

# MAIN ROAD

## INTERSECTION; SIDE ROAD A AND SIDE ROAD B

### OVERVIEW PLAN

SHEET	LOCATION
71	MC00; CH 20 TO CH 680

### STORMWATER AND CONTOURS

SHEET	LOCATION
89	MC00; CH 20 TO CH 240
90	MC00; CH 240 TO CH 460
91	MC00; CH 460 TO CH 680
92	MC10; CH 20 TO CH 240
93	MC10; CH 380 TO CH 600
94	DRAINAGE SCHEDULES

### LIGHTING

SHEET	LOCATION
108	MC00; CH 20 TO CH 240
109	MC00; CH 240 TO CH 460
110	MC00; CH 460 TO CH 680
111	MC10; CH 20 TO CH 240
112	MC10; CH 380 TO CH 600

### TYPICAL CROSS SECTIONS

SHEET	LOCATION
72	MC00; CH 20 TO CH 680

### PAVEMENT TREATMENT

SHEET	LOCATION
95	MC00; CH 20 TO CH 240
96	MC00; CH 240 TO CH 460
97	MC00; CH 460 TO CH 680
98	MC10; CH 20 TO CH 240
99	MC10; CH 380 TO CH 600
100	PAVEMENT SCHEDULES

### LONGITUDINAL SECTIONS

SHEET	LOCATION
113	MC00; CH 220 TO CH 420
114	MC00; CH 420 TO CH 720
115	MC10; CH 0 TO CH 200
116	MC10; CH 200 TO CH 400
117	MC10; CH 400 TO CH 600
118	MC10; CH 600 TO CH 660
119	MC20; CH 0 TO CH 180

### VEGETATION AND DEMOLITION

SHEET	LOCATION
73	MC00; CH 20 TO CH 240
74	MC00; CH 240 TO CH 460
75	MC00; CH 460 TO CH 680
76	MC10; CH 20 TO CH 240
77	MC10; CH 380 TO CH 600

### TRAFFIC CONTROL

SHEET	LOCATION
101	MC00; CH 20 TO CH 240
102	MC00; CH 240 TO CH 460
103	MC00; CH 460 TO CH 680
104	MC10; CH 20 TO CH 240
105	MC10; CH 380 TO CH 600

### CROSS SECTIONS

SHEET	LOCATION
120	MC00; CH 100 TO CH 200
121	MC00; CH 220 TO CH 320
122	MC00; CH 340 TO CH 440
123	MC00; CH 460 TO CH 560
124	MC00; CH 580 TO CH 640
125	MC10; CH 20 TO CH 120
126	MC10; CH 140 TO CH 240
127	MC10; CH 260 TO CH 400
128	MC10; CH 420 TO CH 520
129	MC10; CH 540 TO CH 560
130	MC20; CH 0 TO CH 170

### GEOMETRIC SETOUT

SHEET	LOCATION
78	MC00; CH 20 TO CH 240
79	MC00; CH 240 TO CH 460
80	MC00; CH 460 TO CH 680
81	MC10; CH 20 TO CH 240
82	MC10; CH 380 TO CH 600
83	SETOUT TABLES

### TRAFFIC SIGNALS

SHEET	LOCATION
106	MC00; CH 240 TO CH 460

### DRAINAGE LONGITUDINAL SECTIONS

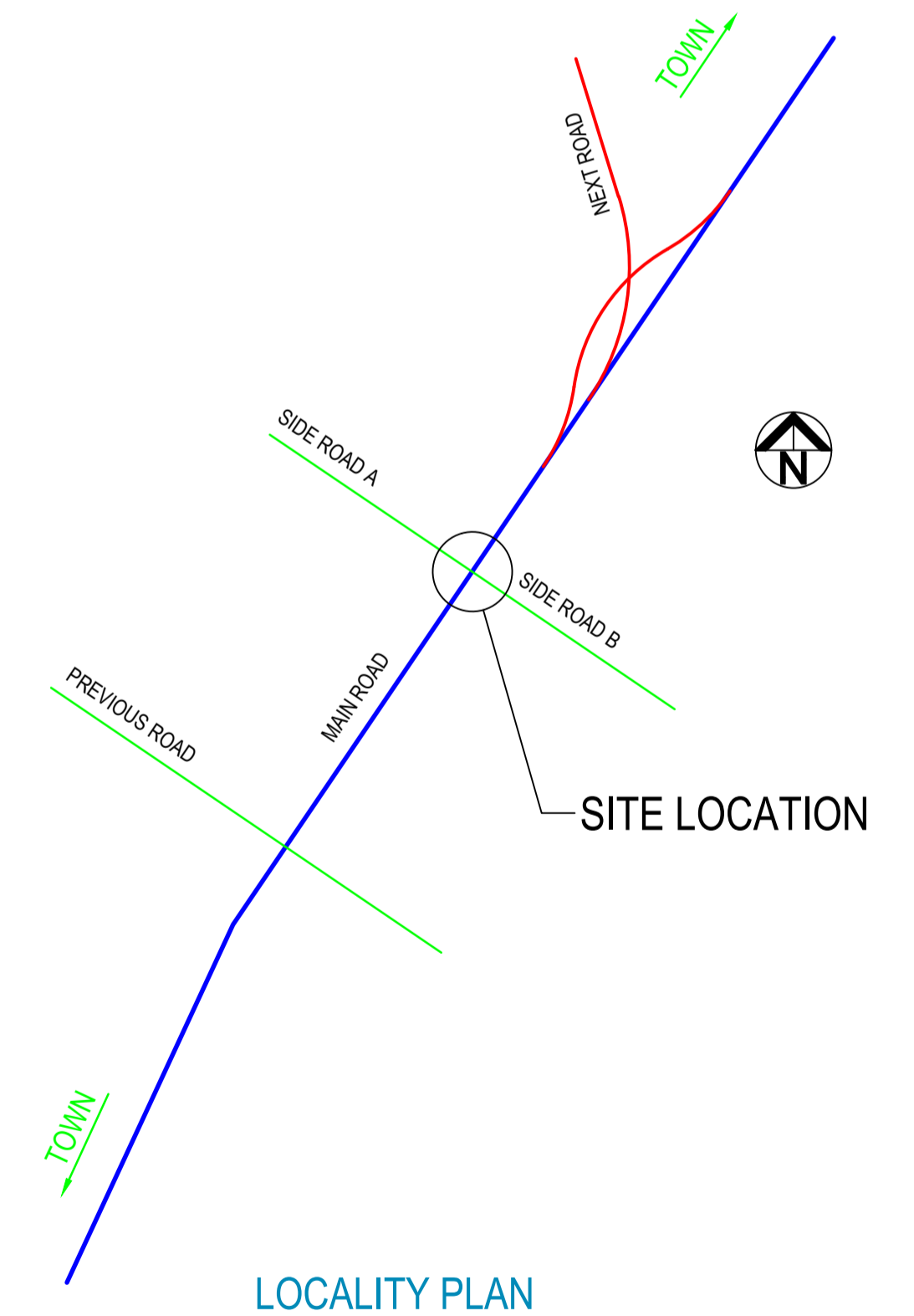
SHEET	LOCATION
131	DI01
132	DI02, DI03 & DI04
133	DI05, DI06 & DI07
134	DI07, DI08 & DI09
135	DI10 TO DI21

### TRAFFIC SIGNAL CONDUIT

SHEET	LOCATION
107	MC00; CH 240 TO CH 460

### REFERENCE DOCUMENTS

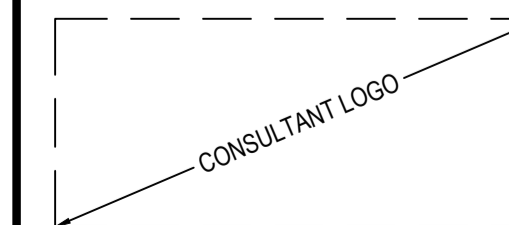
- 3D DIGITAL MODEL KNet #12345678
- VEGETATION SURVEY 2022/0XX
- AS1742 MANUAL OF TRAFFIC CONTROL DEVICES
- DIT CODE OF TECHNICAL REQUIREMENTS FOR THE LEGAL USE OF TRAFFIC CONTROL DEVICES.
- DIT PAVEMENT MARKING MANUAL
- DIT MASTER SPECIFICATION
- S-4070 SHEETS 6 & 7 (KERB AND GUTTER)
- S-4080 SHEETS 1,2,&3 (JUNCTION BOX AND SIDE ENTRY PITS)
- S-4002 SHEETS 17-24 (HEADWALLS AND WINGWALLS)
- S-4080 SHEET 6 (GRATED FIELD PIT)
- S-4020 SHEET 1 (HOLDING RAILS)
- S-4074 SHEETS 6 & 7 (KERB RAMPS)
- S-4050 SHEETS 36-47 (GUARD FENCE)
- S-4075 SHEET 4 (MEDIAN CUTOUTS)
- S-4076 SHEETS 1 & 2 (CORNER ISLANDS)
- S-4055 SHEETS 19-24, 30, 37-42, 46, 48 & 49 (LIGHT POLES & FOOTINGS)
- S-4055 SHEETS 33-35 (LIGHTING PIT DETAILS)
- S-4055 SHEETS 43 & 54-58 (ELECTRICAL SWITCH BOARD)
- S-4500 SHEET 3 (SAFETY CAMERAS)



### GENERAL CONSTRUCTION

SHEET	LOCATION
84	MC00; CH 20 TO CH 240
85	MC00; CH 240 TO CH 460
86	MC00; CH 460 TO CH 680
87	MC10; CH 20 TO CH 240
88	MC10; CH 380 TO CH 600

INDEX SHEET REFERENCE: XXXX SHEET X



DESIGNED	<b>A. DESIGNED</b>
QUALIFICATION	Dip. Tech. Eng.
DATE:	DD.MM.YYYY
REVIEWER	<b>B. CHECKED</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY
INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)	<b>C. INDEPENDENT</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY

**Government of South Australia**  
Department for Infrastructure and Transport

PROJECT No.:	FILE No.:
DESIGN No.:	SURVEY No.:
PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14	
PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88	

SCALES: NOT TO SCALE

ROAD No. 1234 / NCRN / NCRN  
**MAIN ROAD**  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 20 TO CH 680  
**TITLE AND INDEX**

DESIGNER ORG.	ACCEPTED FOR USE:	ACCEPTANCE FORM KNET No.:	DRAWING No.:	SHEET No.:	AMEND No.:
COMPANY LINE 1	<b>D. ACCEPT</b>	12345678	1234	70	0
COMPANY LINE 2	TITLE: PROJECT MANAGER	IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544			
	DATE: DD.MM.YYYY				

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE	UNCONTROLLED COPY WHEN PRINTED	100 MILLIMETRES ON ORIGINAL DRAWING	ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE
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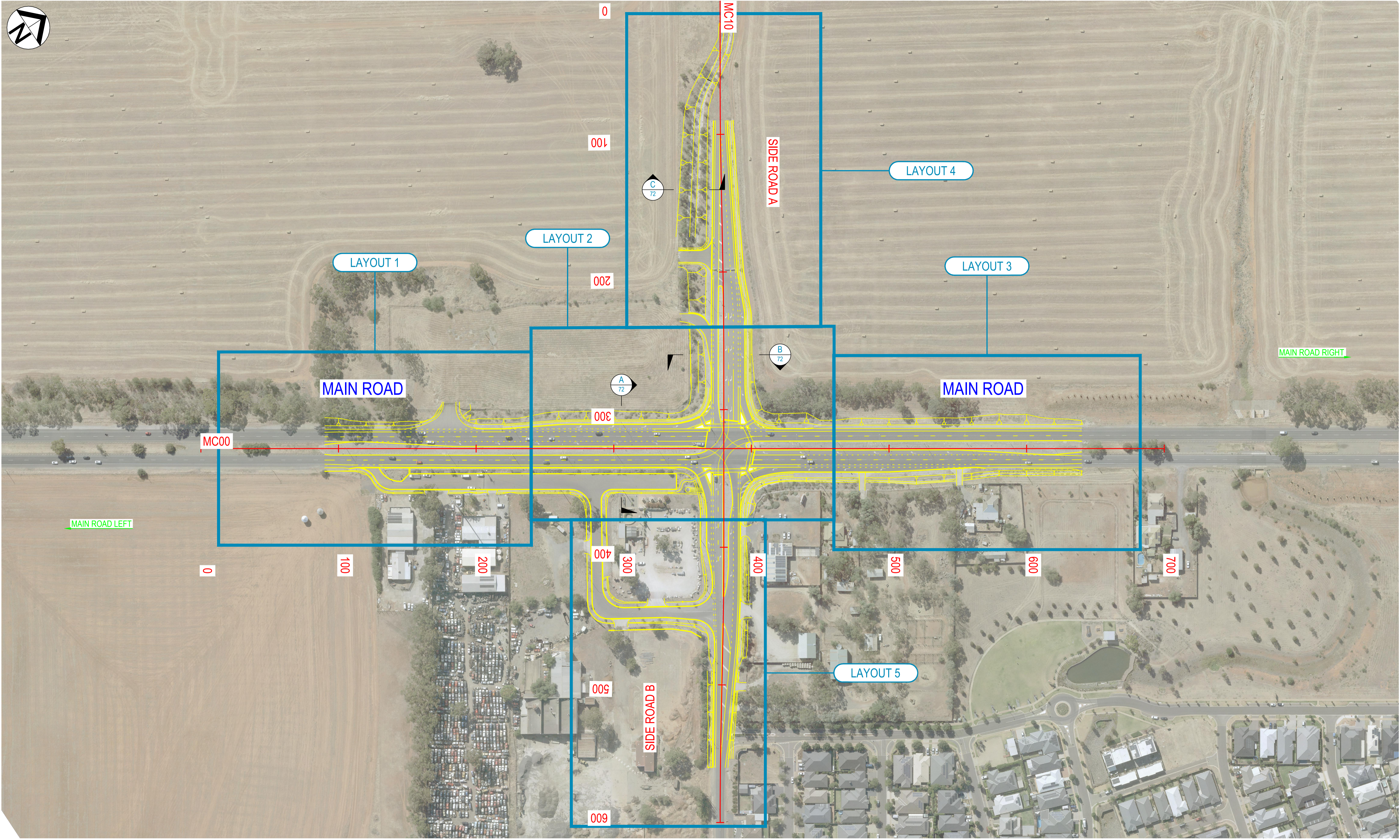
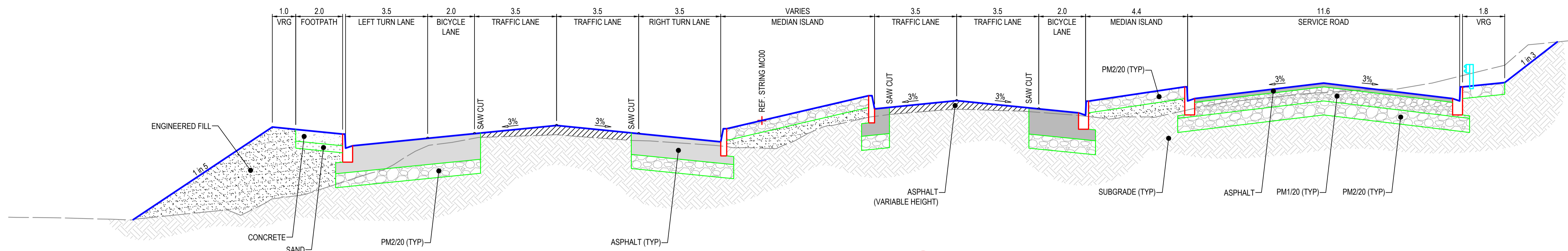


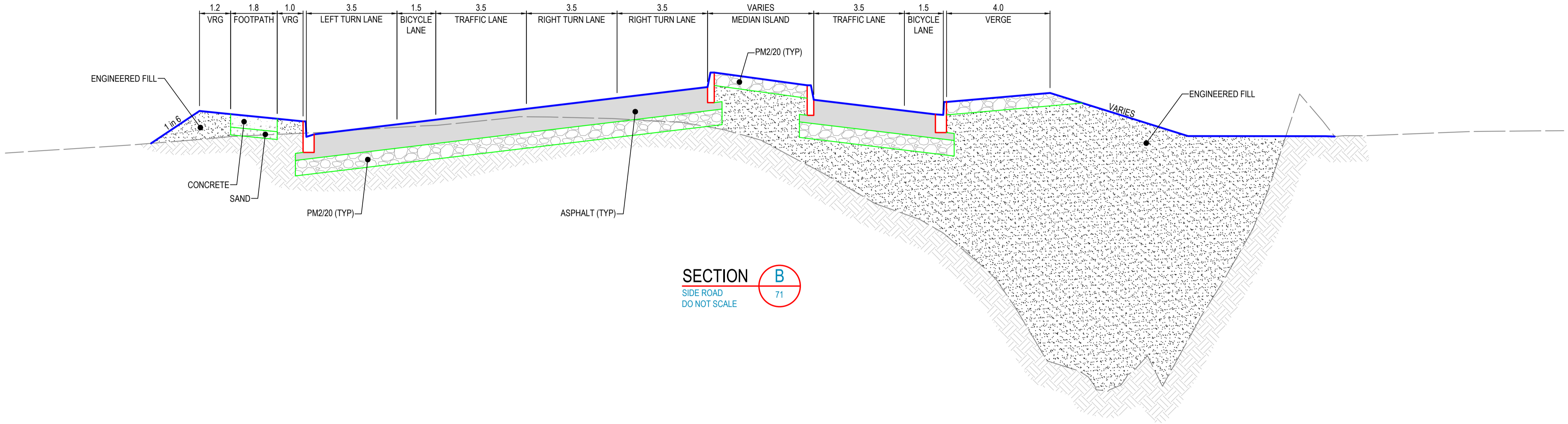
IMAGE: JANUARY 2020

				INDEX SHEET REFERENCE: XXXX SHEET X		DESIGNED <b>A. DESIGNED</b> Dip. Tech. Eng. DD.MM.YYYY		PROJECT No.: FILE No.:		<b>ROAD No. 1234 / NCRN / NCRN          MAIN ROAD          INTERSECTION; SIDE ROAD A AND SIDE ROAD B          MC00; CH 20 TO CH 680          OVERVIEW PLAN</b>							
				QUALIFICATION DATE: DATE:		REVIEWER <b>B. CHECKED</b> Beng DD.MM.YYYY		DESIGN No.: SURVEY No.:						ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY			
				QUALIFICATION DATE: DATE:		INDEPENDENT DESIGN CERTIFIER (IF REQUIRED) <b>C. INDEPENDENT</b> Beng DD.MM.YYYY		PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14 PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88		ACCEPTANCE FORM KNET No.: <b>12345678</b>		DRAWING No.: <b>1234</b>		SHEET No.: <b>71</b>		AMEND No.: <b>0</b>	
				QUALIFICATION DATE: DATE:		Department for Infrastructure and Transport		SCALES: <b>DO NOT SCALE</b>		IN ACCORDANCE WITH DP013		SHEET LATITUDE -34.641213		SHEET LONGITUDE 138.723068			
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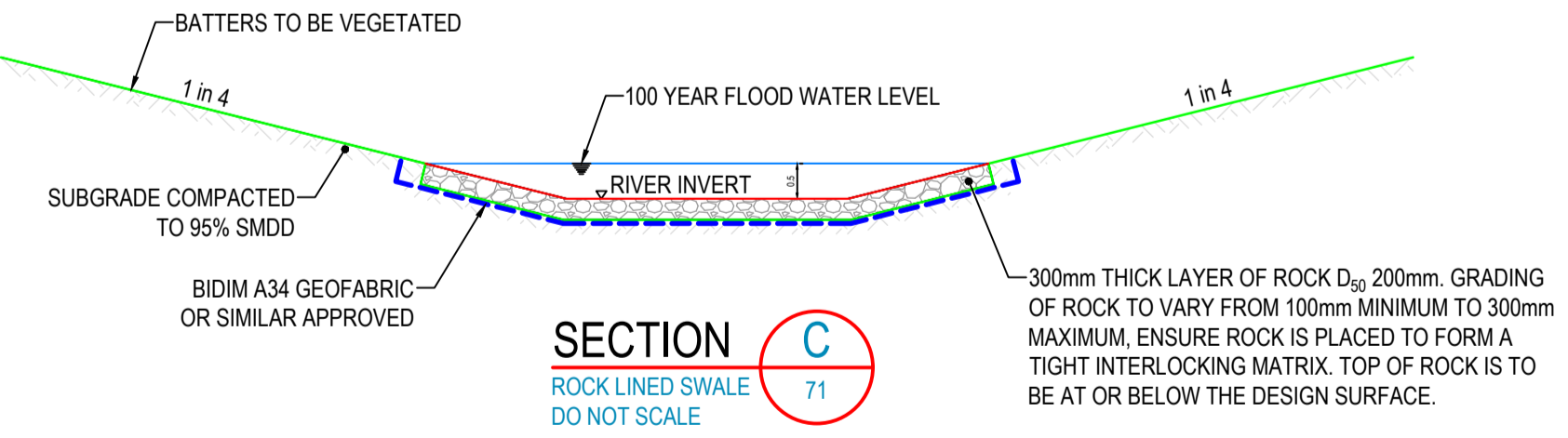
CAD FILE NAME: 1234 SHEET 0071.DWG



