

TOWNSVILLE CITY COUNCIL MOUNT MARGARET ESTATE STAGE 10, NICKEL STREET, ALICE RIVER



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CONFLICTS WITH SERVICES
SERVICE LOCATION SHALL BE CONFIRMED ON SITE WITH RELEVANT AUTHORITIES BEFORE WORK COMMENCES. DURING CONSTRUCTION, NO WORK SHALL BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT FIRST CONTACTING THE RELEVANT AUTHORITY.

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BAC
REGISTERED SURVEYOR BEN COOK
15/11/2023
DATE

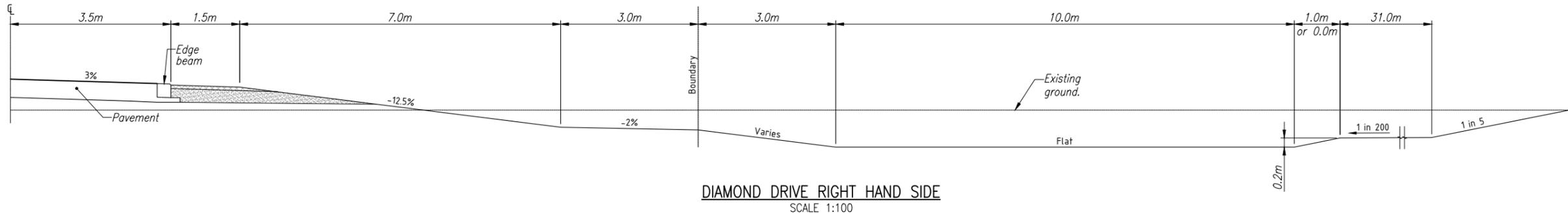
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BRETT LANGTREE (RPEQ No. 11932)
15/11/2023
DATE

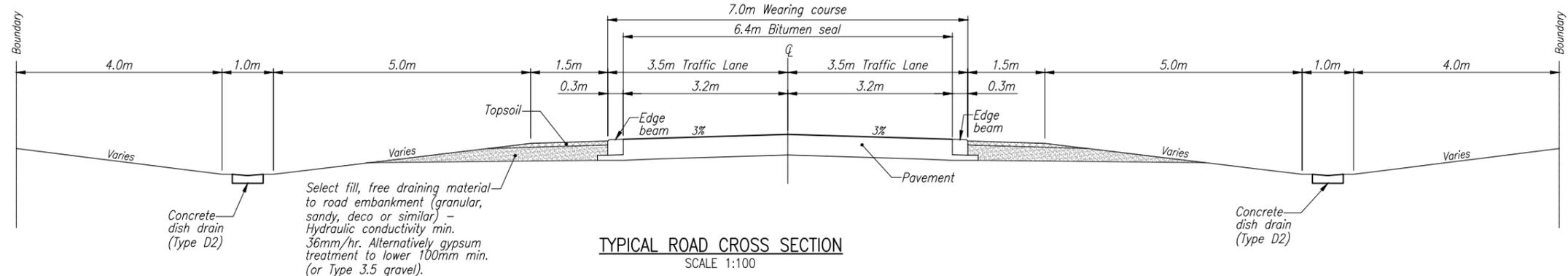
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TOWNSVILLE CITY COUNCIL		SCALE	AS SHOWN
MOUNT MARGARET ESTATE STAGE 10, NICKEL STREET, ALICE RIVER TITLE PAGE, DRAWINGS SCHEDULE AND LOCALITY PLAN		SHEET	1 OF 16
		REVISION	0 1
		DRG No.	0944 - AC - 001



DIAMOND DRIVE RIGHT HAND SIDE
SCALE 1:100



TYPICAL ROAD CROSS SECTION
SCALE 1:100

Select fill, free draining material to road embankment (granular, sandy, deco or similar) – Hydraulic conductivity min. 36mm/hr. Alternatively gypsum treatment to lower 100mm min. (or Type 3.5 gravel).

Provisional Pavement Design

- 2 Coat bitumen seal (14mm/7mm)
- Prime Coat – AMCO0 @ 0.8L/m²
- Seal Coat 1 – CL170 @ 1.5L/m²
- 14mm Precoated Agg. @ 95m²/m³
- Seal Coat 2 – CL170 @ 1.1L/m²
- 7mm Agg. @ 120m²/m³
- 100mm Base gravel, D1MR type 2.1
- 100mm Sub-base gravel, D1MR type 2.3
- 200mm Lower Sub-base gravel, D1MR type 2.5

Note: Seal design to be verified by the sealing contractor to suit the ALD & site conditions at the time of construction.

CONFLICTS WITH SERVICES

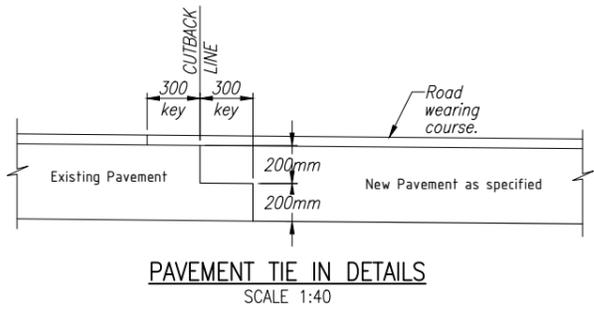
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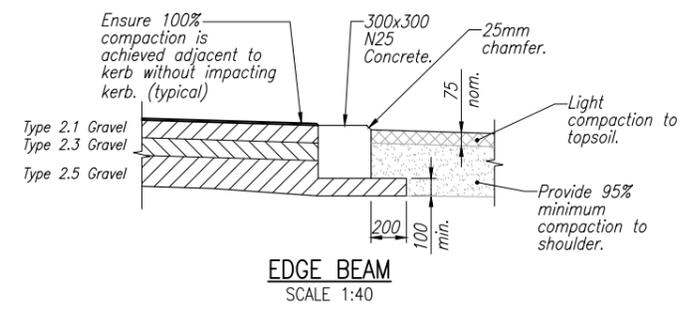
B. Cook
REGISTERED SURVEYOR **BEN COOK** 15/11/2023 DATE

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PAVEMENT TIE IN DETAILS
SCALE 1:40



EDGE BEAM
SCALE 1:40



LONGITUDINAL SECTION

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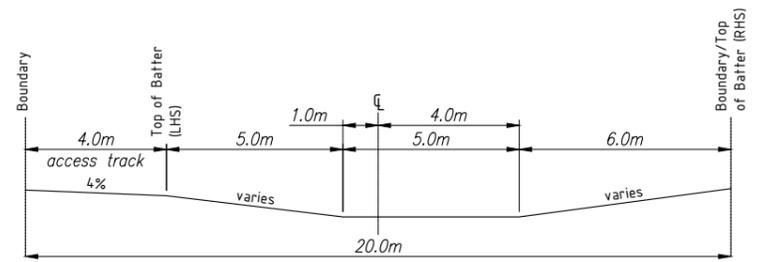
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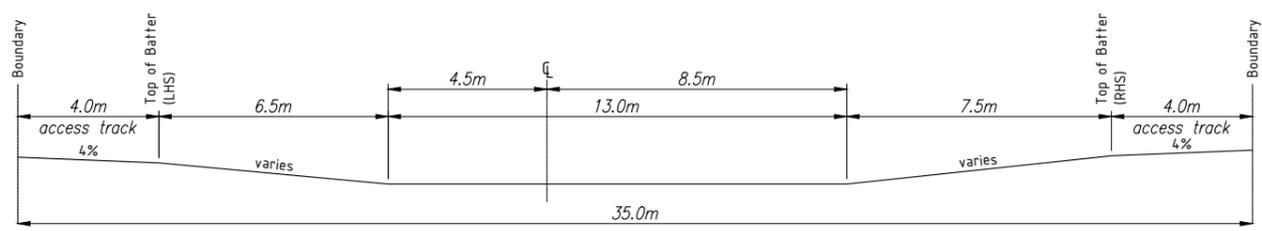
TOWNSVILLE CITY COUNCIL

MOUNT MARGARET ESTATE
STAGE 10, NICKEL STREET, ALICE RIVER
TYPICAL ROAD SECTION & DETAILS

SCALE	AS SHOWN
SHEET	2 OF 16
REVISION	0 1
DRG No.	0944 - AC - 002

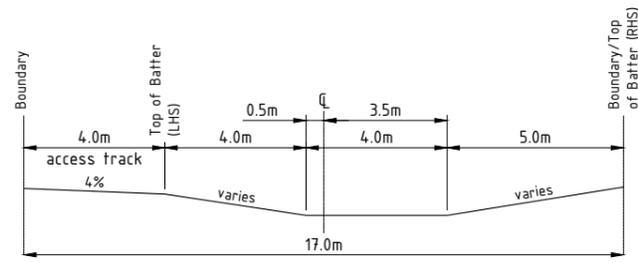


TYPICAL CHANNEL 01 CROSS SECTION
CH263.376 TO CH336.645 SCALE 1:100



TYPICAL CHANNEL 01 CROSS SECTION
CH360 TO CH400 SCALE 1:100

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TYPICAL CHANNEL 01 CROSS SECTION
CH200 TO CH233.372 SCALE 1:100

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BAC
REGISTERED SURVEYOR BEN COOK
15/11/2023
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TOWNSVILLE CITY COUNCIL		SCALE	AS SHOWN
MOUNT MARGARET ESTATE STAGE 10, NICKEL STREET, ALICE RIVER TYPICAL CHANNEL SECTION & DETAILS		SHEET	3 OF 16
REVISION	0 1	DRG No.	0944 - AC - 003

