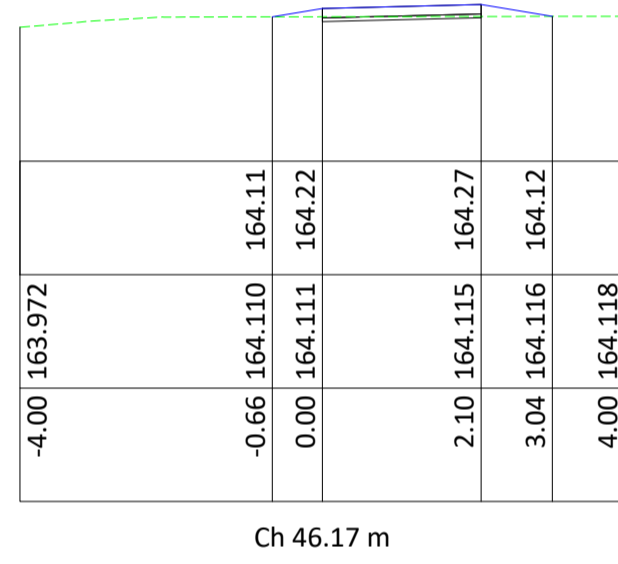
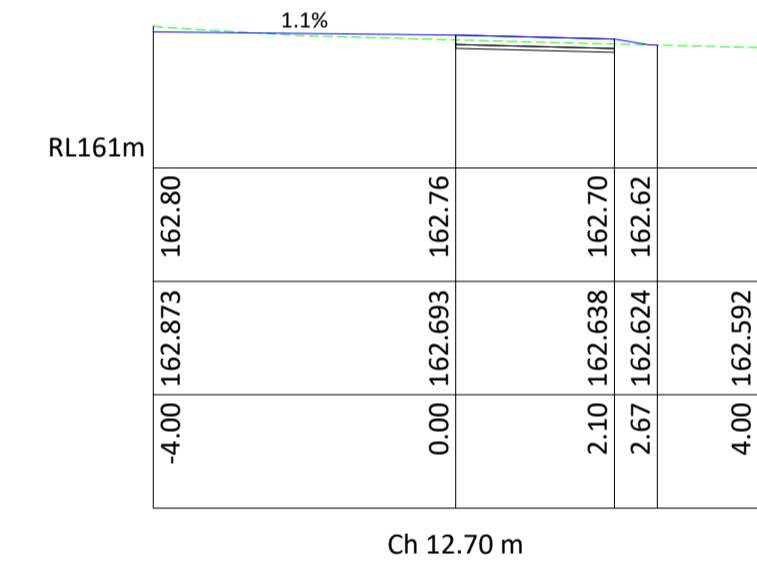
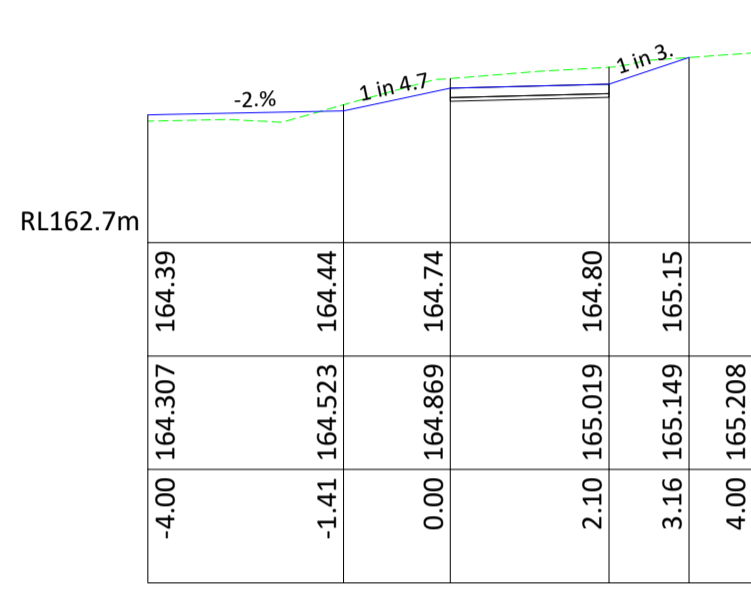
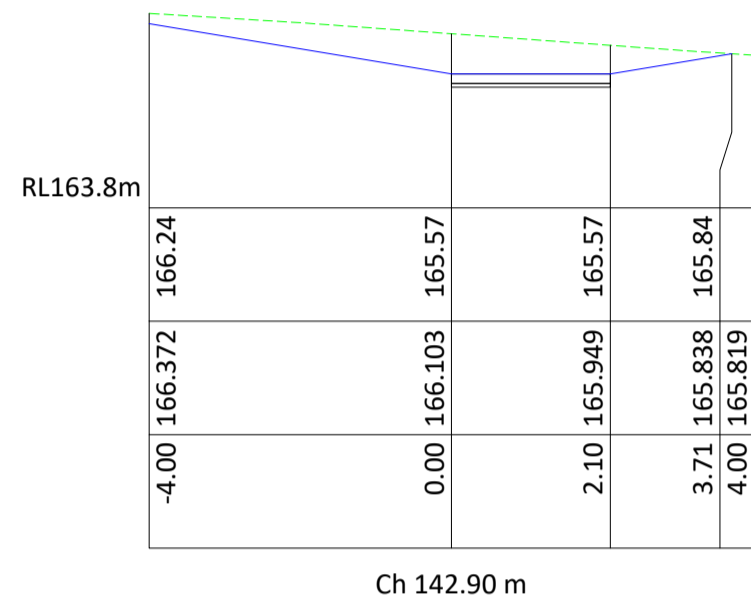
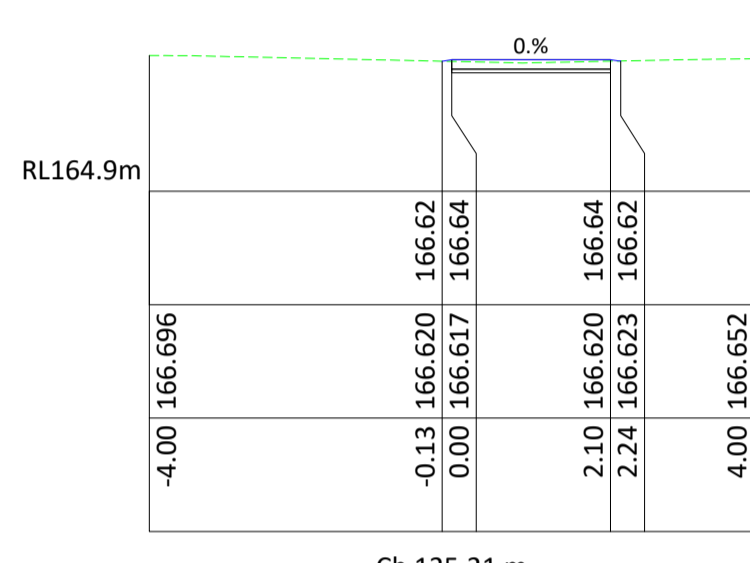
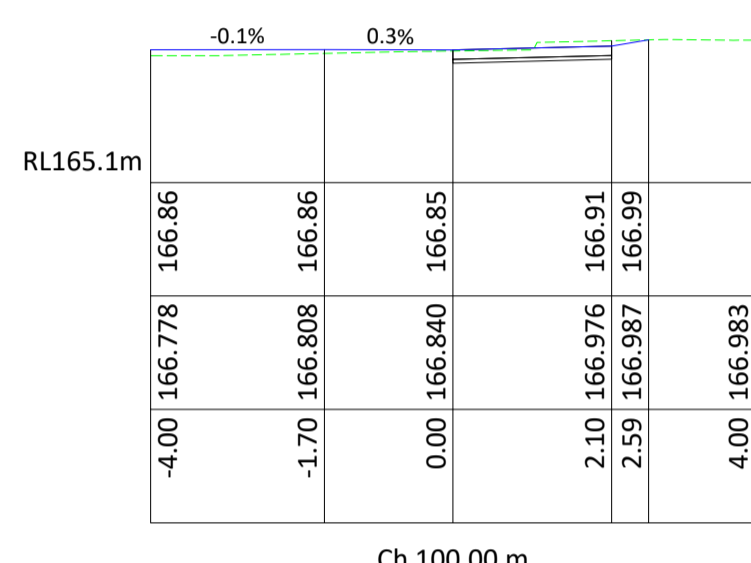
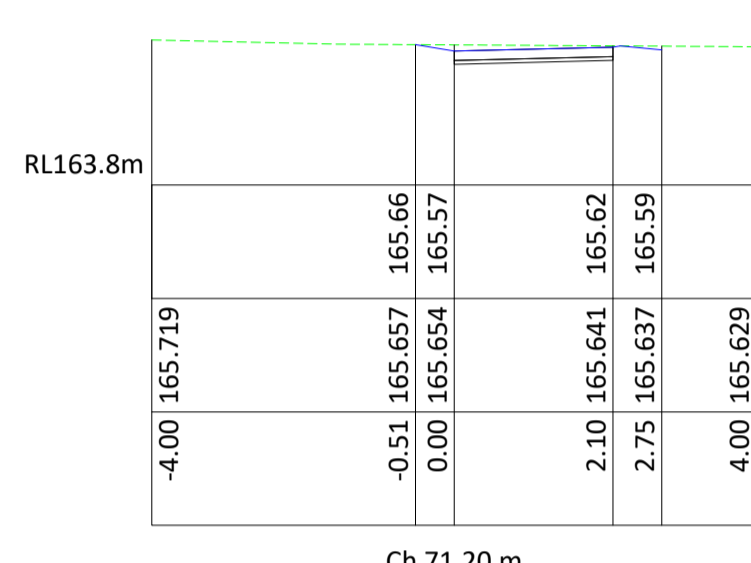