**SECTION A**  
 MAIN ROAD  
 DO NOT SCALE



**SECTION B**  
 SIDE ROAD  
 DO NOT SCALE



**SECTION C**  
 ROCK LINED SWALE  
 DO NOT SCALE

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

CONSULTANT LOGO

UNCONTROLLED COPY WHEN PRINTED

DESIGNED  
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 DD.MM.YYYY

REVIEWER  
**B. CHECKED**  
 Beng  
 DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
**C. INDEPENDENT**  
 Beng  
 DD.MM.YYYY



PROJECT No.: FILE No.:

DESIGN No.: SURVEY No.:

PROJECT START ROAD RUNNING DISTANCE:  
 MC10; CH 360 = RRD 154.14

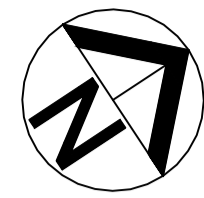
PROJECT END ROAD RUNNING DISTANCE:  
 MC10; CH 620 = RRD 153.88

SCALES:

**ROAD No. 1234 / NCRN / NCRN  
 MAIN ROAD  
 INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
 MC00; CH 20 TO CH 680  
 TYPICAL CROSS SECTIONS**

DESIGNER ORG. <b>COMPANY LINE 1 COMPANY LINE 2</b>	ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: <b>12345678</b>	DRAWING No.: <b>1234</b>	SHEET No.: <b>72</b>	AMEND No.: <b>0</b>
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IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544



**LEGEND**

DESIGN FEATURES

- EXTENT OF PROPOSED DESIGN FOOTPRINT
- VEGETATION SURVEY 'VS20??/???' TREE IDENTIFIER (e.g. TREE NUMBER 1a)
- VEGETATION SURVEY 'VS20??/???' PHOTO IDENTIFIER AND DIRECTION (e.g. PHOTO NUMBER 2)
- TREES TO BE REMOVED
- VEGETATION / FEATURE TO BE REMOVED
- FEATURE TO BE REMOVED
- VEGETATION TO BE PRUNED
- TREE REMOVAL TO BE ASSESSED AT TIME OF CONSTRUCTION
- TREE PROTECTION ZONE (TPZ)
- STRUCTURAL ROOT ZONE (SRZ)

**LEGEND**

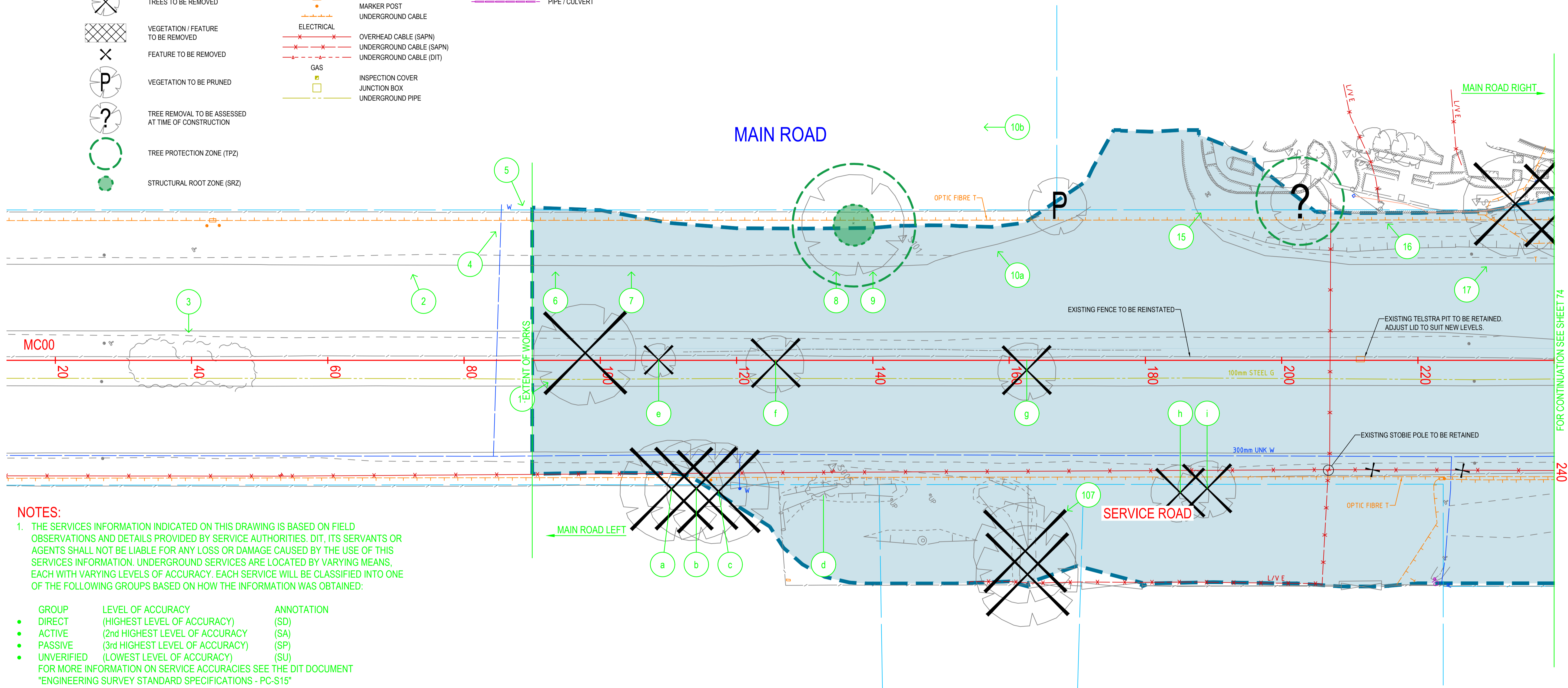
EXISTING FEATURES

- EDGE OF TRACK
- TOP OF BANK
- BOTTOM OF BANK
- EDGE OF VEGETATION
- SIGN
- TREE
- INSPECTION COVER
- JUNCTION BOX
- MARKER POST
- UNDERGROUND CABLE
- ELECTRICAL OVERHEAD CABLE (SAPN)
- UNDERGROUND CABLE (SAPN)
- UNDERGROUND CABLE (DIT)
- GAS
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE

**LEGEND**

EXISTING FEATURES

- SEWER
- WATER
- STORMWATER
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE
- FIRE PLUG MARKER POST
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE
- PIPE / CULVERT



**NOTES:**

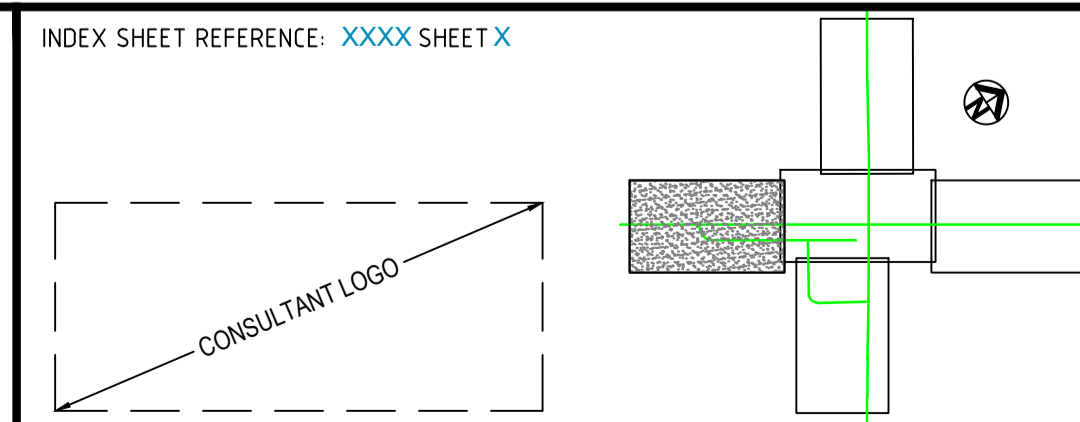
1. THE SERVICES INFORMATION INDICATED ON THIS DRAWING IS BASED ON FIELD OBSERVATIONS AND DETAILS PROVIDED BY SERVICE AUTHORITIES. DIT, ITS SERVANTS OR AGENTS SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED BY THE USE OF THIS SERVICES INFORMATION. UNDERGROUND SERVICES ARE LOCATED BY VARYING MEANS, EACH WITH VARYING LEVELS OF ACCURACY. EACH SERVICE WILL BE CLASSIFIED INTO ONE OF THE FOLLOWING GROUPS BASED ON HOW THE INFORMATION WAS OBTAINED:

GROUP	LEVEL OF ACCURACY	ANNOTATION
• DIRECT	(HIGHEST LEVEL OF ACCURACY)	(SD)
• ACTIVE	(2nd HIGHEST LEVEL OF ACCURACY)	(SA)
• PASSIVE	(3rd HIGHEST LEVEL OF ACCURACY)	(SP)
• UNVERIFIED	(LOWEST LEVEL OF ACCURACY)	(SU)

FOR MORE INFORMATION ON SERVICE ACCURACIES SEE THE DIT DOCUMENT "ENGINEERING SURVEY STANDARD SPECIFICATIONS - PC-S15"

2. THIS DESIGN MAY INCLUDE THE POSSIBILITY OF SERVICE CONFLICT AND / OR ENCROACHMENT WITHIN SAFETY CLEARANCES REQUIRING ASSESSMENT AND APPROVAL BY THE OFFICE OF TECHNICAL REGULATOR AND SERVICES AUTHORITIES. IF DURING CONSTRUCTION IT IS DETERMINED THAT THE CLEARANCES AS DETERMINED BY THE OFFICE OF THE TECHNICAL REGULATORS CANNOT BE MET, WORK MUST IMMEDIATELY CEASE AND THE DESIGN & PROJECT MANAGER NOTIFIED.
3. TREE PROTECTION REQUIREMENTS TO BE ASSESSED AT TIME OF CONSTRUCTION BY SUPERINTENDENTS REPRESENTATIVE.
4. REFER TO VEGETATION SURVEY No. ?????? FOR INFORMATION ON EXISTING TREES.
5. REFER DIT MASTER SPECIFICATION PC-ENV1-4 FOR THE ENVIRONMENTAL REQUIREMENTS.

INDEX SHEET REFERENCE: XXXX SHEET X



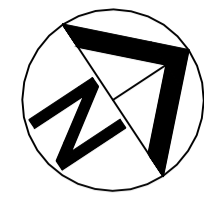
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QUALIFICATION	Dip. Tech. Eng.
DATE:	DD.MM.YYYY
REVIEWER	<b>B. CHECKED</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY
INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)	<b>C. INDEPENDENT</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY

**Government of South Australia**  
Department for Infrastructure and Transport

PROJECT No.:	FILE No.:
DESIGN No.:	SURVEY No.:
PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14	
PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88	
SCALES:	
6 0 3 6 9 12	

**ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 20 TO CH 240  
VEGETATION AND DEMOLITION**

DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.:	DRAWING No.:	SHEET No.:	AMEND No.:
		12345678	1234	73	0
IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.641213 SHEET LONGITUDE 138.723068					



**LEGEND**

DESIGN FEATURES

- EXTENT OF PROPOSED DESIGN FOOTPRINT
- VEGETATION SURVEY 'VS20??/???' TREE IDENTIFIER (e.g. TREE NUMBER 1a)
- VEGETATION SURVEY 'VS20??/???' PHOTO IDENTIFIER AND DIRECTION (e.g. PHOTO NUMBER 2)
- TREES TO BE REMOVED
- VEGETATION / FEATURE TO BE REMOVED
- FEATURE TO BE REMOVED
- VEGETATION TO BE PRUNED
- TREE REMOVAL TO BE ASSESSED AT TIME OF CONSTRUCTION
- TREE PROTECTION ZONE (TPZ)
- STRUCTURAL ROOT ZONE (SRZ)

**LEGEND**

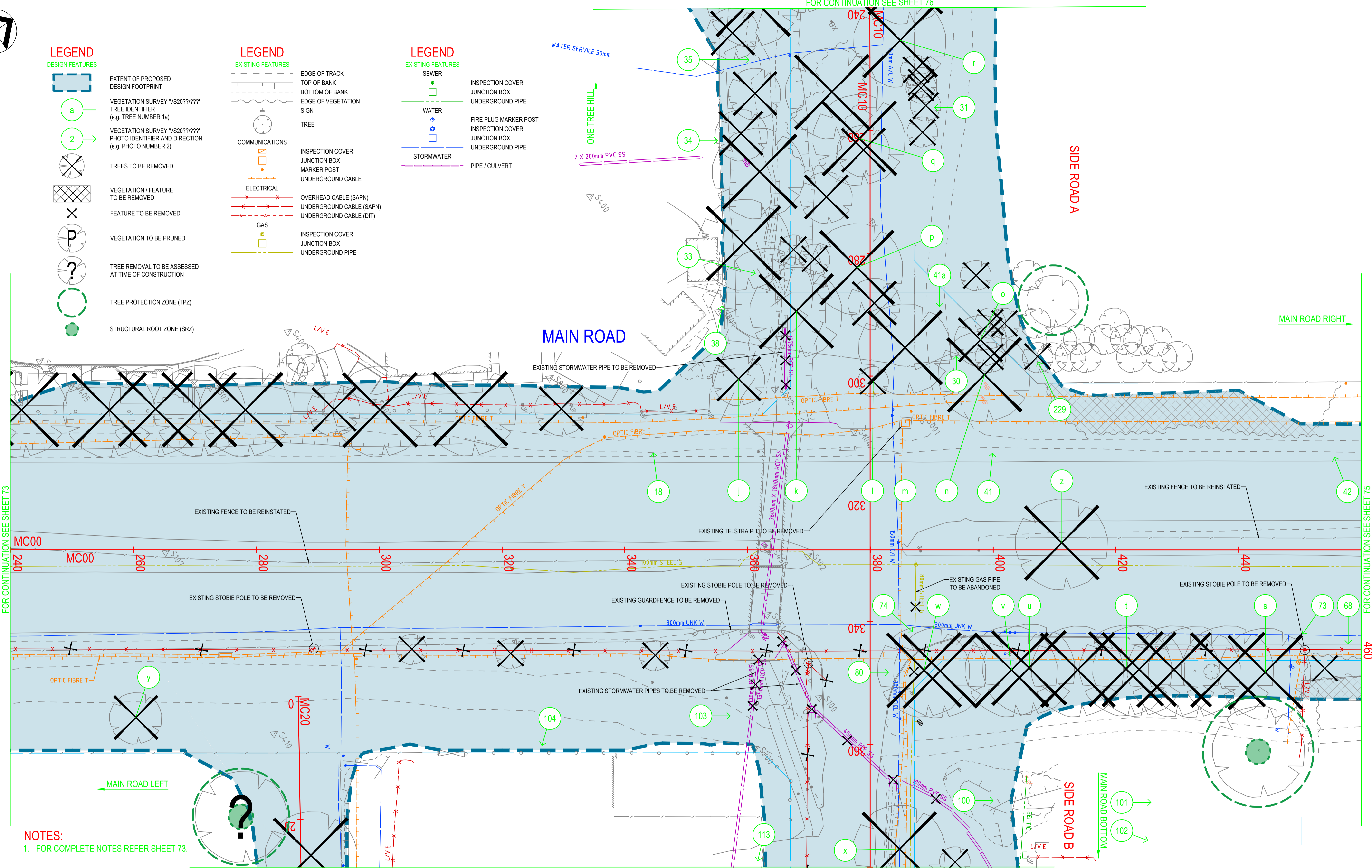
EXISTING FEATURES

- EDGE OF TRACK
- TOP OF BANK
- BOTTOM OF BANK
- EDGE OF VEGETATION SIGN
- TREE
- COMMUNICATIONS
- INSPECTION COVER
- JUNCTION BOX
- MARKER POST
- UNDERGROUND CABLE
- ELECTRICAL
- OVERHEAD CABLE (SAPN)
- UNDERGROUND CABLE (SAPN)
- UNDERGROUND CABLE (DIT)
- GAS
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE

**LEGEND**

EXISTING FEATURES

- SEWER
- WATER
- STORMWATER
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE
- FIRE PLUG MARKER POST
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE
- PIPE / CULVERT