AS CONSTRUCTION

09 NOVEMBER 2023

EARTHWORKS LEGEND

- AS BUILT ROAD MINOR CONTOUR
- AS BUILT ROAD MAJOR CONTOUR
- AS BUILT CHANNEL 01 MINOR CONTOUR
- AS BUILT CHANNEL 01 MAJOR CONTOUR
- × FINISHED EARTHWORK SURVEY PICKUP POINTS
- AS BUILT ROAD ASPHALT OUTSIDE BOUNDARY
- UNSUITABLE SUBGRADE AREAS

SUBGRADE REPLACEMENT NOTES:

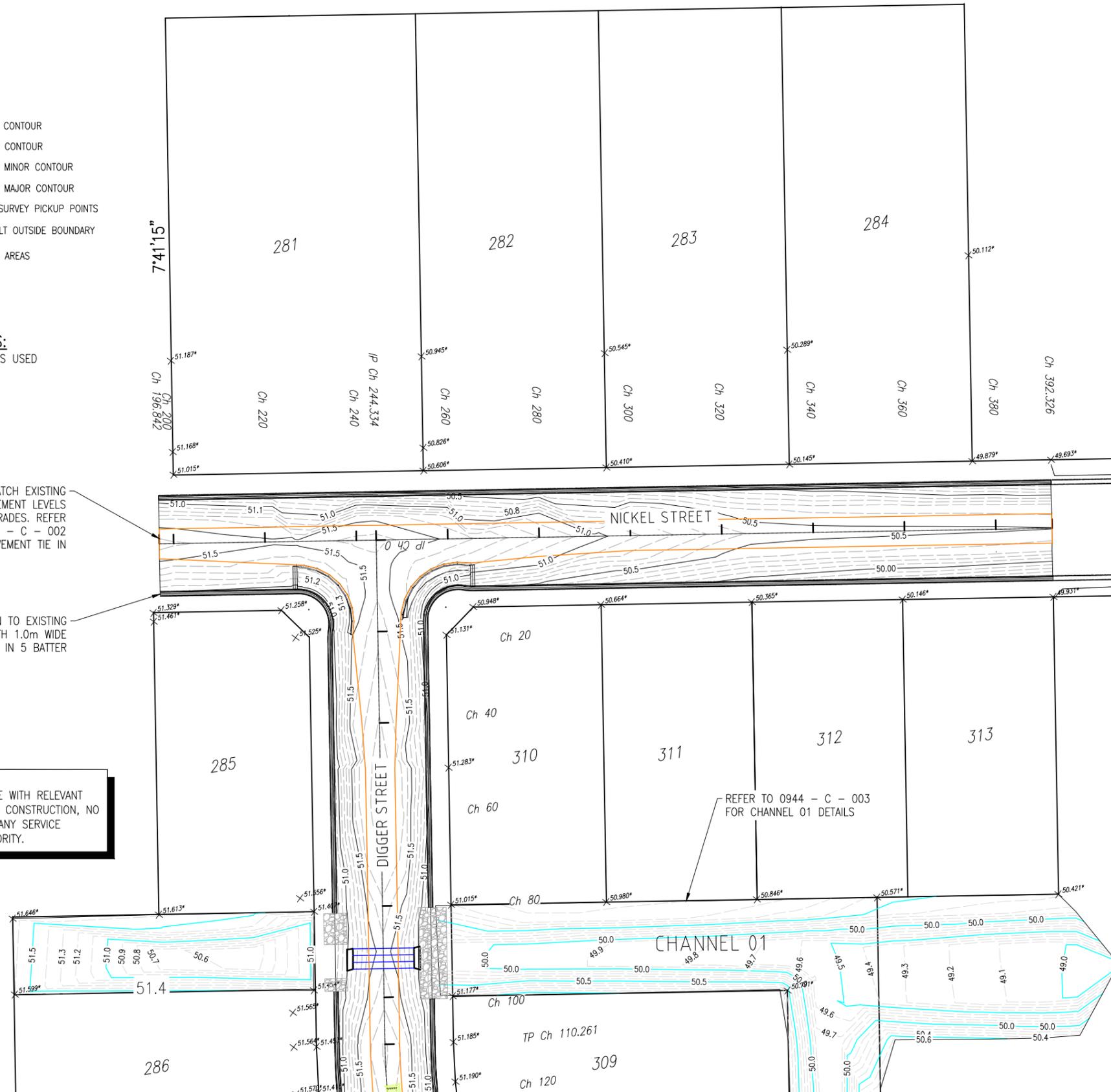
1. 300mm THICK OF 80mm BALLAST WAS USED FOR ALL SUBGRADE REPLACEMENT.

MATCH EXISTING PAVEMENT LEVELS AND GRADES. REFER TO 0944 - C - 002 FOR PAVEMENT TIE IN

DAYLIGHT TABLE DRAIN TO EXISTING AT 1 IN 400 MIN WITH 1.0m WIDE BASE AND 1 IN 5 BATTER

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BAC 28/11/2023
 REGISTERED SURVEYOR BEN COOK DATE

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 BRETT LANGTREE (RPEQ No. 11932) DATE

SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 EARTHWORKS, ROAD & STORMWATER LAYOUT PLAN - SHEET 1 OF 3

SCALE	AS SHOWN
SHEET	4 OF 16
REVISION	0 1 2
DRG No.	0944 - AC - 004

FOR APPROVAL

28 November 2023

Accepted As Constructed

EARTHWORKS LEGEND

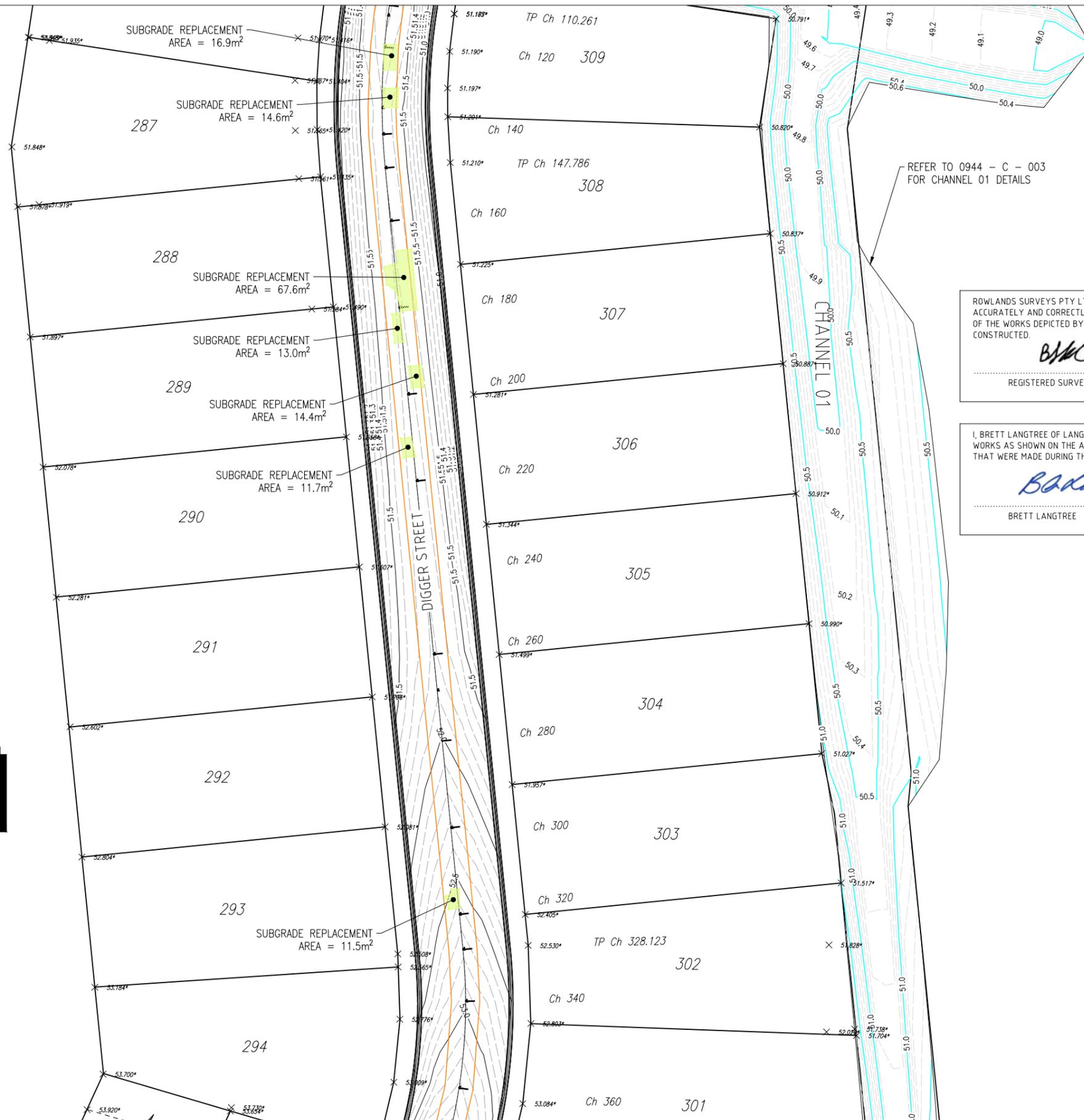
- AS BUILT ROAD MINOR CONTOUR
- AS BUILT ROAD MAJOR CONTOUR
- AS BUILT CHANNEL 01 MINOR CONTOUR
- AS BUILT CHANNEL 01 MAJOR CONTOUR
- x FINISHED EARTHWORK SURVEY PICKUP POINTS
- AS BUILT ROAD ASPHALT OUTSIDE BOUNDARY
- UNSUITABLE SUBGRADE AREAS