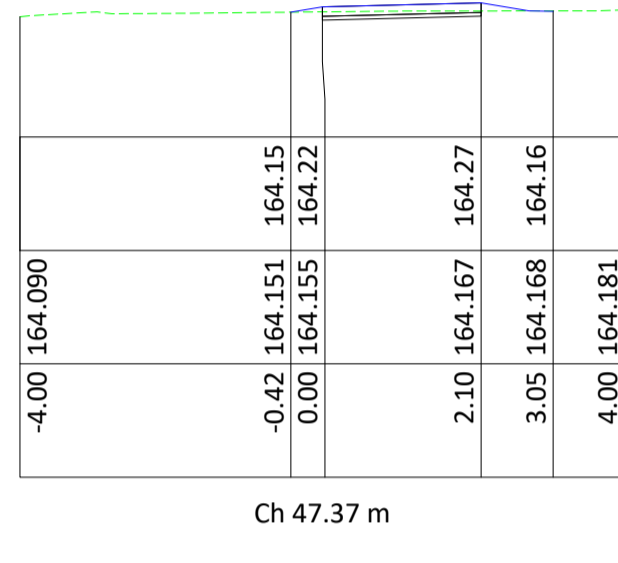
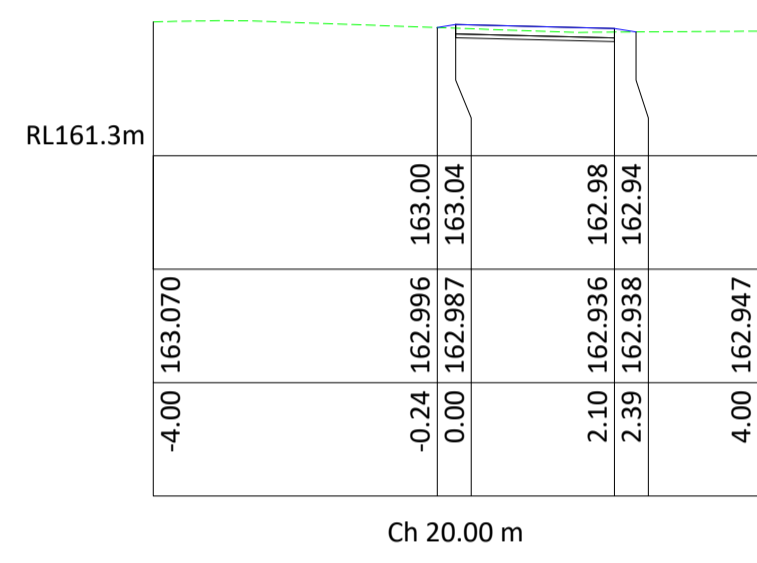
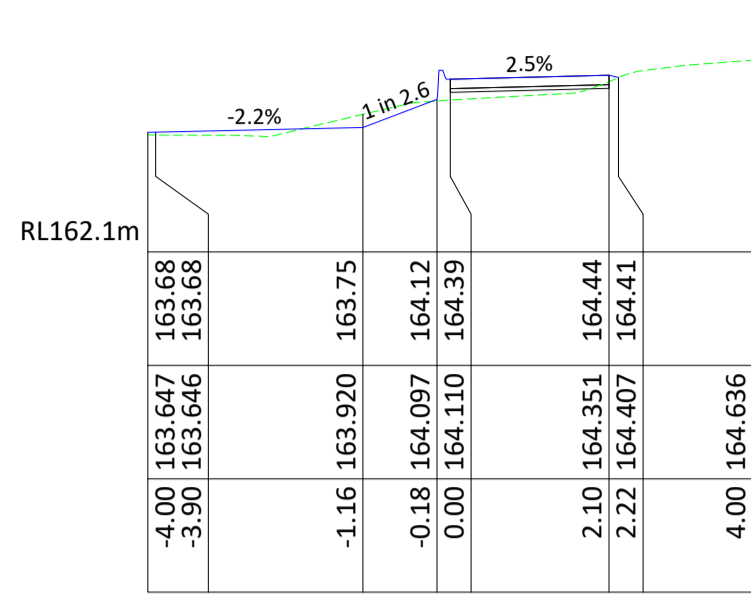
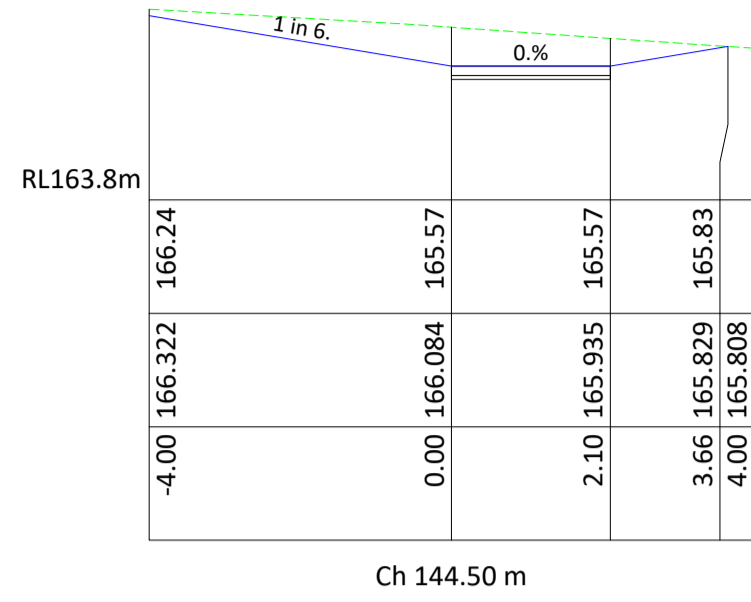
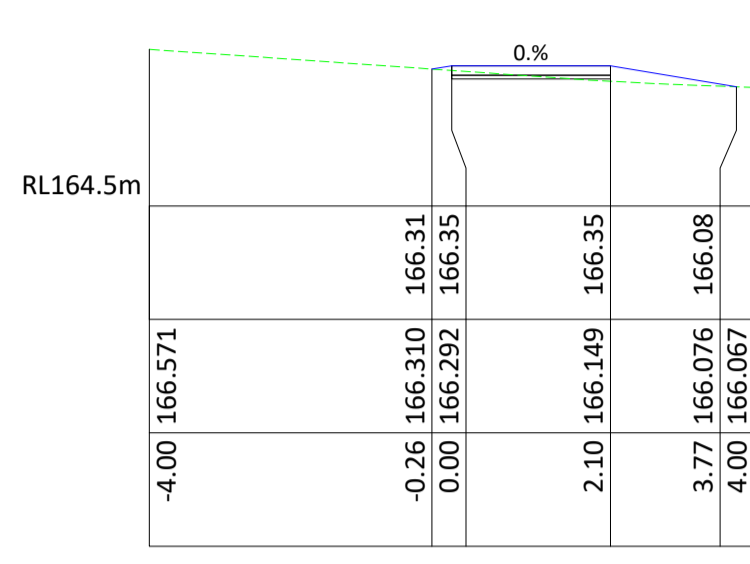
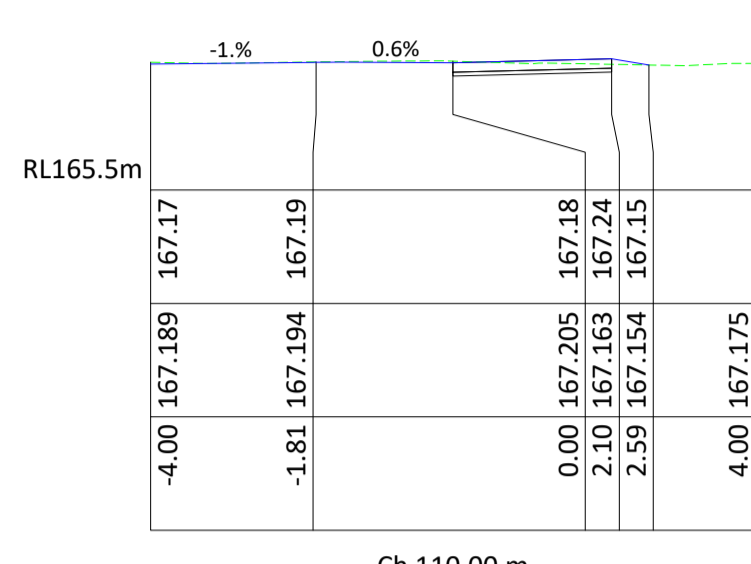
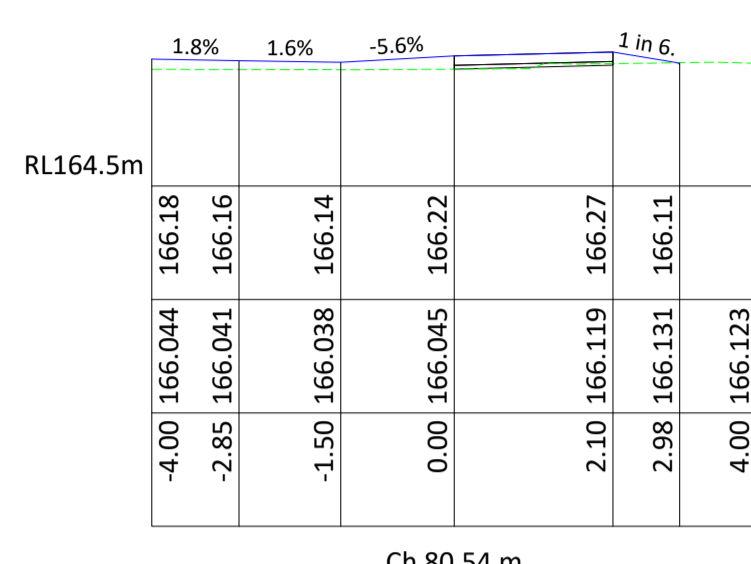