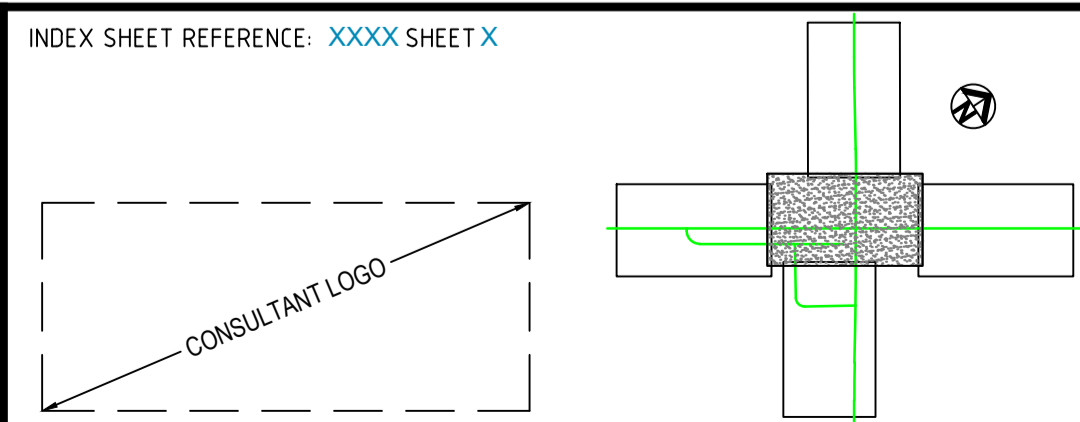
FOR CONTINUATION SEE SHEET 73

FOR CONTINUATION SEE SHEET 75

FOR CONTINUATION SEE SHEET 76

**NOTES:**  
 1. FOR COMPLETE NOTES REFER SHEET 73.

INDEX SHEET REFERENCE: XXXX SHEET X



DESIGNED  
**A. DESIGNED**  
 Dip. Tech. Eng.  
 DD.MM.YYYY

REVIEWER  
**B. CHECKED**  
 Beng  
 DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
**C. INDEPENDENT**  
 Beng  
 DD.MM.YYYY



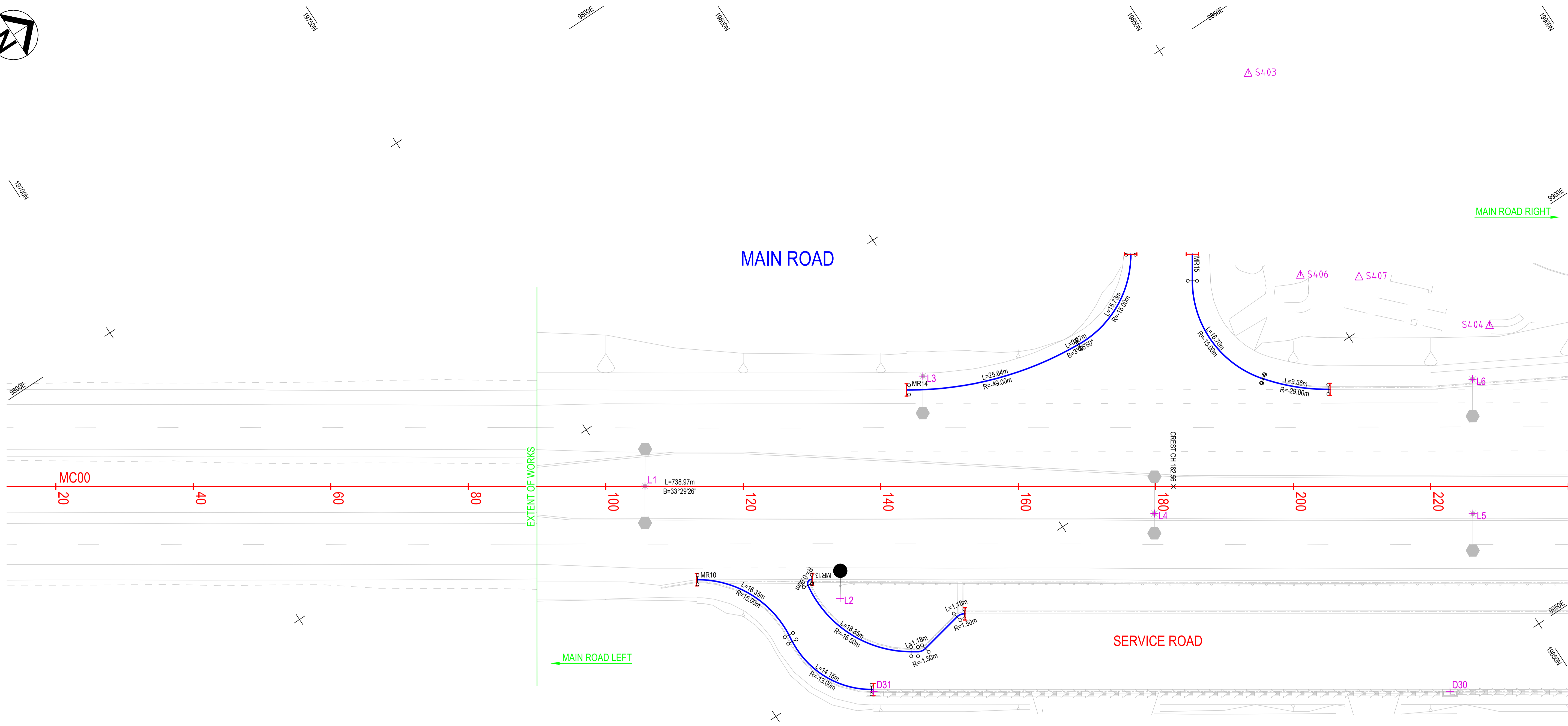
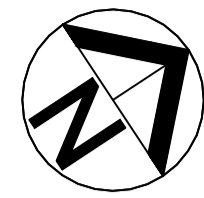
PROJECT No.: FILE No.:  
 DESIGN No.: SURVEY No.:  
 PROJECT START ROAD RUNNING DISTANCE:  
 MC10; CH 360 = RRD 154.14  
 PROJECT END ROAD RUNNING DISTANCE:  
 MC10; CH 620 = RRD 153.88

SCALES:  
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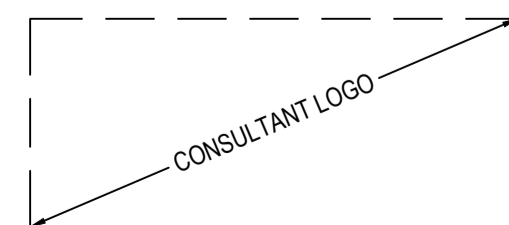


**ROAD No. 1234 / NCRN / NCRN  
 MAIN ROAD  
 INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
 MC00; CH 240 TO CH 460  
 VEGETATION AND DEMOLITION**

DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: D. ACCEPT TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: 12345678	DRAWING No.: 1234	SHEET No.: 74	AMEND No.: 0
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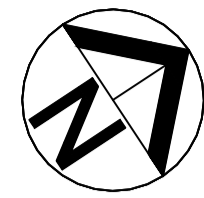
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- NOTES:**
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE 3D MODEL (KNet # 12345678) FORMALLY ISSUE FOR CONSTRUCTION.
  - FOR SETOUT TABLES REFER SHEET 83.
  - THE REFERENCE POINT FOR THE SETTING OUT OF A DRAINAGE STRUCTURE IS SHOWN ON THE STANDARD DRAWING FOR EACH STRUCTURE.
  - THE REFERENCE POINT FOR THE SETTING OUT OF A LIGHT POLE IS THE CENTRE OF POLE.
  - THE REFERENCE POINT FOR THE SETTING OUT OF A TRAFFIC SIGNAL POLE IS THE CENTRE OF POLE.
  - THE REFERENCE POINT FOR THE SETTING OUT OF A PEDESTRIAN RAMP IS THE CENTRE RAMP AT THE KERB INVERT.
  - THE LEVEL DATUM IS AUSTRALIAN HEIGHT DATUM (AHD).
  - THE COORDINATE BASE IS LOCAL.

INDEX SHEET REFERENCE: XXXX SHEET X 		DESIGNED <b>A. DESIGNED</b> Dip. Tech. Eng. DD.MM.YYYY		 <b>Government of South Australia</b> Department for Infrastructure and Transport		PROJECT No.: DESIGN No.: SURVEY No.: PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14 PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88		<b>ROAD No. 1234 / NCRN / NCRN          MAIN ROAD          INTERSECTION; SIDE ROAD A AND SIDE ROAD B          MC00; CH 20 TO CH 240          GEOMETRIC SETOUT</b>											
UNCONTROLLED COPY WHEN PRINTED 100 MILLIMETRES ON ORIGINAL DRAWING ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE		REVIEWER <b>B. CHECKED</b> Beng DD.MM.YYYY		INDEPENDENT DESIGN CERTIFIER (IF REQUIRED) <b>C. INDEPENDENT</b> Beng DD.MM.YYYY		SCALES: 		DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2		ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY		ACCEPTANCE FORM KNET No.: <b>12345678</b> IN ACCORDANCE WITH DP013		DRAWING No.: <b>1234</b> SHEET LATITUDE -34.641213 SHEET LONGITUDE 138.723068		SHEET No.: <b>78</b>		AMEND No.: <b>0</b>	

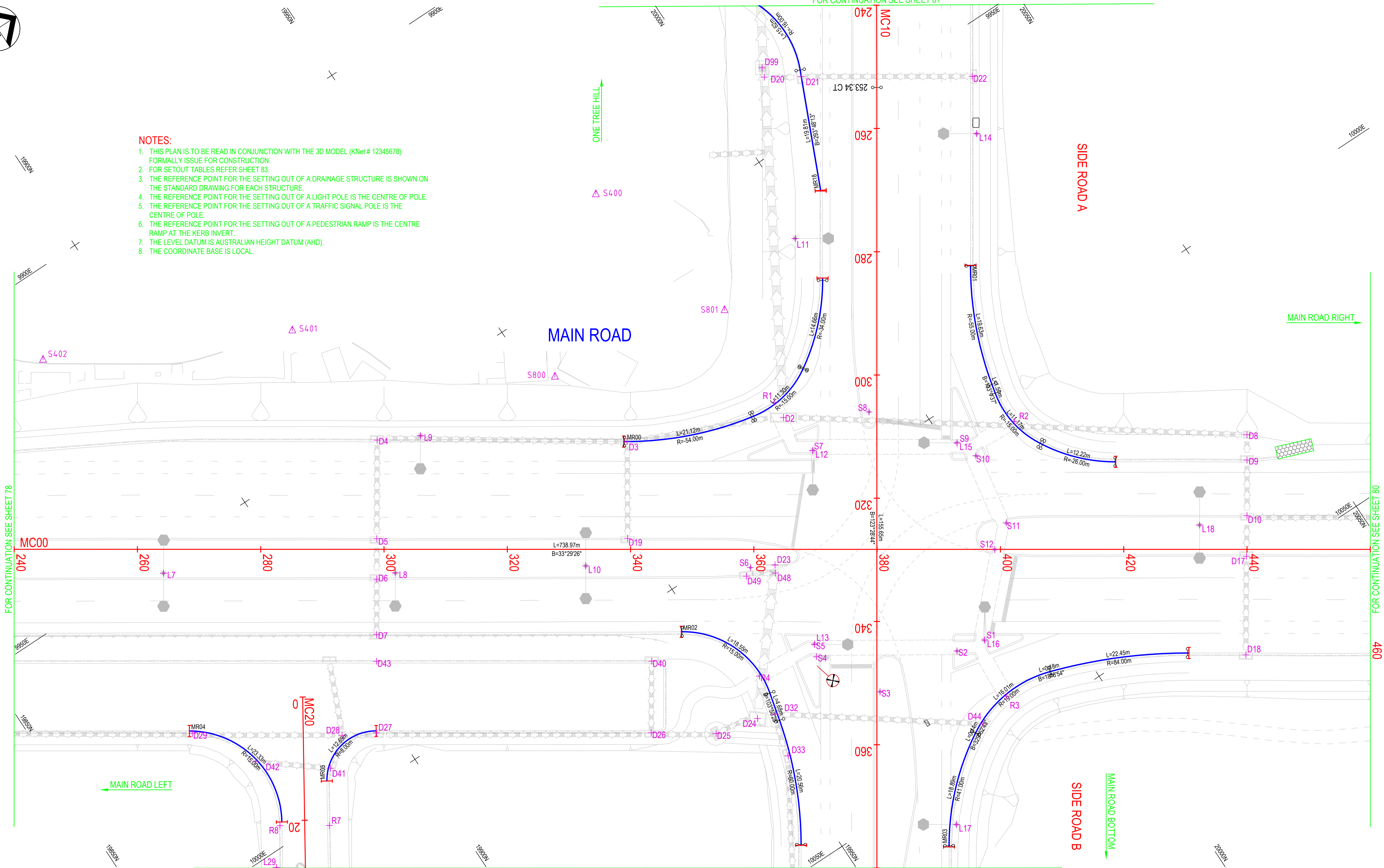
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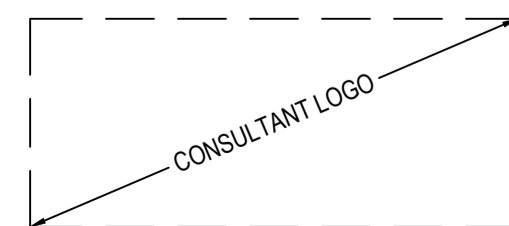
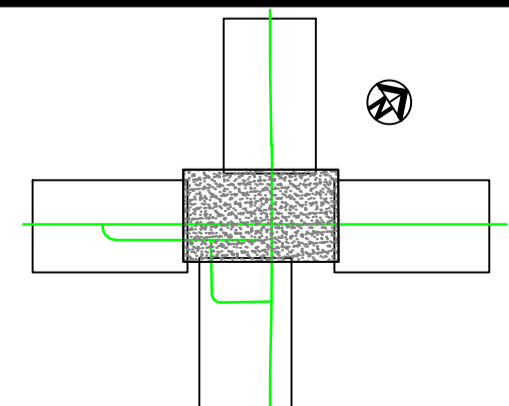


1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE 3D MODEL (KNet # 12345678) FORMALLY ISSUE FOR CONSTRUCTION.
2. FOR SETOUT TABLES REFER SHEET 83.
3. THE REFERENCE POINT FOR THE SETTING OUT OF A DRAINAGE STRUCTURE IS SHOWN ON THE STANDARD DRAWING FOR EACH STRUCTURE.
4. THE REFERENCE POINT FOR THE SETTING OUT OF A LIGHT POLE IS THE CENTRE OF POLE.
5. THE REFERENCE POINT FOR THE SETTING OUT OF A TRAFFIC SIGNAL POLE IS THE CENTRE OF POLE.
6. THE REFERENCE POINT FOR THE SETTING OUT OF A PEDESTRIAN RAMP IS THE CENTRE RAMP AT THE KERB INVERT.
7. THE LEVEL DATUM IS AUSTRALIAN HEIGHT DATUM (AHD).
8. THE COORDINATE BASE IS LOCAL.

FOR CONTINUATION SEE SHEET 81



FOR CONTINUATION SEE SHEET 78

FOR CONTINUATION SEE SHEET 80

INDEX SHEET REFERENCE: XXXX SHEET X  				DESIGNED <b>A. DESIGNED</b> Dip. Tech. Eng. DD.MM.YYYY REVIEWER <b>B. CHECKED</b> Beng DD.MM.YYYY INDEPENDENT DESIGN CERTIFIER (IF REQUIRED) <b>C. INDEPENDENT</b> Beng DD.MM.YYYY QUALIFICATION DATE: Beng DD.MM.YYYY		 <b>Government of South Australia</b> Department for Infrastructure and Transport		PROJECT No.: FILE No.: DESIGN No.: SURVEY No.: PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14 PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88 SCALES: 		<b>ROAD No. 1234 / NCRN / NCRN</b> <b>MAIN ROAD</b> <b>INTERSECTION; SIDE ROAD A AND SIDE ROAD B</b> <b>MC00; CH 240 TO CH 460</b> <b>GEOMETRIC SETOUT</b>				DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2		ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY		ACCEPTANCE FORM KNET No.: <b>12345678</b> IN ACCORDANCE WITH DP013		DRAWING No.: <b>1234</b>		SHEET No.: <b>79</b>		AMEND No.: <b>0</b>	
UNCONTROLLED COPY WHEN PRINTED				100 MILLIMETRES ON ORIGINAL DRAWING				ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE																	
No. AMENDMENT DESCRIPTION		BY	CHECK	ACCEPTANCE	DATE																				

CAD FILE NAME: 1234 SHEET 0079.DWG

POINT SETOUT TABLE

SYMBOL	ID	X	Y	Z
SURVEY STATIONS				
	S001	10000.000	20000.000	59.865
	S002	10124.451	20123.819	59.399
	S003	10144.953	20216.365	58.004
	S004	10209.989	20253.534	58.457
	S005	9890.216	19767.621	62.280
	S100	10028.476	19961.094	60.962
	S101	9867.966	19794.714	61.445
	S102	10008.234	19972.308	60.702
	S104	9995.426	19969.777	60.297
	S105	9873.900	20077.859	56.124
	S106	10166.045	19886.515	64.099
	S107	9949.975	19885.385	61.194
	S108	9799.032	19656.369	60.719
	S300	10029.628	19947.741	60.899
	S301	10250.388	20379.756	57.805
	S302	10320.588	19783.008	68.513
	S303	9704.180	19482.098	-89.000
	S400	9939.757	19975.055	59.315
	S401	9931.006	19921.793	59.881
	S402	9912.678	19885.436	60.003
	S403	9859.938	19858.893	60.428
	S404	9909.907	19867.926	61.538
	S405	9918.856	19887.458	60.621
	S406	9888.626	19849.012	62.350
	S407	9893.546	19855.986	61.814
	S410	9984.375	19883.777	61.703
	S411	10027.570	19850.284	63.047
	S412	10082.660	19941.381	62.261
	S413	10210.435	19833.633	65.708
	S414	10086.523	19865.795	64.032
	S415	10157.393	19844.351	65.461
	S450	10003.997	19967.434	56.685
	S451	10012.548	19961.467	57.729
	S452	9982.575	19982.785	56.510
	S800	9960.785	19953.179	60.174
	S801	9966.950	19962.079	59.882
	S802	9948.129	19927.044	60.240
	S803	9931.577	19906.276	60.484
	S805	10064.890	19844.459	63.942
	S806	10113.575	19900.662	63.433