SUBGRADE REPLACEMENT NOTES:

1. 300mm THICK OF 80mm BALLAST WAS USED FOR ALL SUBGRADE REPLACEMENT.

CONFLICTS WITH SERVICES

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REFER TO 0944 - C - 003 FOR CHANNEL 01 DETAILS

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BMK
 REGISTERED SURVEYOR BEN COOK
 28/11/2023
 DATE

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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 EARTHWORKS, ROAD & STORMWATER LAYOUT PLAN - SHEET 3 OF 3

SCALE	AS SHOWN
SHEET	5 OF 16
REVISION	0 1 2
DRG No.	0944 - AC - 005

AS CONSTRUCTION

09 NOVEMBER 2023

Accepted As Constructed

EARTHWORKS LEGEND

- AS BUILT ROAD MINOR CONTOUR
- AS BUILT ROAD MAJOR CONTOUR
- AS BUILT CHANNEL 01 MINOR CONTOUR
- AS BUILT CHANNEL 01 MAJOR CONTOUR
- FINISHED EARTHWORK SURVEY PICKUP POINTS
- AS BUILT ROAD ASPHALT OUTSIDE BOUNDARY
- UNSUITABLE SUBGRADE AREAS

SUBGRADE REPLACEMENT NOTES:

- 300mm THICK OF 80mm BALLAST WAS USED FOR ALL SUBGRADE REPLACEMENT.

REFER TO 0944 - C - 003 FOR CHANNEL 01 DETAILS

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 BRETT LANGTREE (RPEQ No. 11932) DATE

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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 EARTHWORKS, ROAD & STORMWATER LAYOUT PLAN - SHEET 3 OF 3

SCALE	AS SHOWN
SHEET	6 OF 16
REVISION	0 1 2
DRG No.	0944 - AC - 006



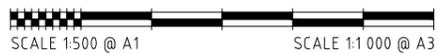
NICKEL STREET LONG SECTION

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REGISTERED SURVEYOR BEN COOK
15/11/2023
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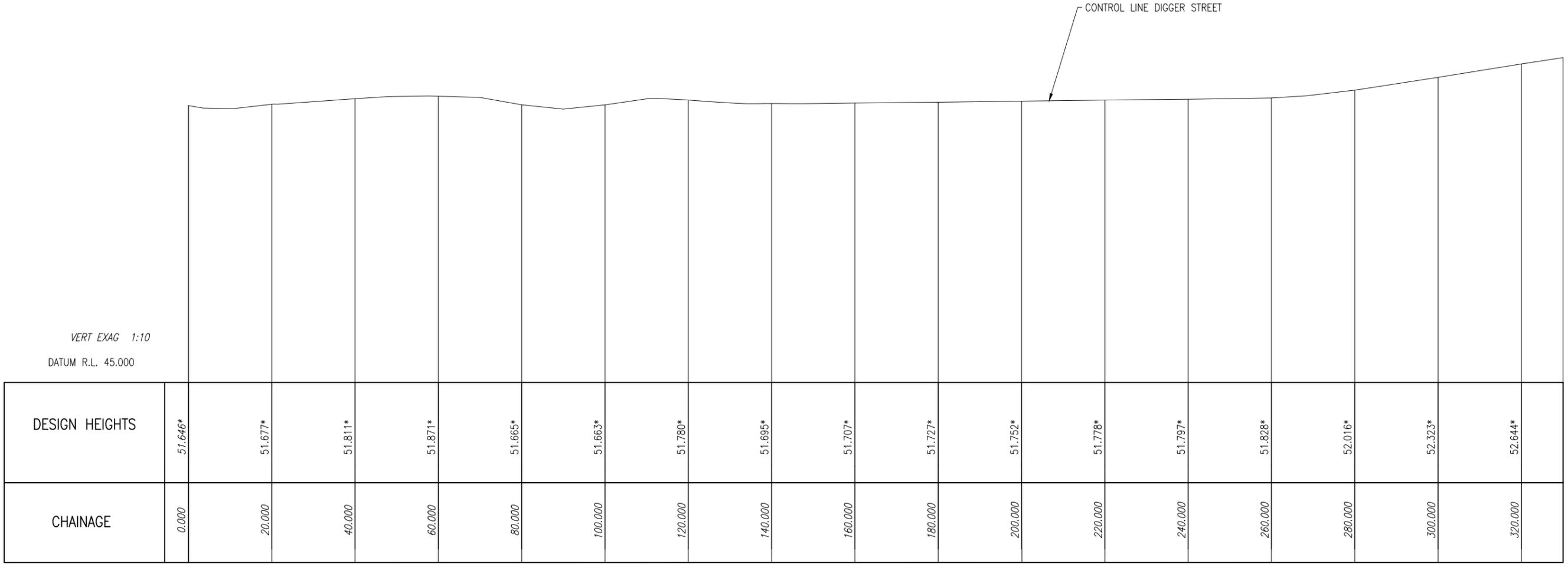


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TOWNSVILLE CITY COUNCIL		SCALE	AS SHOWN
MOUNT MARGARET ESTATE		SHEET	7 OF 16
STAGE 10, NICKEL STREET, ALICE RIVER		REVISION	0 1
LONGITUDINAL SECTION – NICKEL STREET		DRG No.	0944 – AC – 007



VERT EXAG 1:10
DATUM R.L. 45.000

DIGGER STREET LONG SECTION

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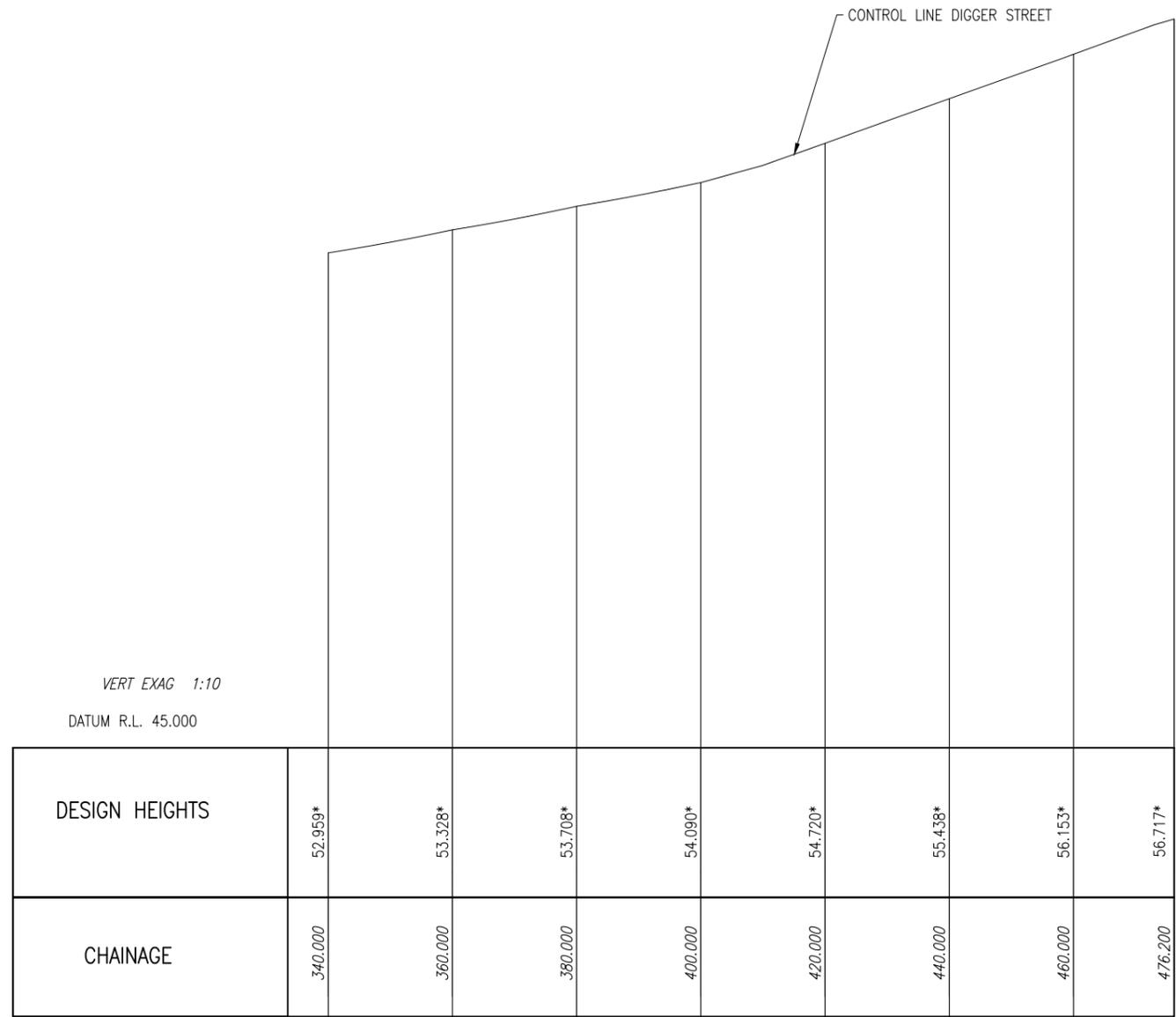
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TOWNSVILLE CITY COUNCIL

