



ENGINEER'S CERTIFICATION

I, _____, hereby certify that:

- The information contained in this drawing / document is in compliance with approved drawings and design.
- The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ Code.
- This represents an accurate record of as-constructed works.
- I accept responsibility for the information contained in this drawing / document.

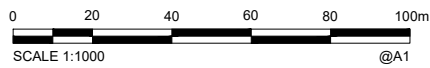
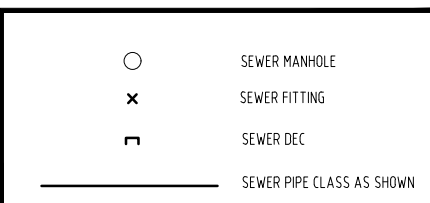
RPEQ (signature) RPEQ No. _____ Date: _____

AS CONSTRUCTED

REGISTERED SURVEYOR'S CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Registered Surveyor (sig.) Reg. Surveyor No. SA 3405 Date: 12/07/2021



COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEODENIC DATUM OF AUSTRALIA 1994.
 HORIZONTAL DATUM DERIVED FROM PSM 61308 E 4.98528.114 N 6931171.033.
 LEVELS SUPPLIED ARE ON THE AUSTRALIAN HEIGHT DATUM(AHD)
 LEVEL DATUM DERIVED FROM PSM 61308 RL54.660 (AHD)

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED
	A	12/07/2021	AS CONSTRUCTED	NJA	DAM	CW

DRAWN	NJA	12/07/2021
CHECKED	DAM	12/07/2021
PASSED	CW	12/07/2021
INITIALS	DATE	

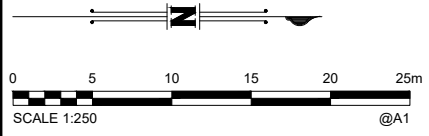


LOGAN CITY COUNCIL

MIRVAC MIR001-04
 AS CONSTRUCTED SURVEY - SEWER
 EVERLEIGH PRECINCT 12.1
 GREENBANK QLD

SHEET 1 OF 6 SHEETS	SCALE 1:1000 A1
REVISION DATE 12/07/2021	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-SEWER-01-12.1	

PM61308 RL
 E: 4.98528.114
 N: 6931171.033
 RL: 54.660m



AS CONSTRUCTED

- SEWER MANHOLE
- × SEWER FITTING
- ┌ SEWER DEC
- SEWER PIPE CLASS AS SHOWN

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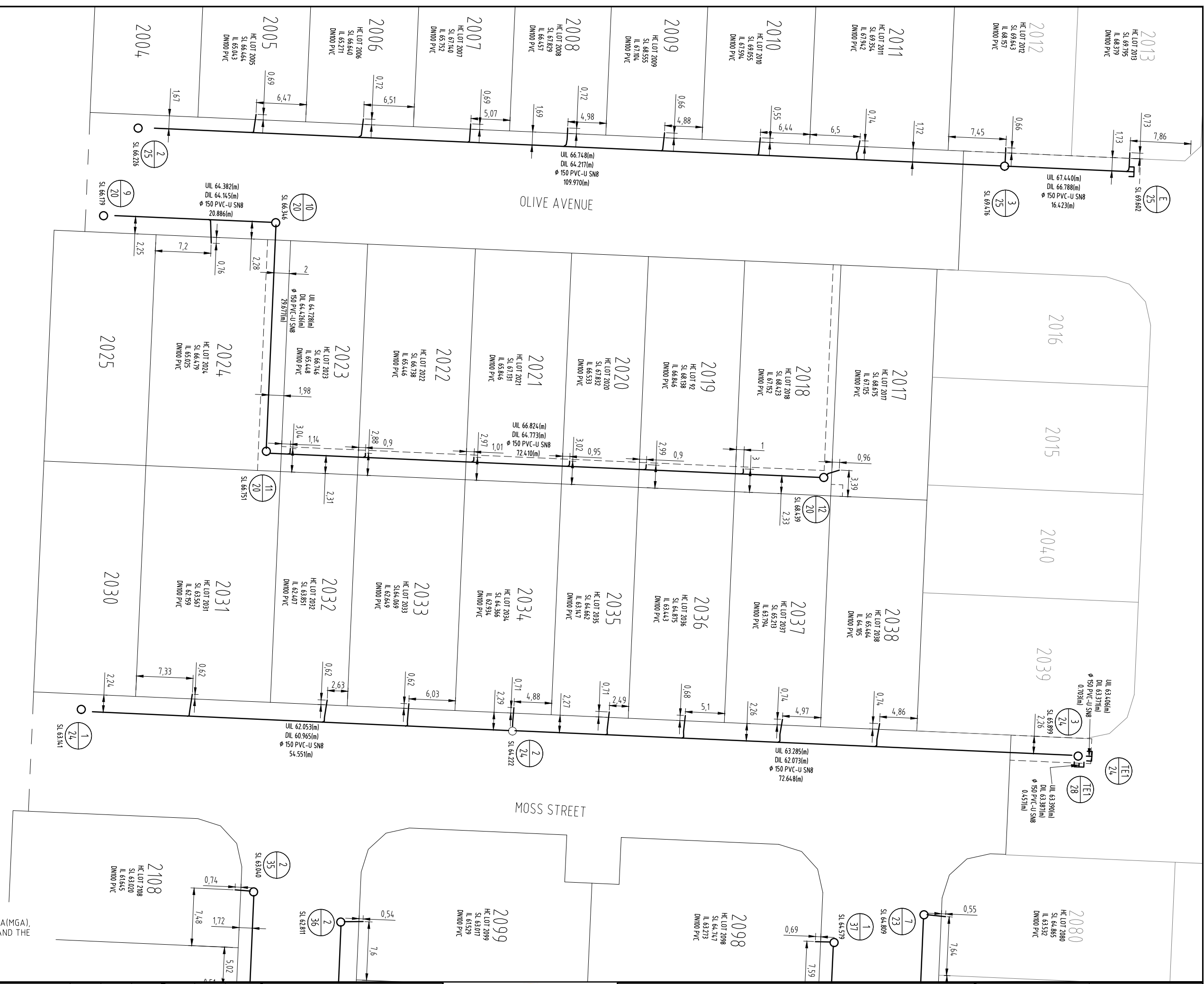
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Gordon Nicholson
 Registered Surveyor (sig.) Reg. Surveyor No. SA 34.05 Date: 12/07/2021

COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 1994.
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 LEVEL DATUM DERIVED FROM PSM 61308 RL54.660 (AHD)