POINT SETOUT TABLE

SYMBOL	ID	X	Y	Z
PEDESTRIAN RAMP POINTS				
+R?	R1	9983.818	19980.557	60.429
	R2	10007.892	20011.362	60.152
	R3	10044.457	19985.710	60.698
	R4	10019.569	19954.063	61.000
	R5	10095.527	19896.858	63.145
	R6	10103.872	19893.604	63.089
	R7	10001.296	19882.512	61.999
	R8	9996.911	19875.821	61.998
TRAFFIC SIGNAL POINTS				
+S?	S1	10034.853	19987.760	60.860
	S2	10033.855	19983.042	60.944
	S3	10032.481	19968.972	61.369
	S4	10022.045	19963.518	61.265
	S5	10020.198	19964.372	61.140
	S6	10004.075	19962.564	61.242
	S7	9993.830	19981.459	60.640
	S8	9993.635	19992.539	60.618
	S9	10005.729	20001.679	60.407
	S10	10009.129	20003.072	60.435
	S11	10020.952	20001.160	60.838
	S12	10023.518	19997.227	60.916

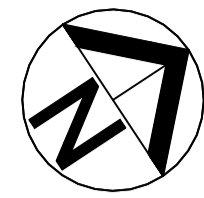
ALIGNMENT SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
MC00 HORIZONTAL SEGMENTS								
S	0	9803.272	19664.424	60.78	33°29'25.59"	LINE		738.966
E	738.966	10211.032	20280.705	58.189	33°29'25.59"			
MC10 HORIZONTAL SEGMENTS								
S	0	9737.686	20160.215	52.344	123°29'12.54"	LINE		66.481
TC	66.481	9793.132	20123.534	53.912	123°29'12.54"	ARC	-2500	46.98
CT	113.461	9832.555	20097.983	55.004	122°24'36.42"	LINE		93.244
TC	206.705	9911.275	20048.006	57.499	122°24'36.42"	ARC	2500	46.635
CT	253.34	9950.41	20022.645	58.904	123°28'44.10"	LINE		155.652
TC	408.992	10080.237	19936.783	62.308	123°28'44.10"	ARC	2500	54.158
CT	463.15	10125.083	19906.421	63.594	124°43'12.47"	LINE		70.439
TC	533.588	10182.98	19866.301	64.972	124°43'12.47"	ARC	-2500	57.667
CT	591.255	10230.753	19834.006	66.134	123°23'54.61"	LINE		68.791
E	660.047	10288.185	19796.139	67.787	123°23'54.61"			
MC20 HORIZONTAL SEGMENTS								
S	0	9981.528	19890.395	61.913	122°34'25.66"	LINE		82.374
TC	82.374	10050.944	19846.046	63.564	122°34'25.66"	ARC	-13.5	21.295
CT	103.669	10069.637	19850.23	63.902	32°11'42.27"	LINE		77.78
E	181.448	10111.078	19916.05	63.24	32°11'42.27"			
MR00 HORIZONTAL SEGMENTS								
S	0	9975.692	19956.707	60.841	33°45'44.96"	LINE		0.1
TC	0.1	9975.748	19956.791	60.841	33°45'44.96"	ARC	-54	21.119
CT	21.219	9983.798	19976.169	60.649	11°21'16.89"	LINE		0.996
TC	21.615	9983.876	19976.558	60.636	11°21'16.89"	ARC	-15	11.303
CT	32.918	9981.916	19987.419	60.063	328°10'55.85"	LINE		0.216
TC	33.134	9981.802	19987.603	60.054	328°10'55.85"	ARC	-34	14.659
CT	47.793	9971.666	19998.037	59.582	303°28'44.10"	LINE		0.372
E	48.166	9971.356	19998.242	59.571	303°28'44.10"			
MR01 HORIZONTAL SEGMENTS								
S	0	9982.879	20019.395	59.317	123°28'44.09"	LINE		0.1
TC	0.1	9982.962	20019.34	59.32	123°28'44.09"	ARC	-55	19.633
CT	19.733	10000.904	20011.631	59.949	103°01'36.86"	LINE		1.508
TC	21.24	10002.373	20011.291	59.997	103°01'36.86"	ARC	-15	11.171
CT	32.411	10013.173	20012.868	60.315	60°21'26.74"	LINE		0.454
TC	32.865	10013.567	20013.092	60.322	60°21'26.74"	ARC	-26	12.219
CT	45.084	10022.407	20021.366	60.42	33°25'47.67"	LINE		0.1
E	45.184	10022.462	20021.449	60.42	33°25'47.67"			
MR02 HORIZONTAL SEGMENTS								
S	0	10006.588	19947.467	61.161	33°00'15.64"	LINE		0.1
TC	0.1	10006.642	19947.551	61.161	33°00'15.64"	ARC	15	18.545
CT	18.645	10022.81	19953.945	60.972	103°50'27.92"	LINE		4.684
TC	23.329	10027.358	19952.824	60.895	103°50'27.92"	ARC	60	20.565
CT	43.894	10046.102	19944.612	61.21	123°28'44.11"	LINE		0.1
E	43.994	10046.186	19944.557	61.211	123°28'44.11"			
MR03 HORIZONTAL SEGMENTS								
S	0	10059.651	19964.425	61.234	303°28'44.11"	LINE		0.184
TC	0.184	10059.498	19964.526	61.23	303°28'44.11"	ARC	41	18.891
CT	19.075	10046.651	19978.149	60.87	329°52'43.10"	LINE		0.139
TC	19.214	10046.582	19978.269	60.867	329°52'43.10"	ARC	19	16.007
CT	35.221	10044.961	19993.722	60.641	18°08'53.55"	LINE		0.183
TC	35.404	10045.018	19993.896	60.64	18°08'53.55"	ARC	84	22.454
CT	57.858	10054.764	20014.051	60.452	33°27'50.24"	LINE		0.228
E	58.086	10054.89	20014.241	60.45	33°27'50.24"			
MR04 HORIZONTAL SEGMENTS								
S	0	9975.978	19872.028	61.902	122°34'25.66"	ARC	15	23.327
E	23.327	9996.567	19876.396	62.017	122°34'25.66"			
MR09 HORIZONTAL SEGMENTS								
S	0	10008.671	19941.424	61.289	33°28'12.37"	LINE		0.1
TC	0.1	10008.727	19941.507	61.288	33°28'12.37"	ARC	0.9	1.414
CT	1.514	10009.974	19941.762	61.308	123°28'12.22"	LINE		9.2
TC	10.714	10017.648	19936.688	61.308	123°28'12.22"	ARC	0.9	1.414
CT	12.127	10017.902	19935.441	61.288	213°28'12.20"	LINE		0.1
E	12.227	10017.847	19935.357	61.289	213°28'12.20"			
MR10 HORIZONTAL SEGMENTS								
S	0	9877.057	19751.378	62.066	33°27'15.45"	LINE		0.1
TC	0.1	9877.112	19751.461	62.068	33°27'15.45"	ARC	15	16.35
CT	16.45	9891.171	19758.112	62.229	95°54'29.90"	LINE		1.065
TC	17.515	9892.23	19758.003	62.235	95°54'29.90"	ARC	-13	14.151
CT	31.666	9904.404	19763.751	62.369	33°32'27.79"	LINE		0.319
E	31.985	9904.58	19764.017	62.373	33°32'27.79"			
MR13 HORIZONTAL SEGMENTS								
S	0	9886.311	19765.426	62.26	213°35'28.13"	LINE		0.1
TC	0.1	9886.256	19765.343	62.259	213°35'28.13"	ARC	-0.6	1.201
CT	1.301	9886.662	19764.418	62.262	98°56'26.87"	LINE		0.009
TC	1.309	9886.671	19764.417	62.262	98°56'26.87"	ARC	-16.5	18.854
CT	20.164	9902.999	19771.617	62.601	33°28'12.22"	LINE		0.991
TC	21.154	9903.546	19772.443	62.618	33°28'12.22"	ARC	-1.5	1.178
CT	22.332	9903.764	19773.57	62.616	348°28'12.22"	LINE		6.536
TC	28.868	9902.458	19779.974	62.533	348°28'12.22"	ARC	1.5	1.178
CT	30.046	9902.676	19781.101	62.532	33°28'12.18"	LINE		0.1
E	30.146	9902.731	19781.184	62.533	33°28'12.18"			

ALIGNMENT SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
MR14 HORIZONTAL SEGMENTS								
S	0	9870.866	19792.057	62.008	33°34'29.43"	LINE		0.368
TC	0.368	9871.069	19792.364	62.011	33°34'29.43"	ARC	-49	25.637
CT	26.005	9879.148	19816.388	61.405	3°35'50.08"	LINE		0.268
TC								





**LEGEND**

DESIGN FEATURES

- GUARDFENCE
- KERB INVERT
- BITUMEN EDGE
- SAW CUT
- STORMWATER PIPE / CULVERT
- OVERHEAD CABLE
- SIGN - SINGLE POST
- SIGN - DOUBLE POST
- SIGN - SINGLE POST BACK TO BACK
- LIGHT POLE
- STOBIE POLE

EXISTING FEATURES

- EDGE OF TRACK
- TOP OF BANK
- BOTTOM OF BANK
- GUTTER INVERT
- EDGE OF BUILDING WALL
- SIGN

**LEGEND**

EXISTING FEATURES

- COMMUNICATIONS
- INSPECTION COVER
- JUNCTION BOX
- MARKER POST
- UNDERGROUND CABLE

ELECTRICAL

- OVERHEAD CABLE (SAPN)
- UNDERGROUND CABLE (SAPN)
- UNDERGROUND CABLE (DIT)

GAS

- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE

SEWER

- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE

WATER

- FIRE PLUG MARKER POST
- INSPECTION COVER
- JUNCTION BOX
- UNDERGROUND PIPE

STORMWATER

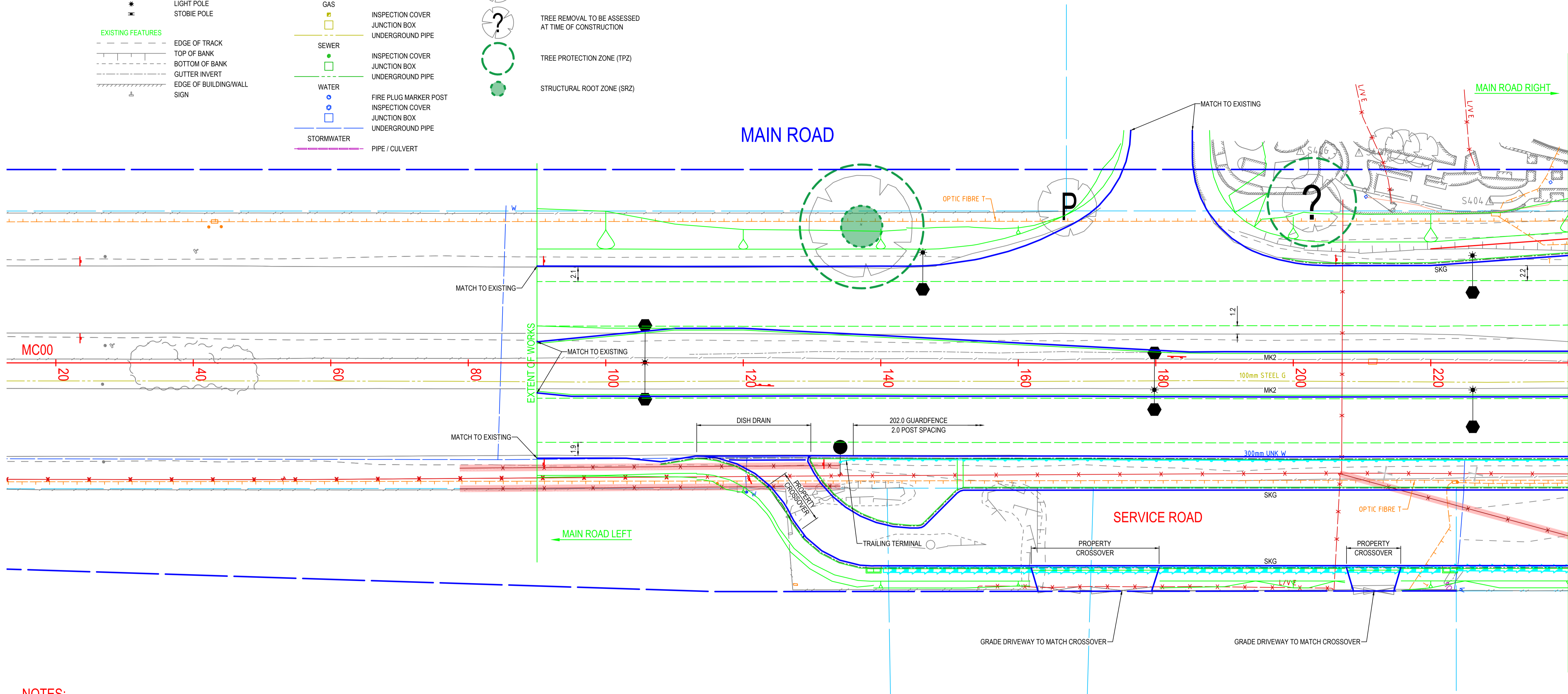
- PIPE / CULVERT

**LEGEND**

EXISTING FEATURES

VEGETATION

- EDGE OF VEGETATION
- TREE
- VEGETATION TO BE PRUNED
- TREE REMOVAL TO BE ASSESSED AT TIME OF CONSTRUCTION
- TREE PROTECTION ZONE (TPZ)
- STRUCTURAL ROOT ZONE (SRZ)



**NOTES:**

1. FOR VEGETATION AND DEMOLITION DETAILS SEE DRG 1234 SHEET 73 - 77.
2. FOR STORMWATER PIT AND PIPE DETAILS SEE DRG 1234 SHEET 89 - 94.
3. FOR SETOUT OF TRAFFIC CONTROL DEVICES SEE DRG 1234 SHEET 101 - 105.
4. KERB RAMPS ARE TYPE 3 UNLESS OTHERWISE SHOWN.
5. FOR KERB RAMP TYPE AND INSTALLATION DETAILS REFER STANDARD DRAWINGS S-4020 SHEET 1, S-4074, SHEETS 6 & 7.
6. FOR KERB & GUTTER, MEDIAN KERB, DISH DRAINS & PROPERTY CROSSOVER DETAILS REFER TO STANDARD DRAWING S-4070 SHEETS 6 & 7.
7. FOR GUARDFENCE DETAILS REFER TO DRAWING S-4050 SHEETS 36 - 47.
8. AT ALL POINTS LABELLED 'MATCH TO EXISTING', A SMOOTH HORIZONTAL AND VERTICAL TRANSITION SHALL BE MADE DURING CONSTRUCTION.

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

DESIGNED	<b>A. DESIGNED</b>
QUALIFICATION	Dip. Tech. Eng.
DATE:	DD.MM.YYYY
REVIEWER	<b>B. CHECKED</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY
INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)	<b>C. INDEPENDENT</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY

**Government of South Australia**  
Department for Infrastructure and Transport

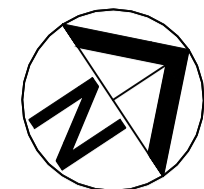
PROJECT No.:	FILE No.:
DESIGN No.:	SURVEY No.:
PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14	
PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88	
SCALES: 	

**ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 20 TO CH 240  
GENERAL CONSTRUCTION**

DESIGNER ORG. <b>COMPANY LINE 1 COMPANY LINE 2</b>	ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: <b>12345678</b>	DRAWING No.: <b>1234</b>	SHEET No.: <b>84</b>	AMEND No.: <b>0</b>
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IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.641213 SHEET LONGITUDE 138.723068

CAD FILE NAME: 1234 SHEET 0084.DWG



**LEGEND**

DESIGN FEATURES

- GUARDFENCE
- KERB INVERT
- BITUMEN EDGE
- SAW CUT
- STORMWATER PIPE / CULVERT
- OVERHEAD CABLE
- SIGN - SINGLE POST
- SIGN - DOUBLE POST
- SIGN - SINGLE POST BACK TO BACK
- LIGHT POLE
- STOBIE POLE

EXISTING FEATURES

- EDGE OF TRACK
- TOP OF BANK
- BOTTOM OF BANK
- GUTTER INVERT
- EDGE OF BUILDING/WALL
- SIGN

**LEGEND**

EXISTING FEATURES

- COMMUNICATIONS
  - INSPECTION COVER
  - JUNCTION BOX
  - MARKER POST
  - UNDERGROUND CABLE
- ELECTRICAL
  - OVERHEAD CABLE (SAPN)
  - UNDERGROUND CABLE (SAPN)
  - UNDERGROUND CABLE (DIT)
- GAS
  - INSPECTION COVER
  - JUNCTION BOX
  - UNDERGROUND PIPE
- SEWER
  - INSPECTION COVER
  - JUNCTION BOX
  - UNDERGROUND PIPE
- WATER
  - INSPECTION COVER
  - JUNCTION BOX
  - UNDERGROUND PIPE
- STORMWATER
  - FIRE PLUG MARKER POST
  - INSPECTION COVER
  - JUNCTION BOX
  - UNDERGROUND PIPE
- PIPE / CULVERT

**LEGEND**

EXISTING FEATURES

- VEGETATION
  - EDGE OF VEGETATION
  - TREE
  - VEGETATION TO BE PRUNED
  - TREE REMOVAL TO BE ASSESSED AT TIME OF CONSTRUCTION
  - TREE PROTECTION ZONE (TPZ)
  - STRUCTURAL ROOT ZONE (SRZ)