MOUNT MARGARET ESTATE
STAGE 10, NICKEL STREET, ALICE RIVER
LONGITUDINAL SECTION – DIGGER STREET CH 0 TO CH 330

SCALE	AS SHOWN
SHEET	8 OF 16
REVISION	0 1
DRG No.	0944 – AC – 008



VERT EXAG 1:10
DATUM R.L. 45.000

DIGGER STREET LONG SECTION

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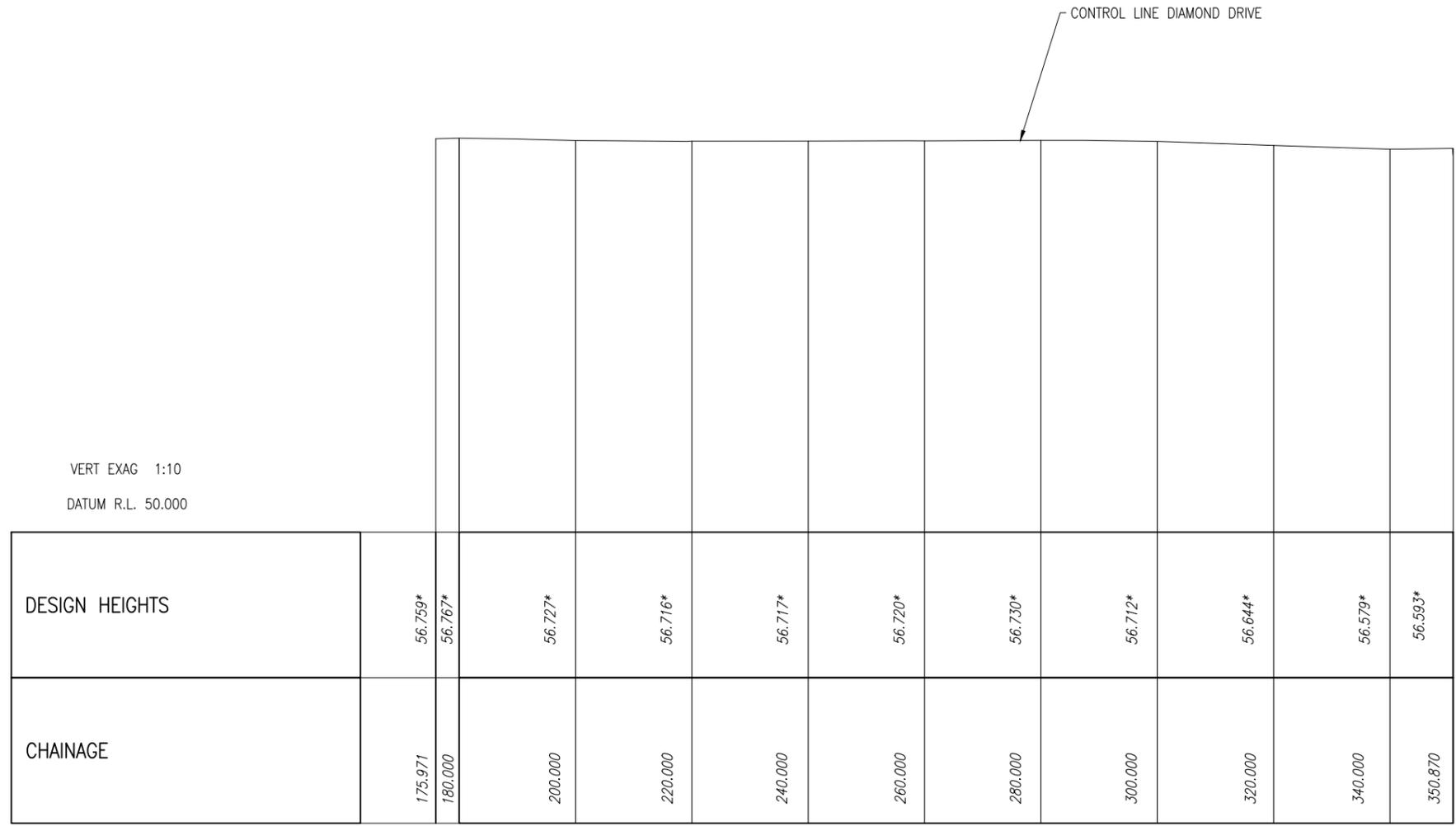


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TOWNSVILLE CITY COUNCIL		SCALE	AS SHOWN
MOUNT MARGARET ESTATE		SHEET	9 OF 16
STAGE 10, NICKEL STREET, ALICE RIVER		REVISION	0 1
LONGITUDINAL SECTION – DIGGER STREET CH 330 TO CH 476.200		DRG No.	0944 – AC – 009



DIAMOND DRIVE LONG SECTION

ROWLANDS SURVEYS (QLD) PTY LTD, DO HEREBY CERTIFY THAT THIS DRAWING ACCURATELY AND CORRECTLY DESCRIBES AND RECORDS THE NATURE AND LOCATION OF THE WORKS DEPICTED BY ASTERISKS (*) HERON AS THEY HAVE BEEN CONSTRUCTED.