A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
	A	12/07/2021	AS CONSTRUCTED	NJA	DAM	CW		

shadforth

58 Southwood Lane, Forest Glen QLD 4086
 07 5428 2000 • 07 5428 2008 • shadforth@shadforth.com.au

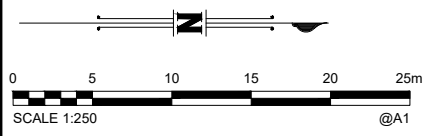


LOGAN CITY COUNCIL

MIRVAC MIR001-04
 AS CONSTRUCTED SURVEY - SEWER
 EVERLEIGH PRECINCT 12.1
 GREENBANK QLD

SHEET 2 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 12/07/2021	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-SEWER-02-12.1	

PM61308 RL
 E: 4.98528.114
 N: 6.931171.033
 RL: 54.660m



AS CONSTRUCTED	
	SEWER MANHOLE
	SEWER FITTING
	SEWER DEC
	SEWER PIPE CLASS AS SHOWN

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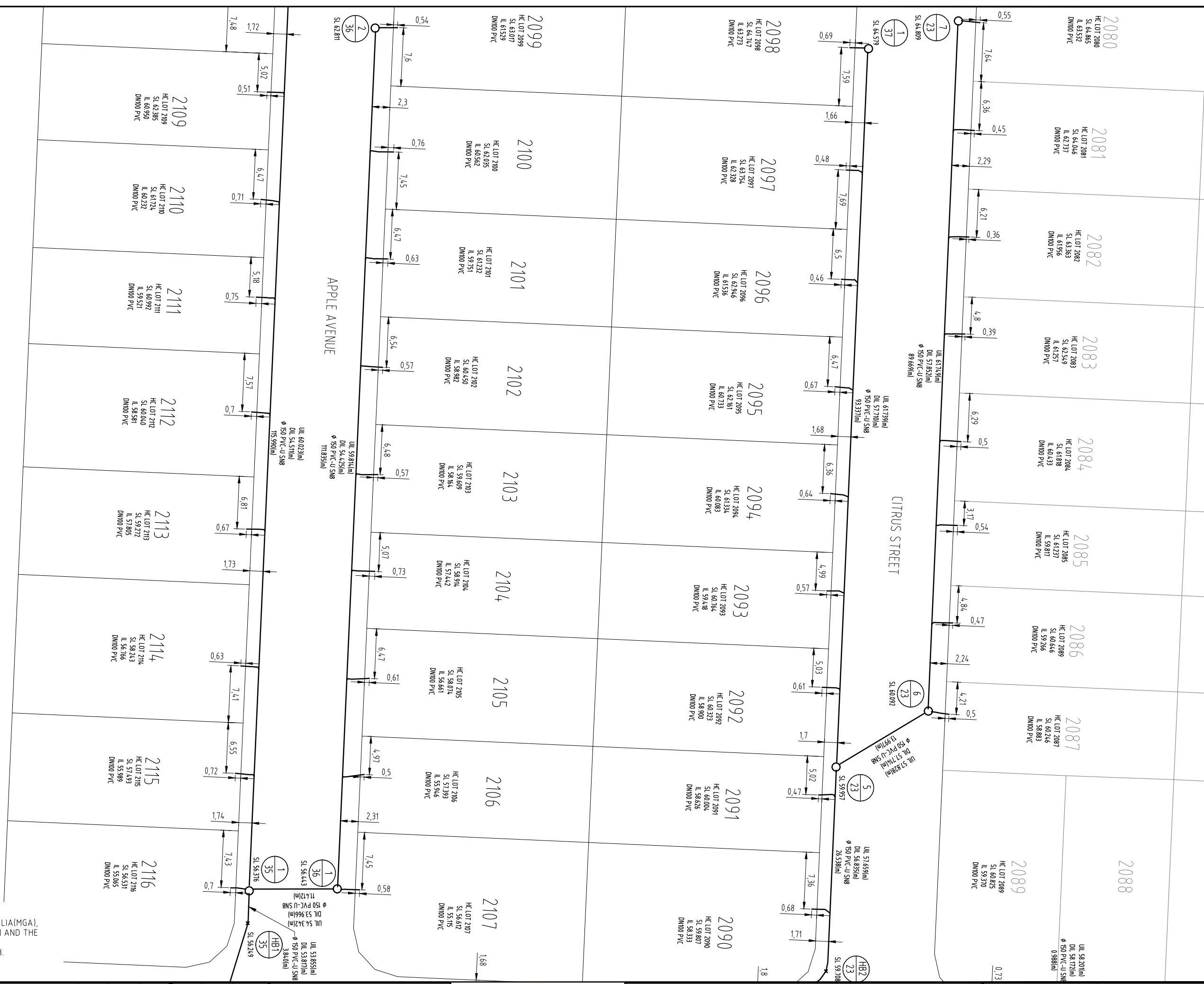
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 LEVEL DATUM DERIVED FROM PSM 61308 RL54.660 (AHD)