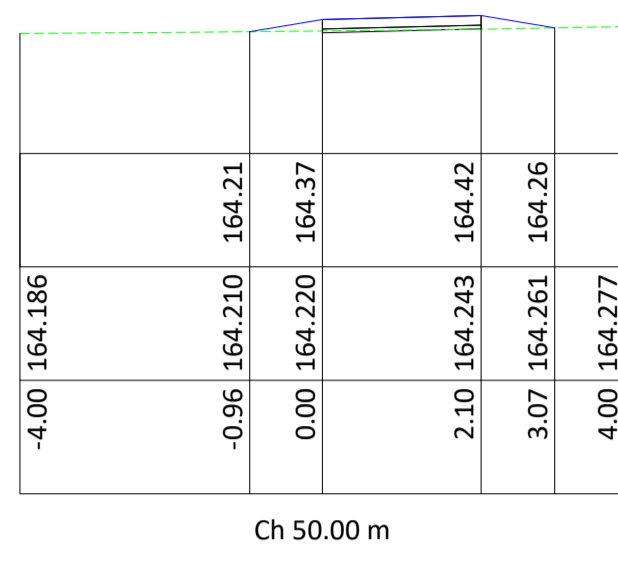
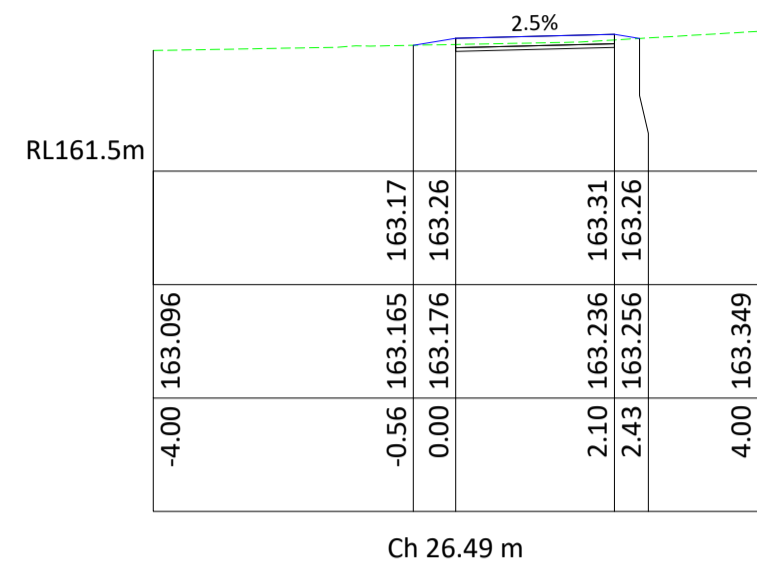
CONTRACTOR MUST DIAL 1100 TO CONFIRM LOCATION OF EXISTING SERVICES AND COMPLY WITH ANY AUTHORITY REQUIREMENTS REGARDING EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORKS.