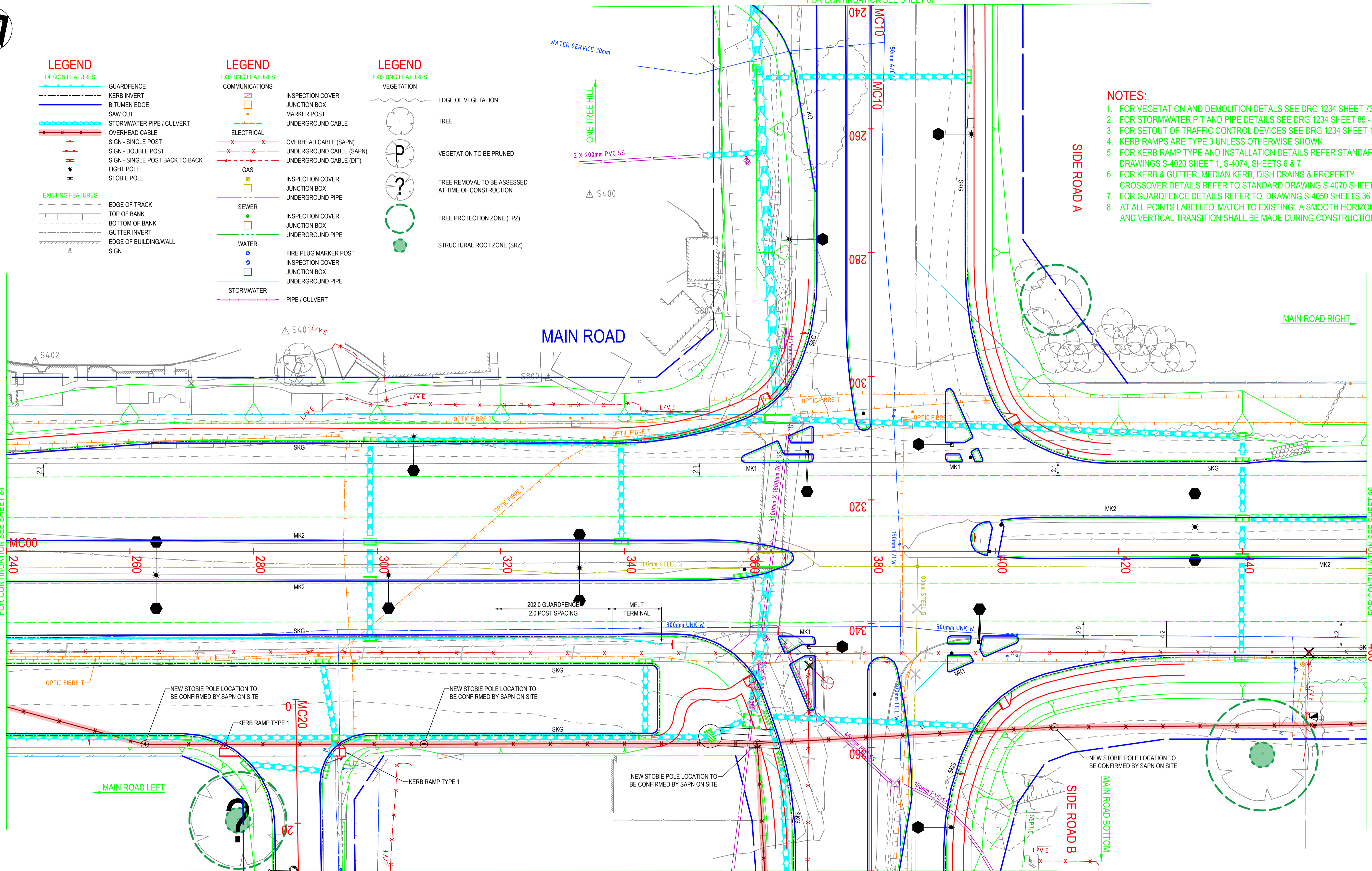
FOR CONTINUATION SEE SHEET 87

**NOTES:**

- FOR VEGETATION AND DEMOLITION DETAILS SEE DRG 1234 SHEET 73 - 77.
- FOR STORMWATER PIT AND PIPE DETAILS SEE DRG 1234 SHEET 89 - 94.
- FOR SETOUT OF TRAFFIC CONTROL DEVICES SEE DRG 1234 SHEET 101 - 105.
- KERB RAMPS ARE TYPE 3 UNLESS OTHERWISE SHOWN.
- FOR KERB RAMP TYPE AND INSTALLATION DETAILS REFER STANDARD DRAWINGS S-4020 SHEET 1, S-4074, SHEETS 6 & 7.
- FOR KERB & GUTTER, MEDIAN KERB, DISH DRAINS & PROPERTY CROSSOVER DETAILS REFER TO STANDARD DRAWING S-4070 SHEETS 6 & 7.
- FOR GUARDFENCE DETAILS REFER TO DRAWING S-4050 SHEETS 36 - 47.
- AT ALL POINTS LABELLED 'MATCH TO EXISTING', A SMOOTH HORIZONTAL AND VERTICAL TRANSITION SHALL BE MADE DURING CONSTRUCTION.

FOR CONTINUATION SEE SHEET 84

FOR CONTINUATION SEE SHEET 86



No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

UNCONTROLLED COPY WHEN PRINTED

100 MILLIMETRES ON ORIGINAL DRAWING

ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE

DESIGNED  
A. DESIGNED  
Dip. Tech. Eng.  
DD.MM.YYYY

REVIEWER  
B. CHECKED  
Beng  
DD.MM.YYYY

QUALIFICATION DATE:  
INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
C. INDEPENDENT  
Beng  
DD.MM.YYYY

Government of South Australia  
Department for Infrastructure and Transport

PROJECT No.: FILE No.:  
DESIGN No.: SURVEY No.:  
PROJECT START ROAD RUNNING DISTANCE:  
MC10; CH 360 = RRD 154.14  
PROJECT END ROAD RUNNING DISTANCE:  
MC10; CH 620 = RRD 153.88

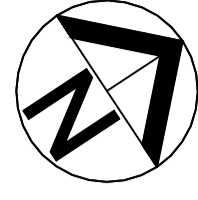
SCALES:  
6 0 3 6 9 12

ROAD No. 1234 / NCRN / NCRN  
**MAIN ROAD**  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 240 TO CH 460  
GENERAL CONSTRUCTION

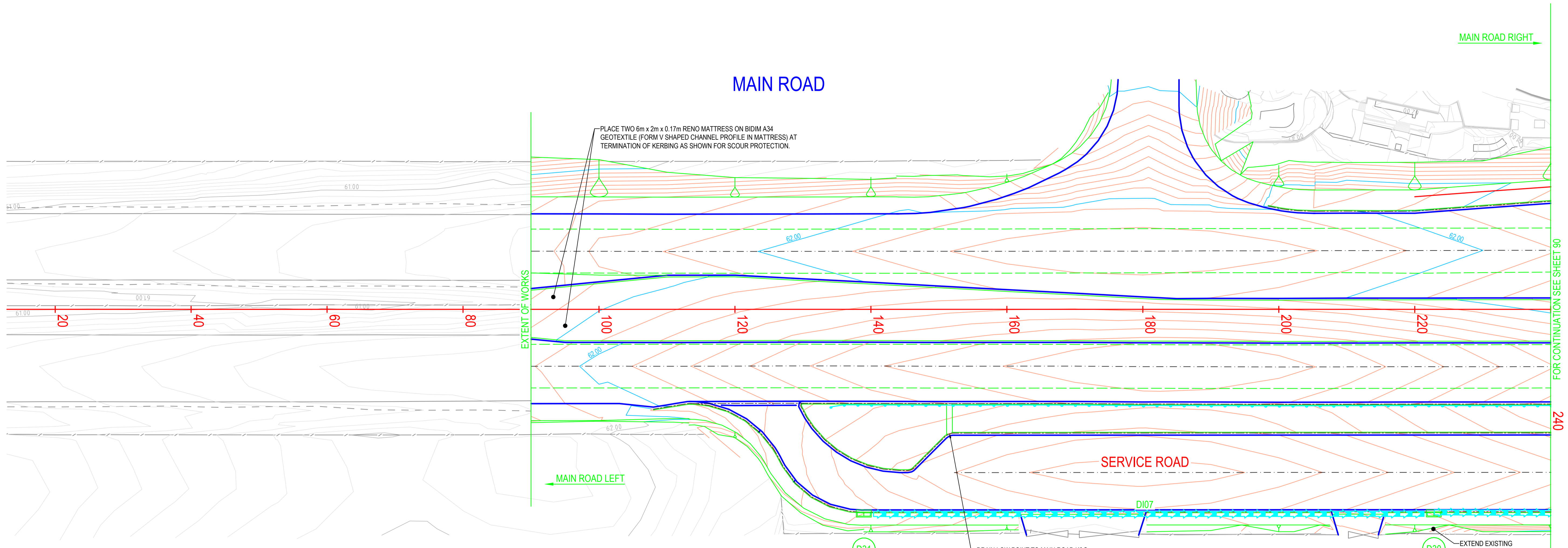
DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: D. ACCEPT TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: 12345678	DRAWING No.: 1234	SHEET No.: 85	AMEND No.: 0
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IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

CAD FILE NAME: 1234 SHEET 0085.DWG



# MAIN ROAD



06 SHEETS SEE NOTATION FOR CONTINUATION 240

### NOTES:

- DESIGN CONTOUR INTERVAL IS 0.1m. LEVELS ARE SHOWN AT 1.0m INTERVALS.
- EXISTING CONTOUR INTERVAL IS 0.1m. LEVELS ARE SHOWN AT 1.0m INTERVALS.
- FOR JUNCTION BOX AND SIDE ENTRY PIT DETAILS, REFER TO STANDARD DRAWING S-4080 SHEETS 1, 2 & 3.
- FOR DETAILS OF HEADWALLS & WINGWALLS REFER STANDARD DRAWING S-4002 SHEETS 17-24.
- FOR GRATED FIELD PIT REFER TO STANDARD DRAWING No. S-4080 SHEET 6.
- THE REFERENCE POINT FOR THE SETTING OUT OF A DRAINAGE STRUCTURE IS SHOWN ON THE STANDARD DRAWING FOR EACH STRUCTURE.
- RC PIPE CLASSES HAVE BEEN SELECTED FOR A160/M1600 TRAFFIC LOADS. ASSUMING INSTALLATION WILL EQUATE TO TYPE HS2 AS DEFINED IN AUSTRALIAN STANDARD AS 3725, PIPE CLASS SHOULD BE CONFIRMED FOLLOWING CONSIDERATION OF CONSTRUCTION VEHICLE LOADING.
- FOR PIT AND PIPE DETAILS REFER DRAINAGE SCHEDULES ON SHEET 94.
- FOR SET OUT STRING CO-ORDINATES REFER THE GEOMETRIC SETOUT PLANS.
- THE DESIGN ANNUAL EXCEEDANCE PROBABILITY (AEP) FOR DRAINAGE OF ROAD PAVEMENT IS 5%.
- THE LEVEL DATUM IS AUSTRALIAN HEIGHT DATUM (AHD).
- THE COORDINATE BASE IS LOCAL.

### LEGEND

#### DESIGN FEATURES

- MINOR CONTOUR
- MAJOR CONTOUR
- GUARDFENCE
- KERB INVERT
- BITUMEN EDGE
- SAW CUT
- LEVEL STRING
- STORMWATER PIPE / CULVERT
- COMBINED JUNCTION BOX / SIDE ENTRY GULLY
- SIDE ENTRY GULLY - DOUBLE
- JUNCTION BOX
- HEADWALL
- DRIVEABLE HEADWALL
- GRATED FIELD PIT
- DRAINAGE STRUCTURE IDENTIFIER
- RENO MATTRESS

#### EXISTING FEATURES

- MINOR CONTOUR
- MAJOR CONTOUR
- EDGE OF TRACK
- TOP OF BANK
- BOTTOM OF BANK
- GUTTER INVERT
- STORMWATER PIPE / CULVERT

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

UNCONTROLLED COPY WHEN PRINTED

100 MILLIMETRES ON ORIGINAL DRAWING

ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE

DESIGNED	<b>A. DESIGNED</b>
QUALIFICATION	Dip. Tech. Eng.
DATE:	DD.MM.YYYY
REVIEWER	<b>B. CHECKED</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY
INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)	<b>C. INDEPENDENT</b>
QUALIFICATION	Beng
DATE:	DD.MM.YYYY

**Government of South Australia**

Department for Infrastructure and Transport

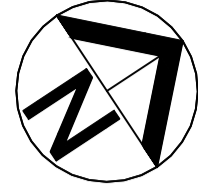
PROJECT No.:	FILE No.:
DESIGN No.:	SURVEY No.:
PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14	
PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88	
SCALES: 6 0 3 6 9 12	

**ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 20 TO CH 240  
STORMWATER AND CONTOURS**

DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: <b>12345678</b> IN ACCORDANCE WITH DP013	DRAWING No.: <b>1234</b>	SHEET No.: <b>89</b>	AMEND No.: <b>0</b>
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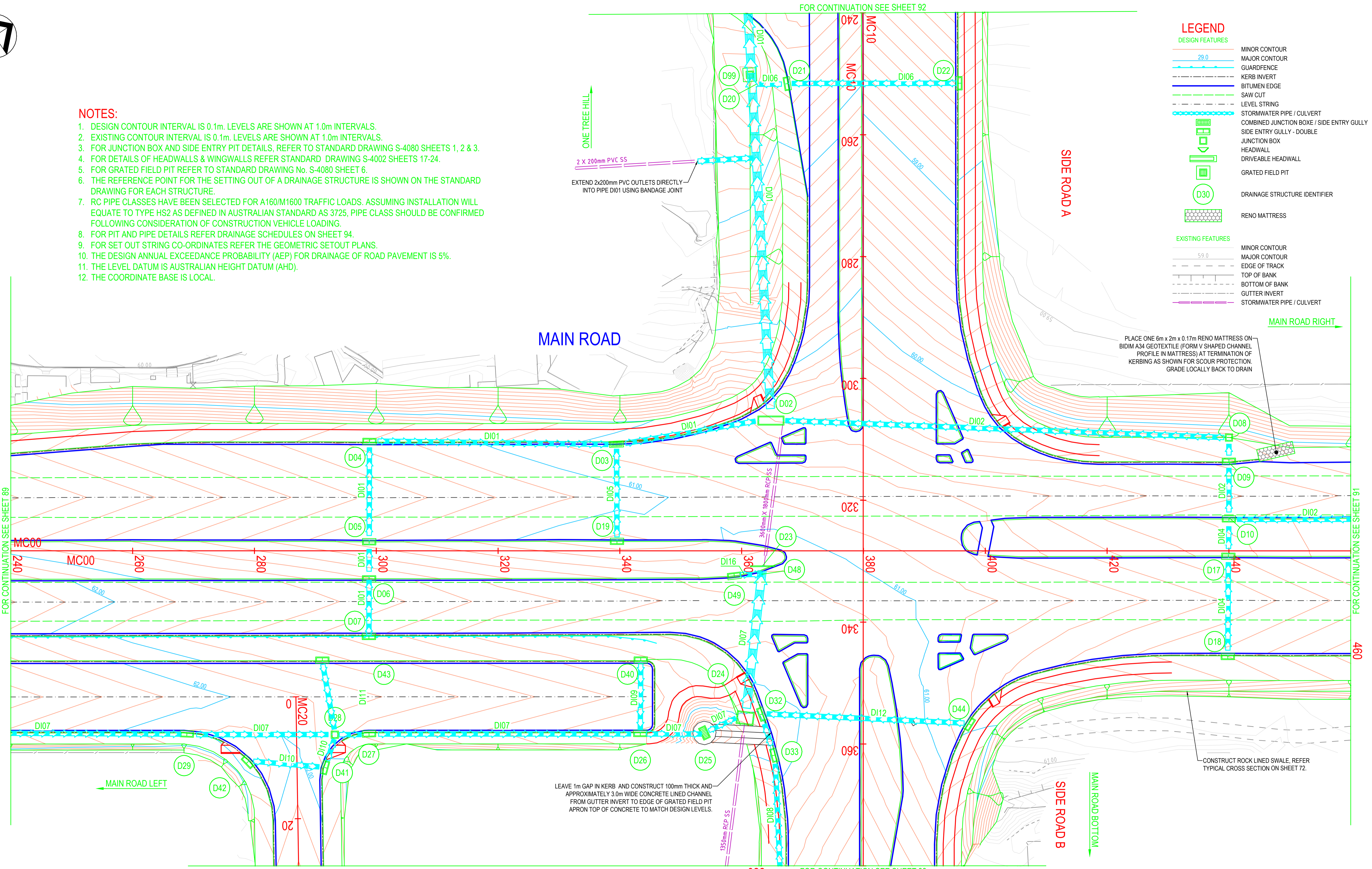
SHEET LATITUDE -34.641213 SHEET LONGITUDE 138.723068

CAD FILE NAME: 1234 SHEET 0089.DWG



**NOTES:**

- DESIGN CONTOUR INTERVAL IS 0.1m. LEVELS ARE SHOWN AT 1.0m INTERVALS.
- EXISTING CONTOUR INTERVAL IS 0.1m. LEVELS ARE SHOWN AT 1.0m INTERVALS.
- FOR JUNCTION BOX AND SIDE ENTRY PIT DETAILS, REFER TO STANDARD DRAWING S-4080 SHEETS 1, 2 & 3.
- FOR DETAILS OF HEADWALLS & WINGWALLS REFER STANDARD DRAWING S-4002 SHEETS 17-24.
- FOR GRATED FIELD PIT REFER TO STANDARD DRAWING No. S-4080 SHEET 6.
- THE REFERENCE POINT FOR THE SETTING OUT OF A DRAINAGE STRUCTURE IS SHOWN ON THE STANDARD DRAWING FOR EACH STRUCTURE.
- RC PIPE CLASSES HAVE BEEN SELECTED FOR A160/M1600 TRAFFIC LOADS. ASSUMING INSTALLATION WILL EQUATE TO TYPE HS2 AS DEFINED IN AUSTRALIAN STANDARD AS 3725, PIPE CLASS SHOULD BE CONFIRMED FOLLOWING CONSIDERATION OF CONSTRUCTION VEHICLE LOADING.
- FOR PIT AND PIPE DETAILS REFER DRAINAGE SCHEDULES ON SHEET 94.
- FOR SET OUT STRING CO-ORDINATES REFER THE GEOMETRIC SETOUT PLANS.
- THE DESIGN ANNUAL EXCEEDANCE PROBABILITY (AEP) FOR DRAINAGE OF ROAD PAVEMENT IS 5%.
- THE LEVEL DATUM IS AUSTRALIAN HEIGHT DATUM (AHD).
- THE COORDINATE BASE IS LOCAL.