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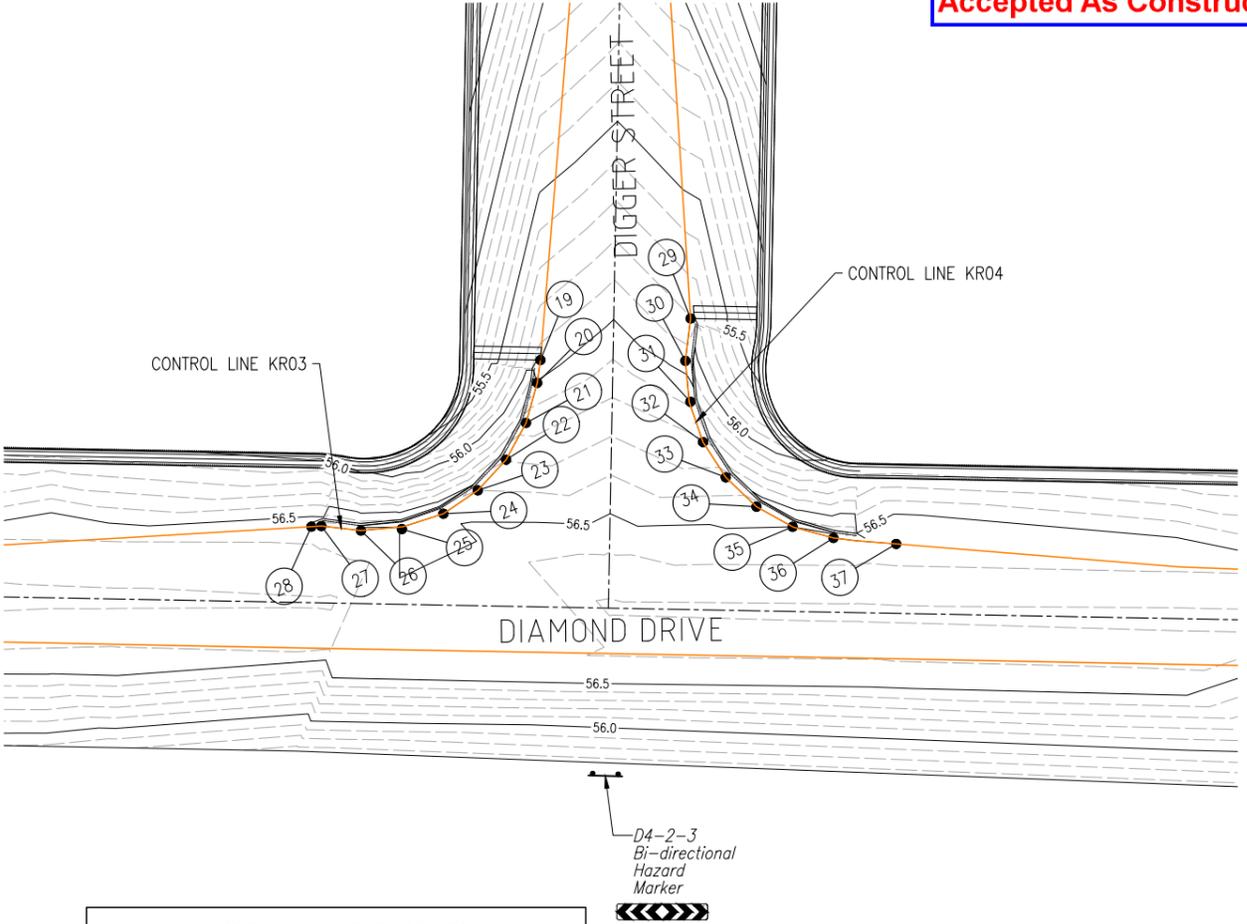
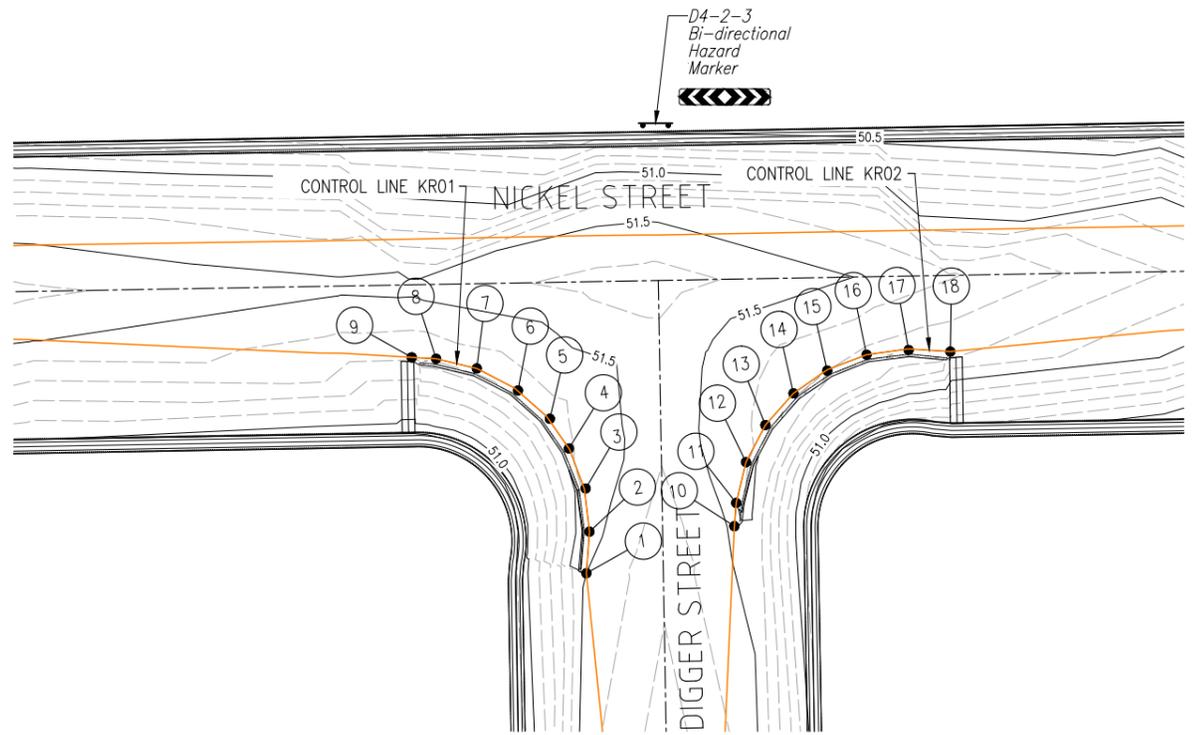
B. Langtree
BRETT LANGTREE (RPEQ No. 11932)
15/11/2023
DATE

SCALE 1:500 @ A1 SCALE 1:1 000 @ A3

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TOWNSVILLE CITY COUNCIL		SCALE	AS SHOWN
MOUNT MARGARET ESTATE		SHEET	10 OF 16
STAGE 10, NICKEL STREET, ALICE RIVER		REVISION	0 1
LONGITUDINAL SECTION – DIAMOND DRIVE		DRG No.	0944 – AC – 010



Point #	Northing	Easting	Elevation
1	861548.3010	58226.4570	51.500
2	861551.1810	58227.1180	51.463
3	861554.2090	58227.2180	51.423
4	861557.1450	58226.6080	51.391
5	861559.7160	58225.3410	51.359
6	861562.0330	58223.4060	51.357
7	861563.7890	58221.0020	51.342
8	861564.9260	58218.2270	51.323
9	861565.2820	58216.5340	51.319

Point #	Northing	Easting	Elevation
10	861550.0140	58237.3260	51.483
11	861551.6170	58237.7010	51.462
12	861554.3710	58238.8240	51.418
13	861556.7570	58240.5810	51.373
14	861558.6770	58242.8870	51.338
15	861559.9670	58245.4970	51.304
16	861560.5970	58248.4190	51.275
17	861560.5600	58251.4130	51.255
18	861559.9230	58254.3220	51.227

Point #	Northing	Easting	Elevation
19	861120.5700	58200.1120	55.944
20	861119.1630	58199.2790	56.007
21	861116.8510	58197.4530	56.155
22	861114.9910	58195.1550	56.294
23	861113.7600	58192.4630	56.400
24	861113.1700	58189.5780	56.474
25	861113.3914	58186.5124	56.500
26	861114.3140	58183.7250	56.523
27	861115.6900	58181.2570	56.551
28	861115.9210	58180.5880	56.566

Point #	Northing	Easting	Elevation
29	861119.1970	58211.0650	55.805
30	861116.5710	58209.5690	55.958
31	861113.7640	58208.7000	56.086
32	861110.7810	58208.5130	56.208
33	861107.8540	58209.0410	56.336
34	861105.0980	58210.2510	56.441
35	861102.7620	58212.0970	56.501
36	861100.9610	58214.4350	56.530
37	861098.8610	58218.3770	56.545

CONFLICTS WITH SERVICES
SERVICE LOCATION SHALL BE CONFIRMED ON SITE WITH RELEVANT AUTHORITIES BEFORE WORK COMMENCES. DURING CONSTRUCTION, NO WORK SHALL BE CARRIED OUT WITHIN 3.0m OF ANY SERVICE WITHOUT FIRST CONTACTING THE RELEVANT AUTHORITY.

LEGEND
 - - - - - AS BUILT ROAD MINOR CONTOUR
 ——— AS BUILT ROAD MAJOR CONTOUR
 ——— AS BUILT ROAD ASPHALT OUTSIDE BOUNDARY

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BAC
 REGISTERED SURVEYOR BEN COOK
 15/11/2023
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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 INTERSECTIONS LAYOUT PLAN

SCALE	AS SHOWN
SHEET	11 OF 16
REVISION	0 1
DRG No.	0944 - AC - 011

AS CONSTRUCTION

09 NOVEMBER 2023

WATER LEGEND

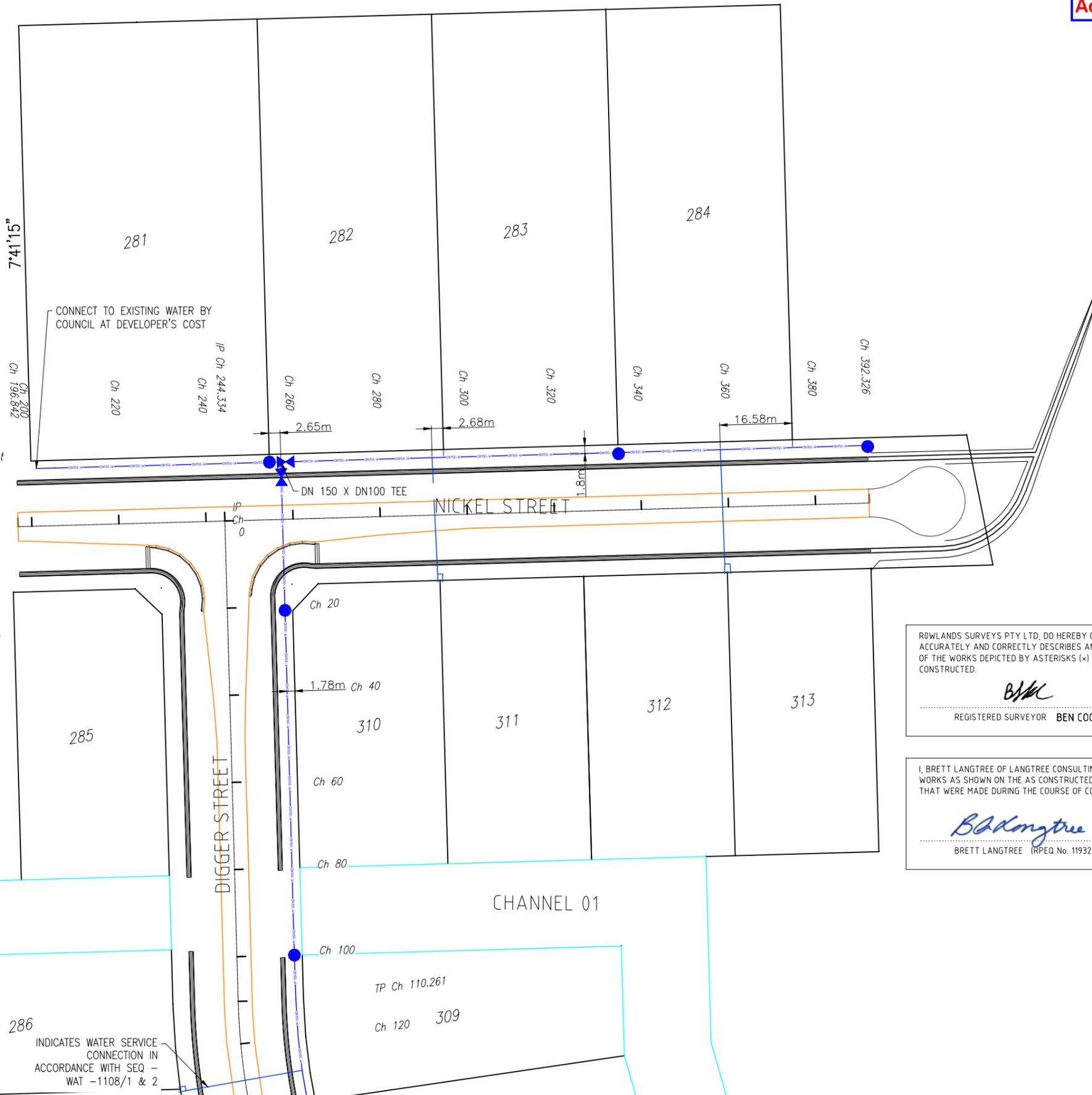
- DN100 PVC WATER MAIN
- DN150 PVC WATER MAIN
- DN300 PVC WATER MAIN
- AS BUILT OUTSIDE BOUNDARY
- Ex.W EXISTING WATER MAIN
- SLUICE VALVE
- WATER SERVICE
- WATER SERVICE
- FIRE HYDRANT

WATER NOTES

1. Water mains PVC-M PN16 to be constructed on a 1.8m ±100mm alignment from property boundaries unless shown otherwise.
2. DN100 water main on northern side of Diamond Drive and back feed connection to existing DN250 poly main to be installed and operational prior to installation of new DN300 PVC main.
3. All PVC water mains & fittings are to be Class 16 cast iron outside diameter compatible unless shown otherwise.
4. Cover to water mains are as follows: - 450mm min. general - 600mm min. under roads & open drains. - At valve locations the water main lowered to obtain required cover to valve.
5. All road crossings to be backfilled with crusher dust to underside of pavement.
6. All fittings are to be ductile iron concrete lined (D.I.C.L) PN16 socket end unless shown otherwise.
7. Valves & hydrants located directly opposite property boundary pegs unless shown otherwise.
8. PVC pipe may be deflected to achieve minor alignment changes in property boundaries. For maximum deflections refer to manufacturer's specification.

CONFLICTS WITH SERVICES

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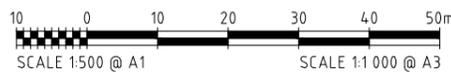


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INDICATES WATER SERVICE CONNECTION IN ACCORDANCE WITH SEQ - WAT -1108/1 & 2

REVISIONS	No.	BY	DATE	DESCRIPTION	HORIZ. DATUM	MGA	CERTIFICATION	
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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 WATER RETICULATION PLAN - SHEET 1 OF 3

SCALE	AS SHOWN
SHEET	12 OF 16
REVISION	0 1
DRG No.	0944 - AC - 012

AS CONSTRUCTION

09 NOVEMBER 2023

WATER LEGEND

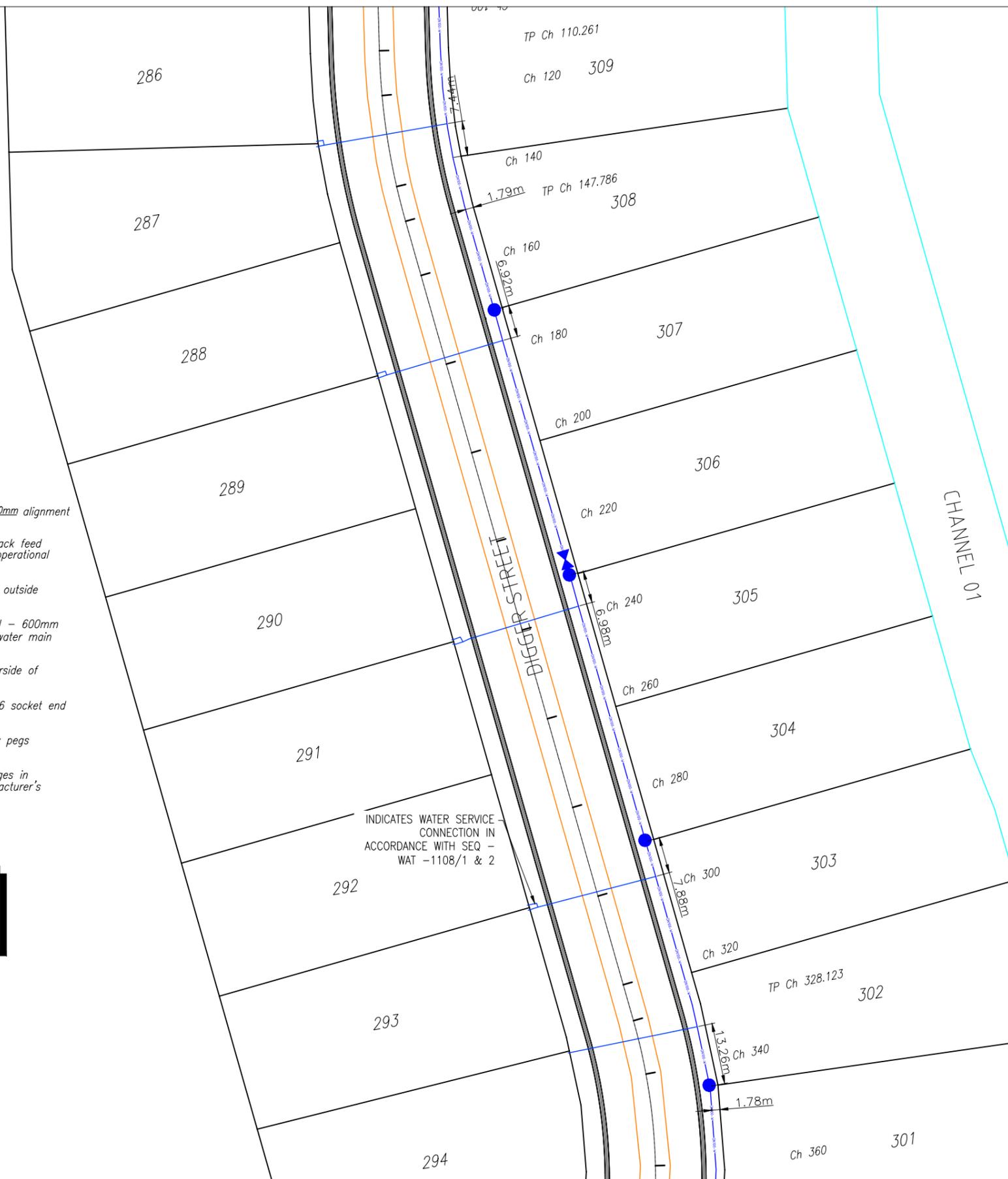
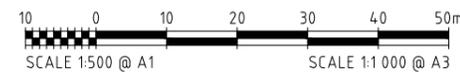
-  DN100 PVC WATER MAIN
-  DN150 PVC WATER MAIN
-  DN300 PVC WATER MAIN
-  AS BUILT OUTSIDE BOUNDARY
-  Ex.W EXISTING WATER MAIN
-  SLUICE VALVE
-  WATER SERVICE
-  WATER SERVICE
-  FIRE HYDRANT

WATER NOTES

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DRAWN	MIT		09/11/23



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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 WATER RETICULATION PLAN – SHEET 1 OF 3

SCALE	AS SHOWN
SHEET	13 OF 16
REVISION	0 1
DRG No.	0944 - AC - 013

AS CONSTRUCTION

09 NOVEMBER 2023

WATER LEGEND

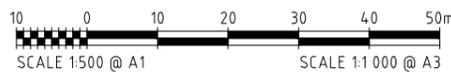
- DN100 PVC WATER MAIN
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- WATER SERVICE
- WATER SERVICE
- FIRE HYDRANT

WATER NOTES

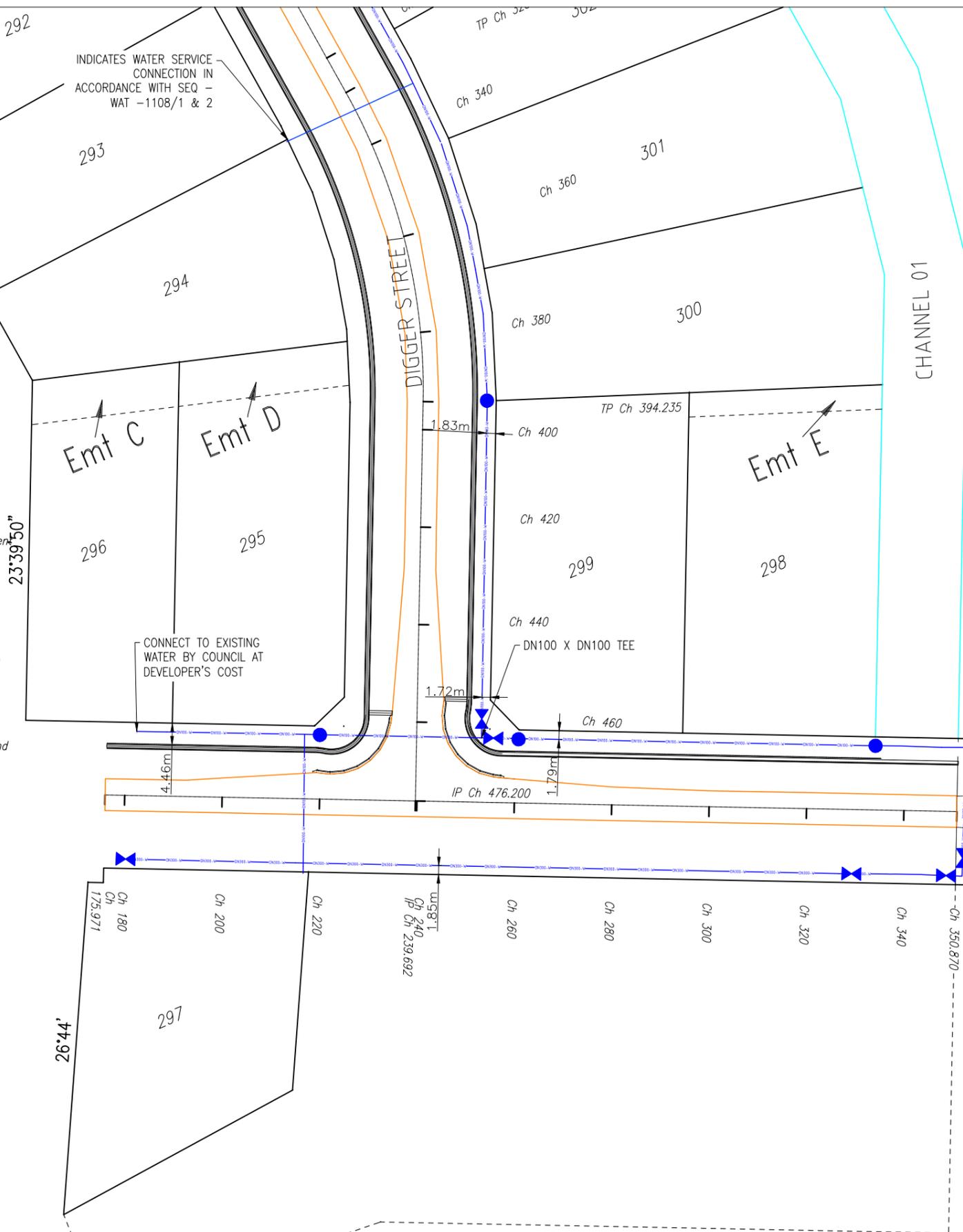
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CONFLICTS WITH SERVICES

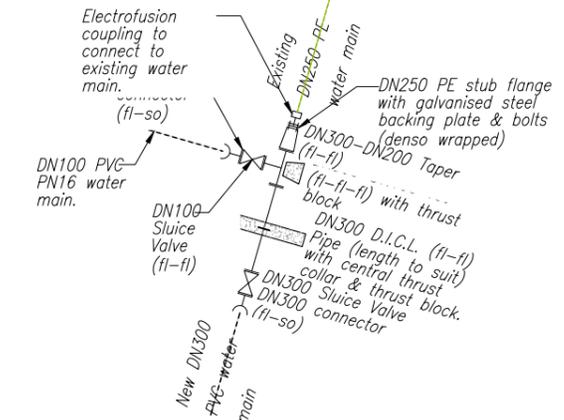
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INDICATES WATER SERVICE CONNECTION IN ACCORDANCE WITH SEQ - WAT -1108/1 & 2



Accepted As Constructed



PVC TO POLY MAIN CONNECTION FOLLOWING DN300 MAIN CONSTRUCTION

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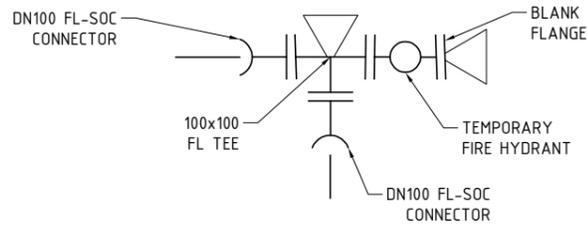
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VERT. DATUM	AHD	
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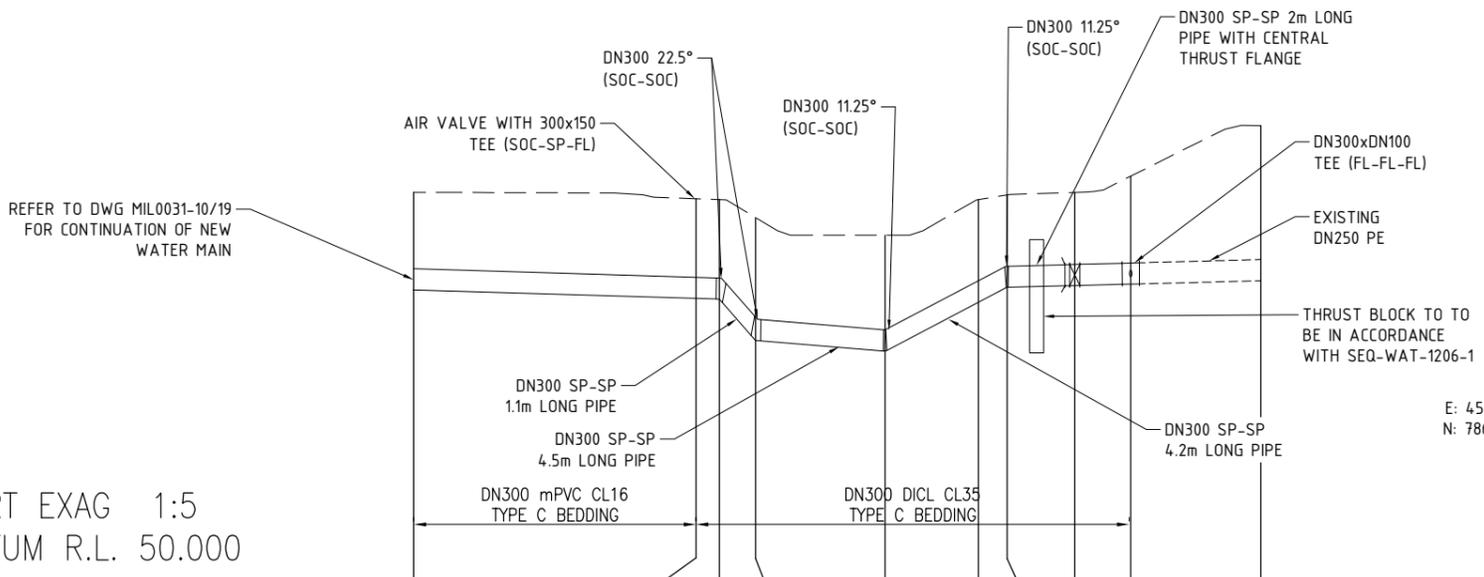
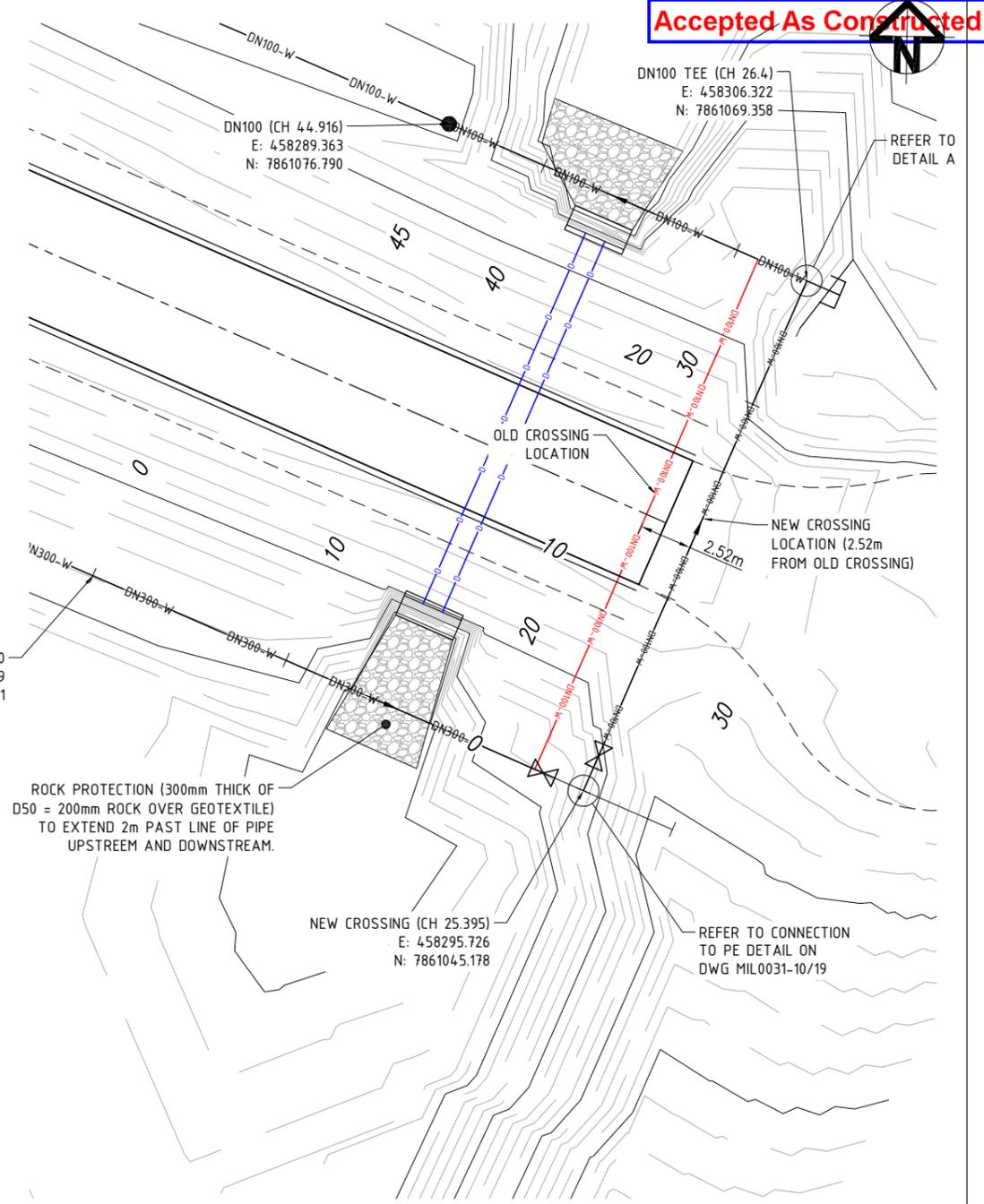
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 e brett@langtreeconsulting.com.au

TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 WATER RETICULATION PLAN - SHEET 3 OF 3

SCALE	AS SHOWN
SHEET	14 OF 16
REVISION	0 1
DRG No.	0944 - AC - 014



CONFLICTS WITH SERVICES
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INVERT LEVEL	54.224	54.103	54.090	53.509	53.357	54.048	54.261	54.284	54.305	56.548
NATURAL SURFACE	55.605	55.515	55.503	55.248	55.000	55.504	55.569	55.603	55.833	56.548
DEPTH TO INVERT LEVEL	-1.381	-1.412	-1.413	-1.739	-1.643	-1.456	-1.308	-1.319	-1.528	0.000
CHAINAGE	0.000	10.000	10.827	12.110	16.697	20.000	21.018	23.412	25.395	30.000

DN300 WATER LONG SECTION

NOTES
1. THRUST BLOCKS TO BE LOCATED AT ALL HORIZONTAL AND VERTICAL BENDS AND ARE TO BE IN ACCORDANCE WITH SEQ-WAT-1205-1 AND 1207-1

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B Cook
REGISTERED SURVEYOR BEN COOK
15/11/2023
DATE

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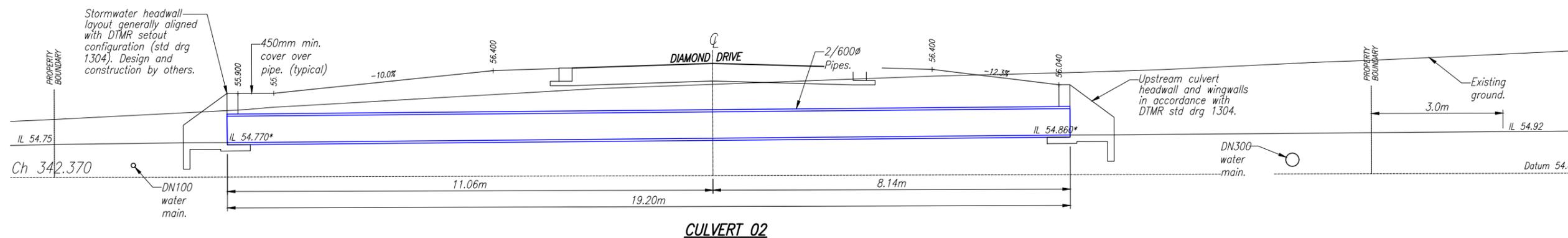
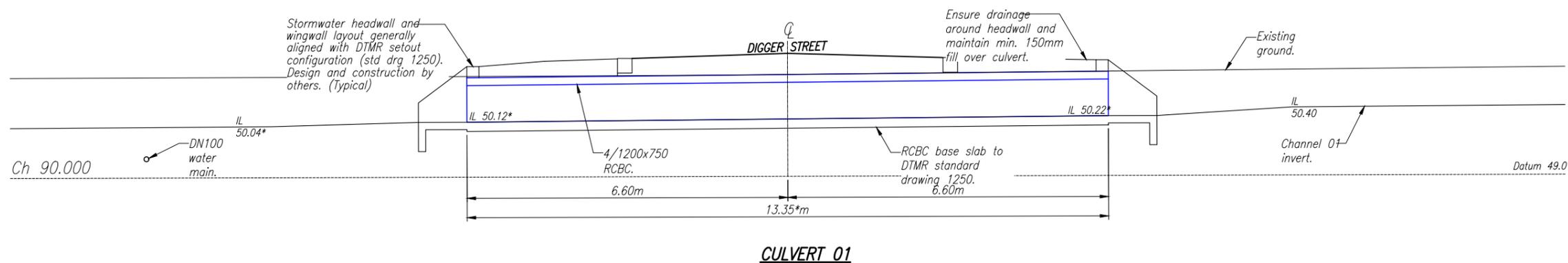
- AIR VALVES**
- AIR VALVES TO BE INSTALLED WHERE SHOWN ON DRAWINGS.
 - AIR VALVE INSTALLATION TO BE IN ACCORDANCE WITH SEQ-WAT-1304 -1.
 - AIR VALVES TO BE AMIAD D-040 C 25MM WITH THREADED MALE CONNECTION OR EQUIV WITH BALL VALVE TO SUIT.
 - LOCALLY FILL AROUND PIT AS NEEDED IF PIPE COVER LESS THAN 950MM. BATTER AWAY FROM LID.
 - DN15 BRASS BALL VALVE WITH DN15 COPPER SAMPLE TAP SHOWN ON SEQ-WAT-1304 -1 IS NOT REQUIRED.

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TOWNSVILLE CITY COUNCIL
MOUNT MARGARET ESTATE
STAGE 10, NICKEL STREET, ALICE RIVER
WATER CULVERT CROSSING PLAN

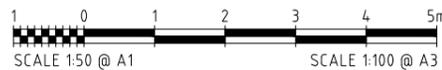
SCALE	AS SHOWN
SHEET	15 OF 16
REVISION	0 1
DRG No.	0944 - C - 015



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B/Cook
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TOWNSVILLE CITY COUNCIL
 MOUNT MARGARET ESTATE
 STAGE 10, NICKEL STREET, ALICE RIVER
 WATER RETICULATION PLAN – SHEET 3 OF 3

SCALE	AS SHOWN
SHEET	16 OF 16
REVISION	0 1
DRG No.	0944 – AC – 016