LEGEND

- CONCRETE PAVING
- ASPHALT OVERLAY
- FENCE LINE
- EX & PROP LEVELS
- EX & PROP CONTOURS
- HOUSE DRAIN
- TABLE DRAIN
- EX DRAIN & PIT
- PROP DRAIN & PIT
- SEWER & PIT
- O'HEAD ELEC LINE & POLE
- U'GRND ELEC CABLE & PIT
- WATERMAIN & FITTING
- GASMAIN & FITTING
- PHONE CABLE & PIT
- LIGHT POLE
- CENTRE LINE
- TRAVERSE LINE
- EX TREE OR SHRUB
- TREE TO BE REMOVED
- TBM

NOTES AND AMENDMENTS

		MAROONDAH CITY COUNCIL		CIVIL DESIGN PTY LTD M: 0433 322 258 E: Kanchana.Withana@CivilDesign.com.au	
SURVEY: SC DATE: FEB'19		MCALPIN RESERVE, RINGWOOD NORTH CARPARK AND PEDESTRIAN ACCESS WORKS LONGITUDINAL SECTIONS SH2		PROJ 016	
DESIGNED: CD DATE: MAY'20				CONTRACT - ----	
CD016-T-VOL(2).dwg		CHECKED: DATE:		DATUM: A.H.D	
		SCALE: AS SHOWN		016	

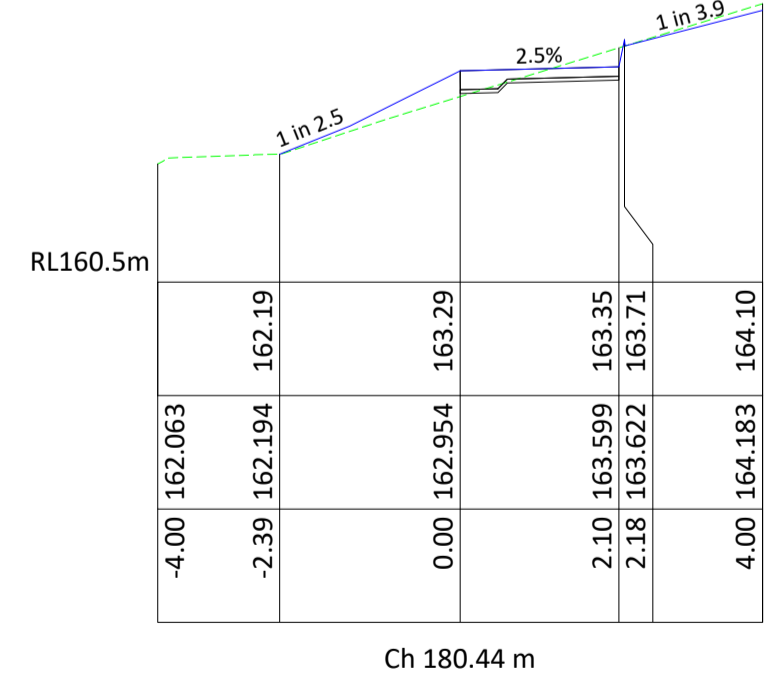
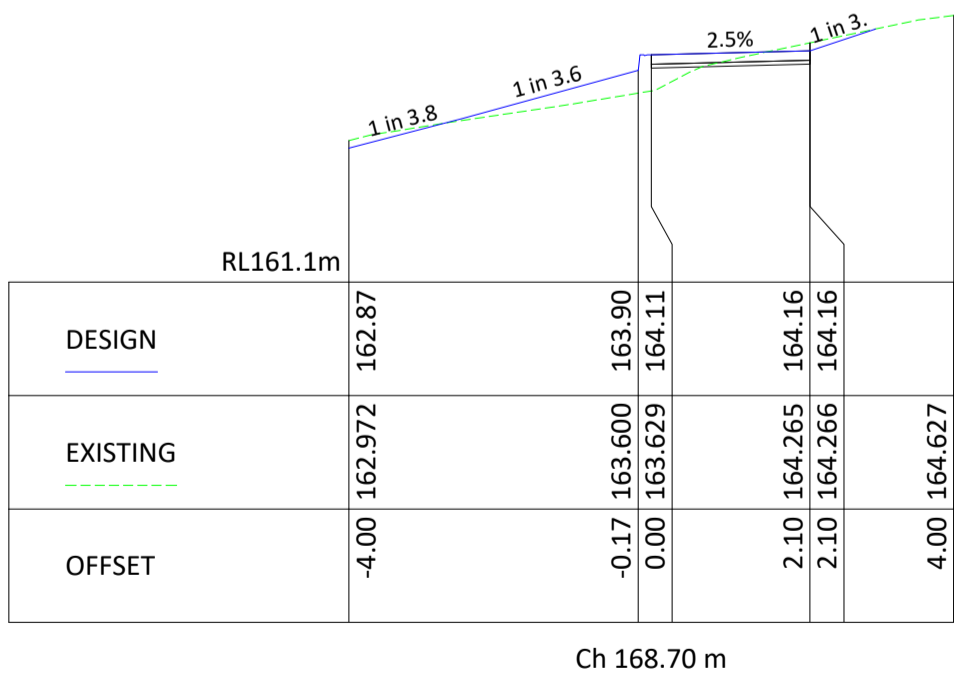
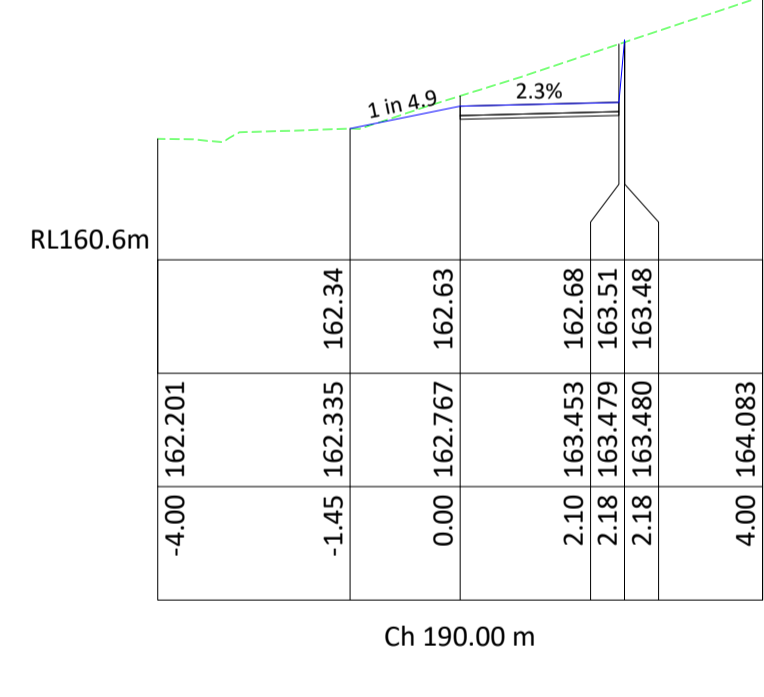
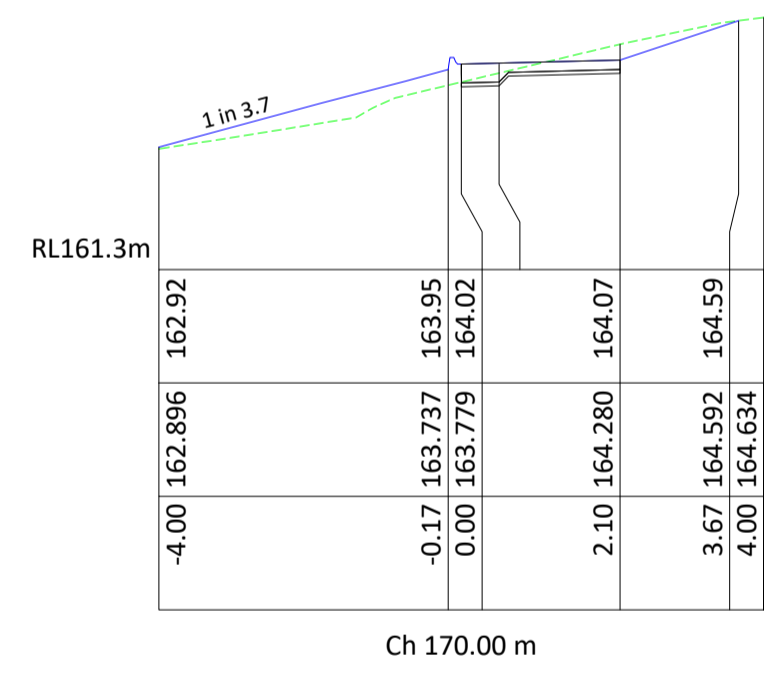
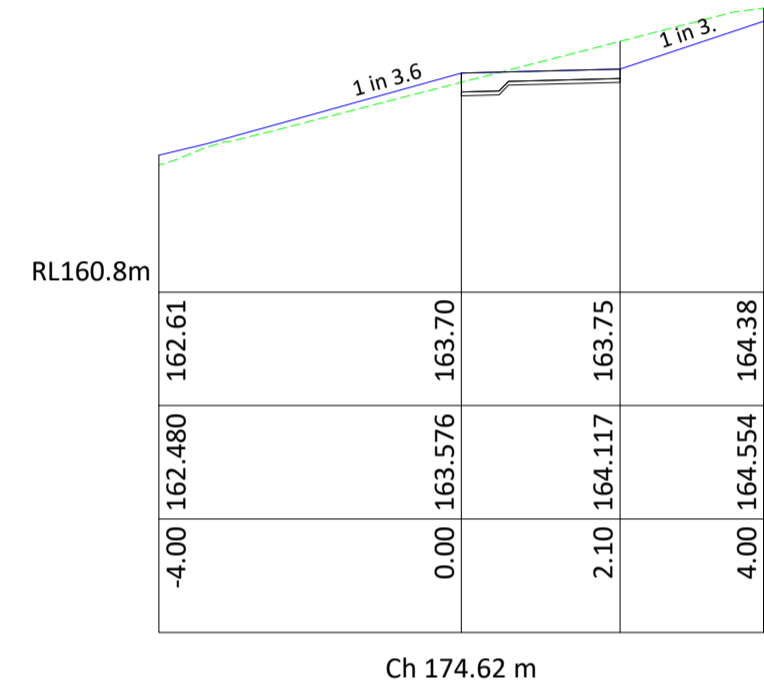
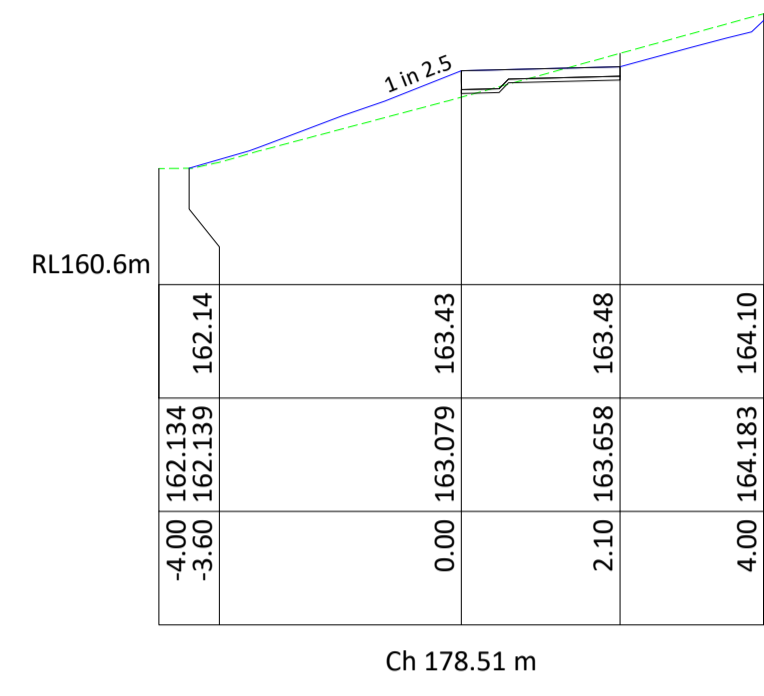


PATH 1 CROSS SECTIONS
SCALE 1:100

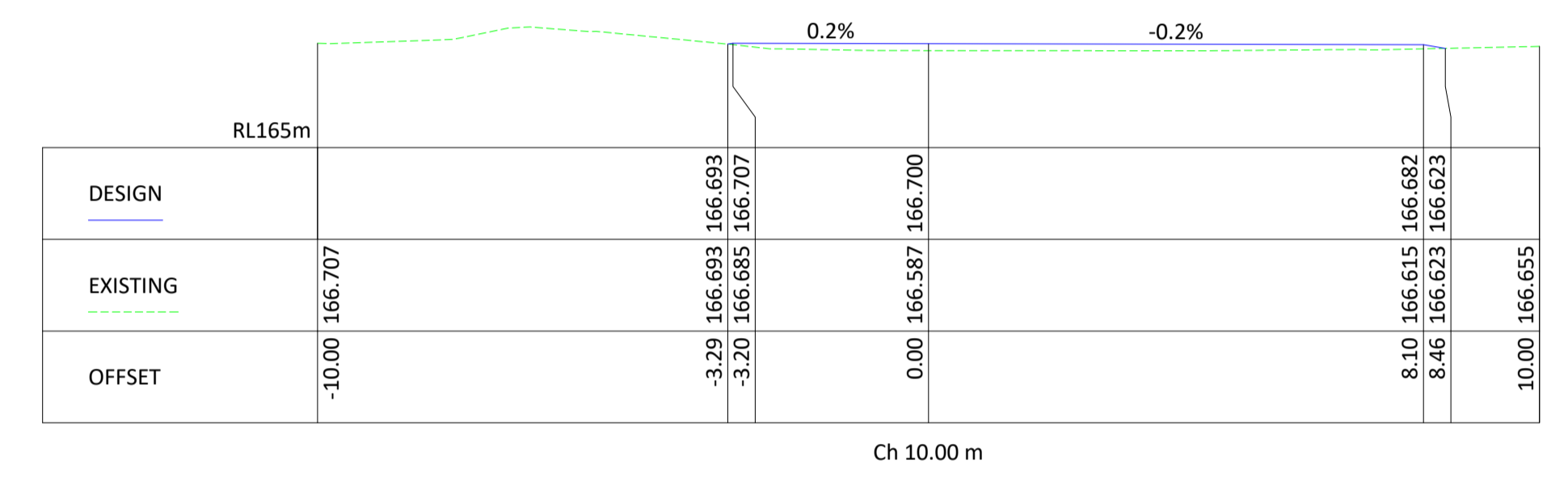
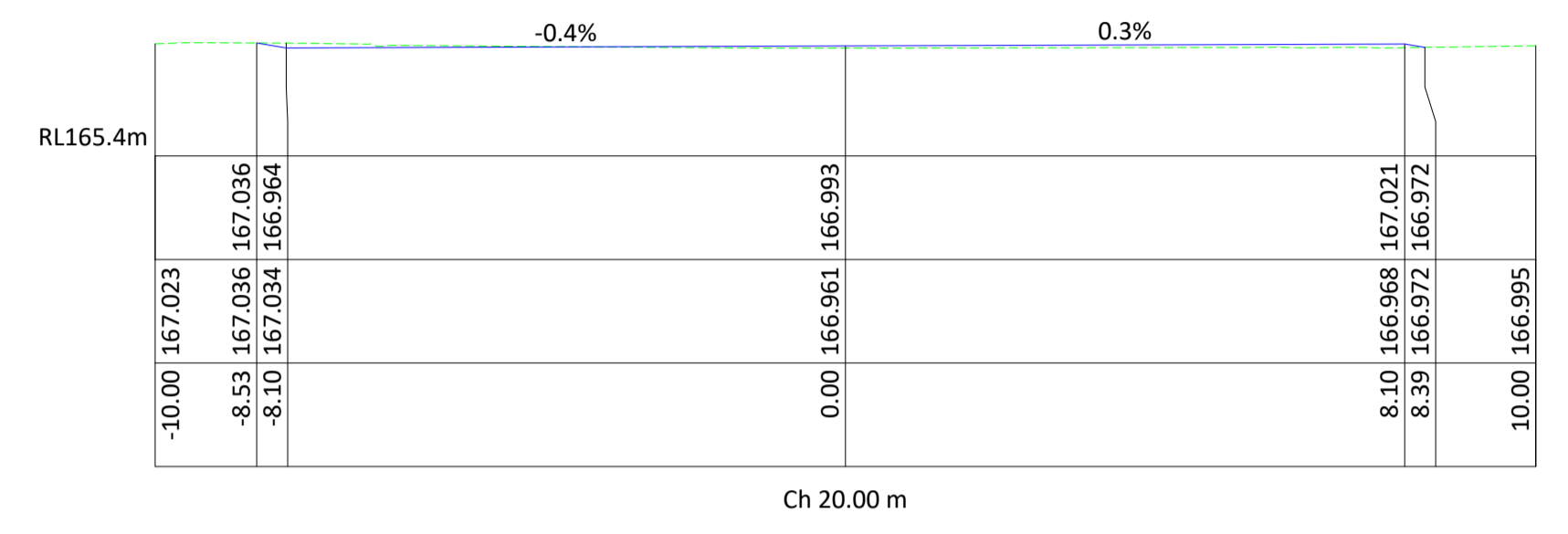
LEGEND	
CONCRETE PAVING	TABLE DRAIN
ASPHALT OVERLAY	EX DRAIN & PIT
FENCE LINE	PROP DRAIN & PIT
EX & PROP LEVELS	SEWER & PIT
EX & PROP CONTOURS	O'HAND ELEC LINE & POLE
HOUSE DRAIN	U'GRND ELEC CABLE & PIT
WATERMAIN & FITTING	W
GASMAIN & FITTING	G
PHONE CABLE & PIT	T
LIGHT POLE	EX TREE OR SHRUB
CENTRE LINE	TREE TO BE REMOVED
TRAVERSE LINE	TBM

NOTES AND AMENDMENTS	

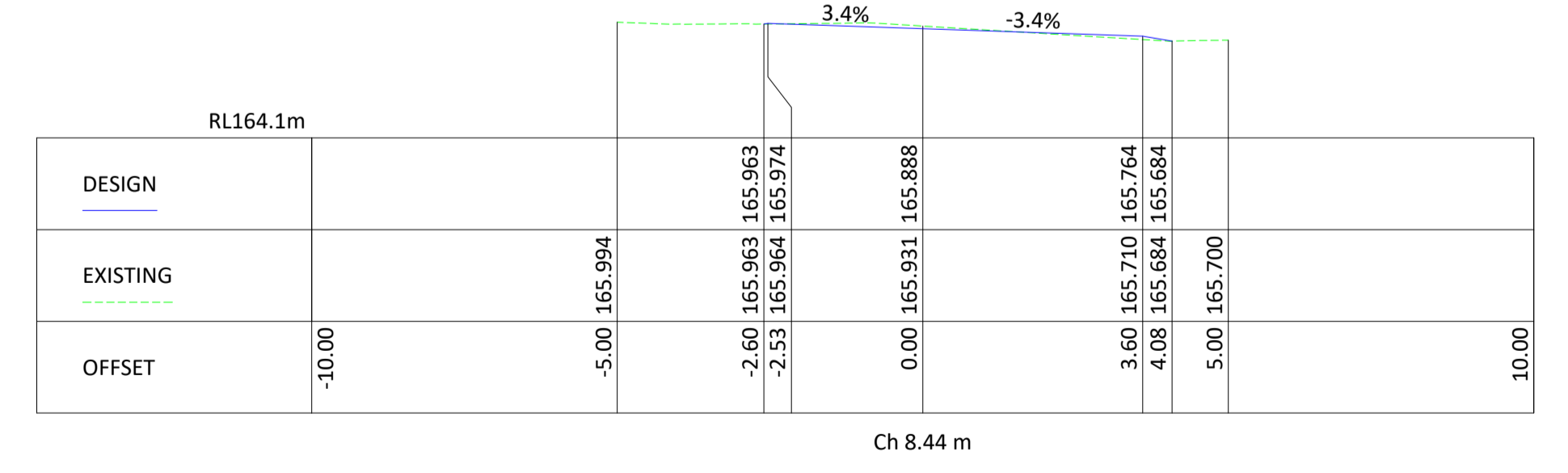
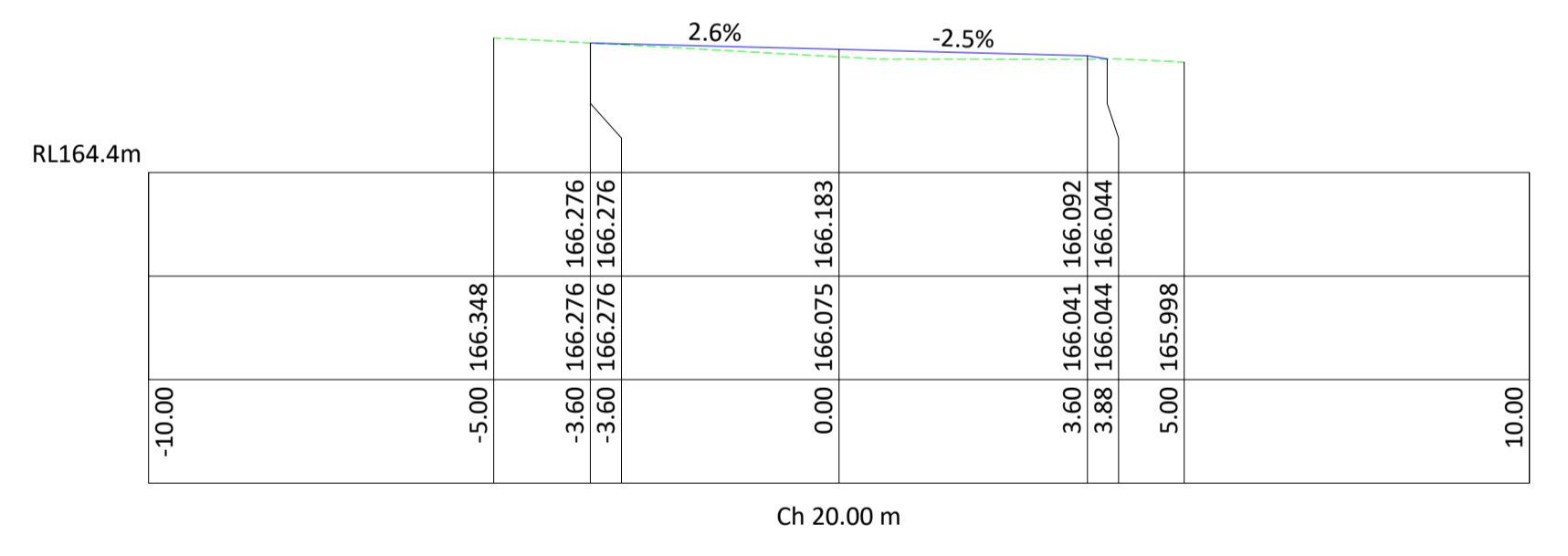
		MAROONDAH CITY COUNCIL CIVIL DESIGN PTY LTD M: 0433 322 258 E: Kanchana.Withana@CivilDesign.com.au	
SURVEY: SC DATE: FEB'19 DESIGNED: CD DATE: MAY'20 CD016-T-VOL(2).dwg		MALPIN RESERVE, RINGWOOD NORTH CARPARK AND PEDESTRIAN ACCESS WORKS CROSS SECTIONS SH3	
CHECKED:	DATE:	SCALE:	DATUM:
		AS SHOWN	A.H.D
		PROJ 016	CONTRACT - ----
		016	



PATH 1 CROSS SECTIONS
SCALE 1:100



GRAVEL CAR PARK CROSS SECTIONS
SCALE 1:100



ACCESS WAY CENTRELINER 3 CROSS SECTIONS
SCALE 1:100



LEGEND

CONCRETE PAVING	TABLE DRAIN	WATERMAIN & FITTING	EX TREE OR SHRUB
ASPHALT OVERLAY	EX DRAIN & PIT	GASMAIN & FITTING	TREE TO BE REMOVED
FENCE LINE	PROP DRAIN & PIT	PHONE CABLE & PIT	TBM
EX & PROP LEVELS	SEWER & PIT	LIGHT POLE	
EX & PROP CONTOURS	O'HEAD ELEC LINE & POLE	CENTRE LINE	
HOUSE DRAIN	U'GRND ELEC CABLE & PIT	TRAVERSE LINE	

NOTES AND AMENDMENTS

MAROONDAH CITY COUNCIL

CIVIL DESIGN PTY LTD
M: 0433 322 258
E: Kanchana.Withana@CivilDesign.com.au

MALPIN RESERVE, RINGWOOD NORTH CARPARK AND PEDESTRIAN ACCESS WORKS CROSS SECTIONS SH4

PROJ 016
CONTRACT - ----
11 OF 10

SCALE: AS SHOWN
DATUM: A.H.D.

016