**LEGEND**

- DESIGN FEATURES**
- 29.0 MINOR CONTOUR
  - MAJOR CONTOUR
  - GUARDFENCE
  - KERB INVERT
  - BITUMEN EDGE
  - SAW CUT
  - LEVEL STRING
  - STORMWATER PIPE / CULVERT
  - COMBINED JUNCTION BOX / SIDE ENTRY GULLY
  - SIDE ENTRY GULLY - DOUBLE
  - JUNCTION BOX
  - HEADWALL
  - DRIVEABLE HEADWALL
  - GRATED FIELD PIT
  - DRAINAGE STRUCTURE IDENTIFIER
  - RENO MATTRESS
- EXISTING FEATURES**
- 59.0 MINOR CONTOUR
  - MAJOR CONTOUR
  - EDGE OF TRACK
  - TOP OF BANK
  - BOTTOM OF BANK
  - GUTTER INVERT
  - STORMWATER PIPE / CULVERT

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

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DESIGNED  
**A. DESIGNED**  
 Dip. Tech. Eng.  
 DD.MM.YYYY

REVIEWER  
**B. CHECKED**  
 Beng  
 DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
**C. INDEPENDENT**  
 Beng  
 DD.MM.YYYY

QUALIFICATION DATE:  
 Beng  
 DD.MM.YYYY

**Government of South Australia**  
 Department for Infrastructure and Transport

PROJECT No.: FILE No.:  
 DESIGN No.: SURVEY No.:

PROJECT START ROAD RUNNING DISTANCE:  
 MC10; CH 360 = RRD 154.14

PROJECT END ROAD RUNNING DISTANCE:  
 MC10; CH 620 = RRD 153.88

SCALES:  
 6 0 3 6 9 12

**ROAD No. 1234 / NCRN / NCRN  
 MAIN ROAD  
 INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
 MC00; CH 240 TO CH 460  
 STORMWATER AND CONTOURS**

DESIGNER ORG. ACCEPTED FOR USE. ACCEPTANCE FORM KNET No. DRAWING No. SHEET No. AMEND No.  
 COMPANY LINE 1 D. ACCEPT 12345678 1234 90 0  
 COMPANY LINE 2 TITLE: PROJECT MANAGER DATE: DD.MM.YYYY IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

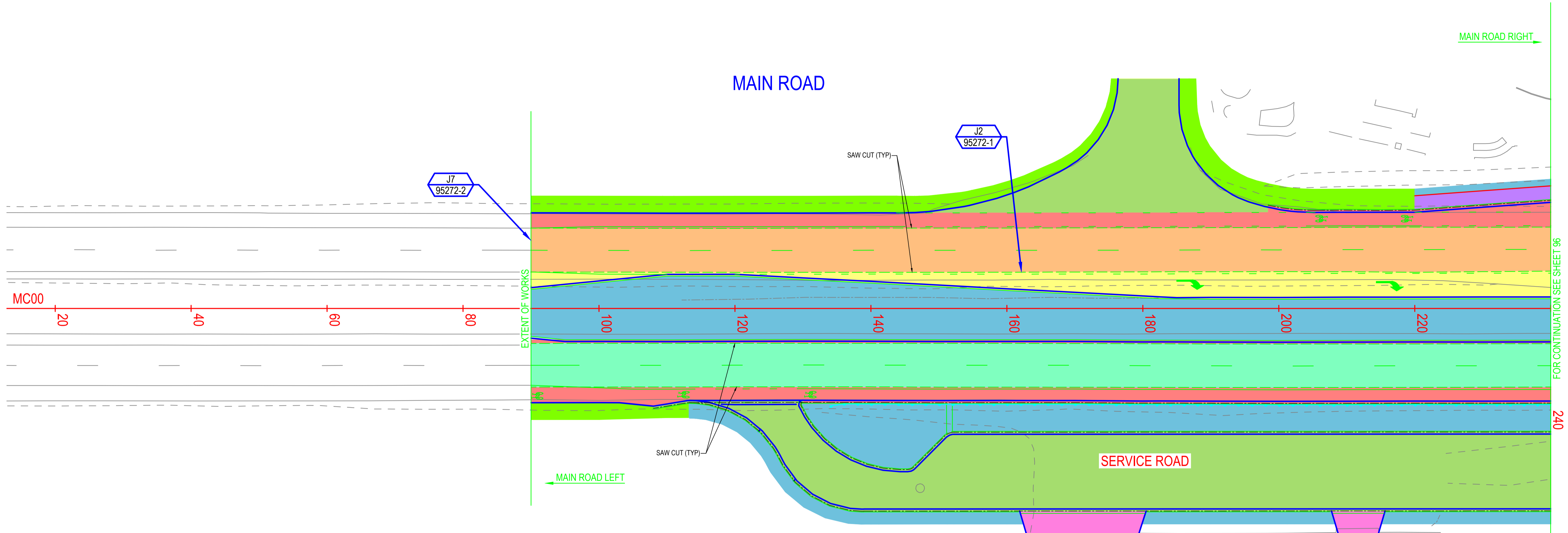
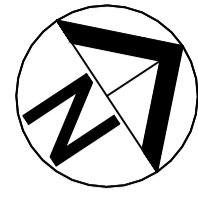
CAD FILE NAME: 1234 SHEET 0090.DWG

PIT DETAILS

ID	DESCRIPTION	SETOUT DATA				SIZE(mm)			JUNCTIONS				COMMENTS	
		X=	Y=	TOP RL	INV RL	WIDTH	LENGTH	DEPTH	ID	INV	ID	INV		
D01	Headwall Outlet	9877.508	20044.166	56.502	54.400			2102						
D02	Junction Box - Custom	9986.739	19980.462	60.518	56.539	4000	1200	3978	D102	56.610				CUSTOM JUNCTION BOX. REFER STRUCTURAL DRAWING 1234 SHEET XX FOR DETAILS.
D03	Combined Junction Boxes With Side Entry Gully	9975.721	19957.326	60.838	58.617	600	1900	2220	D105	59.300				REFER DP11 STANDARD DRAWING S-4080 SHEET 13 (PIT WIDTH TO BE 600mm). CAUTION OPTIC FIBRE CABLE BEHIND PIT.
D04	Side Entry Gully - Double	9953.419	19923.465	61.297	59.004	600	1900	2293						
D05	Side Entry Gully - Double	9966.988	19914.433	61.353	59.164	600	1900	2169						
D06	Side Entry Gully - Double	9971.941	19911.136	61.705	59.223	600	1900	2482						
D07	Side Entry Gully - Double	9979.684	19905.984	61.656	59.322	600	1900	2334						
D08	Junction Box Type C	10030.554	20041.638	60.309	57.120	900	900	3190						
D09	Side Entry Gully - Double	10034.002	20039.385	60.405	57.141	600	1900	3264						
D10	Side Entry Gully - Double	10041.744	20034.227	60.467	57.204	600	1900	3263	D104	58.500				
D11	Side Entry Gully - Double	10070.469	20077.834	60.076	57.556	600	1900	2520	D103	57.940				
D12	Side Entry Gully - Double	10097.919	20119.622	59.493	57.893	600	1900	1600						
D13	Side Entry Gully - Double	10103.030	20116.127	59.717	57.932	600	1900	1785						
D14	Side Entry Gully - Double	10114.685	20108.305	59.723	58.866	600	1900	857						
D15	Side Entry Gully - Double	10075.504	20074.384	60.097	57.995	600	1900	2102						
D16	Side Entry Gully - Double	10089.048	20065.316	60.044	58.155	600	1900	1889						
D17	Side Entry Gully - Double	10046.691	20030.848	60.554	58.559	600	1900	1995						
D18	Side Entry Gully - Double	10060.231	20021.778	60.502	58.719	600	1900	1783						
D19	Side Entry Gully - Double	9989.385	19948.400	61.022	59.470	600	1900	1552						
D20	Bandage Joint	9939.430	20009.093	56.725	56.350	0	375	375						
D21	Side Entry Gully - Double	9942.064	20013.129	58.642	56.395	600	1900	2247						
D22	Side Entry Gully - Double	9957.464	20036.562	58.523	56.673	600	1900	1851						
D23	Custom	10005.925	19966.128	61.232	56.670	4028.9	150	4562						RETAINING WALL CONNECTION. REFER STRUCTURAL DRAWING 1234 SHEET XX.
D24	Junction Box - Custom	10025.137	19949.998	60.962	57.466	2500	1800	3496	D108	58.900				REMOVE FIRST 10m (APPROX) OF EXISTING 1350mm DIAMETER STORMWATER PIPE UP TO PIT. INVERT LEVEL OF EXISTING 1350mm RCP IS APPROXIMATE ONLY AND SHALL BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
D25	Grated Field Pit	10023.463	19943.070	60.550	58.607	1800	900	1944						
D26	Side Entry Gully - Double	10017.546	19934.358	61.426	58.964	600	1900	2462	D109	59.750				
D27	Side Entry Gully - Double	9992.984	19897.206	61.782	59.391	600	1900	2392						
D28	Junction Box Type C	9991.710	19892.475	61.785	59.479	900	900	2306	D110	60.050	D111	60.100		
D29	Side Entry Gully - Double	9976.549	19872.256	62.029	59.708	600	1900	2321						
D30	Side Entry Gully - Double	9951.064	19833.799	62.496	60.150	600	1900	2345						
D31	Side Entry Gully - Double	9904.830	19763.851	62.502	60.970	600	1900	1532						
D32	Side Entry Gully - Double	10026.144	19952.815	61.023	58.930	600	1900	2094	D112	58.930				
D33	Side Entry Gully - Double	10032.925	19950.824	61.026	59.177	600	1900	1849						
D34	Side Entry Gully - Double	10064.879	19931.834	61.814	59.846	600	1900	1968	D113	60.000				
D35	Side Entry Gully - Double	10087.859	19921.622	62.568	60.428	600	1900	2140						
D36	Junction Box Type C	10113.099	19905.701	63.125	61.053	900	900	2072	D114	61.600				
D37	Side Entry Gully - Double	10124.314	19899.303	63.599	61.353	600	1900	2246	D115	61.620				
D38	Grated Field Pit	10142.753	19884.778	63.603	61.573	900	900	2030						
D39	Grated Field Pit	10153.976	19900.975	63.475	61.761	900	900	1714						
D40	Side Entry Gully - Double	10007.914	19940.822	61.418	59.866	600	1900	1552						
D41	Side Entry Gully - Double	9993.611	19887.800	62.040	60.135	600	1900	1905						
D42	Side Entry Gully - Double	9986.039	19878.249	61.971	60.234	600	1900	1737						
D43	Side Entry Gully - Double	9979.081	19897.211	61.833	60.212	600	1900	1621						
D44	Side Entry Gully - Double	10046.045	19980.045	60.961	59.267	600	1900	1695						
D45	Side Entry Gully - Double	10078.557	19952.281	61.835	60.369	600	1900	1466						
D46	Side Entry Gully - Double	10109.831	19899.377	63.107	61.680	600	1900	1427						
D47	Side Entry Gully - Double	10134.258	19913.778	63.457	61.796	600	1900	1661						
D48	Bandage Joint	10006.461	19964.503	58.202	57.827	375		375						CONNECT PIPE INTO D107 VIA DIRECT BANDAGE JOINT
D49	Side Entry Gully - Double	10004.614	19961.404	61.264	58.764	600	1900	2500						
D50	Headwall Outlet	9806.774	20099.648	53.225	52.850			375						
D51	Side Entry Gully - Double	9811.020	20105.814	54.463	52.884	600	1900	1579						
D52	Side Entry Gully - Double	9816.748	20114.142	54.477	52.935	600	1900	1542						
D53	Headwall Outlet	9868.024	20056.342	54.715	54.340			375						
D54	Side Entry Gully - Double	9873.085	20063.690	56.197	54.423	600	1900	1774						
D55	Side Entry Gully - Double	9882.190	20076.933	56.174	54.584	600	1900	1590						
D56	Driveable Culvert Endwall Type 1 Outlet	10088.979	20054.437	60.095	59.870			225						
D57	Driveable Culvert Endwall Type 1 Inlet	10086.345	20050.433	60.162	59.937			225						
D58	Driveable Culvert Endwall Type 1 Outlet	10126.640	20114.332	59.325	59.100			225						
D59	Driveable Culvert Endwall Type 1 Inlet	10124.432	20109.745	59.356	59.131			225						
D60	Driveable Culvert Endwall Type 1 Outlet	10159.739	19896.326	63.855	63.630			225						
D61	Driveable Culvert Endwall Type 1 Inlet	10165.353	19891.797	63.999	63.774			225						

DRAIN DETAILS

ID	INLET-OUTLET	RUNS	SIZE (mm)	TYPE	US INV	DS INV	PLAN LENGTH	GRADE %
D101	D02 to D01	1	1800	RCP CLASS 2	56.539	54.400	125.85	1.70
D101	D03 to D02	1	375	RCP CLASS 2	58.617	58.390	22.74	1.00
D101	D04 to D03	1	375	RCP CLASS 2	59.004	58.617	38.66	1.00
D101	D05 to D04	1	375	RCP CLASS 2	59.164	59.004	16.00	1.00
D101	D06 to D05	1	375	RCP CLASS 2	59.223	59.164	5.35	1.10
D101	D07 to D06	1	375	RCP CLASS 2	59.322	59.223	9.00	1.10
D102	D08 to D02	1	375	RCP CLASS 2	57.120	56.610	72.80	0.70
D102	D09 to D08	1	375	RCP CLASS 2	57.141	57.120	3.07	0.70
D102	D10 to D09	1	375	RCP CLASS 2	57.204	57.141	9.00	0.70
D102	D11 to D10	1	375	RCP CLASS 2	57.556	57.204	50.32	0.70
D102	D12 to D11	1	375	RCP CLASS 2	57.893	57.556	48.10	0.70
D102	D13 to D12	1	375	RCP CLASS 2	57.932	57.893	5.59	0.70
D102	D14 to D13	1	450x300	RCBC	58.866	58.770	13.74	0.70
D103	D15 to D11	1	375	RCP CLASS 2	57.995	57.940	5.50	1.00
D103	D16 to D15	1	375	RCP CLASS 2	58.155	57.995	16.00	1.00
D104	D17 to D10	1	375	RCP CLASS 2	58.559	58.500	5.39	1.10
D104	D18 to D17	1	375	RCP CLASS 2	58.719	58.559	16.00	1.00
D105	D19 to D03	1	375	RCP CLASS 2	59.470	59.300	15.42	1.10
D106	D21 to D20	1	375	RCP CLASS 2	56.395	56.350	4.52	1.00
D106	D22 to D21	1	375	RCP CLASS 2	56.673	56.395	27.74	1.00
D107	D24 to D23	1	1800	RCP CLASS 2	57.466	56.670	24.11	3.30
D107	D25 to D24	1	900	RCP CLASS 2	58.607	58.450	5.59	2.80
D107	D26 to D25	1	450	RCP CLASS 2	58.964	58.607	9.17	3.90
D107	D27 to D26	1	450	RCP CLASS 2	59.391	58.964	42.64	1.00
D107	D28 to D27	1	450	RCP CLASS 2	59.479	59.391	4.22	2.10
D107	D29 to D28	1	450	RCP CLASS 2	59.708	59.479	22.89	1.00
D107	D30 to D29	1	450	RCP CLASS 2	60.150	59.708	44.21	1.00
D107	D31 to D30	1	375	RCP CLASS 2	60.970	60.150	81.95	1.00
D108	D32 to D24	1	525	RCP CLASS 2	58.930	58.900	1.28	2.30
D108	D33 to D32	1	525	RCP CLASS 2	59.177	58.930	5.15	4.80
D108	D34 to D33	1	525	RCP CLASS 2	59.846	59.177	35.21	1.90
D108	D35 to D34	1	525	RCP CLASS 2	60.428	59.846	23.28	2.50
D108	D36 to D35	1	525	RCP CLASS 2	61.053	60.428	28.43	2.20
D								

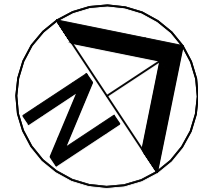


- NOTES:**
- FOR PAVEMENT DETAILS REFER SCHEDULES ON SHEET 100.
  - FOR TYPICAL JOINTING DETAILS REFER TO STANDARD DRAWING 95272 SHEETS 1 - 3 (LAYER CONFIGURATIONS MAY VARY).
  - THE LINE MARKING SHOWN HAS BEEN USED TO DETERMINE THE PAVEMENT TREATMENT CONFIGURATION AT TIME OF DESIGN. 'AS CONSTRUCTED' OR FUTURE MODIFICATIONS MADE TO THE LINE MARKING SCHEME MAY NOT BE ACCURATELY REPRESENTED ON THIS DRAWING.

**PAVEMENT TREATMENT LEGEND**

	TYPE 1		TYPE 6
	TYPE 2		TYPE 7
	TYPE 3		TYPE 8
	TYPE 4		TYPE 9
	TYPE 5		TYPE 10

INDEX SHEET REFERENCE: XXXX SHEET X				  <b>Government of South Australia</b> Department for Infrastructure and Transport		PROJECT No.: FILE No.: DESIGN No.: SURVEY No.: PROJECT START ROAD RUNNING DISTANCE: MC10; CH 360 = RRD 154.14 PROJECT END ROAD RUNNING DISTANCE: MC10; CH 620 = RRD 153.88 SCALES: 		<b>ROAD No. 1234 / NCRN / NCRN          MAIN ROAD          INTERSECTION; SIDE ROAD A AND SIDE ROAD B          MC00; CH 20 TO CH 240          PAVEMENT TREATMENT</b>							
DESIGNED <b>A. DESIGNED</b> Dip. Tech. Eng. DD.MM.YYYY		REVIEWER <b>B. CHECKED</b> Beng DD.MM.YYYY		INDEPENDENT DESIGN CERTIFIER (IF REQUIRED) <b>C. INDEPENDENT</b> Beng DD.MM.YYYY		ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY		ACCEPTANCE FORM KNET No.: <b>12345678</b>		DRAWING No.: <b>1234</b>		SHEET No.: <b>95</b>		AMEND No.: <b>0</b>	
UNCONTROLLED COPY WHEN PRINTED				100 MILLIMETRES ON ORIGINAL DRAWING				ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE							
No. AMENDMENT DESCRIPTION BY CHECK ACCEPTANCE DATE SHEET LATITUDE -34.641213 SHEET LONGITUDE 138.723068 CAD FILE NAME: 1234 SHEET 0095.DWG															