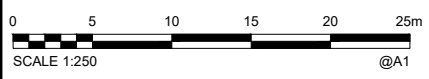
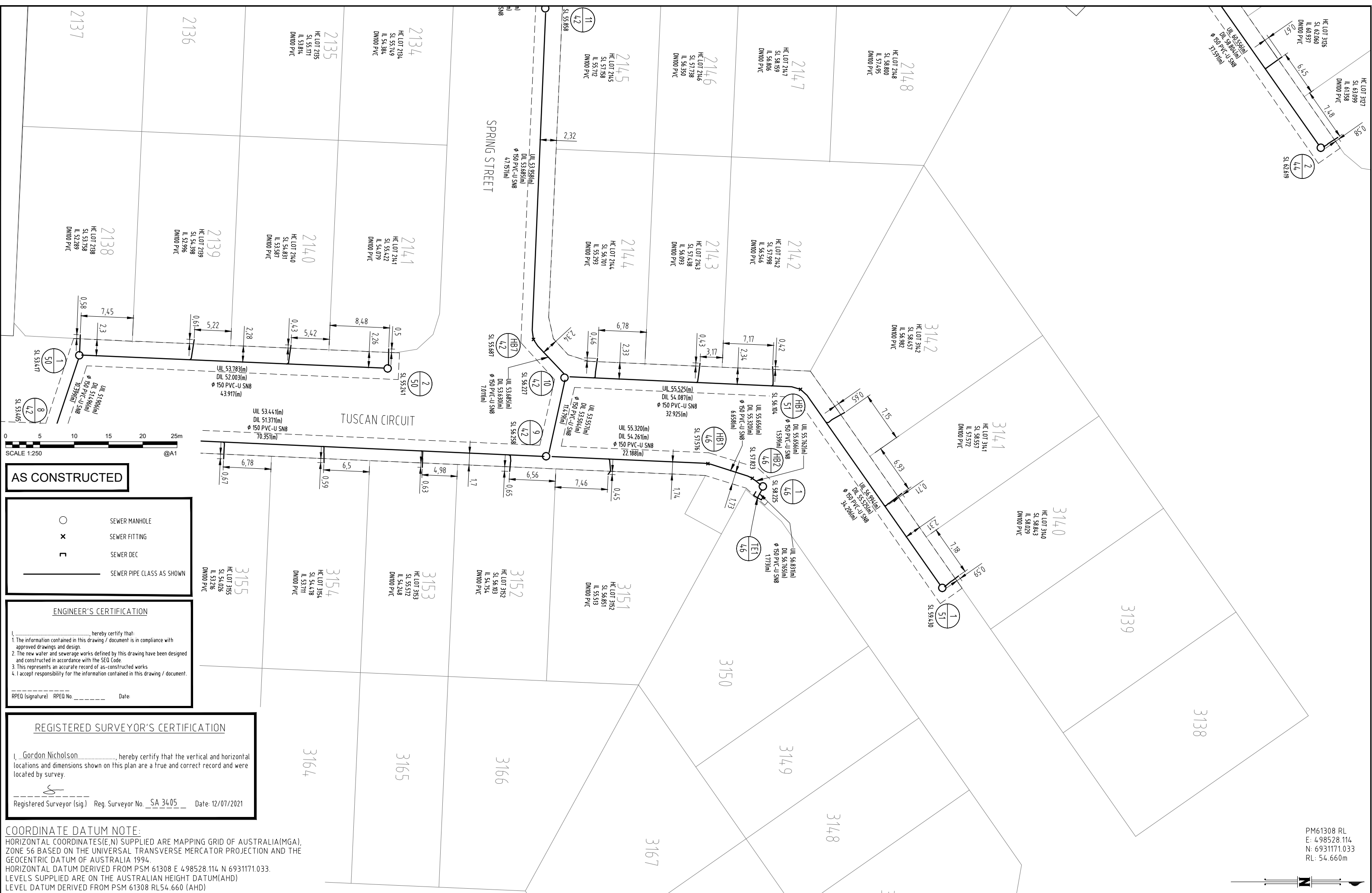


A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
	A	12/07/2021	AS CONSTRUCTED	NJA	DAM	CW		



LOGAN CITY COUNCIL
 MIRVAC MIR001-04
 AS CONSTRUCTED SURVEY - SEWER
 EVERLEIGH PRECINCT 12.1
 GREENBANK QLD

SHEET 3 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 12/07/2021	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-SEWER-03-12.1	



AS CONSTRUCTED

- SEWER MANHOLE
- × SEWER FITTING
- ┌ SEWER DEC
- SEWER PIPE CLASS AS SHOWN

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[Signature]
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PM61308 RL
 E: 4.98528.114
 N: 6931171.033
 RL: 54.660m

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
	A	12/07/2021	AS CONSTRUCTED	NJA	DAM	CW		
				NJA	DAM	CW		
				NJA	DAM	CW		

shadforth

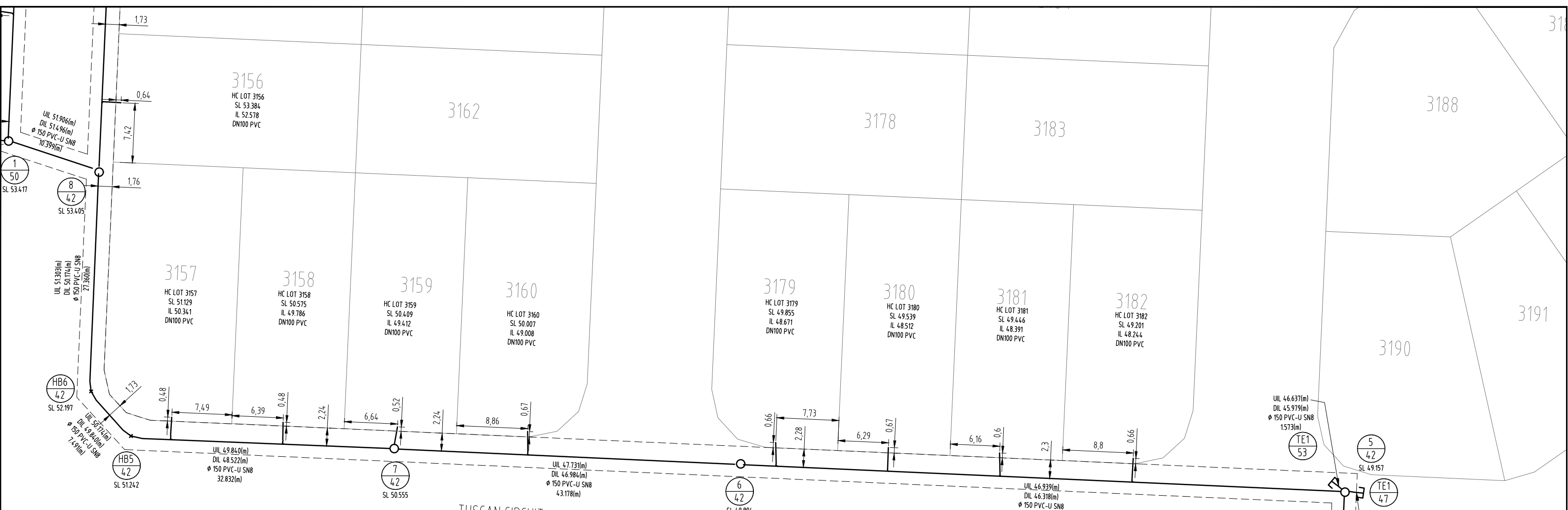
38 Southshore Lane, Forest Glen QLD 4086
 07 5438 2000 • 07 5438 2008 • shadforth@shadforth.com.au



LOGAN CITY COUNCIL

MIRVAC MIR001-04
 AS CONSTRUCTED SURVEY - SEWER
 EVERLEIGH PRECINCT 12.1
 GREENBANK QLD

SHEET 5 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 12/07/2021	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-SEWER-05-12.1	



AS CONSTRUCTED

○	SEWER MANHOLE
×	SEWER FITTING
┌	SEWER DEC
—	SEWER PIPE CLASS AS SHOWN

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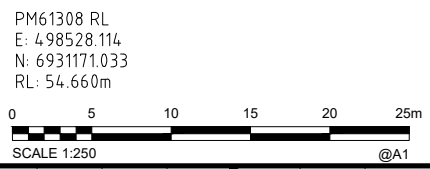
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A1									
	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	
	A	12/07/2021	AS CONSTRUCTED	NJA	DAM	CW			



LOGAN CITY COUNCIL

MIRVAC MIR001-04
 AS CONSTRUCTED SURVEY - SEWER
 EVERLEIGH PRECINCT 12.1
 GREENBANK QLD

SHEET 6 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 12/07/2021	REVISION A
DISCIPLINE CODE	
DRAWING NO.	
ASC-SEWER-06-12.1	

MAINTENANCE HOLE / SHAFT NO.	2/24	3/24	TE1/24
MH / MS COVER TYPE	B	B	B
MH / MS TYPE	J	A	TE
MH DROP TYPE	V	V	V
LINE NO.	24	28	24 24
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	62.934	63.147	63.443
PROPERTY CONNECTION TYPE	B	B	B
LOT NO.	2034	2035	2036

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

NOTES:
 1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
 2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

HORIZONTAL BEND NOTE:
 DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
 CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

DATUM RL	51.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	59.67 / -62 / 20.07 / -21
LENGTH	73.728 / 1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.057 / 2.037 / 2.639 / 2.592 / 2.570
INVERT LEVEL (IL)	62.053 / 62.144 / 62.167 / 62.073 / 63.285 / 63.240 / 63.443 / 63.371 / 63.442 / 63.406
FINISHED SURFACE LEVEL (FSL)	64.222 / 64.201 / 65.899 / 65.907 / 66.476 / 66.492 / 66.788 / 66.788 / 66.644 / 69.602
EXISTING SURFACE LEVEL (ESL)	61.653 / 62.934 / 70.638 / 70.727
CHAINAGE (CH)	55.750 / 129.478 / 130.478

LINE 24

EX. TE	2/25	3/25	E/25
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X)	43.45 / -43 / 25.19 / -25	152.42 / -100 / 43.45 / -43 / 25.19 / -25	152.42 / -100 / 43.45 / -43 / 25.19 / -25
LENGTH	112.500 / 16.000	112.500 / 16.000	112.500 / 16.000
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3
DEPTH OF INVERT BELOW FSL	2.052 / 2.052 / 2.715 / 2.695 / 2.200	2.052 / 2.052 / 2.715 / 2.695 / 2.200	2.052 / 2.052 / 2.715 / 2.695 / 2.200
INVERT LEVEL (IL)	64.217 / 64.217 / 66.788 / 66.788 / 66.788 / 66.788 / 67.440	64.217 / 64.217 / 66.788 / 66.788 / 66.788 / 66.788 / 67.440	64.217 / 64.217 / 66.788 / 66.788 / 66.788 / 66.788 / 67.440
FINISHED SURFACE LEVEL (FSL)	66.226 / 66.232 / 69.476 / 69.492 / 69.602	66.226 / 66.232 / 69.476 / 69.492 / 69.602	66.226 / 66.232 / 69.476 / 69.492 / 69.602
EXISTING SURFACE LEVEL (ESL)	62.934 / 70.638 / 70.727	62.934 / 70.638 / 70.727	62.934 / 70.638 / 70.727
CHAINAGE (CH)	0.000 / 112.500 / 128.500	0.000 / 112.500 / 128.500	0.000 / 112.500 / 128.500

LINE 25

TE	2/23	HB1/35	1/35	2/35
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X)	100.55 / -100 / 111.13 / -100 / 113.8 / -100 / 20.83 / -21	100.55 / -100 / 111.13 / -100 / 113.8 / -100 / 20.83 / -21	100.55 / -100 / 111.13 / -100 / 113.8 / -100 / 20.83 / -21	100.55 / -100 / 111.13 / -100 / 113.8 / -100 / 20.83 / -21
LENGTH	19.378 / 0.380 / 0.380 / 4.188 / 116.000	19.378 / 0.380 / 0.380 / 4.188 / 116.000	19.378 / 0.380 / 0.380 / 4.188 / 116.000	19.378 / 0.380 / 0.380 / 4.188 / 116.000
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3	TYPE 3
DEPTH OF INVERT BELOW FSL	2.275 / 2.195 / 2.366 / 2.376 / 2.386 / 2.540 / 1.940	2.275 / 2.195 / 2.366 / 2.376 / 2.386 / 2.540 / 1.940	2.275 / 2.195 / 2.366 / 2.376 / 2.386 / 2.540 / 1.940	2.275 / 2.195 / 2.366 / 2.376 / 2.386 / 2.540 / 1.940
INVERT LEVEL (IL)	53.542 / 53.625 / 53.813 / 53.817 / 53.821 / 53.855 / 54.511	53.542 / 53.625 / 53.813 / 53.817 / 53.821 / 53.855 / 54.511	53.542 / 53.625 / 53.813 / 53.817 / 53.821 / 53.855 / 54.511	53.542 / 53.625 / 53.813 / 53.817 / 53.821 / 53.855 / 54.511
FINISHED SURFACE LEVEL (FSL)	55.738 / 56.227 / 56.249 / 56.242 / 56.255 / 56.376 / 56.451	55.738 / 56.227 / 56.249 / 56.242 / 56.255 / 56.376 / 56.451	55.738 / 56.227 / 56.249 / 56.242 / 56.255 / 56.376 / 56.451	55.738 / 56.227 / 56.249 / 56.242 / 56.255 / 56.376 / 56.451
EXISTING SURFACE LEVEL (ESL)	55.862 / 56.227 / 56.242 / 56.255 / 56.451	55.862 / 56.227 / 56.242 / 56.255 / 56.451	55.862 / 56.227 / 56.242 / 56.255 / 56.451	55.862 / 56.227 / 56.242 / 56.255 / 56.451
CHAINAGE (CH)	0.000 / TP 19.378 / IP 19.758 / TP 20.138 / 24.326 / 140.326	0.000 / TP 19.378 / IP 19.758 / TP 20.138 / 24.326 / 140.326	0.000 / TP 19.378 / IP 19.758 / TP 20.138 / 24.326 / 140.326	0.000 / TP 19.378 / IP 19.758 / TP 20.138 / 24.326 / 140.326

LINE 28 35

TE	1/35	1/36	2/36
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X)	27.71 / -20 / 20.61 / -21	27.71 / -20 / 20.61 / -21	27.71 / -20 / 20.61 / -21
LENGTH	11.461 / 112.000	11.461 / 112.000	11.461 / 112.000
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3
DEPTH OF INVERT BELOW FSL	2.540 / 2.039 / 2.986	2.540 / 2.039 / 2.986	2.540 / 2.039 / 2.986
INVERT LEVEL (IL)	53.855 / 53.991 / 54.342 / 54.425	53.855 / 53.991 / 54.342 / 54.425	53.855 / 53.991 / 54.342 / 54.425
FINISHED SURFACE LEVEL (FSL)	56.376 / 56.443 / 56.457 / 56.457	56.376 / 56.443 / 56.457 / 56.457	56.376 / 56.443 / 56.457 / 56.457
EXISTING SURFACE LEVEL (ESL)	56.451 / 56.457	56.451 / 56.457	56.451 / 56.457
CHAINAGE (CH)	0.000 / 11.461 / 123.461	0.000 / 11.461 / 123.461	0.000 / 11.461 / 123.461

LINE 36

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AS CONSTRUCTED	
12/07/2021	C AS CONSTRUCTED
11/08/20	B ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS
27/07/20	A ORIGINAL ISSUE
DATE	REV DESCRIPTION
	REVISIONS

Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED: A LANGDON
 CHECKED: M MAJZNER
 PROJECT MANAGER: R LLEWELYN
 PROJECT DIRECTOR: PAT BRADY
 RPEQ 7112

SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC GROUP
 PROJECT: EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: SEWERAGE LONG SECTIONS - SHEET 2

JOB CODE: M1R012-01
 SHEET NUMBER: C521
 REV: C

MAINTENANCE HOLE / SHAFT NO. (5/23) (1/37)

MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	V
LINE NO.	37	23
PROPERTY CONNECTION DEPTH	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	58.900	59.418
PROPERTY CONNECTION TYPE	B	B
LOT NO.	2092	2093

MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	V
LINE NO.	38	42
PROPERTY CONNECTION DEPTH	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	59.097	59.604
PROPERTY CONNECTION TYPE	B	B
LOT NO.	2162	2163

MH / MS COVER TYPE	B	B	B
MH / MS TYPE	A	A	A
MH DROP TYPE	V	V	W
LINE NO.	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	48.244	48.391	48.512
PROPERTY CONNECTION TYPE	D	D	D
LOT NO.	3182	3181	3180

MH / MS COVER TYPE	B	B	B	B
MH / MS TYPE	A	A	A	A
MH DROP TYPE	V	V	W	V
LINE NO.	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	49.007	49.412	49.786	50.341
PROPERTY CONNECTION TYPE	D	D	B	B
LOT NO.	3160	3159	3158	3157

MH / MS COVER TYPE	B	B	B	B	B
MH / MS TYPE	A	A	A	A	A
MH DROP TYPE	V	V	W	V	V
LINE NO.	42	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	52.578	53.216	53.711	54.208	54.705
PROPERTY CONNECTION TYPE	B	B	B	B	B
LOT NO.	3156	3155	3154	3153	3152

MH / MS COVER TYPE	B	B	B	B	B	B
MH / MS TYPE	A	A	A	A	A	A
MH DROP TYPE	V	V	W	V	V	V
LINE NO.	42	42	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	54.208	54.705	55.202	55.699	56.196	56.693
PROPERTY CONNECTION TYPE	B	B	B	B	B	B
LOT NO.	3151	3150	3149	3148	3147	3146

MH / MS COVER TYPE	B	B	B	B	B	B	B
MH / MS TYPE	A	A	A	A	A	A	A
MH DROP TYPE	V	V	W	V	V	V	V
LINE NO.	42	42	42	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	56.693	57.190	57.687	58.184	58.681	59.178	59.675
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B
LOT NO.	3145	3144	3143	3142	3141	3140	3139

MH / MS COVER TYPE	B	B	B	B	B	B	B	B
MH / MS TYPE	A	A	A	A	A	A	A	A
MH DROP TYPE	V	V	W	V	V	V	V	V
LINE NO.	42	42	42	42	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	59.675	60.172	60.669	61.166	61.663	62.160	62.657	63.154
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B	B
LOT NO.	3138	3137	3136	3135	3134	3133	3132	3131

MH / MS COVER TYPE	B	B	B	B	B	B	B	B	B
MH / MS TYPE	A	A	A	A	A	A	A	A	A
MH DROP TYPE	V	V	W	V	V	V	V	V	V
LINE NO.	42	42	42	42	42	42	42	42	42
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	63.154	63.651	64.148	64.645	65.142	65.639	66.136	66.633	67.130
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B	B	B
LOT NO.	3130	3129	3128	3127	3126	3125	3124	3123	3122

LEGEND RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

- NOTES:
1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

DATUM RL	48.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	-23
LENGTH	93.200
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.325
INVERT LEVEL (IL)	57.659
FINISHED SURFACE LEVEL (FSL)	59.986
EXISTING SURFACE LEVEL (ESL)	55.443
CHAINAGE (CH)	93.200

DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	-25
LENGTH	14.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.594
INVERT LEVEL (IL)	57.743
FINISHED SURFACE LEVEL (FSL)	60.386
EXISTING SURFACE LEVEL (ESL)	56.742
CHAINAGE (CH)	14.000

DATUM RL	37.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	-31
LENGTH	9.500
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	3.265
INVERT LEVEL (IL)	45.257
FINISHED SURFACE LEVEL (FSL)	48.533
EXISTING SURFACE LEVEL (ESL)	48.435
CHAINAGE (CH)	9.500

LINE 37

LINE 38

LINE 42

REGISTERED SURVEYOR'S CERTIFICATION
I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.
Registered Surveyor (sig) Reg. Surveyor No. SA 3405 Date: 12/07/2021

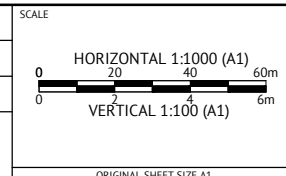
AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
12/07/2021	E	AS CONSTRUCTED	
20/05/2021	D	ADDED PIPE SIZE AND EMBEDMENT TYPE	KK PB
07/05/2021	C	AMENDED INVERT LEVELS, FINISHED SURFACE LEVELS AND PROPERTY CONNECTIONS	KK PB
11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	KK PB
27/07/20	A	ORIGINAL ISSUE	AL PB
			REC APP



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DESIGNED
K KIWANG
CHECKED
M MAJZNER
PROJECT MANAGER
S STEINHOFFER
PROJECT DIRECTOR
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE LONG SECTIONS - SHEET 3

JOB CODE
MIR012-01
SHEET NUMBER
C522
REV
E/D

MAINTENANCE HOLE / SHAFT NO.

MH / MS COVER TYPE	HB9/42		12/42		13/42		HB10/42		14/42		HB11/42		HB12/42		15/42		16/42		TE2/42	
MH / MS TYPE	HTP	HTP	HB	HTP	A	A	HTP	HB	HTP	J	HTP	HB	HTP	HTP	HB	HTP	A	J	TE	
MH DROP TYPE					Y	V	Y	V			V					V	V	V		
LINE NO.					45	42	44	42			42					38	42		42	42
PROPERTY CONNECTION DEPTH																				
PROPERTY CONNECTION INVERT LEVEL																				
PROPERTY CONNECTION TYPE																				
LOT NO.																				

LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

NOTES:

- EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
- DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

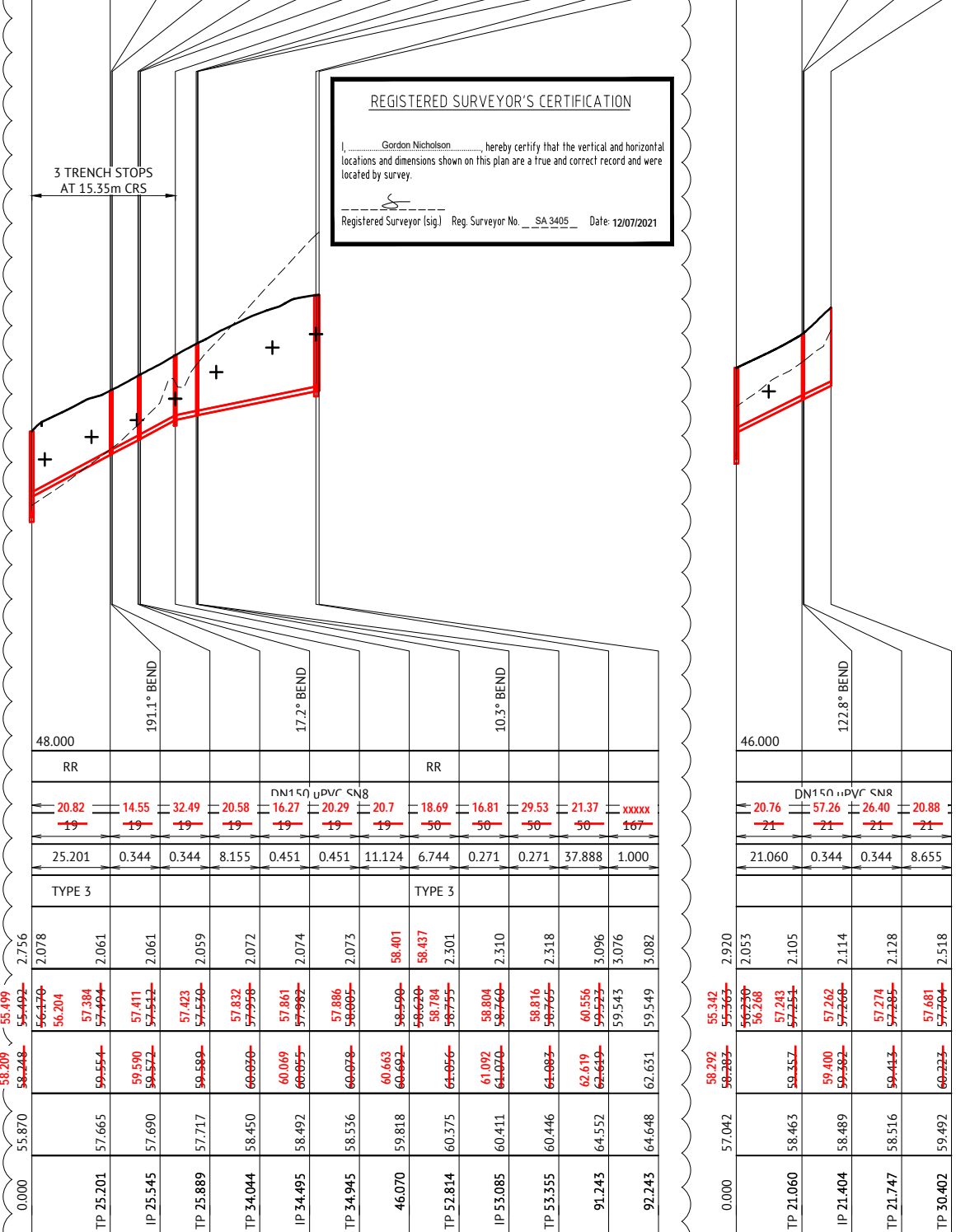
DATUM RL

PROPERTY DESCRIPTION	RR																						
PIPE SIZE (mm), CLASS	40.62	36.53	27.69	33.92	169.10	175.40	186.85	93.54	155.15	199.19	34.82	42.01	21.92	37.81	56.74	32.12	34.81	49.08	20.39				
GRADE (1 IN X)	-33	-33	-33	-33	-180	-180	-180	-180	-180	-34	-34	-34	-34	-34	-34	-34	-34	-50	-25				
LENGTH	4.022	1.178	1.178	32.521	15.950	6.042	1.178	1.178	24.706	27.106	1.178	1.178	1.178	4.800	1.178	1.178	33.964	13.262	1.000				
EMBEDMENT TYPE	TYPE 3																						
DEPTH OF INVERT BELOW FSL	1.867	2.149	2.254	2.352	55.342	55.413	55.499	55.528	55.561	2.089	2.010	1.940	55.698	55.722	1.530	1.569	55.777	57.743	57.862	58.112	58.172	2.496	
INVERT LEVEL (IL)	54.229	54.323	54.354	54.405	55.342	55.385	55.405	55.499	55.561	55.555	55.567	55.576	55.705	55.725	56.498	56.531	56.546	56.777	57.743	57.862	58.112	58.172	2.496
FINISHED SURFACE LEVEL (FSL)	56.064	56.466	56.604	56.699	58.292	58.283	58.209	58.240	58.561	58.644	57.569	57.599	57.636	57.628	58.041	58.148	58.145	60.386	60.594	60.644	60.644	60.644	2.496
EXISTING SURFACE LEVEL (ESL)	54.189	54.301	54.354	54.435	57.042	57.042	55.870	55.330	55.237	55.161	54.132	53.578	53.586	53.625	53.850	53.916	53.993	56.742	57.494	57.494	57.494	57.494	2.496
CHAINAGE (CH)	TP 366.841	TP 370.863	IP 372.041	TP 373.219	405.740	421.690	TP 427.732	IP 428.910	TP 430.088	454.795	TP 481.901	IP 483.079	TP 484.257	TP 489.056	IP 490.235	TP 491.413	525.377	538.659	539.659				

LINE

42

MH / MS COVER TYPE	13/42		HB1/44		HB2/44		1/44		HB3/44		2/44		TE1/44		12/42		HB1/45	
MH / MS TYPE	HTP	HTP	HB	HTP	A	A	HTP	HB	HTP	HTP	HB	HTP	A	J	TE			
MH DROP TYPE					Y	V	Y	V			V				V	V	V	
LINE NO.					44	42					44				63	44	58	
PROPERTY CONNECTION DEPTH																		
PROPERTY CONNECTION INVERT LEVEL																		
PROPERTY CONNECTION TYPE																		
LOT NO.																		



LINE

44

45

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
12/07/2021	D	AS CONSTRUCTED	
04/11/2020	C	AMENDED SEWER LONG SECTION 44	KK PB
11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	KK PB
27/07/20	A	ORIGINAL ISSUE	AL PB

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WEB: www.premise.com.au

DESIGNED
A LANGDON
CHECKED
M MAJZNER
PROJECT MANAGER
C THORP
PROJECT DIRECTOR
PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE LONG SECTIONS - SHEET 4

JOB CODE
MIR012-01
SHEET NUMBER
C523
REV
D/C

MAINTENANCE HOLE / SHAFT NO.	HB2/45	1/45	TE1/45
MH / MS COVER TYPE	HTP	HB	HTP
MH / MS TYPE	J		TE
MH DROP TYPE	Z		
LINE NO.	45	45	45
PROPERTY CONNECTION DEPTH			
PROPERTY CONNECTION INVERT LEVEL			
PROPERTY CONNECTION TYPE			
LOT NO.			

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

- NOTES:**
 1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
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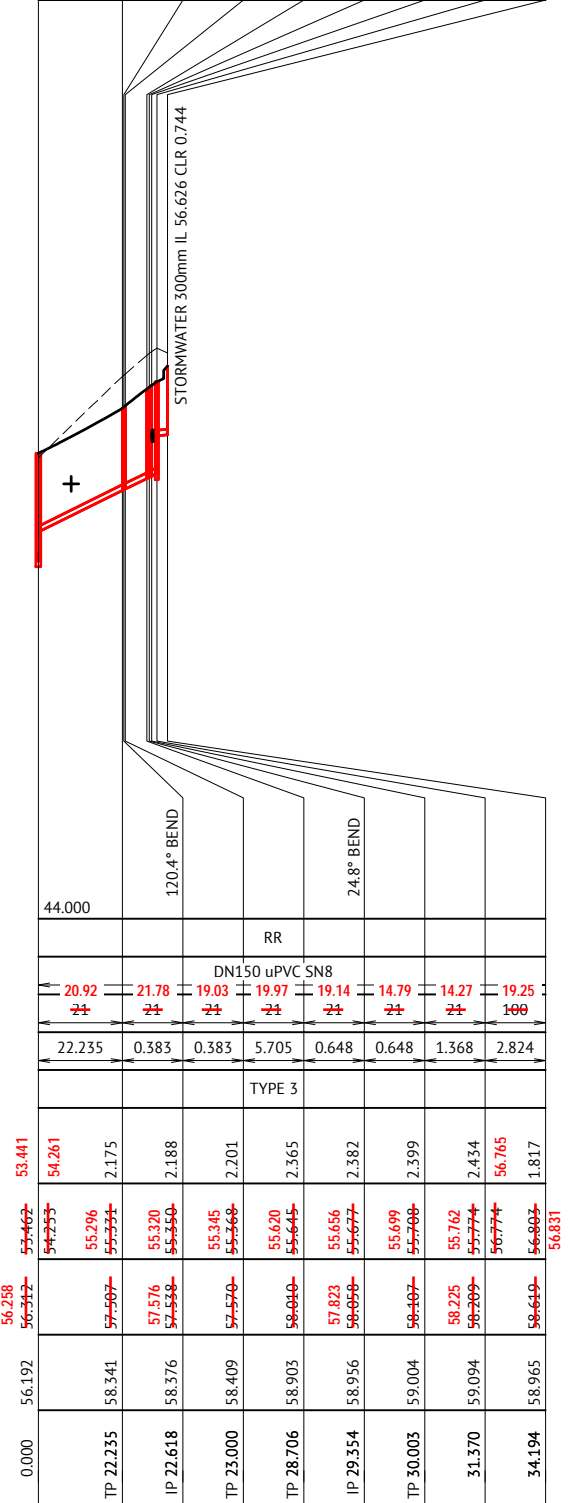
HORIZONTAL BEND NOTE:
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PROPERTY CONNECTION NOTE:
 CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

DATUM RL	47.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100
LENGTH	0.688 0.688 1.354 2.824
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.518 2.550 2.583 2.655 1.455 1.646
INVERT LEVEL (IL)	57.681 57.713 57.751 57.799 59.037 59.065
FINISHED SURFACE LEVEL (FSL)	60.227 60.260 60.288 60.354 60.466 60.491
EXISTING SURFACE LEVEL (ESL)	59.492 59.636 59.795 59.918 59.778
CHAINAGE (CH)	TP 30.402 IP 31.090 TP 31.777 33.131 35.955

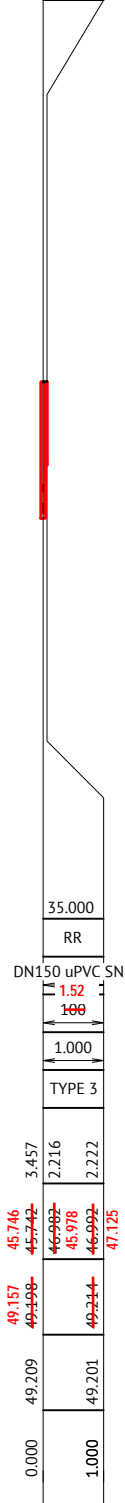
LINE 45

9/42	HB1/46	HB2/46	1/46	TE1/46
B	HTP	HB	HTP	HTP
A	HTP	HB	HTP	HTP
Y				Z
46	42			46
	1.250			
	55.513			
	55.508			
	3151			
	B			



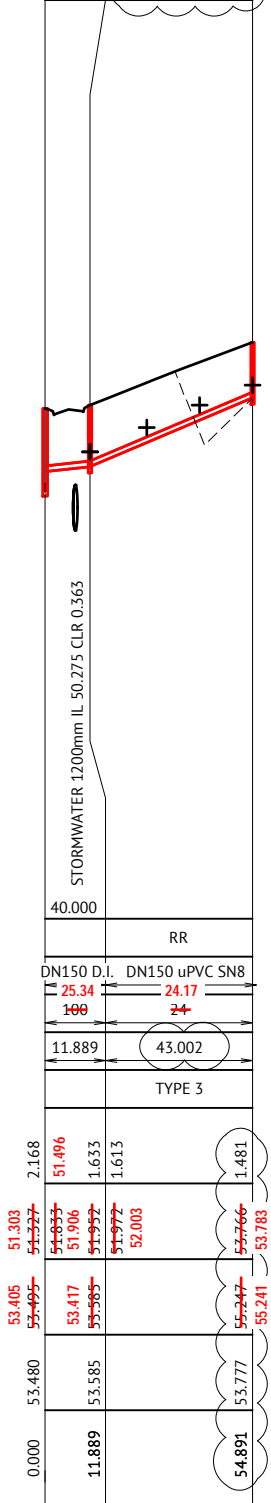
LINE 46

5/42	TE1/47
B	TE
A	TE
W	W
Y	
5347	42
	47



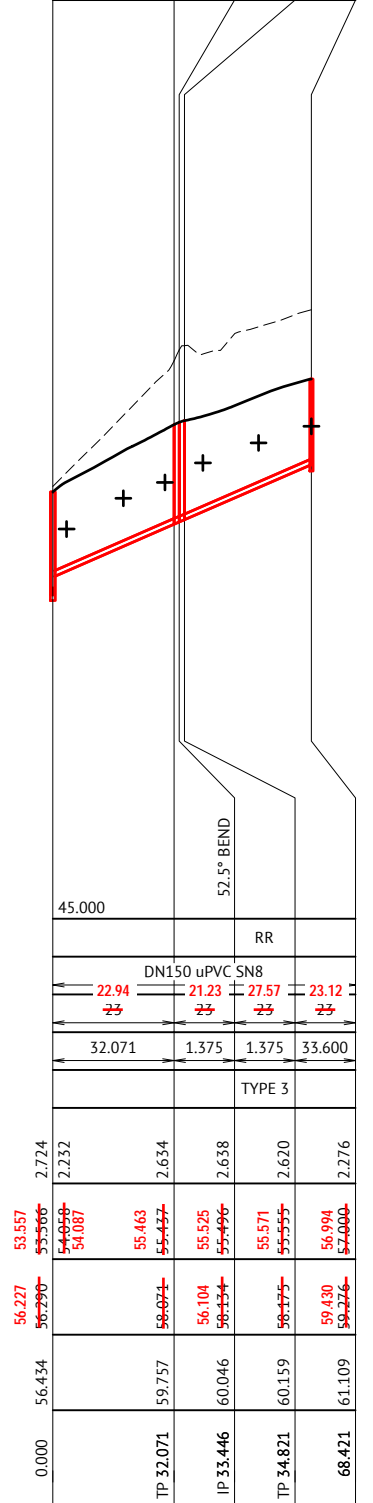
LINE 47

8/42	1/50	2/50
B	B	B
A	J	J
W	V	V
50	42	50
	1.233	
	52.289	
	52.255	
	2138	
	B	
	2139	
	2140	
	2141	
	2141	



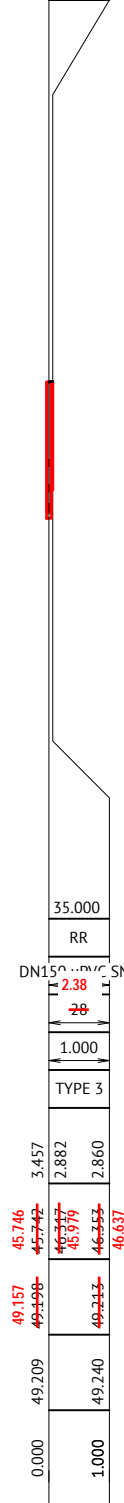
LINE 50

10/42	HB1/51	1/51
B	HTP	HB
A	HTP	HB
W		J
51	42	
	1.250	
	55.293	
	55.268	
	2144	
	B	
	2143	
	2142	
	3142	
	3141	
	3140	



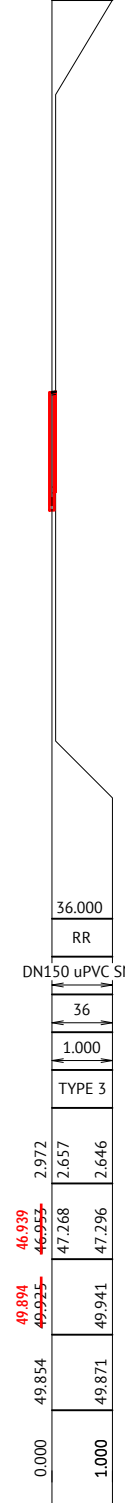
LINE 51

5/42	TE1/53
B	TE
A	TE
W	W
Y	
5347	42
	53



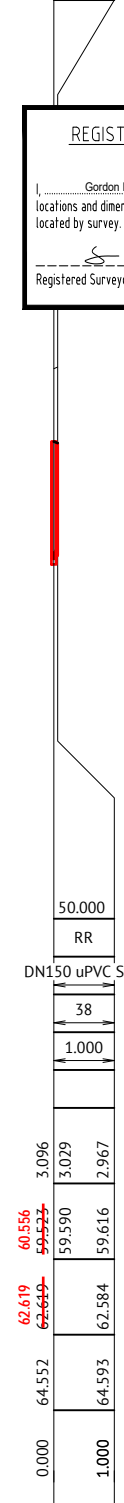
LINE 53

6/42	TE1/57
B	TE
A	TE
W	V
57	42
	57



LINE 57

2/44	TE1/63
B	TE
A	TE
V	V
63	44
	63



LINE 63

REGISTERED SURVEYOR'S CERTIFICATION
 I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.
 Registered Surveyor (sig) Reg. Surveyor No. SA 3405 Date 12/07/2021

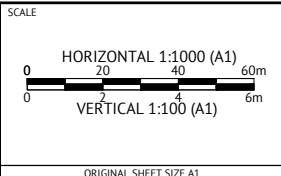
AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
12/07/2021	E	AS CONSTRUCTED	
03/02/2021	D	AMENDED SEWER LINE 50	KK PB
04/11/2020	C	ADDED SEWER LONG SECTION 63	KK PB
11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	KK PB
27/07/20	A	ORIGINAL ISSUE	AL PB
			REC APP



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CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LONG SECTIONS - SHEET 5
 JOB CODE
MIR012-01
 SHEET NUMBER
C524
 REV
E