FOR CONTINUATION SEE SHEET 98

**NOTES:**

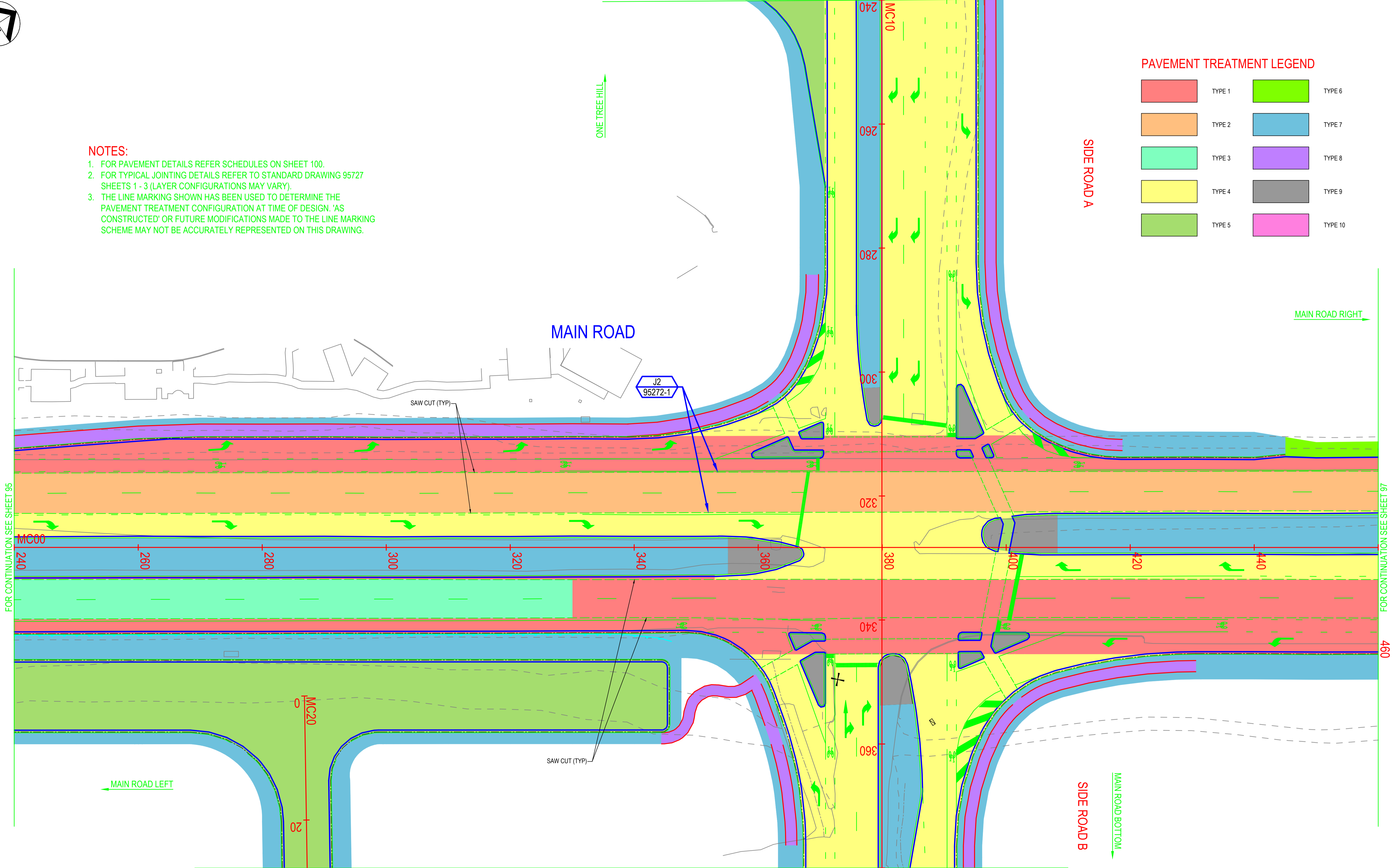
1. FOR PAVEMENT DETAILS REFER SCHEDULES ON SHEET 100.
2. FOR TYPICAL JOINTING DETAILS REFER TO STANDARD DRAWING 95727 SHEETS 1 - 3 (LAYER CONFIGURATIONS MAY VARY).
3. THE LINE MARKING SHOWN HAS BEEN USED TO DETERMINE THE PAVEMENT TREATMENT CONFIGURATION AT TIME OF DESIGN. 'AS CONSTRUCTED' OR FUTURE MODIFICATIONS MADE TO THE LINE MARKING SCHEME MAY NOT BE ACCURATELY REPRESENTED ON THIS DRAWING.

**PAVEMENT TREATMENT LEGEND**

	TYPE 1		TYPE 6
	TYPE 2		TYPE 7
	TYPE 3		TYPE 8
	TYPE 4		TYPE 9
	TYPE 5		TYPE 10

FOR CONTINUATION SEE SHEET 98

FOR CONTINUATION SEE SHEET 99



No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

INDEX SHEET REFERENCE: XXXX SHEET X

CONSULTANT LOGO

DESIGNED  
**A. DESIGNED**  
 Dip. Tech. Eng.  
 DD.MM.YYYY

REVIEWER  
**B. CHECKED**  
 Beng  
 DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
**C. INDEPENDENT**  
 Beng  
 DD.MM.YYYY

QUALIFICATION DATE:  
 Beng  
 DD.MM.YYYY

**Government of South Australia**  
 Department for Infrastructure and Transport

PROJECT No.: FILE No.:  
 DESIGN No.: SURVEY No.:

PROJECT START ROAD RUNNING DISTANCE:  
 MC10; CH 360 = RRD 154.14

PROJECT END ROAD RUNNING DISTANCE:  
 MC10; CH 620 = RRD 153.88

SCALES:  
 6 0 3 6 9 12

**ROAD No. 1234 / NCRN / NCRN  
 MAIN ROAD  
 INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
 MC00; CH 240 TO CH 460  
 PAVEMENT TREATMENT**

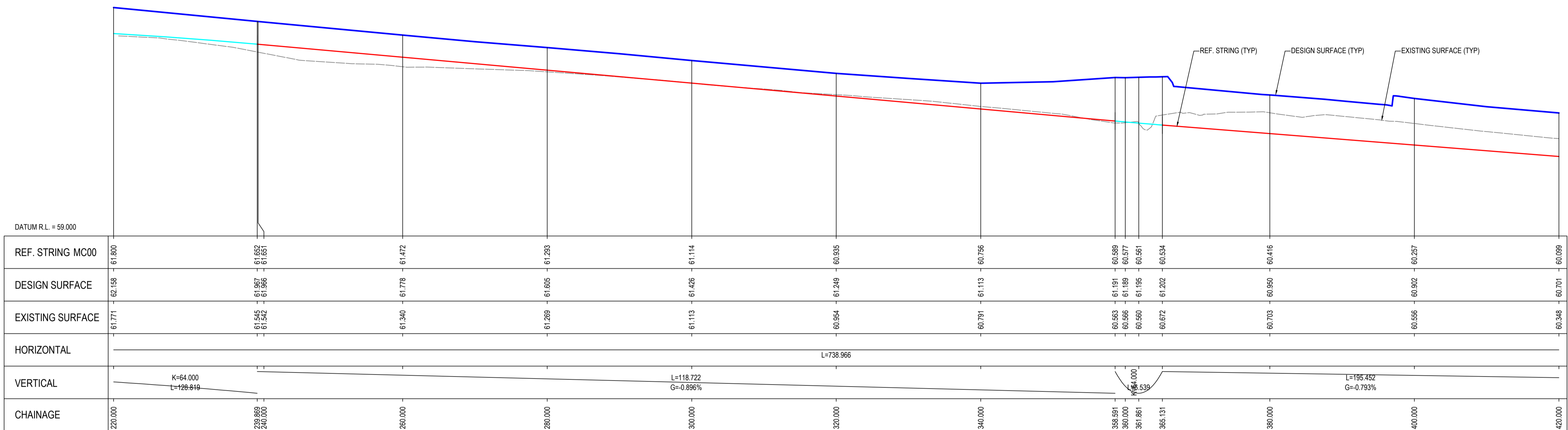
DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: <b>D. ACCEPT</b> TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: <b>12345678</b>	DRAWING No.: <b>1234</b>	SHEET No.: <b>96</b>	AMEND No.: <b>0</b>
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IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

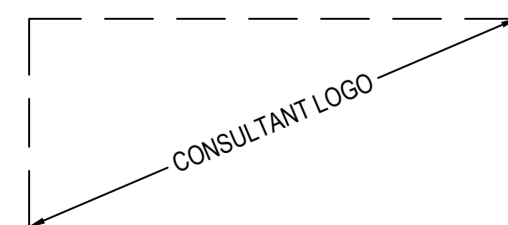
CAD FILE NAME: 1234 SHEET 0096.DWG







INDEX SHEET REFERENCE: XXXX SHEET X



DESIGNED  
A. DESIGNED  
Dip. Tech. Eng.  
DD.MM.YYYY

REVIEWER  
B. CHECKED  
Beng  
DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
C. INDEPENDENT  
Beng  
DD.MM.YYYY

QUALIFICATION  
Beng  
DD.MM.YYYY



PROJECT No.: FILE No.:

DESIGN No.: SURVEY No.:

PROJECT START ROAD RUNNING DISTANCE:  
MC10; CH 360 = RRD 154.14

PROJECT END ROAD RUNNING DISTANCE:  
MC10; CH 620 = RRD 153.88

SCALES:  
0 3 6 9 12 H  
0.6 0 0.3 0.6 0.9 1.2 V

ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 220 TO CH 420  
LONGITUDINAL SECTIONS

DESIGNER ORG. COMPANY LINE 1 COMPANY LINE 2	ACCEPTED FOR USE: D. ACCEPT TITLE: PROJECT MANAGER DATE: DD.MM.YYYY	ACCEPTANCE FORM KNET No.: 12345678	DRAWING No.: 1234	SHEET No.: 113	AMEND No.: 0
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IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE

UNCONTROLLED COPY WHEN PRINTED

100 MILLIMETRES ON ORIGINAL DRAWING

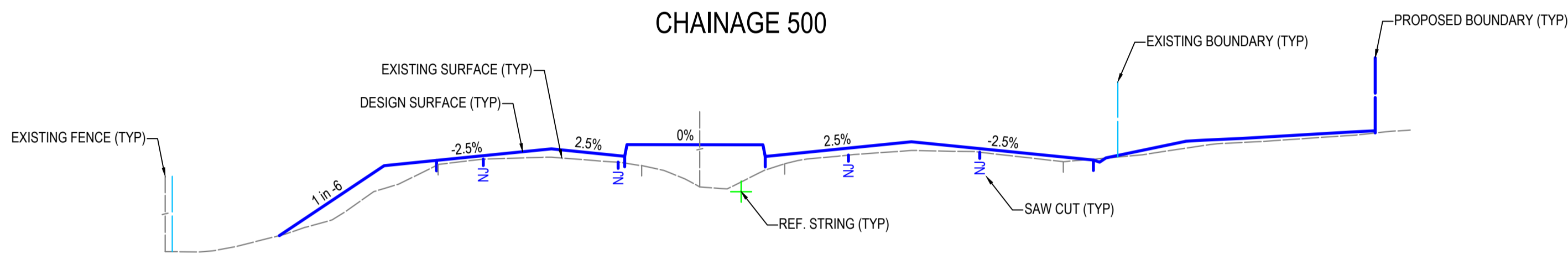
ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE

REF. STRING MC00  
X = 10079.171  
Y = 20081.413

DATUM R.L.57.6

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	59.998	59.423	59.701	59.824	59.807	59.800	59.492	59.593	59.623	59.849	59.914	
LEVEL DIFF.	0.000	0.331	0.115	0.129	0.060	0.206	0.541	0.445	0.274	0.231	0.000	
HORIZ. OFFSET	-21.646	-17.115	-14.615	-9.115	-5.615	-5.360	0.000	0.862	1.117	21.242	23.468	24.736

CHAINAGE 500

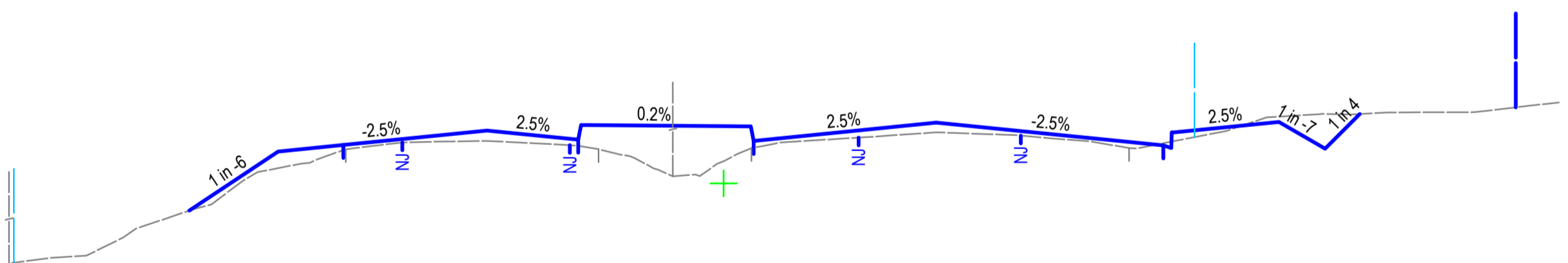


REF. STRING MC00  
X = 10068.135  
Y = 20064.734

DATUM R.L.57.7

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	59.098	59.661	59.937	60.035	59.964	59.954	59.739	59.850	59.881	60.116	60.218	
LEVEL DIFF.	0.000	0.272	0.059	0.098	0.082	0.232	0.445	0.333	0.162	0.102	0.000	
HORIZ. OFFSET	-22.088	-17.075	-14.575	-9.075	-5.575	-5.320	0.000	0.893	1.148	8.148	16.848	17.148

CHAINAGE 480

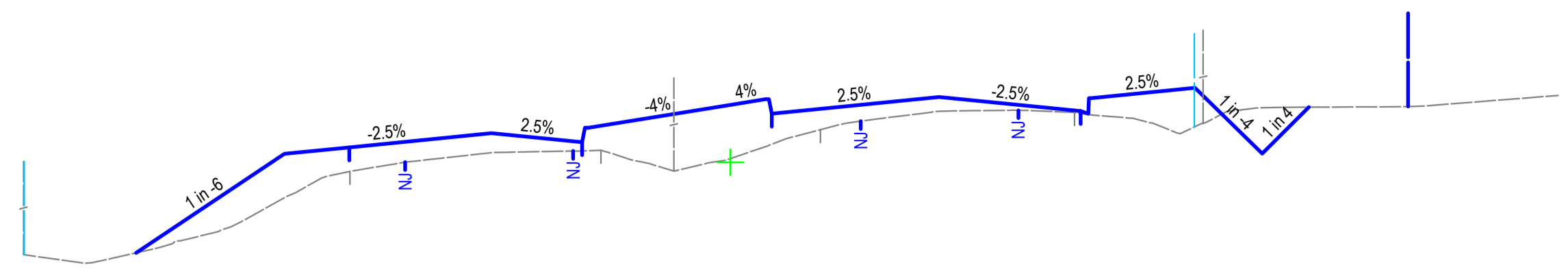


REF. STRING MC00  
X = 10057.099  
Y = 20048.054

DATUM R.L.58.1

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	59.520	59.927	60.100	60.188	60.140	60.130	59.993	60.101	60.123	60.270	60.363	
LEVEL DIFF.	0.000	0.160	0.050	0.099	0.060	0.210	0.336	0.226	0.065	0.051	0.093	
HORIZ. OFFSET	-20.472	-17.072	-14.572	-9.072	-5.572	-5.317	0.000	0.894	1.149	21.274	22.796	23.042

CHAINAGE 460

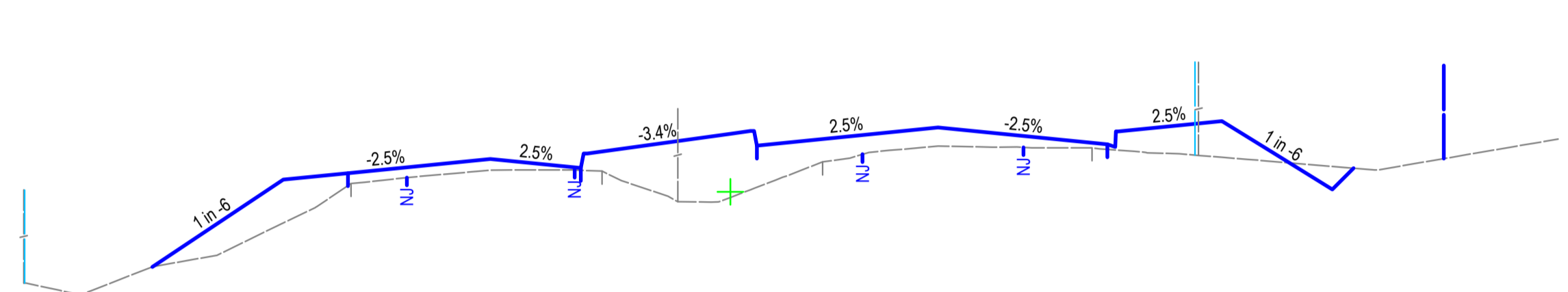


REF. STRING MC00  
X = 10112.279  
Y = 20131.452

DATUM R.L.56.7

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	58.114	58.646	58.899	59.081	58.988	59.100	59.023	59.139	59.163	59.461	59.514	59.520
LEVEL DIFF.	0.000	0.424	0.233	0.189	0.085	0.223	0.520	0.459	0.295	0.022	-0.435	0.000
HORIZ. OFFSET	-22.970	-17.231	-14.731	-9.231	-5.731	-5.476	0.000	1.362	1.607	13.538	20.527	22.960

CHAINAGE 560

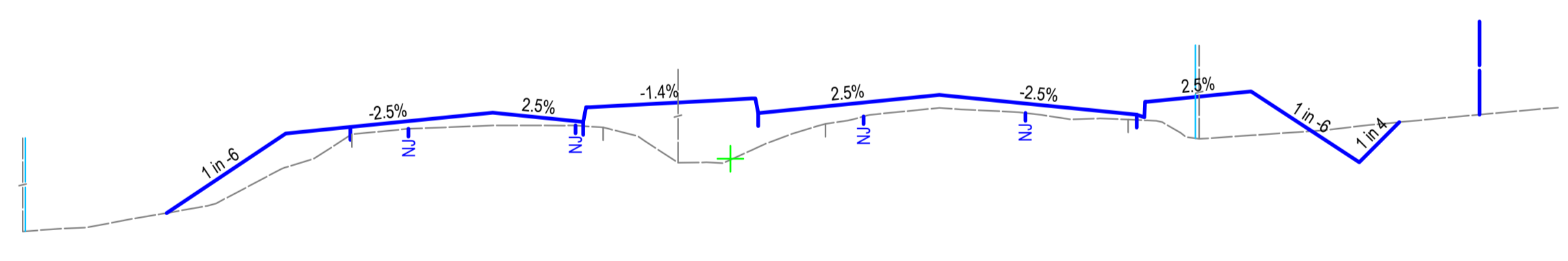


REF. STRING MC00  
X = 10101.243  
Y = 20114.772

DATUM R.L.57

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	58.423	58.846	59.208	59.356	59.378	59.318	59.093	59.158	59.192	59.482	59.536	59.576
LEVEL DIFF.	0.000	0.420	0.120	0.110	0.022	0.165	0.615	0.775	0.403	0.350	0.094	0.000
HORIZ. OFFSET	-22.338	-17.277	-14.777	-9.277	-5.777	-5.522	0.000	1.030	1.275	14.576	20.908	23.271

CHAINAGE 540



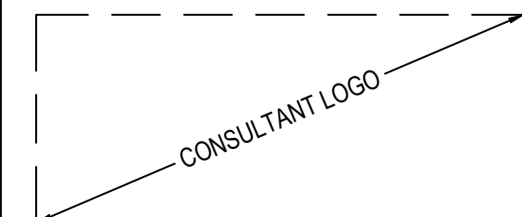
REF. STRING MC00  
X = 10090.207  
Y = 20098.093

DATUM R.L.57.4

DESIGN LEVELS	IA06	EH03	CE03	NL01	CE02	CB02	NL07	CF01	CB01	EH01	IF00	IA00
EXISTING LEVELS	58.761	59.222	59.533	59.627	59.621	59.617	59.295	59.368	59.417	59.532	59.520	59.658
LEVEL DIFF.	0.000	0.327	0.079	0.123	0.041	0.185	0.580	0.498	0.329	0.424	-0.349	0.000
HORIZ. OFFSET	-21.791	-17.182	-14.682	-9.182	-5.682	-5.427	0.000	0.827	1.082	8.082	24.313	26.862

CHAINAGE 520

INDEX SHEET REFERENCE: XXXX SHEET X



DESIGNED  
A. DESIGNED  
Dip. Tech. Eng.  
DD.MM.YYYY

REVIEWER  
B. CHECKED  
Beng  
DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
C. INDEPENDENT  
Beng  
DD.MM.YYYY

QUALIFICATION DATE:  
DD.MM.YYYY



PROJECT No.: FILE No.:

DESIGN No.: SURVEY No.:

PROJECT START ROAD RUNNING DISTANCE:  
MC10; CH 360 = RRD 154.14

PROJECT END ROAD RUNNING DISTANCE:  
MC10; CH 620 = RRD 153.88

SCALES:  
4 0 2 4 6 8 H  
1 0 0.5 1 1.5 2 V

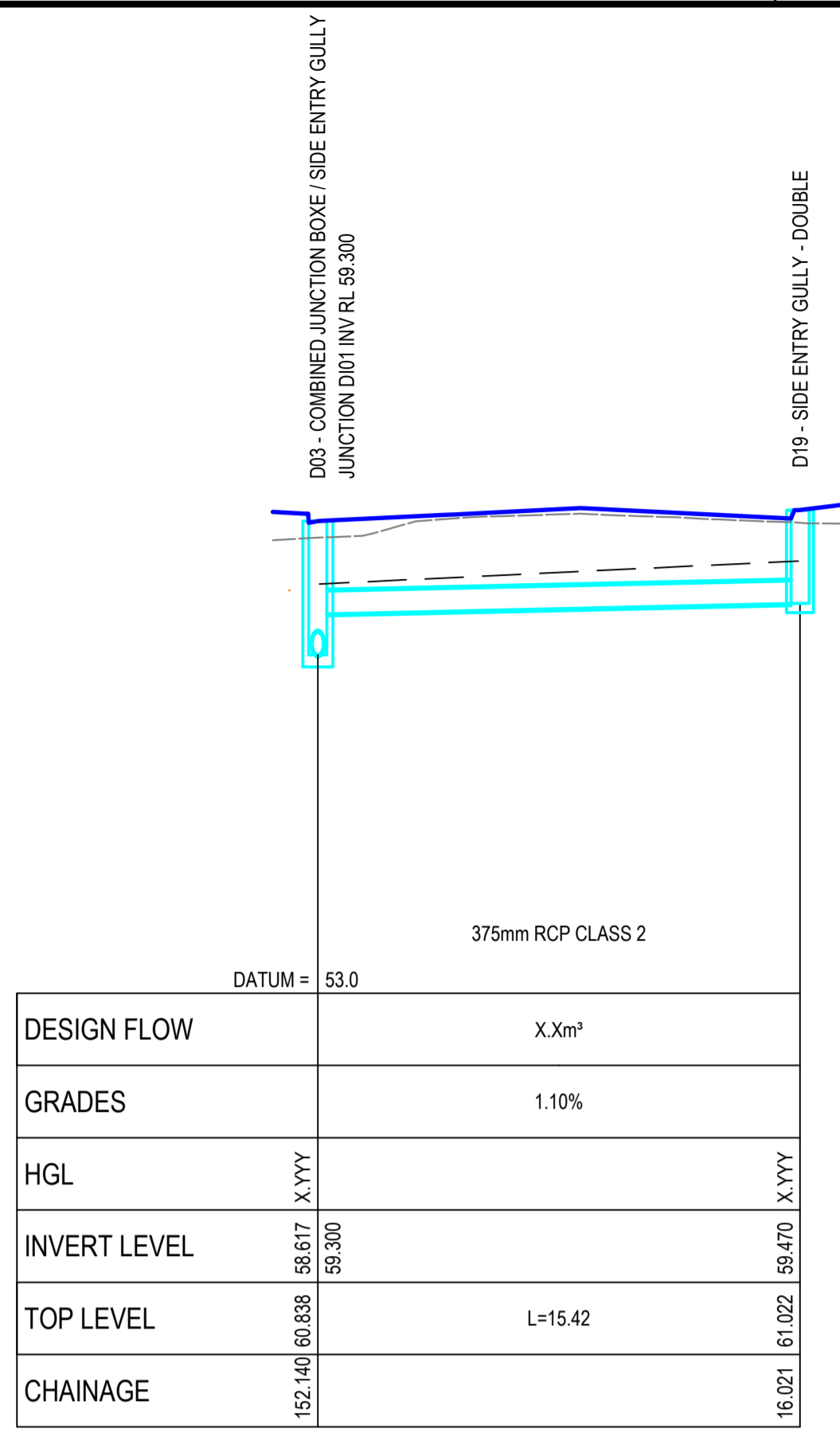
ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
MC00; CH 460 TO CH 560  
CROSS SECTIONS

DESIGNER ORG. COMPANY LINE 1  
ACCEPTED FOR USE: D. ACCEPT  
TITLE: PROJECT MANAGER  
DATE: DD.MM.YYYY

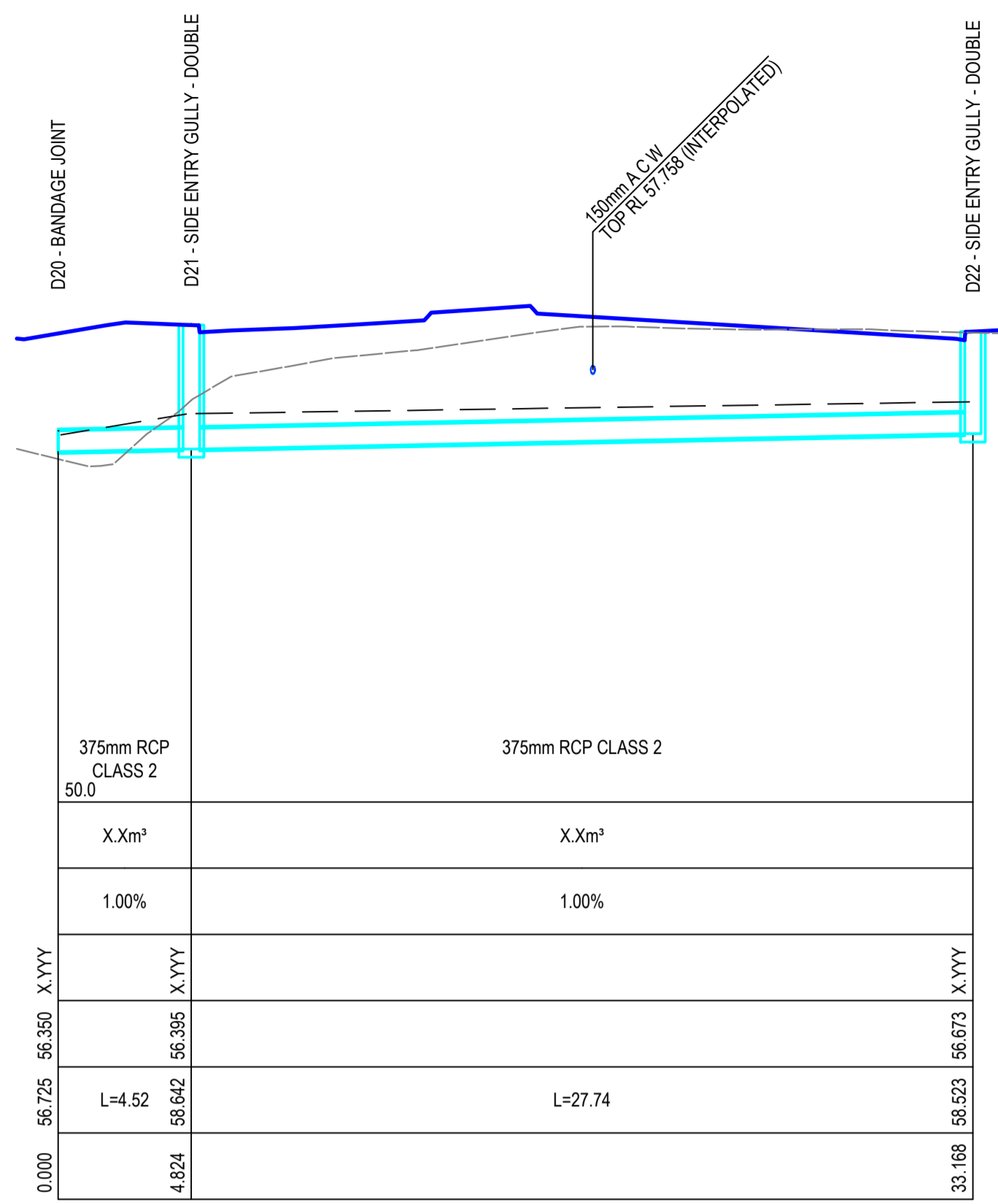
ACCEPTANCE FORM KNET No. 12345678  
DRAWING No. 1234  
SHEET No. 123  
AMEND No. 0

IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

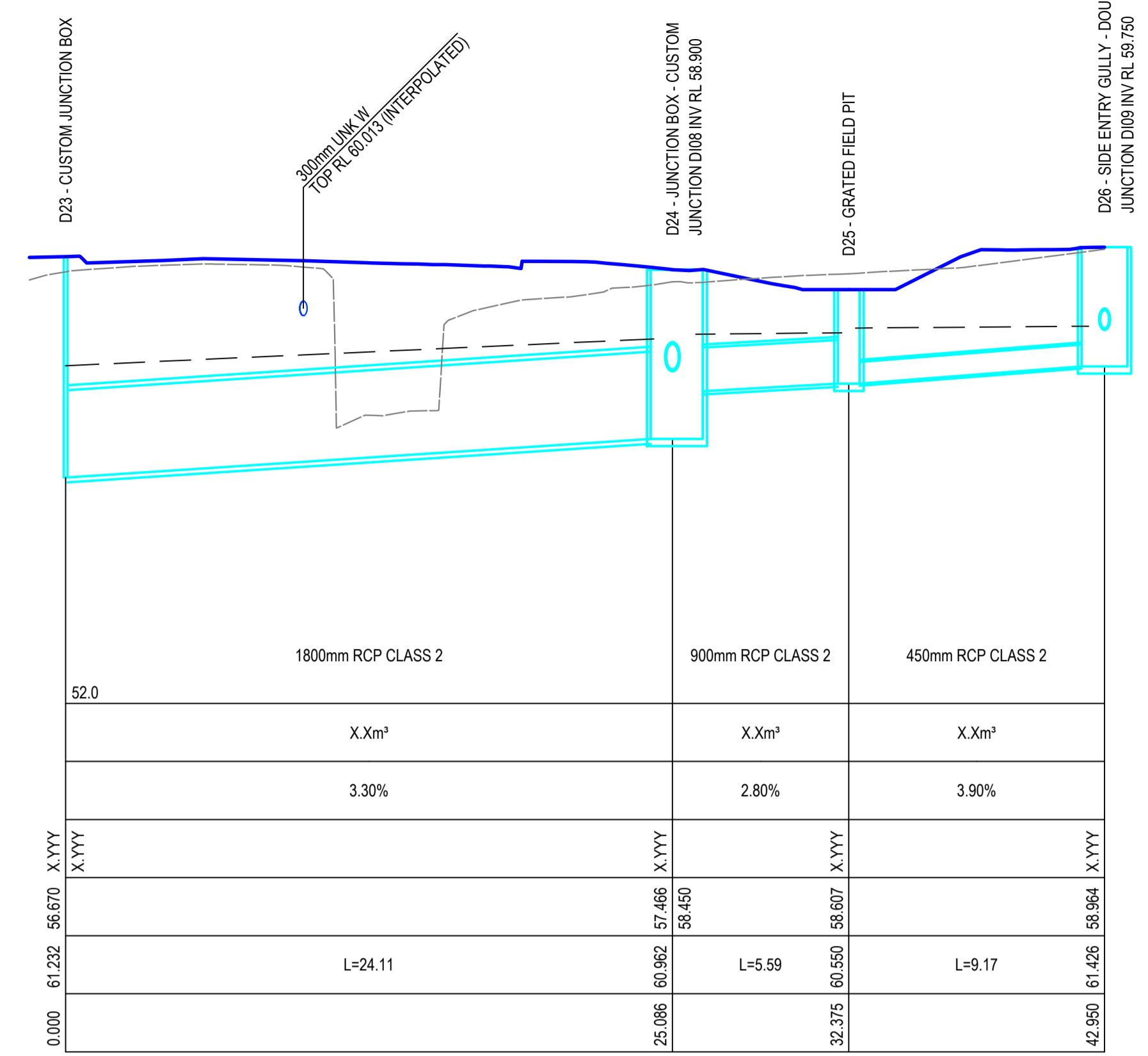




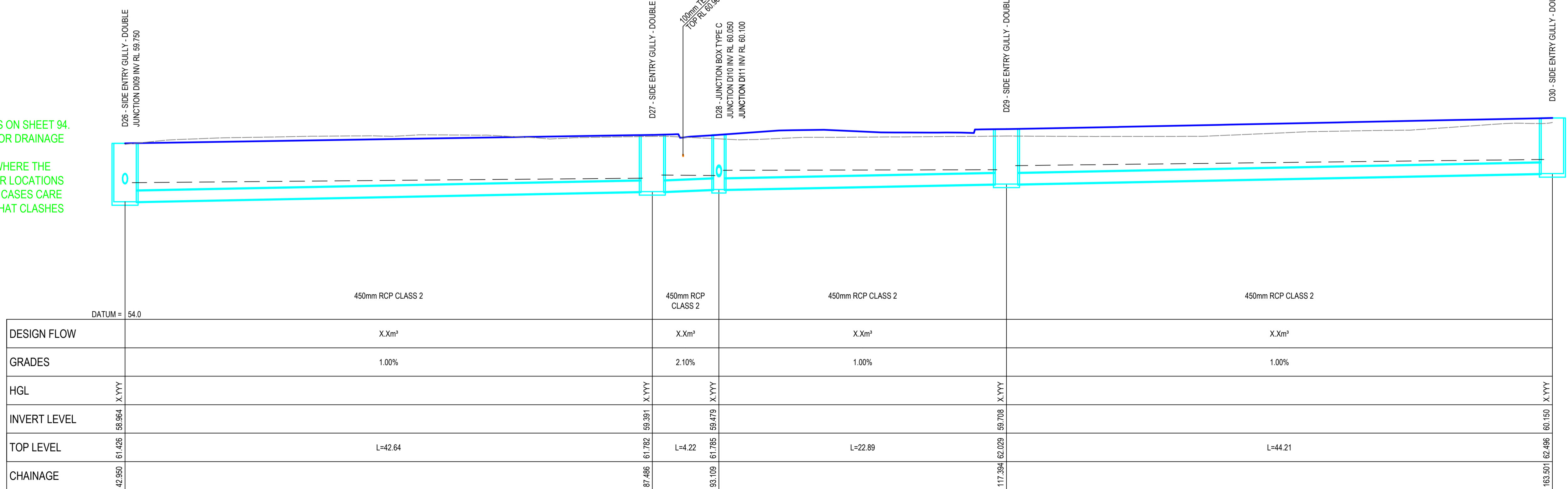
DI05



DI06



DI07

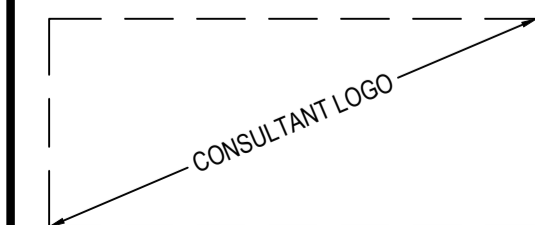


DI07

**NOTES:**

- FOR PIT AND PIPE DETAILS REFER DRAINAGE SCHEDULES ON SHEET 94.
- THE DESIGN ANNUAL EXCEEDANCE PROBABILITY (AEP) FOR DRAINAGE OF ROAD PAVEMENT IS 5%.
- A SERVICE REDUCED LEVEL (R.L.) HAS BEEN PROVIDED WHERE THE SERVICE HAS BEEN DEPTHEDED. WHEN PROVIDED AT OTHER LOCATIONS SERVICE R.L.'s ARE INDICATED AS INTERPOLATED. IN ALL CASES CARE SHOULD BE TAKEN DURING CONSTRUCTION TO ENSURE THAT CLASHES DO NOT OCCUR.
- THE LEVEL DATUM IS AUSTRALIAN HEIGHT DATUM (AHD).
- THE COORDINATE BASE IS LOCAL.

INDEX SHEET REFERENCE: XXXX SHEET X



DESIGNED  
A. DESIGNED  
QUALIFICATION  
Dip. Tech. Eng.  
DATE: DD.MM.YYYY

REVIEWER  
B. CHECKED  
QUALIFICATION  
Beng  
DATE: DD.MM.YYYY

INDEPENDENT DESIGN CERTIFIER (IF REQUIRED)  
C. INDEPENDENT  
QUALIFICATION  
Beng  
DATE: DD.MM.YYYY



PROJECT No.: FILE No.:  
DESIGN No.: SURVEY No.:  
PROJECT START ROAD RUNNING DISTANCE:  
MC10; CH 360 = RRD 154.14  
PROJECT END ROAD RUNNING DISTANCE:  
MC10; CH 620 = RRD 153.88  
SCALES:  
4 0 2 4 6 8 H  
2 0 1 2 3 4 V

ROAD No. 1234 / NCRN / NCRN  
MAIN ROAD  
INTERSECTION; SIDE ROAD A AND SIDE ROAD B  
DI05, DI06 & DI07  
DRAINAGE LONGITUDINAL SECTIONS

DESIGNER ORG. COMPANY LINE 1  
ACCEPTED FOR USE: D. ACCEPT  
TITLE: PROJECT MANAGER  
DATE: DD.MM.YYYY  
ACCEPTANCE FORM KNET No.: 12345678  
DRAWING No.: 1234  
SHEET No.: 133  
AMEND No.: 0  
IN ACCORDANCE WITH DP013 SHEET LATITUDE -34.639482 SHEET LONGITUDE 138.724544

No.	AMENDMENT DESCRIPTION	BY	CHECK	ACCEPTANCE	DATE
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UNCONTROLLED COPY WHEN PRINTED

100 MILLIMETRES ON ORIGINAL DRAWING

ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE