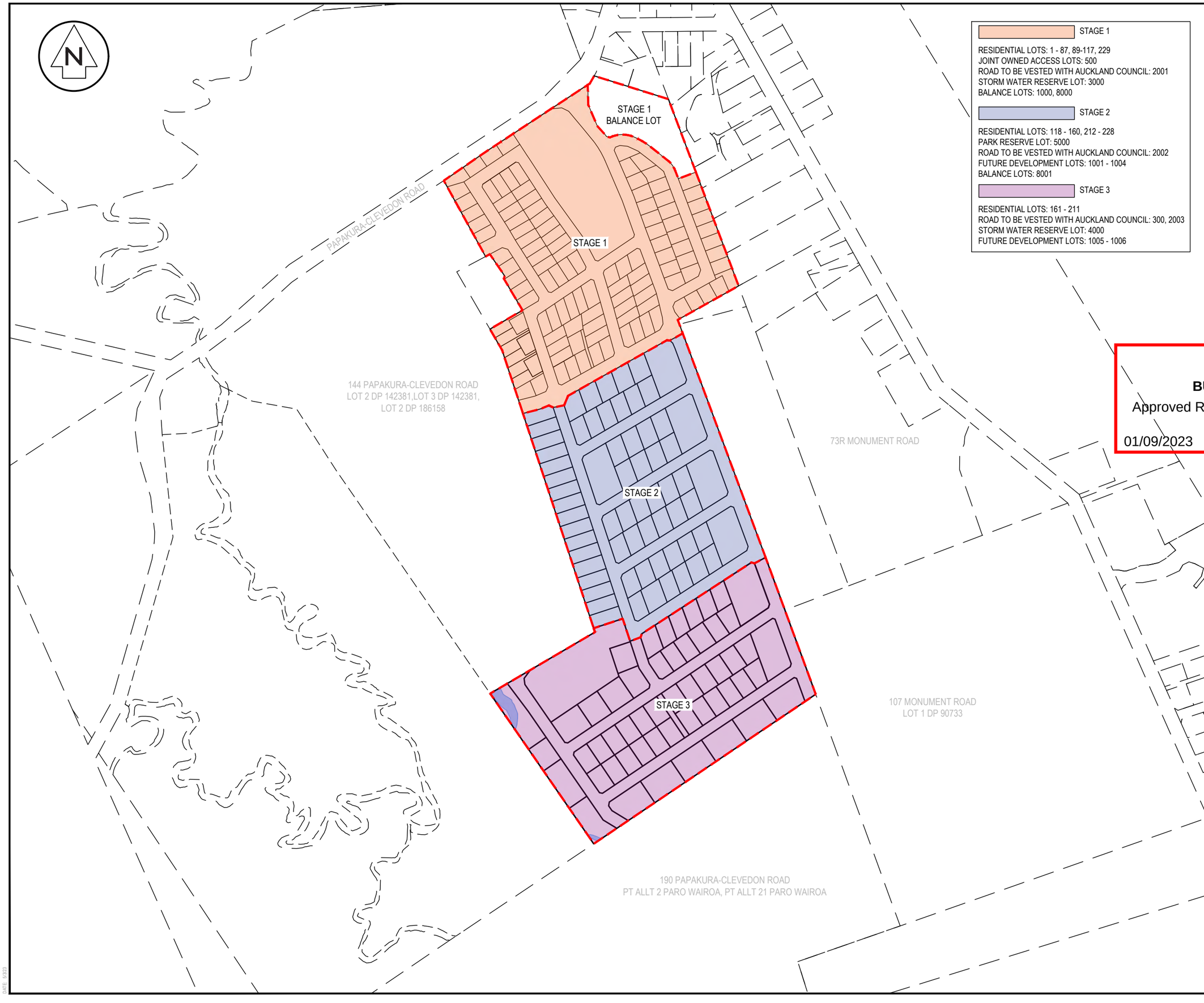

STAGE 1

RESIDENTIAL LOTS: 1 - 87, 89-117, 229
JOINT OWNED ACCESS LOTS: 500
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 2001
STORM WATER RESERVE LOT: 3000
BALANCE LOTS: 1000, 8000

STAGE 2

RESIDENTIAL LOTS: 118 - 160, 212 - 228
PARK RESERVE LOT: 5000
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 2002
FUTURE DEVELOPMENT LOTS: 1001 - 1004
BALANCE LOTS: 8001

STAGE 3

RESIDENTIAL LOTS: 161 - 211
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 300, 2003
STORM WATER RESERVE LOT: 4000
FUTURE DEVELOPMENT LOTS: 1005 - 1006

Notes

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Legend

- EX BDY
- PR BDY
- EASEMENT
- STAGING BOUNDARY

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Rev	Description	By	Date
I	S92 RFI	ML	05/2023
H	S92 RFI	ML	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	03/2023

	By	Date
Survey	-	-
Design	RK	03/22
Drawn	RK	03/22
Checked	MH	03/22

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Project

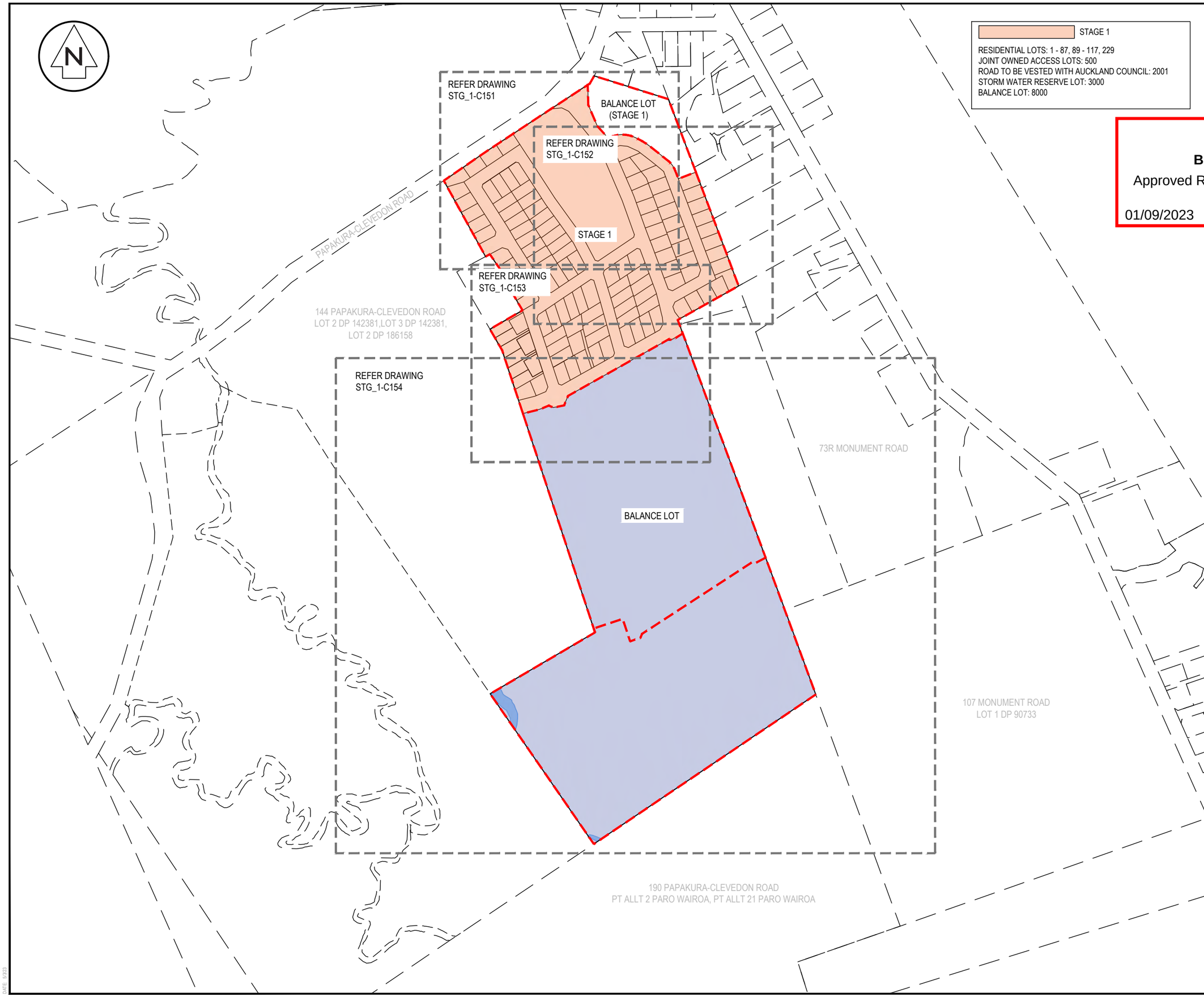
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED SCHEME PLAN STAGES 1 - 3 OVERVIEW

Project no.	194006		
Scale	1:5000@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	C150	Rev	I

DATE: 5/23



STAGE 1

RESIDENTIAL LOTS: 1 - 87, 89 - 117, 229
JOINT OWNED ACCESS LOTS: 500
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 2001
STORM WATER RESERVE LOT: 3000
BALANCE LOT: 8000

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 1 OVERVIEW

Project no.	194006		
Scale	1:5000@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	STG_1-C150	Rev	I

DATE 3/2023

BUN60399307

Approved Resource Consent Plan

01/09/2023

PAPAKURA-CLEVEDON ROAD

ROAD 2001
32816m²
VESTING ON DEPOSIT
FOR ROAD IN
AUCKLAND COUNCIL

LOT 1000
10608m²
(BALANCE LOT)

LOT 3000
18106m²
VESTING ON DEPOSIT FOR A
LOCAL (DRAINAGE) RESERVE
IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR
ROAD IN AUCKLAND COUNCIL

LOT 84 522m²
LOT 85 522m²
LOT 86 522m²
LOT 87 522m²
LOT 89 501m²
LOT 90 501m²
LOT 91 501m²
LOT 92 501m²
LOT 93 501m²
LOT 80 500m²
LOT 81 500m²
LOT 82 500m²
LOT 83 500m²
LOT 94 500m²
LOT 95 500m²
LOT 96 500m²
LOT 97 500m²
LOT 98 500m²
LOT 99 500m²
LOT 100 500m²
LOT 101 500m²
LOT 102 500m²
LOT 103
LOT 79 500m²
LOT 78 500m²
LOT 77 500m²
LOT 76 500m²
LOT 75 500m²
LOT 74 500m²
LOT 73 504m²
LOT 72 500m²
LOT 71 500m²
LOT 70
LOT 1 501m²
LOT 2 506m²
LOT 3 506m²
LOT 4 508m²
LOT 5 507m²
LOT 6 507m²
LOT 7 507m²
LOT 8 507m²
LOT 9 507m²
LOT 10
LOT 21 509m²
LOT 20 506m²
LOT 19 508m²
LOT 18 508m²
LOT 17 508m²
LOT 16 508m²
LOT 43 500m²
LOT 44 500m²

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

Notes
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Legend
- EX BDY
- PR BDY
- EASEMENT
- 8 x 15 SHAPE FACTOR

Rev	Description	By	Date
I	S92 RFI	ML	05/2023
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F	EPA RFI	ML	03/2023

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 1

Project no.	194006
Scale	1:1000@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_1-C151 Rev I

BUN60399307

Approved Resource Consent Plan

01/09/2023

LOT 3000
18106m²
VESTING ON DEPOSIT FOR A DRAINAGE RESERVE IN AUCKLAND COUNCIL

VESTING ON DEPOSIT FOR ROAD IN AUCKLAND COUNCIL

ROAD 2001
32816m²

LOT 1 501m² · LOT 2 506m² · LOT 3 506m² · LOT 4 508m² · LOT 5 507m² · LOT 6 507m² · LOT 7 507m² · LOT 8 507m² · LOT 9 507m² · LOT 10 507m² · LOT 11 507m² · LOT 12 508m² · LOT 13 508m² · LOT 14 508m² · LOT 15 508m² · LOT 16 508m² · LOT 17 508m² · LOT 18 508m² · LOT 19 508m² · LOT 20 506m² · LOT 21 509m² · LOT 22 504m² · LOT 23 504m² · LOT 24 500m² · LOT 25 500m² · LOT 26 500m² · LOT 27 500m² · LOT 28 500m² · LOT 29 500m² · LOT 30 517m² · LOT 31 501m² · LOT 32 501m² · LOT 33 501m² · LOT 34 501m² · LOT 35 500m² · LOT 39 500m² · LOT 40 500m² · LOT 41 500m² · LOT 42 500m² · LOT 43 500m² · LOT 44 500m² · LOT 45 500m² · LOT 46 500m² · LOT 47 500m² · LOT 48 500m² · LOT 49 502m² · LOT 54 555m² · LOT 62 500m² · LOT 63 500m² · LOT 64 500m² · LOT 65 500m² · LOT 66 500m² · LOT 67 711m² · LOT 68 500m² · LOT 69 500m² · LOT 70 500m² · LOT 71 500m² · LOT 72 500m² · LOT 73 504m² · LOT 74 500m² · LOT 75 500m² · LOT 76 500m² · LOT 77 00m² · LOT 100 500m² · LOT 101 500m²

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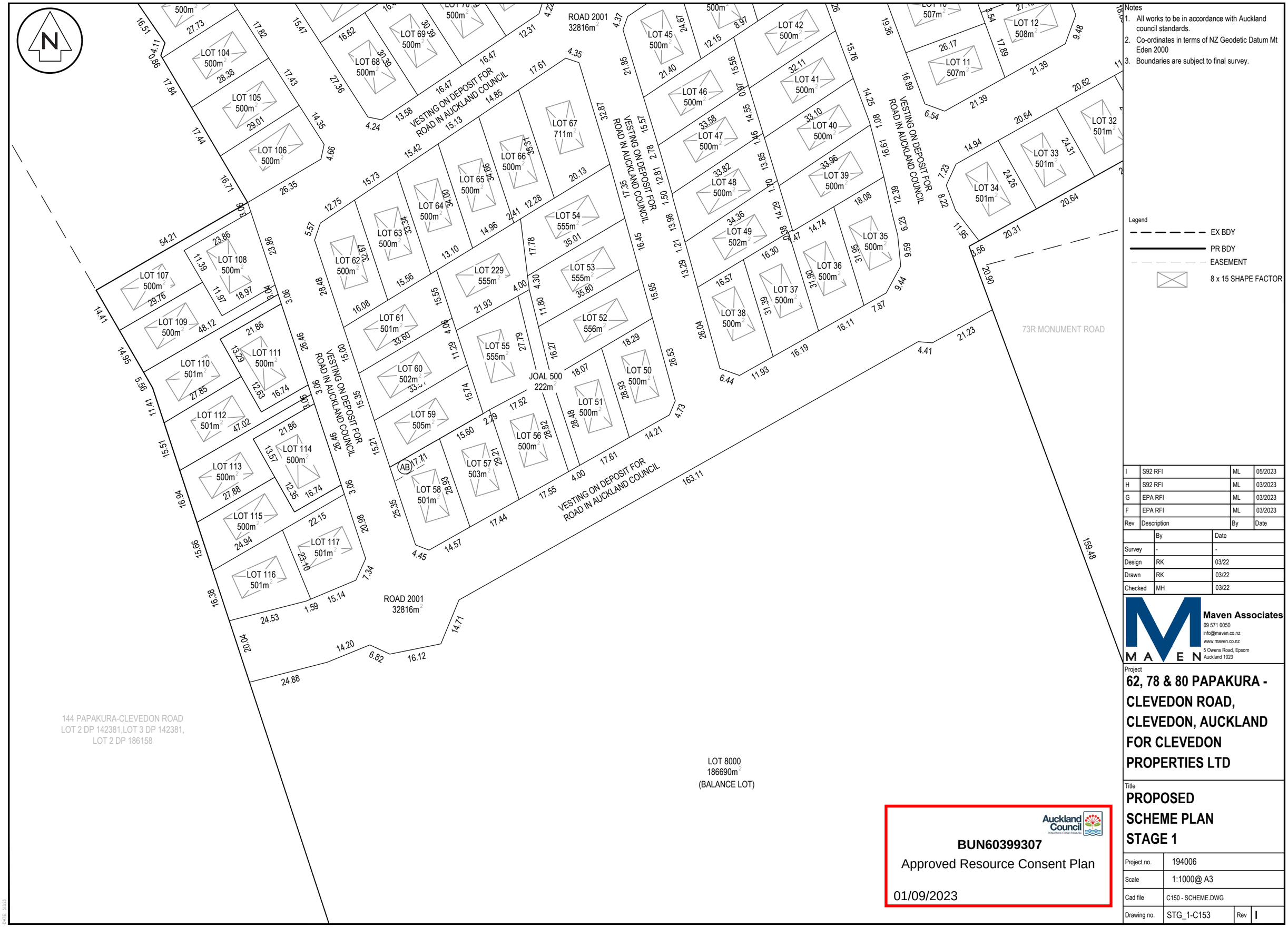
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 1

Project no.	194006
Scale	1:1000@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_1-C152 Rev I

DATE: 5/22



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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED SCHEME PLAN STAGE 1

Project no.	194006
Scale	1:1000@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_1-C153 Rev I

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

DATE 05/23

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Project

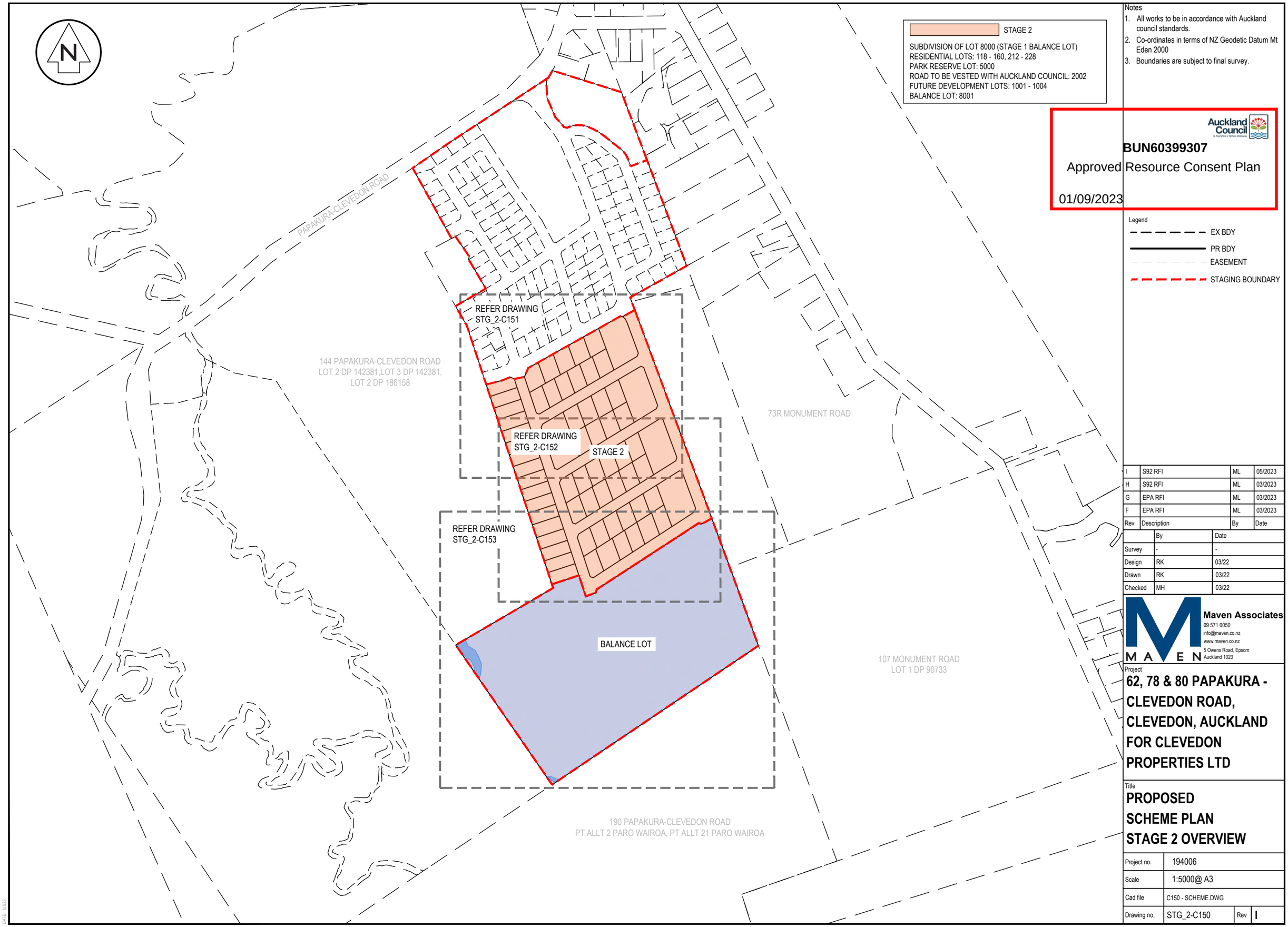
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED SCHEME PLAN STAGE 1

Project no.	194006
Scale	1:2500@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_1-C154 Rev I

DATE 03/23



STAGE 2

SUBDIVISION OF LOT 8000 (STAGE 1 BALANCE LOT)
RESIDENTIAL LOTS: 118 - 160, 212 - 228
PARK RESERVE LOT: 5000
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 2002
FUTURE DEVELOPMENT LOTS: 1001 - 1004
BALANCE LOT: 8001

Notes
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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 2 OVERVIEW

Project no.	194006		
Scale	1:5000@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	STG_2-C150	Rev	I

DATE 03/23

N

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Legend
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- 8 x 15 SHAPE FACTOR

73R MONUMENT ROAD

VESTING ON DEPOSIT FOR ROAD IN AUCKLAND COUNCIL

LOT 1001 3000m²
LOT 1002 3017m²
LOT 1003 3002m²
LOT 5000 3000m² PARK (LAND IN LIEU OF RESERVE)
ROAD 2002 24452m²

LOT 118 903m²
LOT 119 899m²
LOT 120 899m²
LOT 121 899m²
LOT 122 899m²
LOT 123 865m²
LOT 124 800m²
LOT 125 800m²
LOT 126 800m²
LOT 127 800m²
LOT 128 806m²
LOT 129 897m²
LOT 130 897m²
LOT 131 897m²
LOT 132 897m²
LOT 133 829m²
LOT 134 841m²
LOT 135 875m²
LOT 136 875m²
LOT 139 840m²
LOT 140 840m²
LOT 141 840m²
LOT 142 837m²
LOT 143 854m²
LOT 144
LOT 221 836m²
LOT 222 836m²
LOT 223 836m²
LOT 224 836m²
LOT 225 836m²
LOT 226 836m²
LOT 227 836m²
LOT 228 800m²

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

Auckland Council

BUN60399307

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Title
PROPOSED SCHEME PLAN STAGE 2

Project no.	194006
Scale	1:1000@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_2-C151 Rev I

DATE: 5/2023

N

LOT 225 836m²
LOT 224 836m²
LOT 223 836m²
LOT 222 836m²
LOT 221 836m²
LOT 220 836m²
LOT 219 836m²
LOT 218 836m²
LOT 217 836m²
LOT 216 914m²
LOT 215 836m²
LOT 214 836m²
LOT 213 836m²
LOT 212 836m²
43.98
19.01
20.79

LOT 5000
3000m²
PARK
(LAND IN LIEU OF RESERVE)

LOT 129 897m²
LOT 134 841m²
LOT 135 875m²
LOT 136 875m²
LOT 137 840m²
LOT 138 840m²
LOT 139 840m²
LOT 140 840m²
LOT 141 840m²
LOT 142 837m²
LOT 143 854m²
LOT 144 852m²
LOT 145 831m²
LOT 146 831m²
LOT 147 844m²
LOT 148 833m²
LOT 149 800m²
LOT 150 800m²
LOT 151 800m²
LOT 152 800m²
LOT 153 800m²
LOT 154 800m²
LOT 155 800m²
LOT 156 949m²
LOT 157 800m²
LOT 158 800m²
LOT 159 1081m²
LOT 160 800m²

LOT 1003
3002m²

LOT 1004
3000m²

ROAD 2002
24452m²

LOT 8001
96447m²
(BALANCE LOT)

VESTING ON DEPOSIT FOR ROAD IN AUCKLAND COUNCIL

73R MONUMENT ROAD

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

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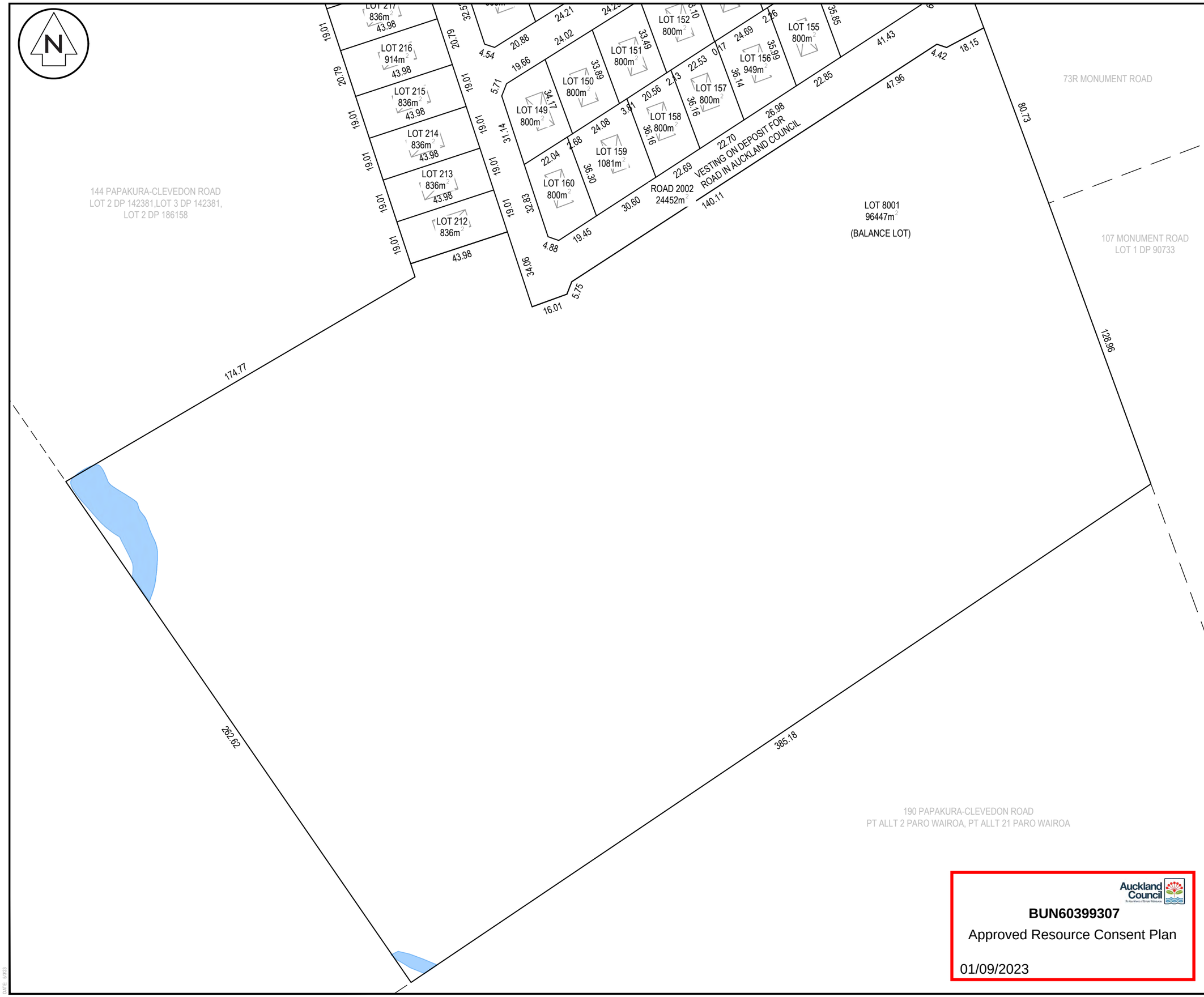
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 2

Project no.	194006		
Scale	1:1000@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	STG_2-C152	Rev	I

DATE 05/23



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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED SCHEME PLAN STAGE 2

Project no.	194006		
Scale	1:1500@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	STG_2-C153	Rev	I

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

DATE: 03/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

PAPAKURA-CLEVEDON ROAD

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

73R MONUMENT ROAD

107 MONUMENT ROAD
LOT 1 DP 90733

190 PAPAKURA-CLEVEDON ROAD
PT ALLT 2 PARO WAIROA, PT ALLT 21 PARO WAIROA

REFER DRAWING
STG_3-C151

REFER DRAWING
STG_3-C152

STAGE 3

STAGE 3

SUBDIVISION OF LOT 8001 (STAGE 2 BALANCE LOT)
RESIDENTIAL LOTS: 161 - 211
ROAD TO BE VESTED WITH AUCKLAND COUNCIL: 300, 2003
STORM WATER RESERVE LOT: 4000
FUTURE DEVELOPMENT LOTS: 1005 - 1006

Notes
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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 3 OVERVIEW

Project no.	194006		
Scale	1:5000@ A3		
Cad file	C150 - SCHEME.DWG		
Drawing no.	STG_3-C150	Rev	I

DATE: 5/23

N

73R MONUMENT ROAD

107 MONUMENT ROAD
LOT 1 DP 90733

190 PAPAKURA-CLEVEDON ROAD
PT ALLT 2 PARO WAIROA, PT ALLT 21 PARO WAIROA

LOT 1005
3500m²

LOT 1006
3001m²

LOT 161
936m²

LOT 162
800m²

LOT 163
800m²

LOT 164
800m²

LOT 165
800m²

LOT 166
800m²

LOT 167
819m²

LOT 168
823m²

LOT 169
998m²

LOT 170
820m²

LOT 171
820m²

LOT 172
820m²

LOT 195
896m²

LOT 196
890m²

LOT 197
890m²

LOT 198
895m²

LOT 199
895m²

LOT 200
895m²

LOT 194
844m²

LOT 193
844m²

LOT 192
844m²

LOT 191
856m²

LOT 190
856m²

LOT 189
856m²

LOT 188
874m²

LOT 187
874m²

LOT 186
874m²

LOT 211
1150m²

LOT 210
1183m²

LOT 209
1450m²

LOT 208
1321m²

LOT 207
1321m²

LOT 206
1321m²

LOT 205
874m²

LOT 204
874m²

LOT 203
874m²

LOT 202
874m²

LOT 201
874m²

LOT 300
575m²

LOT 175
1980m²

LOT 174
1980m²

LOT 173
1977m²

ROAD 2003
20728m²

VESTING ON DEPOSIT FOR ROAD IN AUCKLAND COUNCIL

ACCESSWAY TO VEST IN AUCKLAND COUNCIL

PLANTING PROTECTION COVENANT AREA

Z Y X J AD

43.98 6.00 34.06 16.01 5.75 22.47 23.01 23.42 23.75 23.83 23.63 62.58 5.57 209.68 68.17 4.73 3.70 38.82 47.91 19.13 3.54 25.84 23.05 27.80 24.84 24.79 22.91 25.05 22.96 25.76 19.89 5.00 25.11 25.15 5.02 8.00 24.34 37.88 38.29 26.68 34.50 38.29 24.34 37.88 24.34 24.34 34.50 24.34 42.28 24.34 1.66 35.94 24.01 0.26 24.08 0.20 24.15 0.13 24.21 24.28 24.28 53.06 23.55 23.59 53.06 23.64 23.34 23.38 18.96 54.72 18.54 35.46 37.32 48.46 53.06 37.32 53.06 37.32 53.06 31.07 37.93 31.08 4.25 28.01 6.27 34.71 34.53 34.32 35.76 23.71 8.75 20.03 1.71 35.45 20.83 6.97 35.97 16.57 6.34 35.85 16.95 6.01 35.76 21.55 35.67 35.79 35.27 34.78 35.72 35.64 35.57 35.94 1.60 21.99 36.20 36.27 36.34 36.04 36.13 36.06 17.34 6.04 18.80 4.54 20.51 5.12 35.87 35.94 20.44 7.45 37.09 37.07 35.79 35.72 35.64 35.94 36.04 36.27 36.34 36.04 36.13 36.06 35.94 35.87 35.79 35.72 35.64 35.57

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

LOT 4000
10820m²
VESTING ON DEPOSIT FOR A LOCAL (DRAINAGE) RESERVE IN AUCKLAND COUNCIL

PLANTING PROTECTION COVENANT AREA

ROAD 2003
20728m²

LOT 182
2900m²

LOT 181
1150m²

LOT 180
2000m²

LOT 179
2000m²

LOT 178
2000m²

LOT 177
1980m²

LOT 176
1980m²

LOT 211
1150m²

LOT 210
1183m²

LOT 209
1450m²

LOT 208
1321m²

LOT 207
1737m²

LOT 205
874m²

LOT 206
874m²

LOT 204
874m²

LOT 203
874m²

LOT 202
874m²

LOT 201
874m²

LOT 200
895m²

LOT 199
895m²

LOT 198
895m²

LOT 197
890m²

LOT 172
820m²

LOT 171
820m²

LOT 300
575m²

LOT 191
856m²

LOT 190
856m²

LOT 189
856m²

LOT 188
874m²

LOT 187
874m²

LOT 186
874m²

LOT 185
874m²

LOT 184
874m²

LOT 183
874m²

VESTING ON DEPOSIT FOR ROAD IN AUCKLAND COUNCIL

ACCESSWAY TO VEST IN AUCKLAND COUNCIL

Notes
1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000
3. Boundaries are subject to final survey.

Legend
- EX BDY
- PR BDY
- EASEMENT
- 8 x 15 SHAPE FACTOR

Rev	Description	By	Date
I	S92 RFI	ML	05/2023
H	S92 RFI	ML	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	03/2023

	By	Date
Survey	-	-
Design	RK	03/22
Drawn	RK	03/22
Checked	MH	03/22

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Auckland 1023

Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGE 3

Project no.	194006
Scale	1:1000@ A3
Cad file	C150 - SCHEME.DWG
Drawing no.	STG_3-C152 Rev I

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

190 PAPAKURA-CLEVEDON ROAD
PT ALLT 2 PARO WAIROA, PT ALLT 21 PARO WAIROA

DATE 6/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes
1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000
3. Boundaries are subject to final survey.

MEMORANDUM OF EASEMENTS IN GROSS

PURPOSE	SHOWN	BURDENED LAND	BENEFITED LAND
DRAINAGE	A	LOT 31	AUCKLAND COUNCIL
	B	LOT 30	
	C	LOT 29	
	D	LOT 23	
	E	LOT 22	
	J	LOT 209	
	K	LOT 179	
	L	LOT 182	
RIGHT OF WAY (PEDESTRIAN ONLY)	F	LOT 179	AUCKLAND COUNCIL
	G	LOT 180	
	H	LOT 181	
	I	LOT 182	

PROPOSED COVENANT AREA

SHOWN	BURDENED LAND	AREA (m²)
X	LOT 209	85
Y	LOT 210	90
Z	LOT 211	164

SCHEDULE OF EASEMENTS IN GROSS

PURPOSE	SHOWN	BURDENED LAND	GRANTEE
RIGHT TO CONVEY ELECTRICITY	AA	LOT 3000 HEREON	VECTOR LIMITED
	AB	LOT 58 HEREON	
	AC	LOT 137 HEREON	
	AD	LOT 200 HEREON	

AMALGAMATION CONDITIONS

1. THAT LOT 500 HEREON (LEGAL ACCESS) BE HELD AS TO TWO UNDIVIDED ONE-SECOND SHARES BY THE OWNERS OF LOTS 55 AND 229 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.

Rev	Description	By	Date
I	S92 RFI	ML	05/2023
H	S92 RFI	ML	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	03/2023

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED SCHEME PLAN STAGES 1 - 3

Project no.	194006
Scale	N/A
Cad file	C150 - SCHEME.DWG
Drawing no.	C152
Rev	I

DATE 5/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

REFER DRAWING C301

PROPOSED INDICATIVE ROAD.TO BE DESIGNED AT FUTURE STAGE

REFER DRAWING C302

REFER DRAWING C302A

REFER DRAWING C302C

REFER DRAWING C302B

PAPAKURA-CLEVEDON ROAD

107 MONUMENT ROAD
LOT 1 DP 90733

190 PAPAKURA-CLEVEDON ROAD, PT ALLT 2 PARO WAIROA, PT ALLT 21 PARO WAIROA

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

STAGE 1
STAGE 2
STAGE 3
STAGE 4

10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Notes

1. All works to be in accordance with Auckland Council standards.
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6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR ROAD SIGN
	PR TACTILE PAVERS
	PR SPEED HUMP / CUSHION
	PR STREET LIGHT
	PR BERM
	POND MAINTENANCE TRACK (GAP65)
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD
	PR SWALE
	PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Auckland 1023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING OVERVIEW PLAN

Project no.	194006		
Scale	1:5000@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C300	Rev	H

RESOURCE CONSENT

DATE 4/7/23

10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
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Notes

1. All works to be in accordance with Auckland Council standards.
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6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.

Line Marking

	EX BDY
	PROP BDY
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR ROAD SIGN
	PR TACTILE PAVERS
	PR SPEED HUMP / CUSHION
	PR STREET LIGHT
	PR BERM
	POND MAINTENANCE TRACK (GAP65)
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD
	PR SWALE
	PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING PLAN

Project no.	194006		
Scale	1:2000@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C301	Rev	H

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE: 4/7/23

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Line Marking

	EX BDY
	PROP BDY
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR ROAD SIGN
	PR TACTILE PAVERS
	PR SPEED HUMP / CUSHION
	PR STREET LIGHT
	PR BERM
	POND MAINTENANCE TRACK (GAP65)
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD
	PR SWALE
	PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Checked	WM	12/2021

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Project

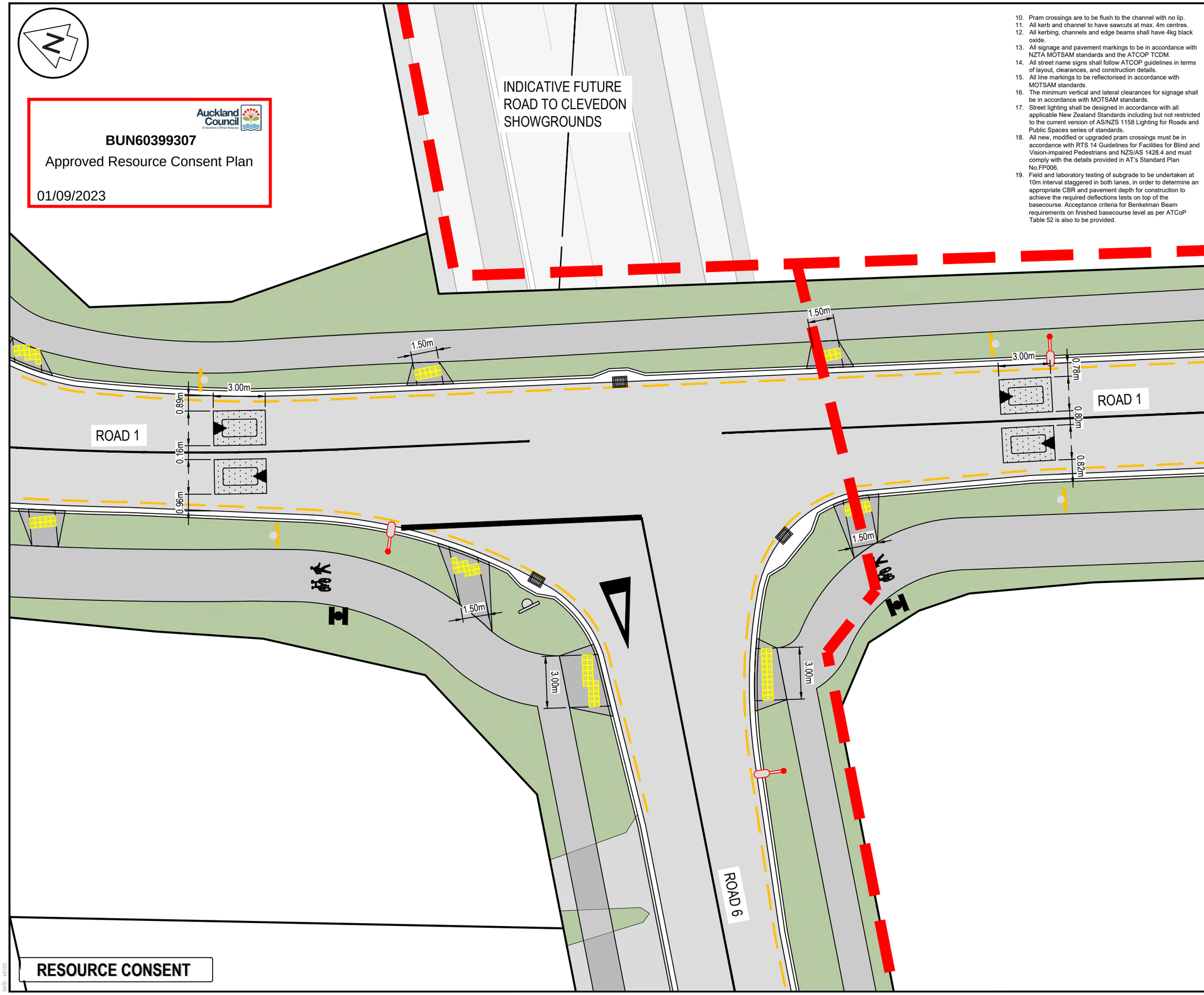
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING PLAN

Project no.	194006		
Scale	1:2000@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C302	Rev	H

DATE 4/01/23



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Line Marking

- EX BDY
- PROP BDY
- CENTER LINE 1- WC100R (30m)
- CENTER LINE 2- WC100R
- NO STOPPING LINE- YI100R1x1
- LIMIT LINE- WC300R

Legend

- AC — AC PAVING
- K&C — KERB AND CHANNEL
- PR ROAD SIGN
- PR TACTILE PAVERS
- PR SPEED HUMP / CUSHION
- PR STREET LIGHT
- PR BERM
- POND MAINTENANCE TRACK (GAP65)
- PR CONCRETE FOOTPATH (BRUSHED CONC)
- PR ASPHALT ROAD
- PR SWALE
- PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD 1 / ROAD 6 INTERSECTION PLAN

Project no.	194006		
Scale	1:200@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C302A	Rev	H

RESOURCE CONSENT

DATE: 04/7/23

BUN60399307

Approved Resource Consent Plan

01/09/2023

10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
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ROAD 6

ROAD 4

ROAD 6A

MOUNTABLE APRON

CENTRAL ISLAND

REFER TO TDM IS0007 FOR KERB PROFILES FOR OVER-RUN APRONS AND CENTRE ISLAND KERB PROFILE

0.80m
2.00m
3.00m
2.00m
0.80m
0.82m
2.50m
2.50m
2.50m
0.60m
3.70m
2.40m
2.40m
0.60m
2.50m
R3.00m
R6.00m
2.50m
R10.80m
0.71m
3.70m
2.40m
2.40m
0.61m
2.50m
2.50m
2.50m
0.80m
1.21m
2.00m
2.00m
1.22m
3.00m

RESOURCE CONSENT

DATE: 4/07/23

Notes

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Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR ROAD SIGN
	PR TACTILE PAVERS
	PR SPEED HUMP / CUSHION
	PR STREET LIGHT
	PR BERM
	POND MAINTENANCE TRACK (GAP65)
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD
	PR SWALE
	PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
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F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

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Checked	WM	12/2021

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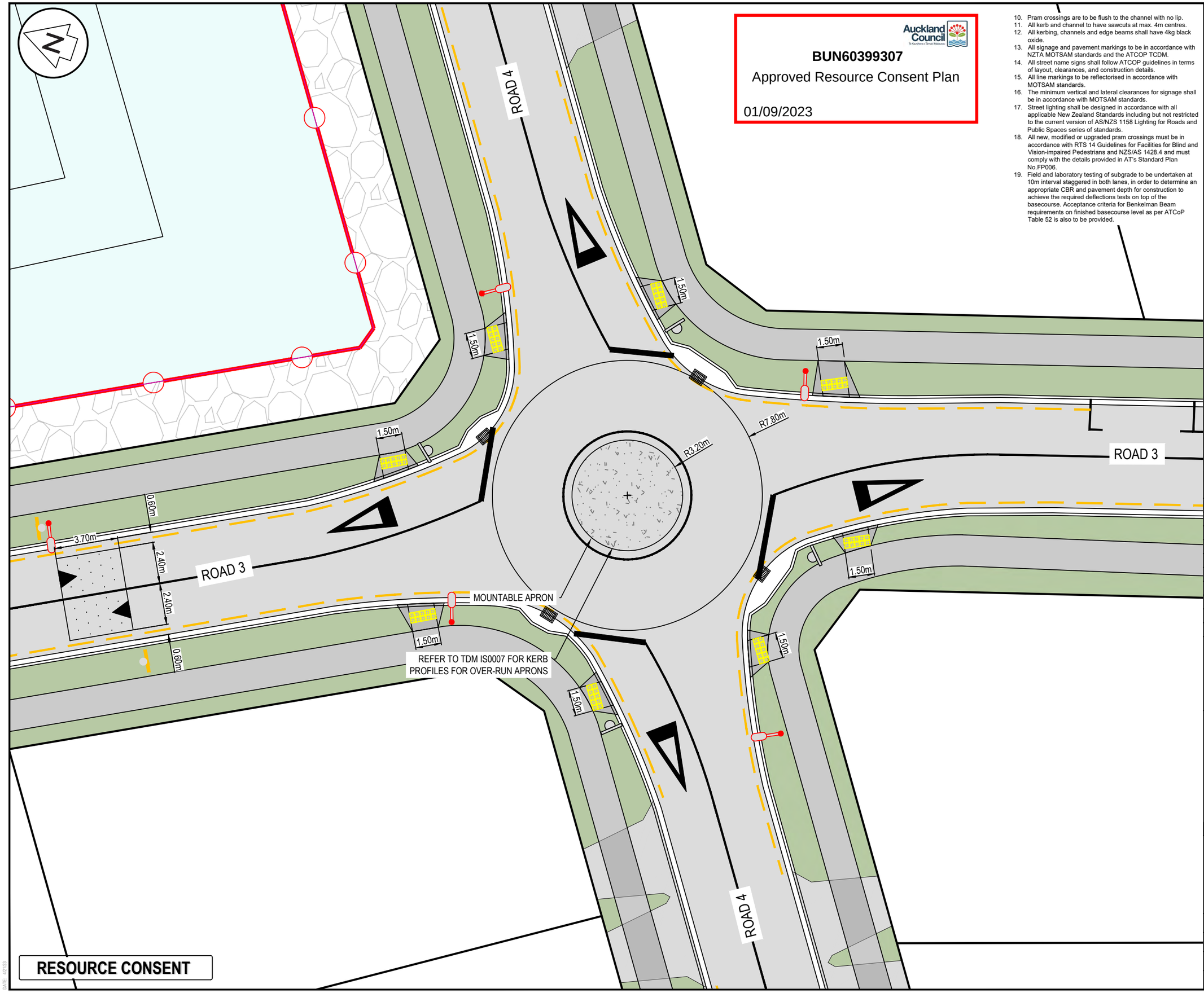
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING ROUNDABOUT PLAN

Project no.	194006		
Scale	1:200@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C302B	Rev	H



BUN60399307

Approved Resource Consent Plan

01/09/2023

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11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Notes

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8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.

Line Marking

	EX BDY
	PROP BDY
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR ROAD SIGN
	PR TACTILE PAVERS
	PR SPEED HUMP / CUSHION
	PR STREET LIGHT
	PR BERM
	POND MAINTENANCE TRACK (GAP65)
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD
	PR SWALE
	PR BRIDLE PATH

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Auckland 1023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING ROUNDABOUT PLAN

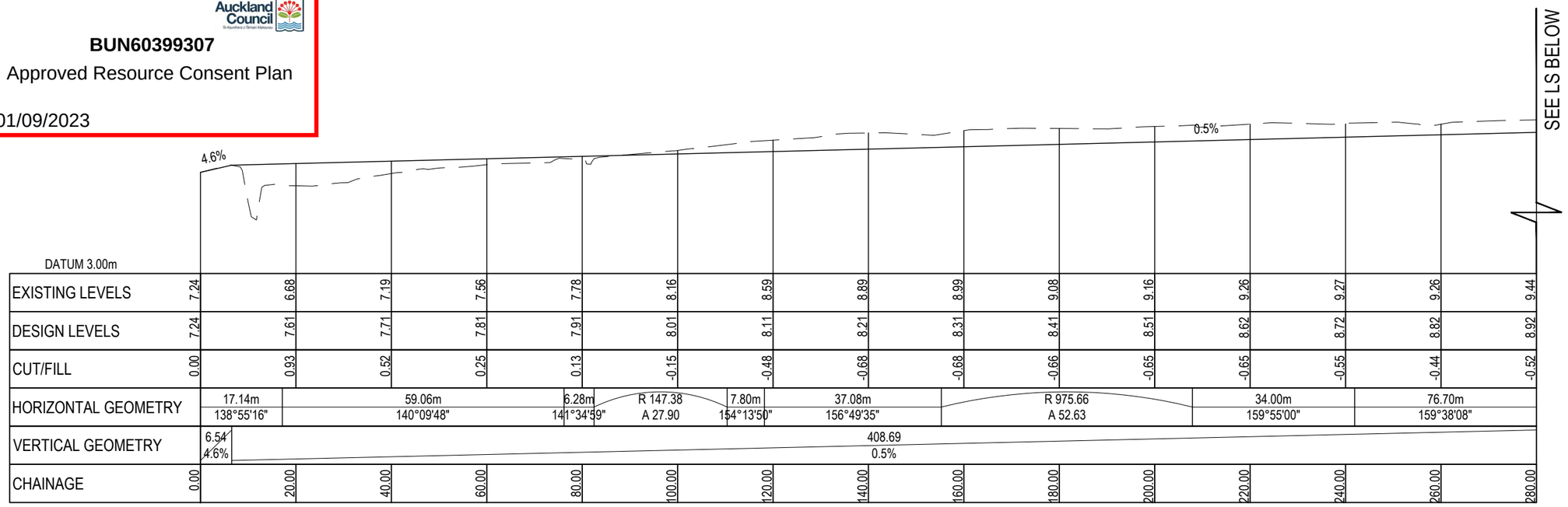
Project no.	194006		
Scale	1:200@ A3		
Cad file	C300- ROADING.DWG		
Drawing no.	C302C	Rev	H

DATE: 4/21/23

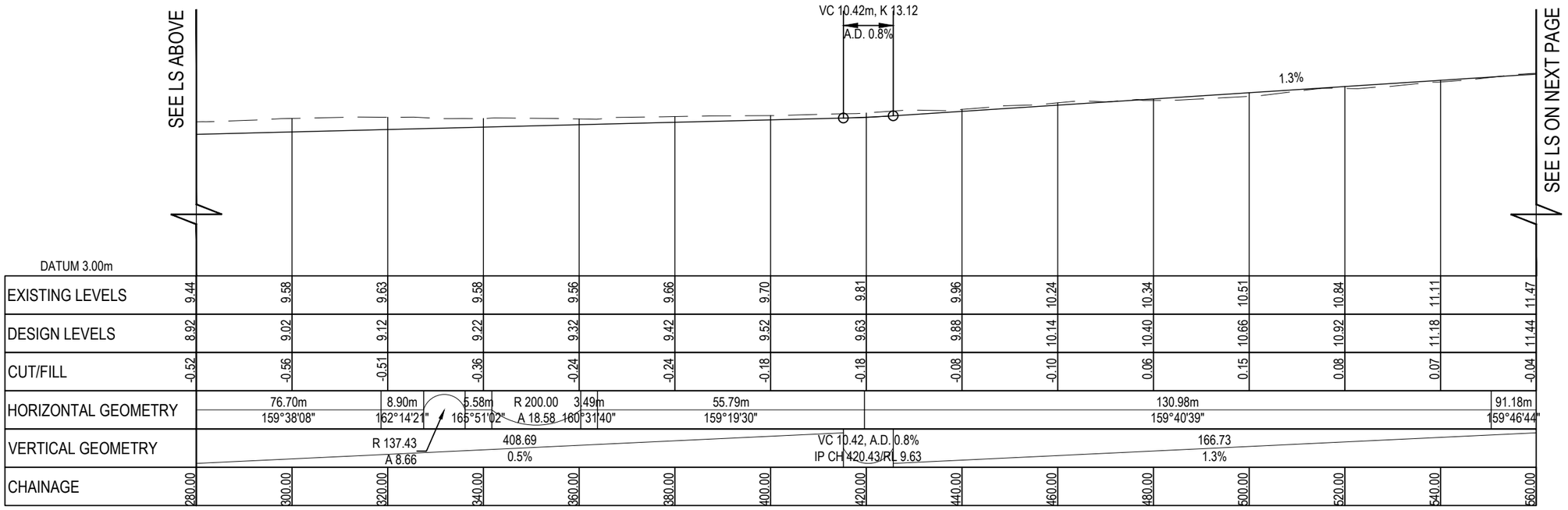
BUN60399307

Approved Resource Consent Plan

01/09/2023



ROAD 1 (1 OF 4)
SCALE: HORI 1:1000 VERT 1:200



ROAD 1 (2 OF 4)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2/23

Notes

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Legend

EX GL

PROP FL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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5 Owens Road, Epsom
Auckland 1023

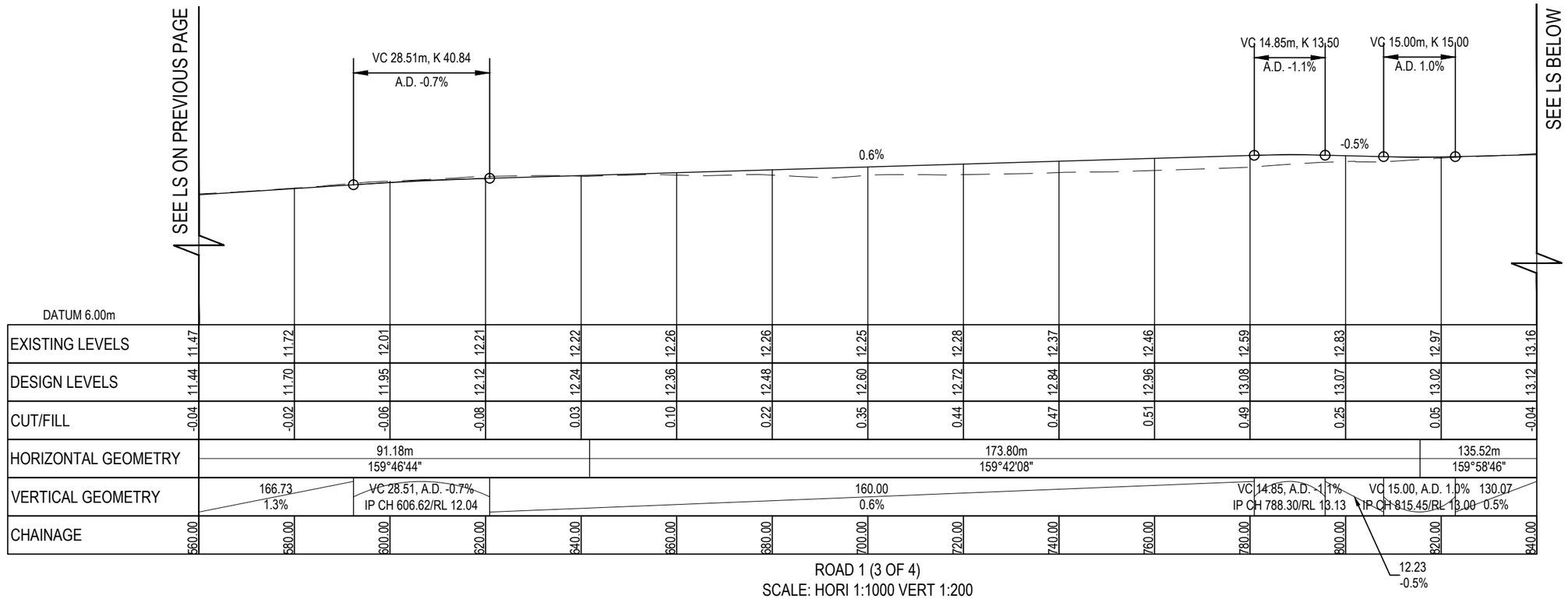
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

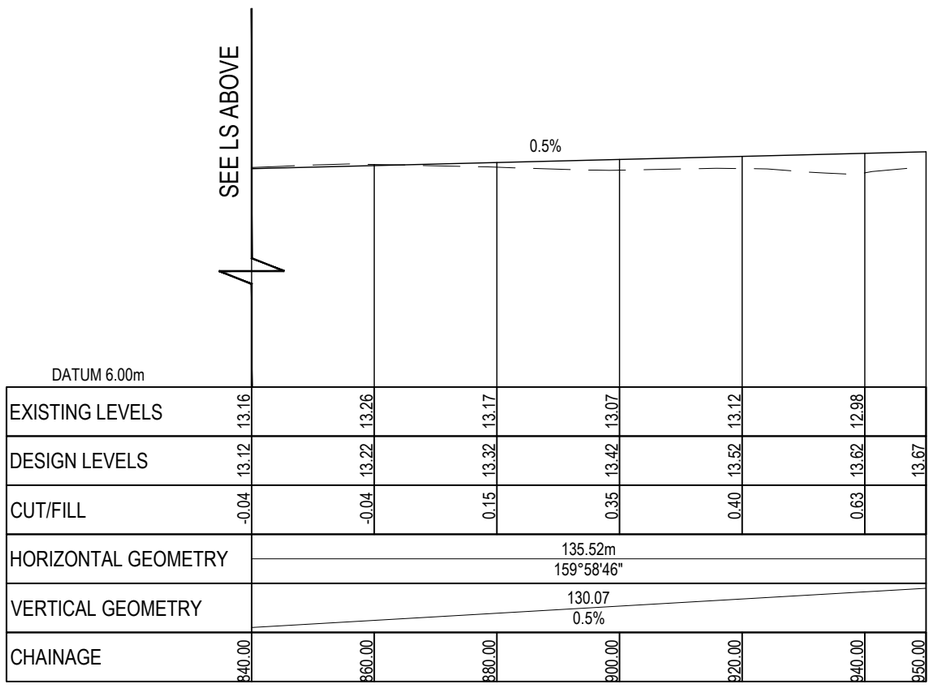
Title

PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C310	Rev	H



ROAD 1 (3 OF 4)
SCALE: HORI 1:1000 VERT 1:200



ROAD 1 (4 OF 4)
SCALE: HORI 1:1000 VERT 1:200

Notes

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Legend

EX GL
PROP FL

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/12/23

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Auckland 1023

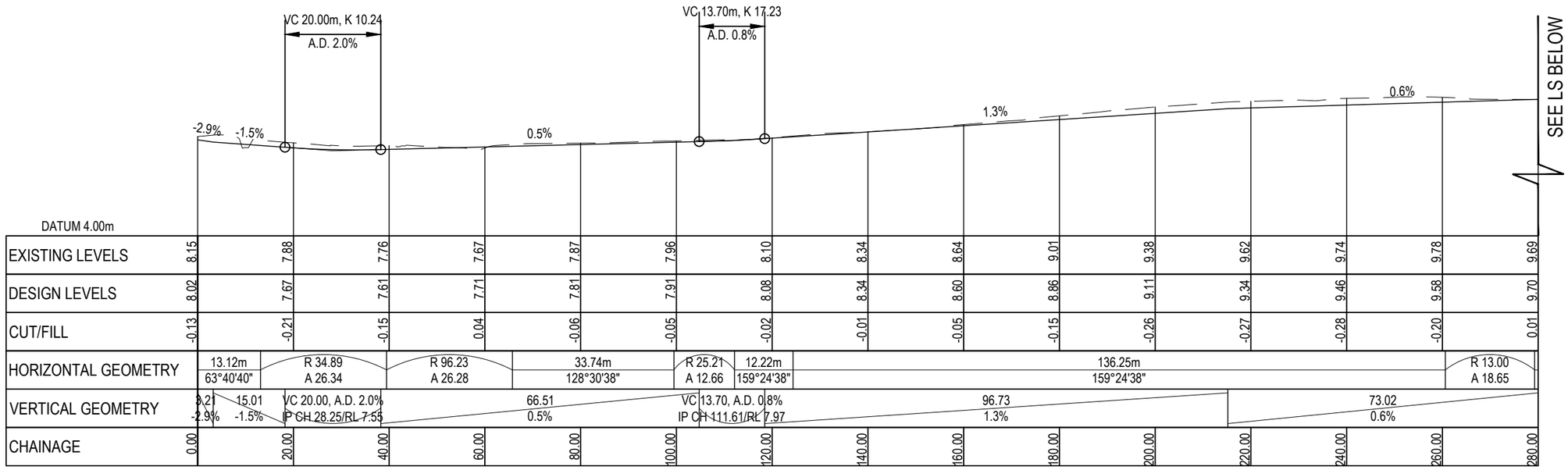
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

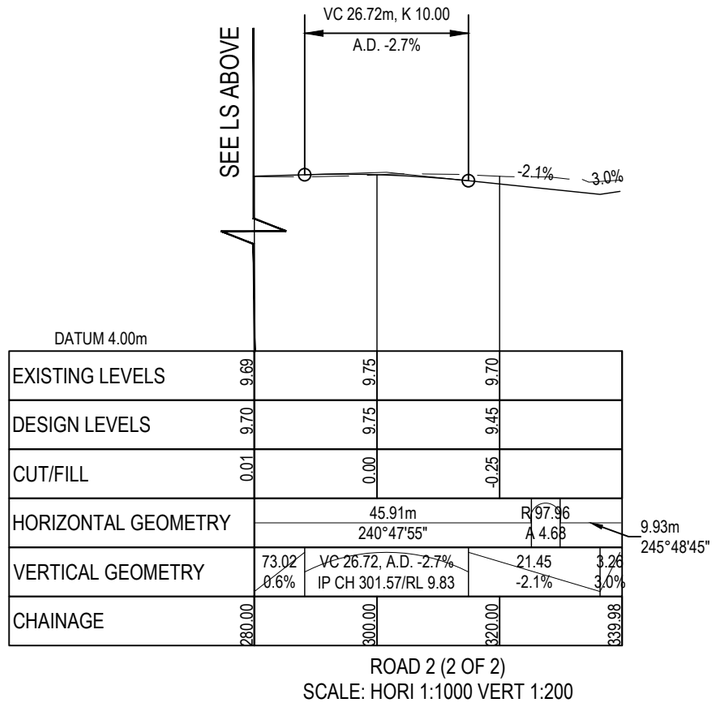
Title

PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C311	Rev	H



ROAD 2 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200



ROAD 2 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200

Notes

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Legend

EX GL
PROP FL

Auckland Council

BUN60399307

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01/09/2023

RESOURCE CONSENT

DATE 4/12/23

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	RK	12/2021
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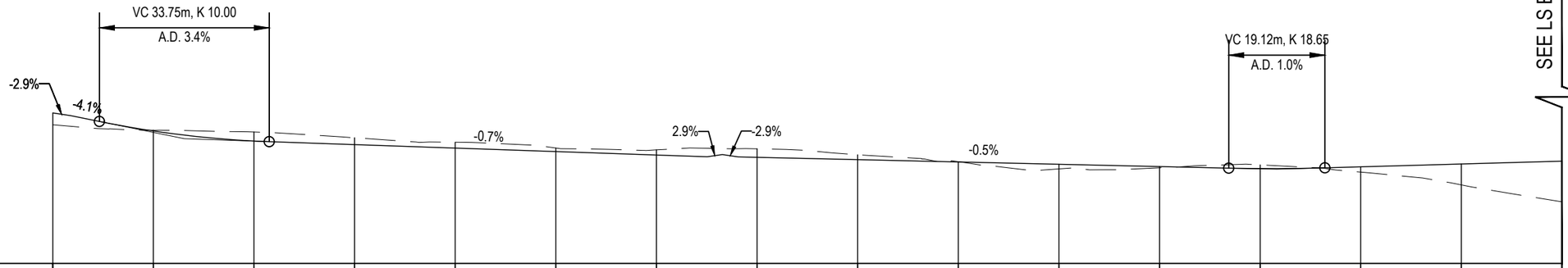
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

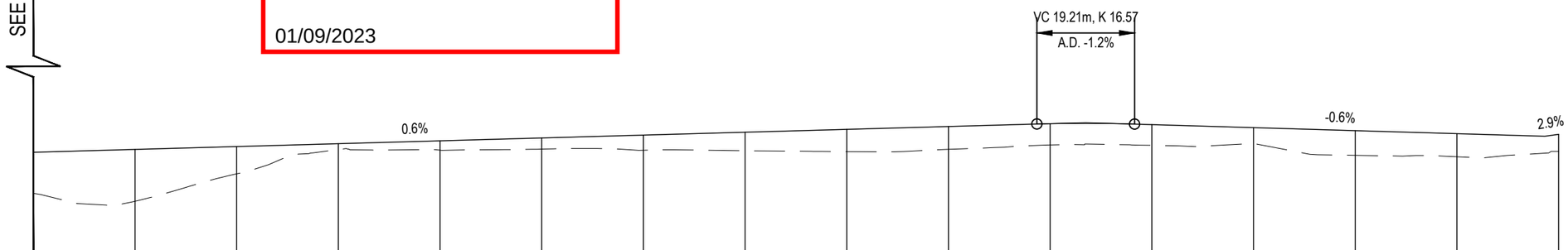
PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C312	Rev	H



DATUM 4.00m																
EXISTING LEVELS	9.52	9.30	9.23	9.00	8.82	8.59	8.52	8.56	8.32	8.05	7.76	7.80	7.92	7.63	7.12	6.45
DESIGN LEVELS	9.98	9.27	8.87	8.73	8.59	8.45	8.31	8.22	8.13	8.04	7.95	7.85	7.77	7.84	7.95	8.07
CUT/FILL	0.47	-0.03	-0.36	-0.27	-0.23	-0.14	-0.20	-0.34	-0.19	-0.01	0.19	0.05	-0.15	0.21	0.83	1.62
HORIZONTAL GEOMETRY		43.82m 344°33'32"		40.93m 344°33'41"		24.64m 343°05'31"	R 96.82 A 21.04	21.33m 330°38'22"		28.37m 332°10'20"	R 41.42 A 5.76		65.64m 324°12'19"			47.74m 327°00'52"
VERTICAL GEOMETRY	8.55 -2.9%	VC 33.75, A.D. 3.4% IP CH 26.16/RL 8.96		87.07 -0.7%				3.01 2.9%	3.11 -2.9%		97.54 -0.5%		VC 19.12, A.D. 1.0% IP CH 243.31/RL 7.75		244.53 0.6%	
CHAINAGE	0.00	5.73 -4.1% 20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00	300.00

ROAD 3 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200



DATUM 4.00m																
EXISTING LEVELS	6.45	6.14	7.22	8.18	8.15	8.19	8.15	8.13	8.09	8.18	8.36	8.34	8.41	7.95	7.89	8.10
DESIGN LEVELS	8.07	8.18	8.29	8.41	8.52	8.63	8.74	8.86	8.97	9.08	9.19	9.16	9.04	8.92	8.80	8.78
CUT/FILL	1.62	2.04	1.07	0.23	0.37	0.44	0.60	0.73	0.88	0.90	0.84	0.82	0.63	0.97	0.91	0.67
HORIZONTAL GEOMETRY	14.96m 327°00'57"	R 15.68 A 26.06		44.68m 236°08'46"		4.22m 235°07'28"	R 14.99 A 22.66	18.61m 147°19'57"		39.20m 147°16'25"		17.11m 149°07'41"	16.96m 149°22'28"	94.25m 147°19'39"		
VERTICAL GEOMETRY		2.30m 331°19'54"		244.53 0.6%							VC 19.21, A.D. -1.2% IP CH 507.00/RL 9.24		80.69 -0.6%		3.00 2.9%	
CHAINAGE	300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00	520.00	540.00	560.00	580.00	600.00

ROAD 3 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/12/23

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
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Legend

EX GL
PROP FL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
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Checked	WM	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

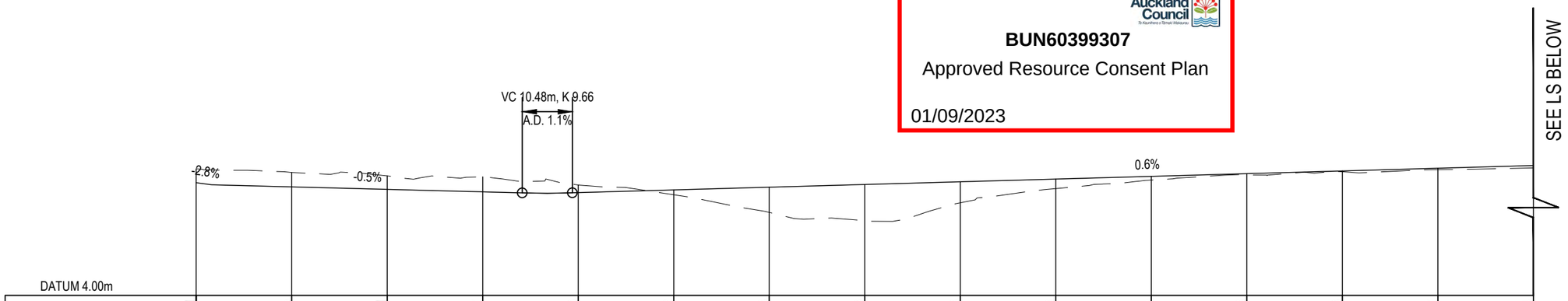
PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C313	Rev	H

BUN60399307

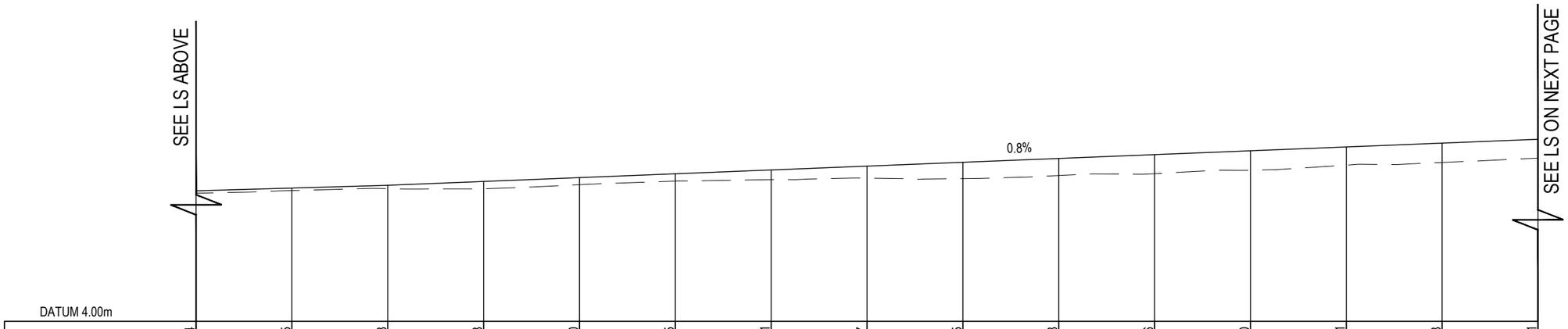
Approved Resource Consent Plan

01/09/2023



DATUM 4.00m															
EXISTING LEVELS	9.31	9.15	9.01	8.97	8.63	8.22	7.48	7.13	7.88	8.48	8.84	9.06	9.18	9.27	9.34
DESIGN LEVELS	8.73	8.55	8.44	8.34	8.31	8.42	8.53	8.65	8.76	8.88	8.99	9.10	9.22	9.33	9.44
CUT/FILL	-0.58	-0.61	-0.56	-0.63	-0.32	0.20	1.06	1.52	0.88	0.40	0.15	0.04	0.03	0.06	0.10
HORIZONTAL GEOMETRY		94.63m 236°05'05"				58.88m 236°05'05"			35.39m 236°05'05"	R 10.04 A 13.03		99.32m 161°39'47"			
VERTICAL GEOMETRY		64.94 -0.5%			VC 10.48, A.D. 1.1% IP CH 73.53/RL 8.27				240.94 0.6%						
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00

ROAD 4 (1 OF 3)
SCALE: HORI 1:1000 VERT 1:200



DATUM 4.00m															
EXISTING LEVELS	9.34	9.45	9.53	9.53	9.70	9.85	9.91	9.97	9.95	10.08	10.16	10.30	10.51	10.63	10.81
DESIGN LEVELS	9.44	9.56	9.67	9.83	9.99	10.15	10.31	10.47	10.63	10.79	10.95	11.11	11.27	11.43	11.59
CUT/FILL	0.10	0.10	0.14	0.30	0.29	0.31	0.40	0.50	0.68	0.71	0.80	0.81	0.76	0.81	0.79
HORIZONTAL GEOMETRY		99.32m 161°39'47"	4.07m 164°19'33"	26.89m 165°49'03"	6.34m 162°25'13"	378.56m 161°46'27"									
VERTICAL GEOMETRY		240.94 0.6%				264.38 0.8%									
CHAINAGE	280.00	300.00	320.00	340.00	360.00	380.00	400.00	420.00	440.00	460.00	480.00	500.00	520.00	540.00	560.00

ROAD 4 (2 OF 3)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/12/23

Notes

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Legend

EX GL
PROP FL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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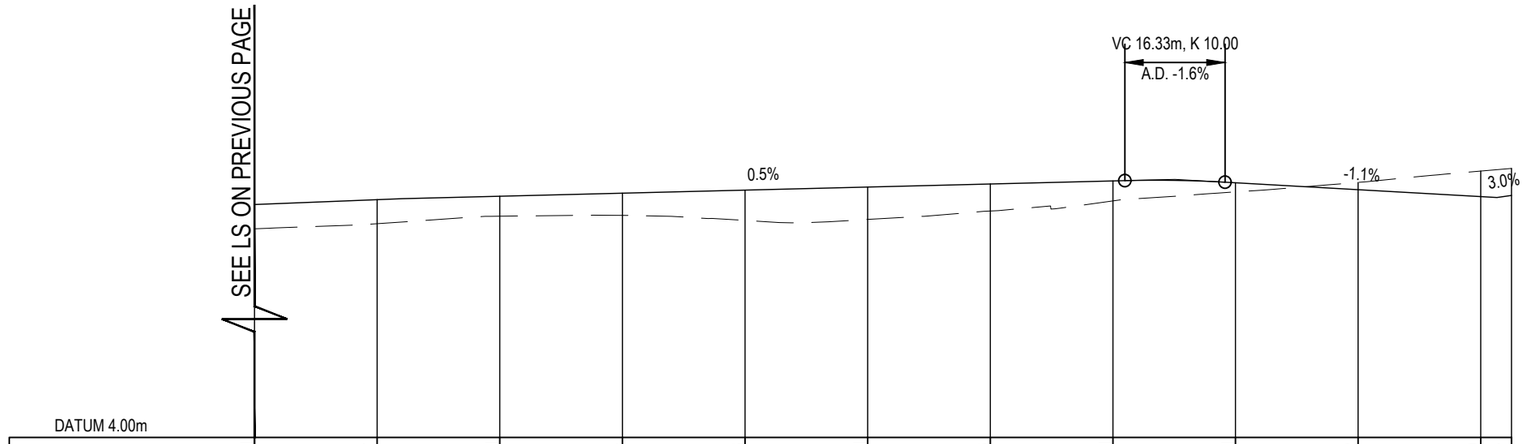
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

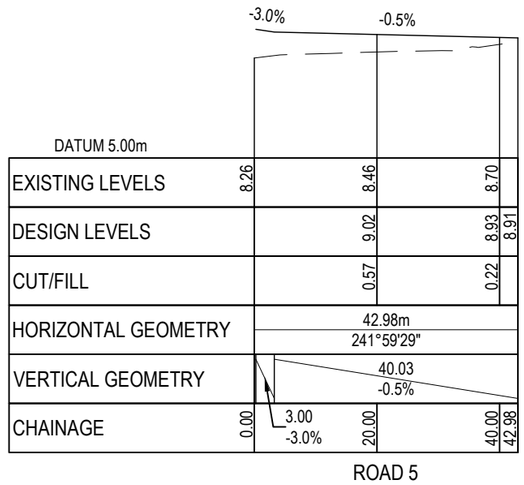
PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C314	Rev	H



DATUM 4.00m											
EXISTING LEVELS	10.81	10.97	11.21	11.24	11.08	11.11	11.38	11.71	12.01	12.32	12.69	12.77
DESIGN LEVELS	11.59	11.75	11.87	11.97	12.07	12.17	12.27	12.37	12.30	12.08	11.85	11.89
CUT/FILL	0.79	0.79	0.65	0.73	0.99	1.06	0.88	0.65	0.30	-0.24	-0.83	-0.88
HORIZONTAL GEOMETRY		378.56m 161°46'27"							R 74.86 A 20.28		28.22m 146°14'59"	
VERTICAL GEOMETRY		264.38 0.8%			117.87 0.5%				VC 16.33, A.D. -1.6% IP CH 710.13/RL 12.42		44.34 -1.1%	
CHAINAGE	560.00	580.00	600.00	620.00	640.00	660.00	680.00	700.00	720.00	740.00	760.00	765.00

ROAD 4 (3 OF 3)
SCALE: HORI 1:1000 VERT 1:200



DATUM 5.00m				
EXISTING LEVELS	8.26	8.46	8.70	
DESIGN LEVELS		9.02	8.93	8.91
CUT/FILL		0.57	0.22	
HORIZONTAL GEOMETRY		42.98m 241°59'29"		
VERTICAL GEOMETRY			40.03 -0.5%	
CHAINAGE	0.00	20.00	40.00	42.98

ROAD 5
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2023

Notes

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Legend

EX GL
PROP FL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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info@maven.co.nz
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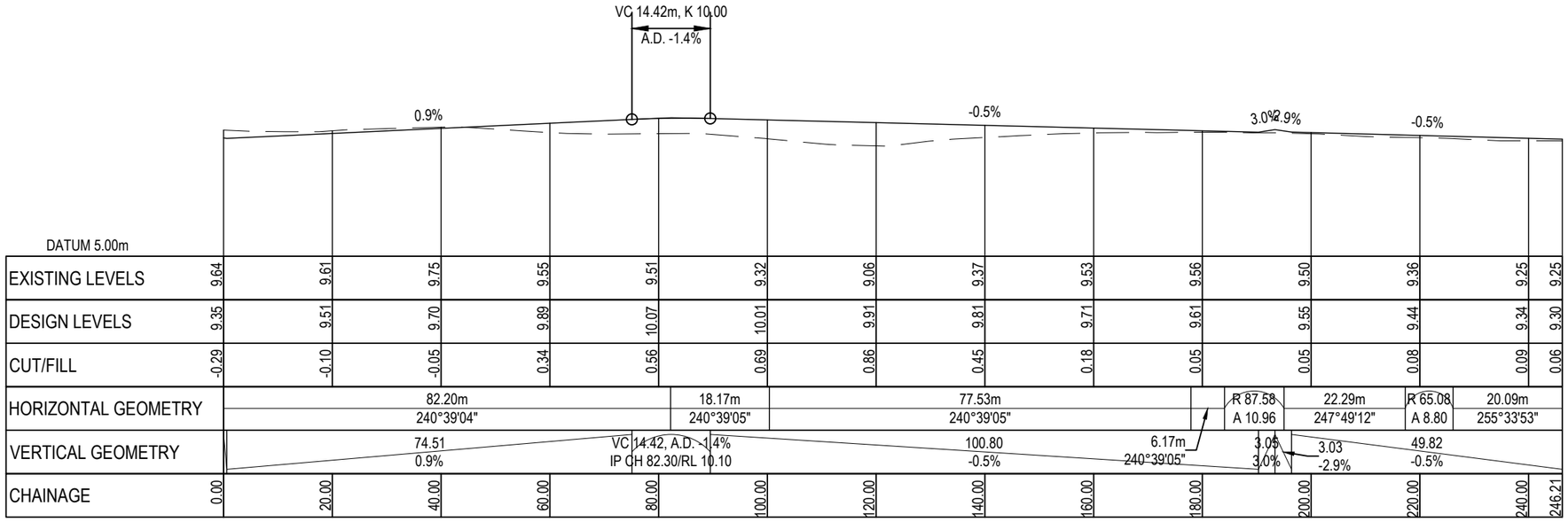
5 Owens Road, Epsom
Auckland 1023

Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED ROADING LONGSECTION

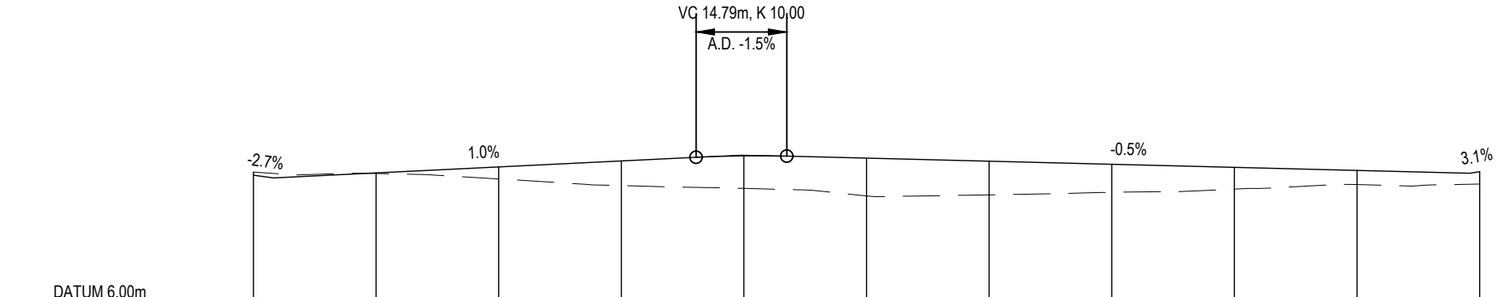
Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C315	Rev	H

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023



DATUM 5.00m													
EXISTING LEVELS	9.64	9.61	9.75	9.55	9.51	9.32	9.06	9.37	9.53	9.56	9.50	9.36	9.25	9.25
DESIGN LEVELS	9.35	9.51	9.70	9.89	10.07	10.01	9.91	9.81	9.71	9.61	9.55	9.44	9.34	9.30
CUT/FILL	-0.29	-0.10	-0.05	0.34	0.56	0.69	0.86	0.45	0.18	0.05	0.05	0.08	0.09	0.06
HORIZONTAL GEOMETRY		82.20m 240°39'04"			18.17m 240°39'05"		77.53m 240°39'05"			R 87.58 A 10.96	22.29m 247°49'12"	R 65.08 A 8.80	20.09m 255°33'53"	
VERTICAL GEOMETRY		74.51 0.9%			VC 14.42, A.D. -1.4% IP CH 82.30/RL 10.10		100.80 -0.5%		6.17m 240°39'05"	3.05 3.0%	3.03 -2.9%	49.82 -0.5%		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	246.21

ROAD 6
SCALE: HORI 1:1000 VERT 1:200



DATUM 6.00m											
EXISTING LEVELS	10.32	10.27	10.09	9.87	9.78	9.54	9.57	9.66	9.76	9.91	9.92
DESIGN LEVELS		10.29	10.48	10.68	10.84	10.77	10.67	10.57	10.47	10.37	10.33
CUT/FILL		0.02	0.39	0.80	1.06	1.23	1.10	0.91	0.71	0.46	0.40
HORIZONTAL GEOMETRY		201.45m 239°33'04"									
VERTICAL GEOMETRY		3.25 -2.7%	68.95 1.0%		VC 14.79, A.D. -1.5% IP CH 79.60/RL 10.87		111.38 -0.5%				3.07 3.1%
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00

ROAD 7
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2023

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Legend

EX GL
PROP FL

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	By	Date
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Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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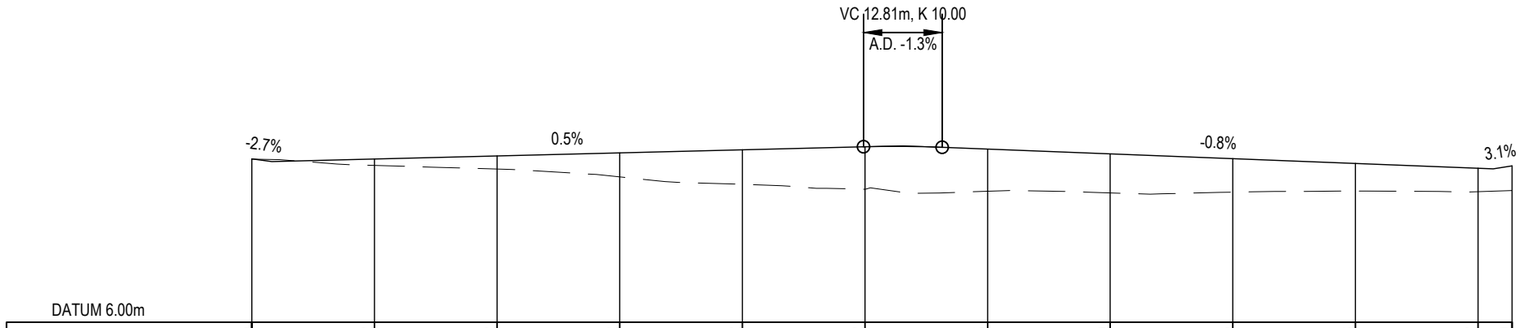
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

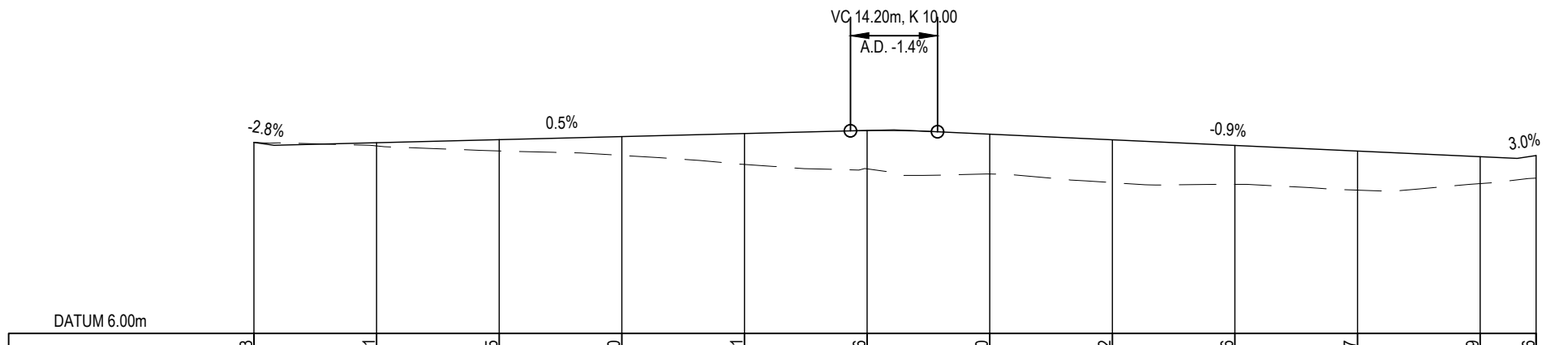
PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C316	Rev	H



DATUM 6.00m												
EXISTING LEVELS	11.33	11.32	11.42	11.52	11.62	11.72	11.65	11.49	11.33	11.18	11.02	11.10
DESIGN LEVELS	11.32	11.11	11.00	10.74	10.50	10.34	10.27	10.22	10.24	10.28	10.26	10.29
CUT/FILL	-0.01	-0.21	-0.43	-0.78	-1.12	-1.39	-1.38	-1.27	-1.09	-0.90	-0.76	-0.80
HORIZONTAL GEOMETRY	205.55m 238°27'01"											
VERTICAL GEOMETRY	3.26 -2.7%	96.52 0.5%				VC 12.81, A.D. -1.3% IP CH 106.19/RL 11.75			89.87 -0.8%			3.08 3.1%
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	205.55

ROAD 8
SCALE: HORI 1:1000 VERT 1:200



DATUM 6.00m												
EXISTING LEVELS	12.23	12.11	11.95	11.80	11.51	11.36	11.20	10.92	10.86	10.67	10.89	11.06
DESIGN LEVELS	12.23	12.22	12.32	12.42	12.52	12.62	12.50	12.31	12.13	11.95	11.76	11.80
CUT/FILL	0.00	0.11	0.37	0.61	1.01	1.25	1.30	1.40	1.27	1.28	0.88	0.74
HORIZONTAL GEOMETRY	209.12m 237°53'09"											
VERTICAL GEOMETRY	3.27 -2.8%	94.02 0.5%				VC 14.20, A.D. -1.4% IP CH 104.39/RL 12.64			94.54 -0.9%			3.09 3.0%
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	209.12

ROAD 9
SCALE: HORI 1:1000 VERT 1:200

Notes

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Legend

EX GL
PROP FL

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	By	Date
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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED ROADING LONGSECTION

Project no.	194006
Scale	AS SHOWN
Cad file	C300- ROADING.DWG
Drawing no.	C317 Rev H

RESOURCE CONSENT

DATE 4/2023

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023

BUN60399307

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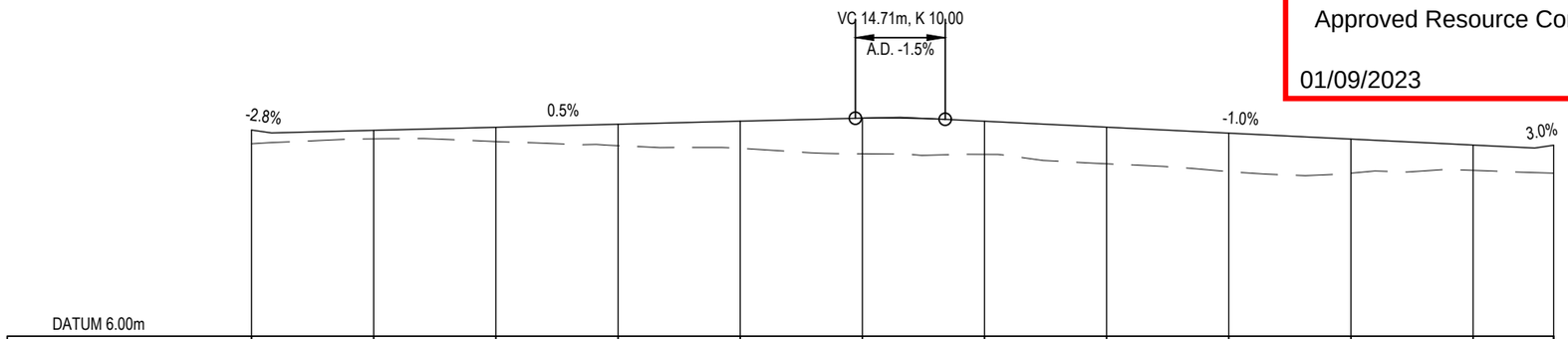
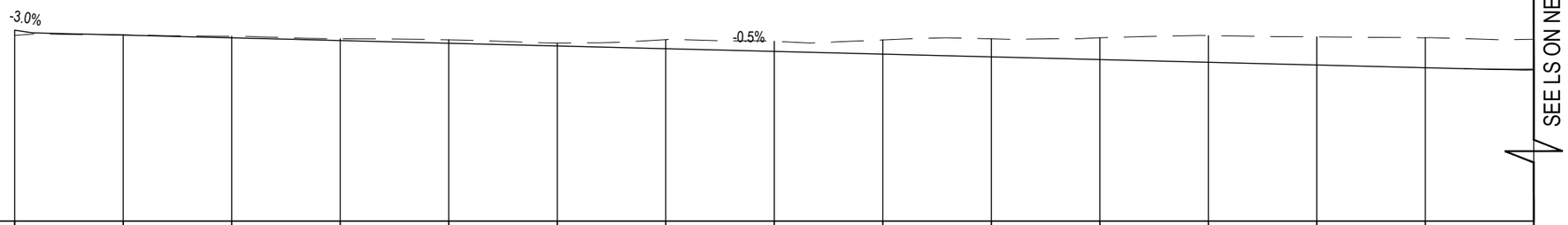
01/09/2023



DATUM 6.00m												
EXISTING LEVELS	12.29	12.45	12.37	12.23	12.15	11.97	11.95	11.64	11.39	11.33	11.42	11.33
DESIGN LEVELS	12.74	12.73	12.83	12.93	13.03	13.13	13.03	12.84	12.64	12.45	12.25	12.25
CUT/FILL	0.45	0.28	0.47	0.70	0.89	1.17	1.08	1.20	1.26	1.12	0.83	0.92
HORIZONTAL GEOMETRY	213.18m 236°57'50"											
VERTICAL GEOMETRY	3.28 -2.8%	95.58 0.5%				VC 14.71, A.D. -1.5% IP CH 106.22/RL 13.16			96.50 -1.0%			3.10 3.0%
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	213.18

ROAD 10
SCALE: HORI 1:1000 VERT 1:200



SEE LS ON NEXT PAGE

DATUM 6.00m														
EXISTING LEVELS	12.83	12.85	12.80	12.71	12.67	12.55	12.68	12.62	12.67	12.71	12.75	12.82	12.78	12.75	12.69
DESIGN LEVELS	13.03	12.85	12.75	12.65	12.55	12.45	12.35	12.25	12.15	12.05	11.95	11.85	11.75	11.65	11.59
CUT/FILL	0.19	-0.01	-0.05	-0.07	-0.12	-0.11	-0.33	-0.37	-0.52	-0.66	-0.80	-0.98	-1.03	-1.10	-1.10
HORIZONTAL GEOMETRY	370.84m 236°02'10"														
VERTICAL GEOMETRY	3.29 -3.0%	263.93 -0.5%												VC 22.69, A.D. 1.1% IP CH 278.57/RL 11.55	
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00

ROAD 11 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2/23

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Legend

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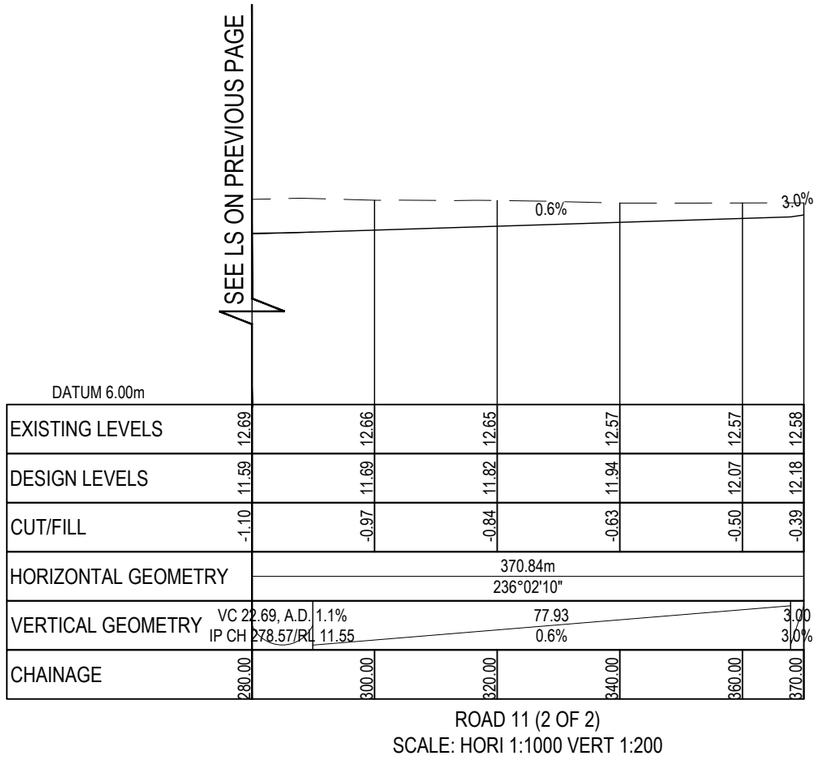
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

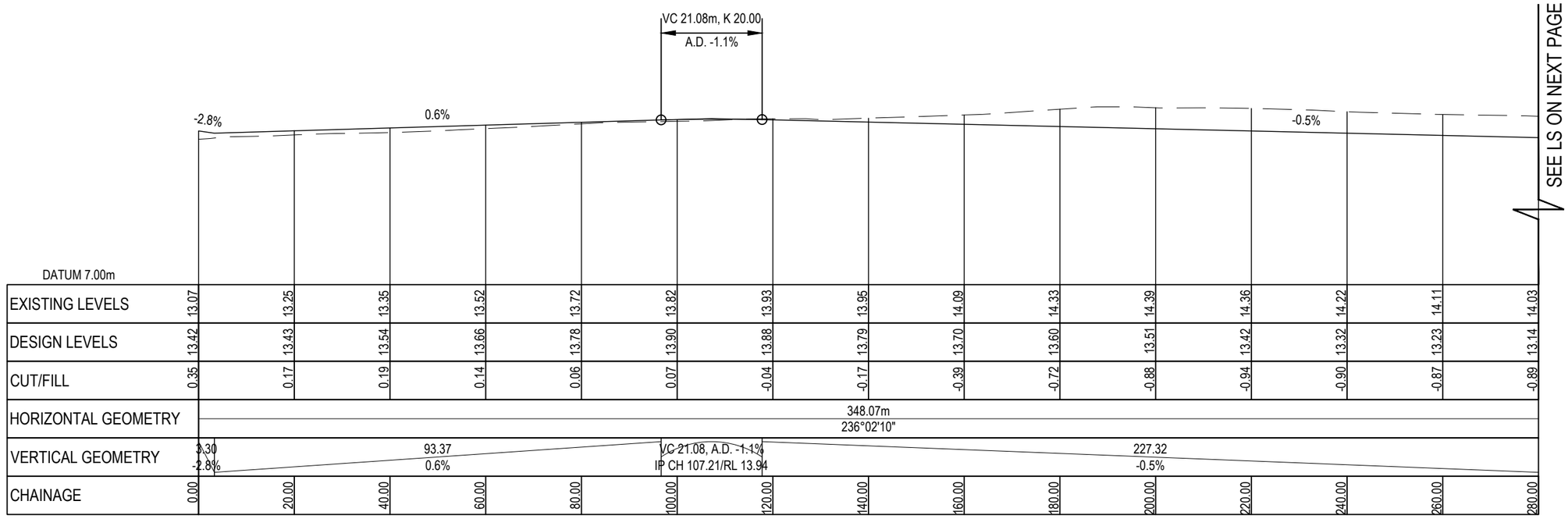
Title

PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C318	Rev	H



ROAD 11 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200



ROAD 12 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2/23

Auckland Council

BUN60399307

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01/09/2023

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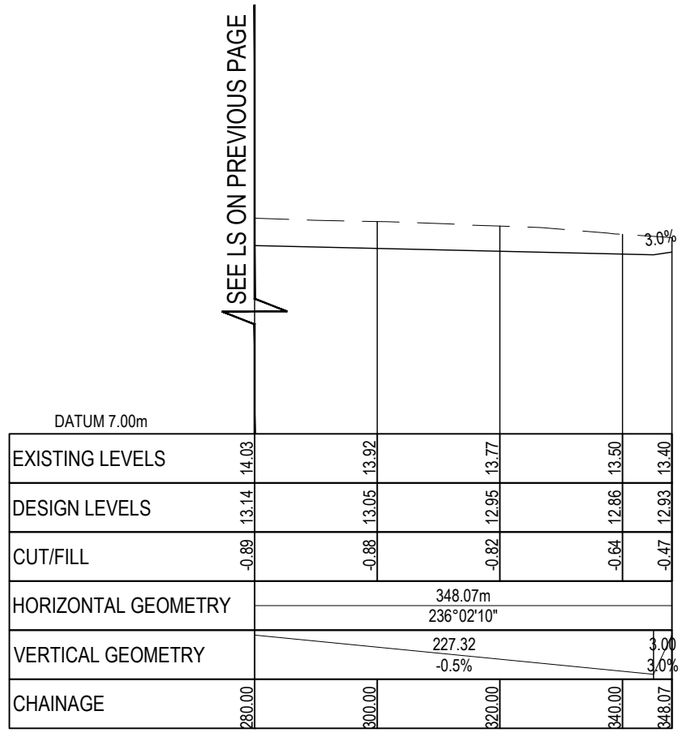
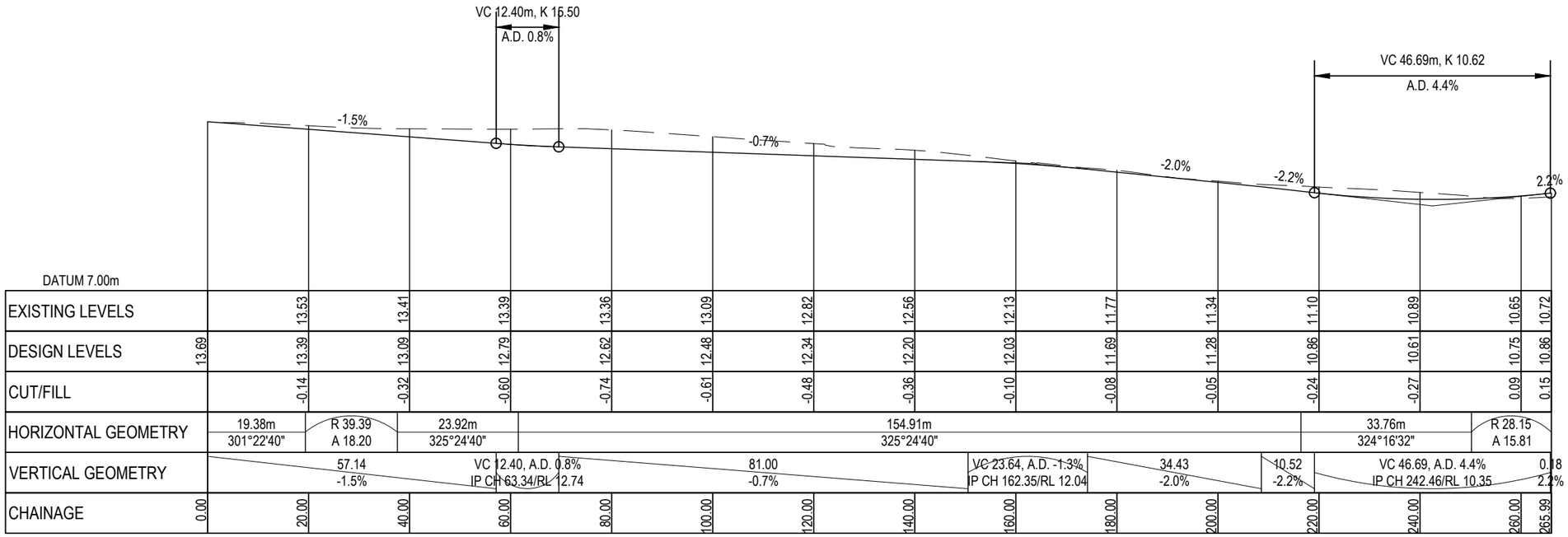


ROAD 12 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200



ROAD 13
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/2/23

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Project

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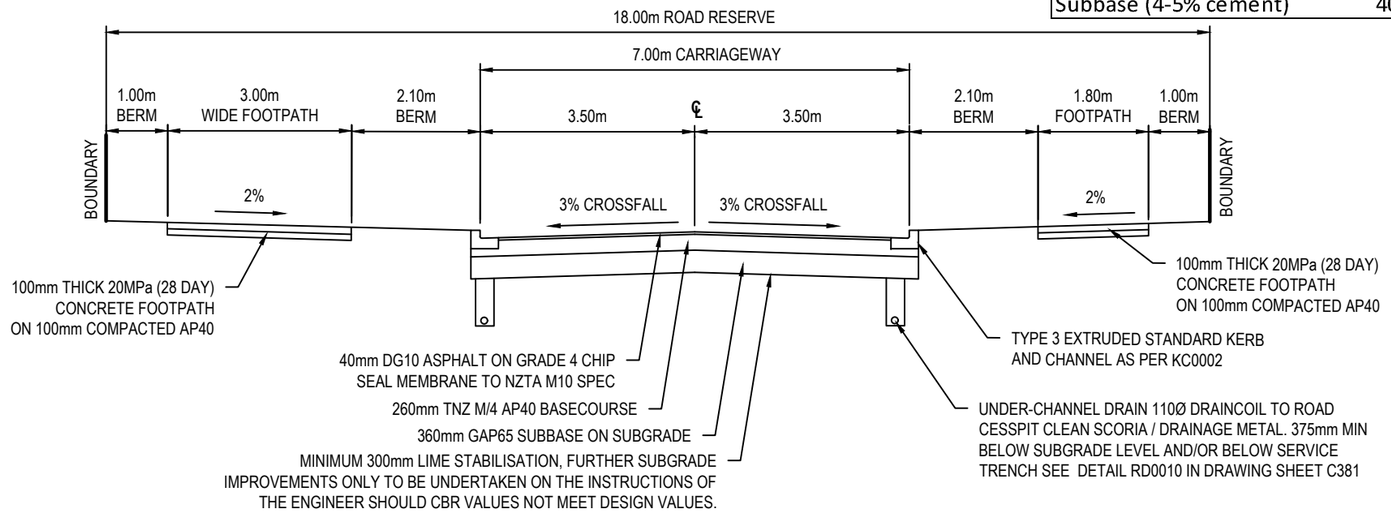
Title

PROPOSED ROADING LONGSECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C320	Rev	H

Road 1	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	400	260	200
Subbase	-	360	200
Subbase (4-5% cement)	400	-	-



A / C301 TYPICAL CROSS SECTION - 18m (WIDE FOOTPATH) ROAD 1

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Auckland Council

BUN60399307

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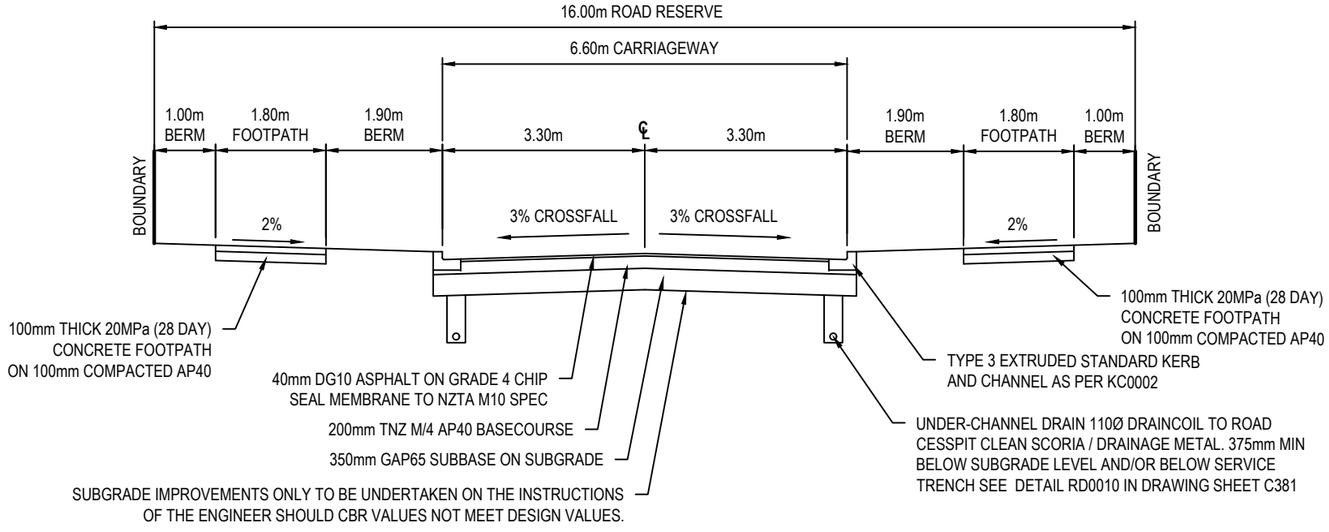
01/09/2023



B / C301 TYPICAL CROSS SECTION - 16m ROADS 2,4,7,8,9,11 AND 12

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Roads 2-5 & 7-13	(400mm lime stabilised CBR11%)	Natural Ground	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	200	200	200
Subbase	320	350	300

RESOURCE CONSENT

DATE 4/7/23

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5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. ield and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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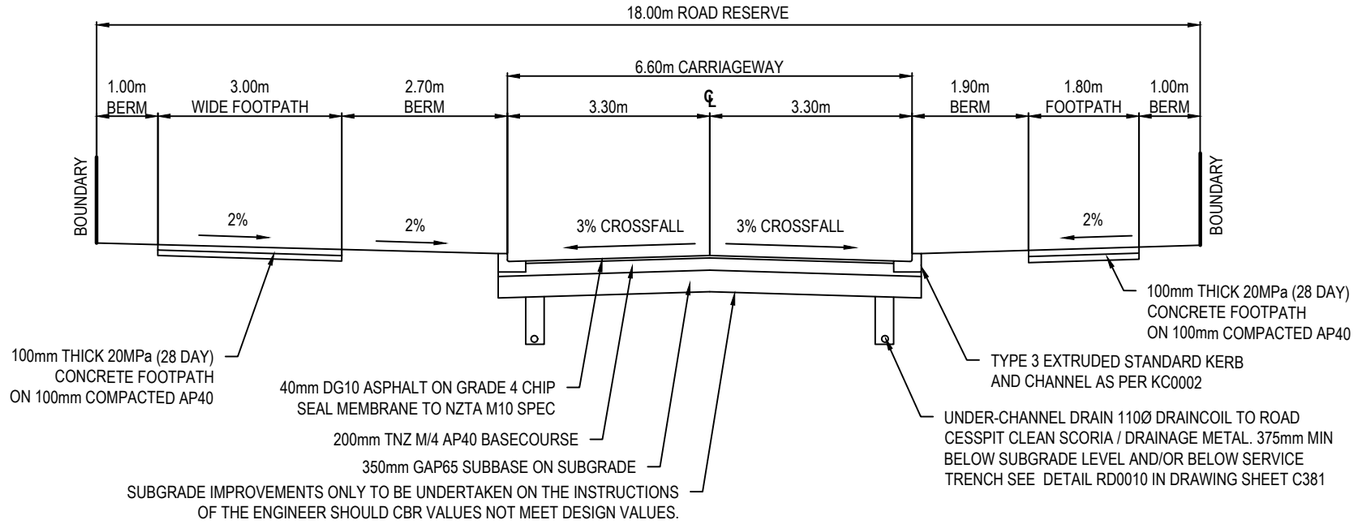
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C330	Rev	H

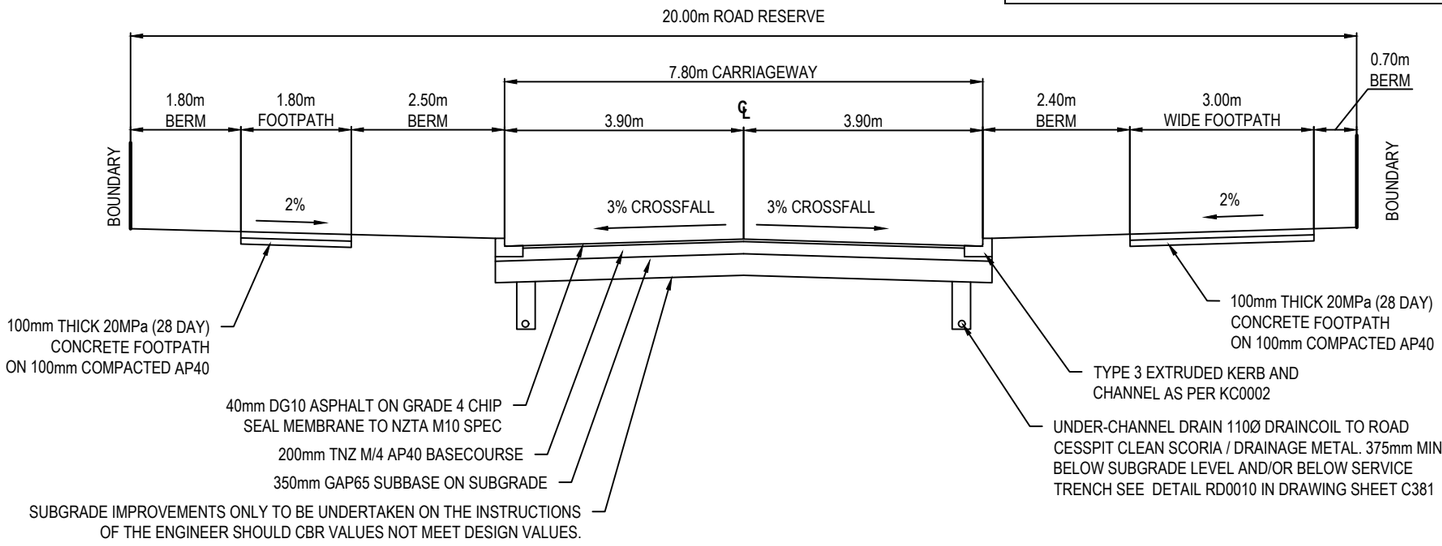


C / C301 TYPICAL CROSS SECTION - 18m ROAD 3 (CH340 - CH480)

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Roads 2-5 & 7-13	(400mm lime stabilised CBR11%)	Natural Ground	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	200	200	200
Subbase	320	350	300



D / C301 TYPICAL CROSS SECTION - 20m ROAD 5

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/12/23

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. The contractor shall comply with all relevant Health and Safety requirements.
5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
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10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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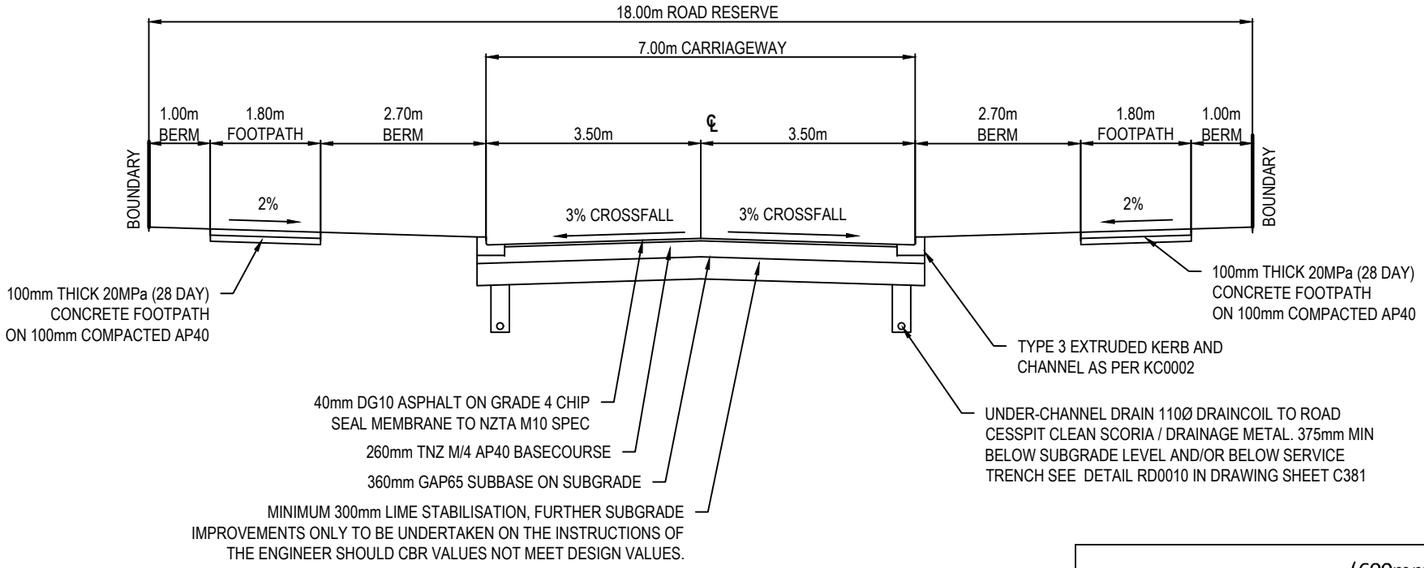
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C331	Rev	H



E C301 TYPICAL CROSS SECTION - 18m ROAD 6

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Roads 6 & 6a	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	450	260	200
Subbase	-	360	200
Subbase (4-5% cement)	430	-	-

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. The contractor shall comply with all relevant Health and Safety requirements.
5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
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9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
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14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
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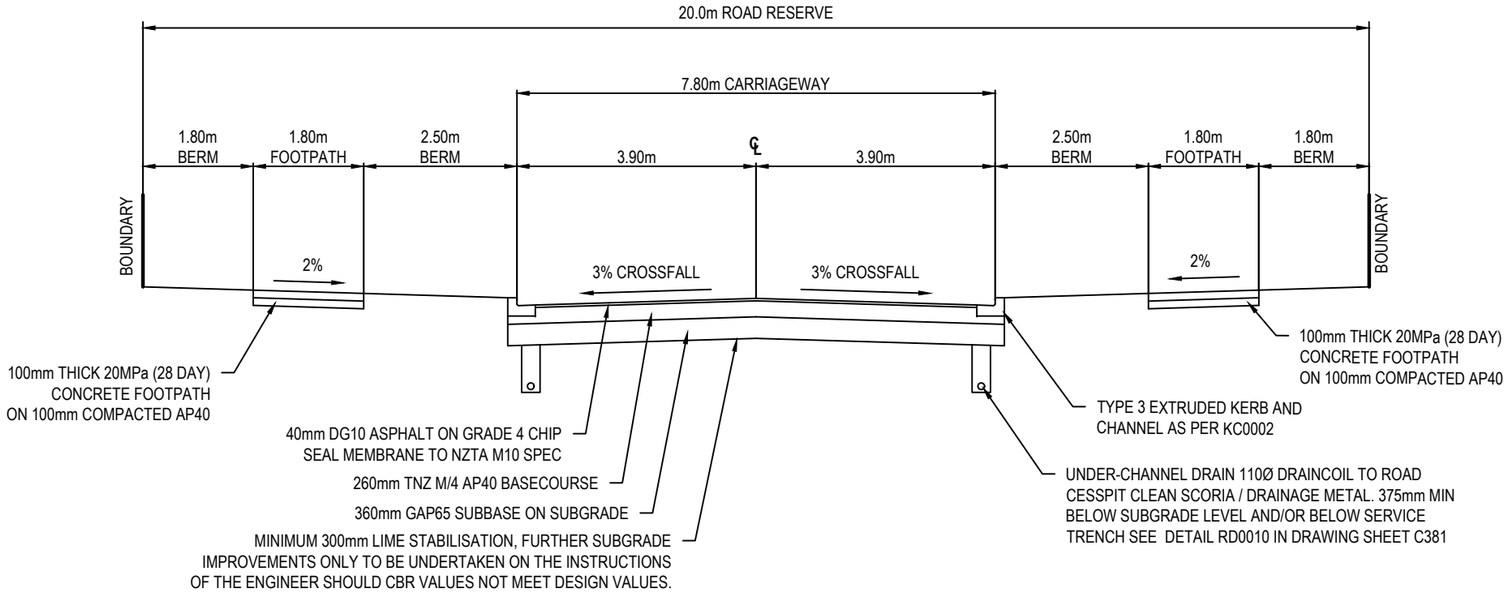
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



F C301 TYPICAL CROSS SECTION - 20m ROAD 6A

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

RESOURCE CONSENT

DATE 4/12/23

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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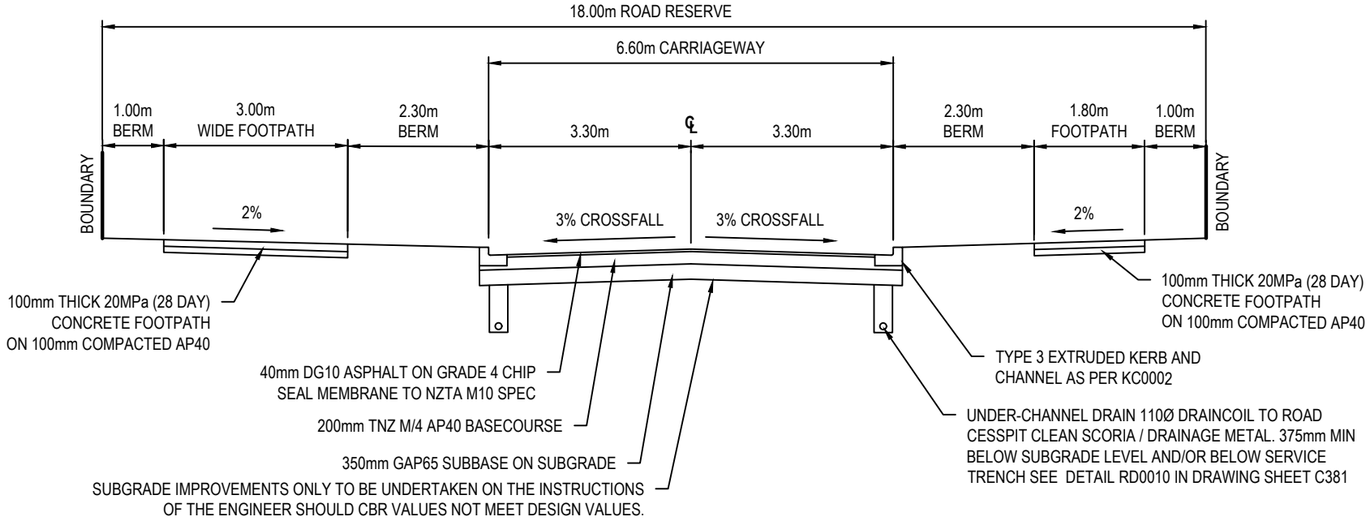
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C332	Rev	H



G
C302

TYPICAL CROSS SECTION - 18m (WIDE FOOTPATH) ROADS 10 AND 13

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

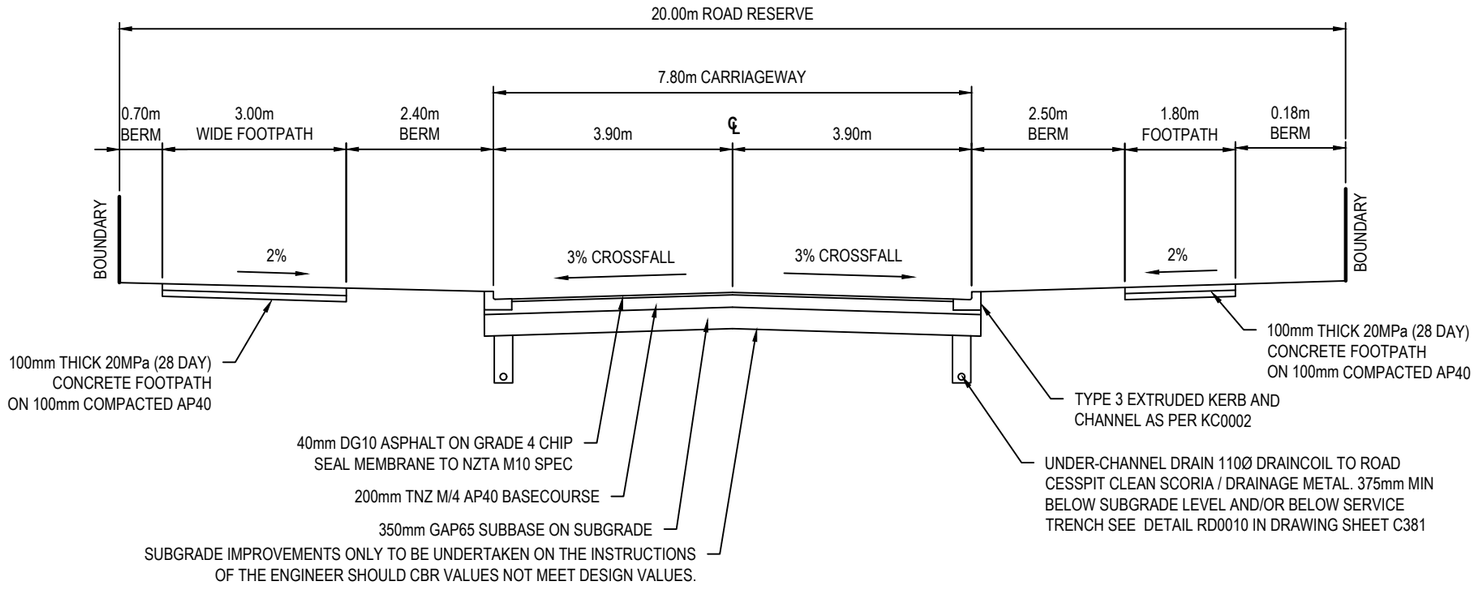
Roads 2-5 & 7-13	(400mm lime stabilised CBR11%)	Natural Ground	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	200	200	200
Subbase	320	350	300

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



H
C302

TYPICAL CROSS SECTION - 20m ROAD 13 TIE INTO NEIGHBORING ROAD

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

RESOURCE CONSENT

DATE: 4/7/23

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. The contractor shall comply with all relevant Health and Safety requirements.
5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
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12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
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19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Auckland 1023

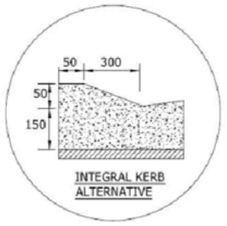
Project

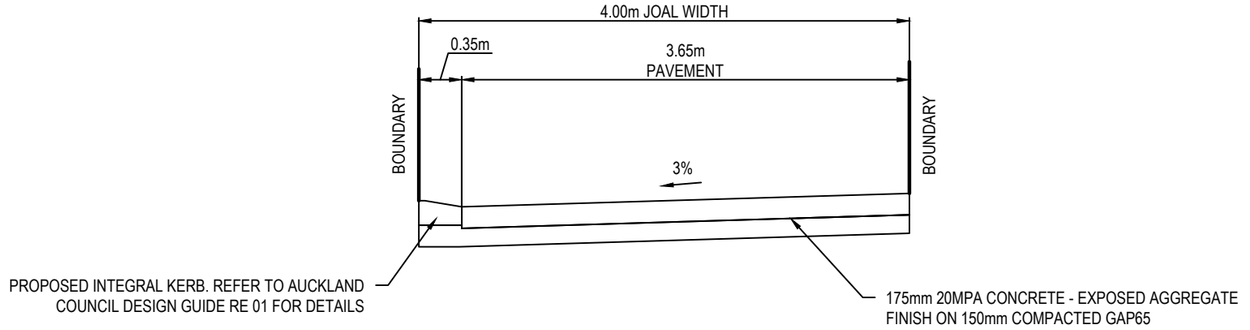
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C333	Rev	H

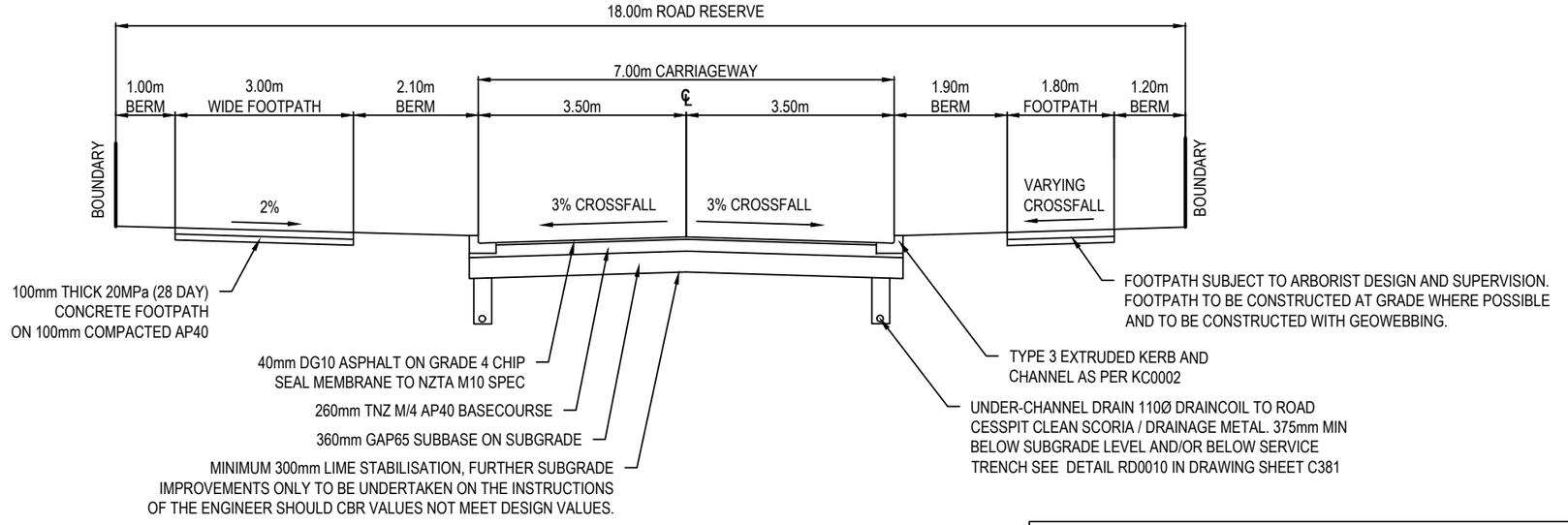




I / C301 TYPICAL CROSS SECTION - JOAL 1

SCALE 1:50 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0



J / C301 TYPICAL CROSS SECTION - 18m (WIDE FOOTPATH) ROAD 1

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

Road 1	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	400	260	200
Subbase	-	360	200
Subbase (4-5% cement)	400	-	-

RESOURCE CONSENT

DATE 4/2/23

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
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9. All ducts shall have locations marked on kerb lines in accordance with specification.
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19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Auckland 1023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C334	Rev	H

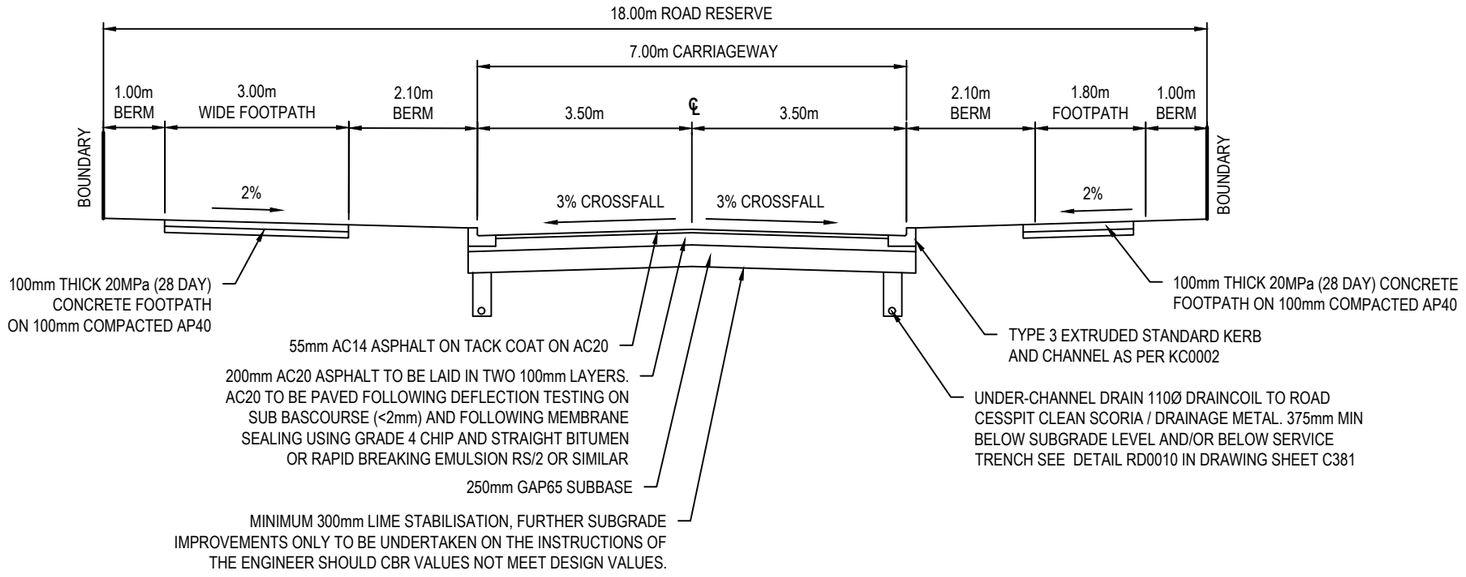
Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Roads 1 & 6 T- intersection and Road 6 & 4 Roundabout	(400mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	(250mm lime stabilised CBR11%)
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course (AC 20)	200	200	200
Subbase	350	250	200

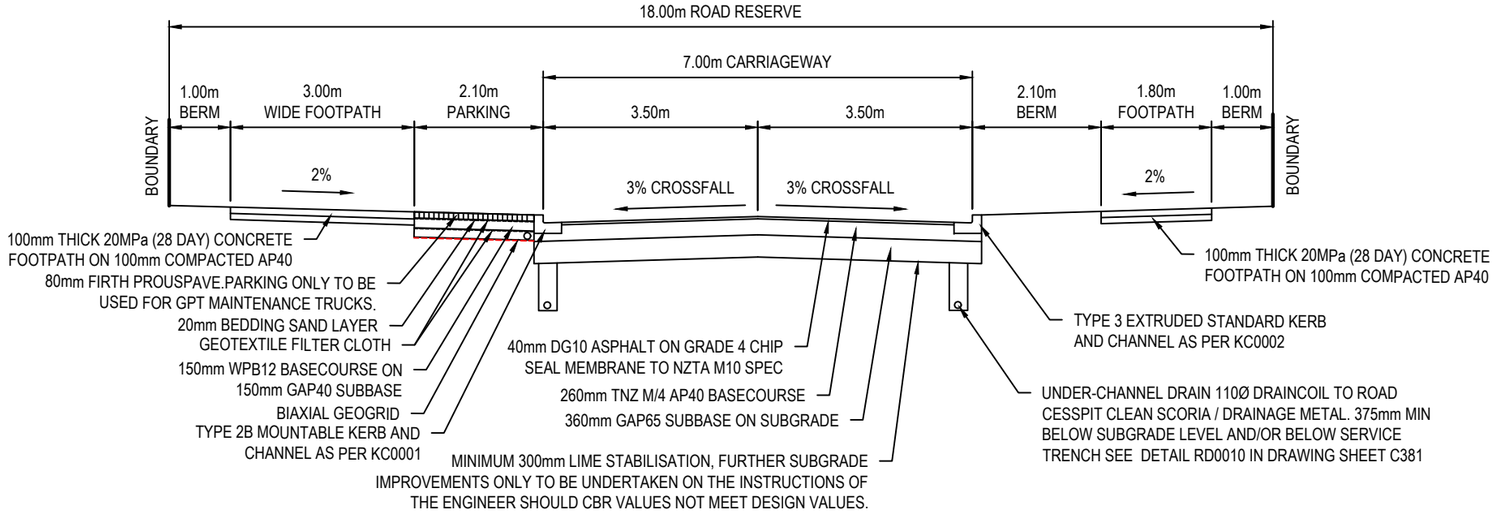


A C301

TYPICAL CROSS SECTION - T-INTERSECTION & ROUNDABOUT (ATLEAST 30m OF APPROCHES) ROAD 1&6 - CH(345-415m) & ROAD 6&6A - CH(150-235m)

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0



M C301

TYPICAL CROSS SECTION - 18m ROAD 1 (WITH PARKING)

SCALE 1:100 @ A3

DESIGN BASED ON MINIMUM CBR OF 3.0

RESOURCE CONSENT

DATE 4/2/23

Notes

1. All works to be in accordance with Auckland Council standards.
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H	S92 RFI	ML	04/2023
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F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

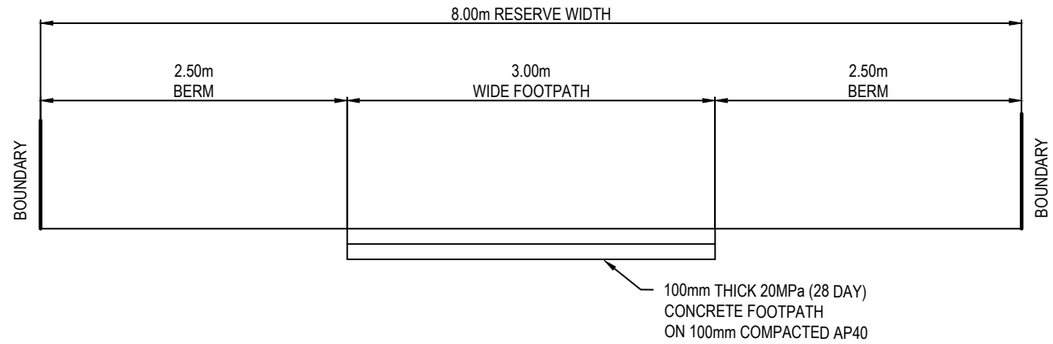
Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C335	Rev	H

Auckland Council

BUN60399307

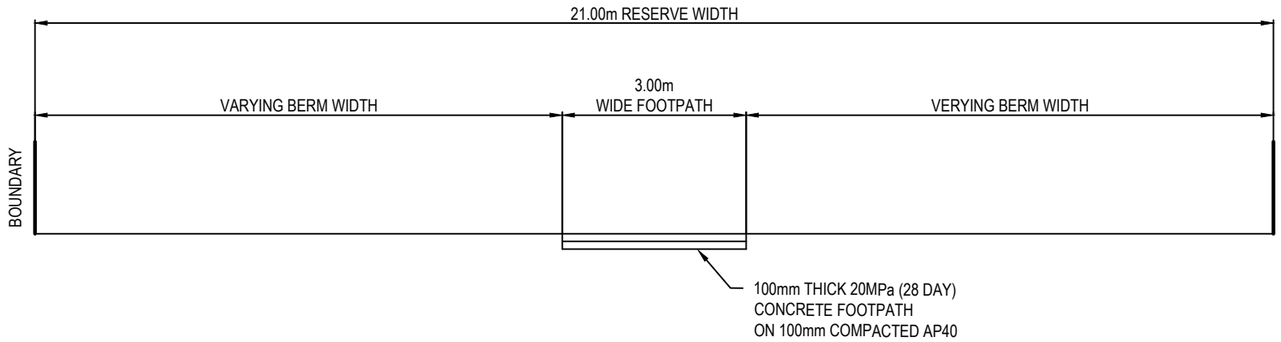
Approved Resource Consent Plan

01/09/2023



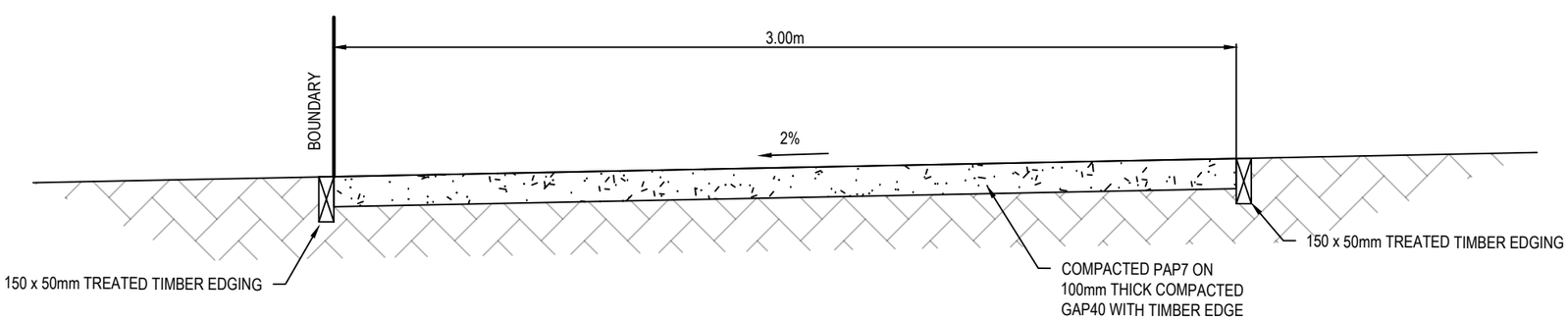
K / C302 TYPICAL CROSS SECTION - 8m RESERVE

SCALE 1:50 @ A3



L / C302 TYPICAL CROSS SECTION - 21m RESERVE

SCALE 1:100 @ A3



- / - TYPICAL CROSS SECTION - BRIDLE TRAIL DETAIL

SCALE 1:20 @ A3

RESOURCE CONSENT

DATE 4/7/23

Notes

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4. The contractor shall comply with all relevant Health and Safety requirements.
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6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROADING CROSS-SECTIONS

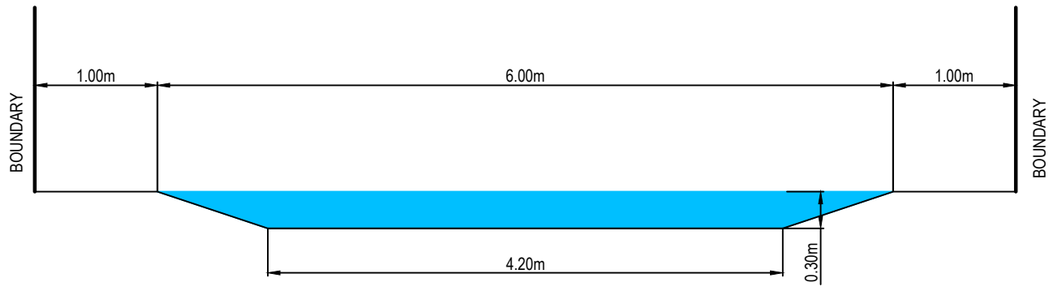
Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C336	Rev	H

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



S1 / C302 TYPICAL CROSS SECTION - SWALE 1

SCALE 1:50 @ A3

RESOURCE CONSENT

DATE 4/2023

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
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11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
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15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.
19. Field and laboratory testing of subgrade to be undertaken at 10m interval staggered in both lanes, in order to determine an appropriate CBR and pavement depth for construction to achieve the required deflections tests on top of the basecourse. Acceptance criteria for Benkelman Beam requirements on finished basecourse level as per ATCoP Table 52 is also to be provided.

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	RK	12/2021
Checked	WM	12/2021

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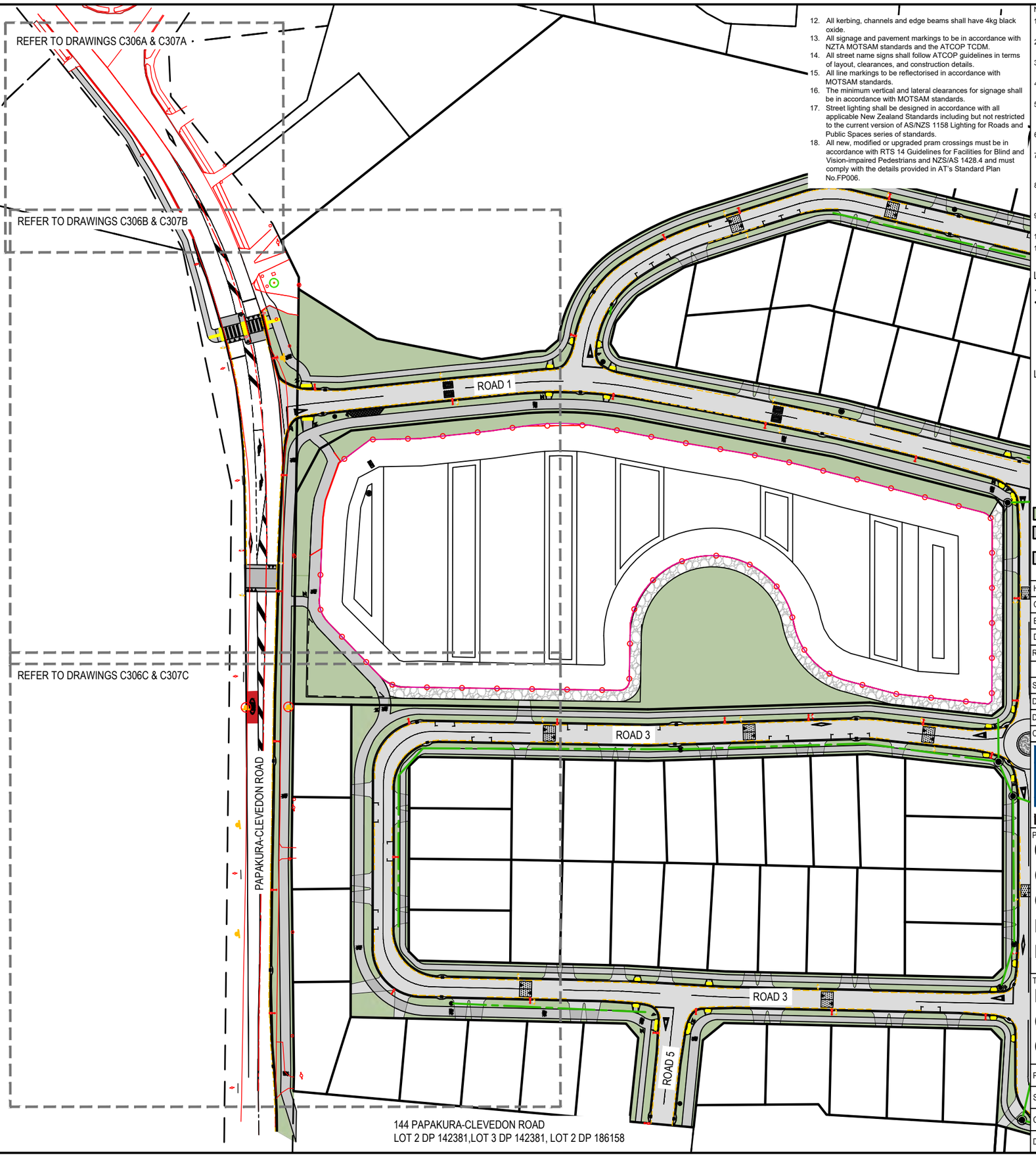
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED SWALE CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C300- ROADING.DWG		
Drawing no.	C337	Rev	H



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

71 PAPAKURA-CLEVEDON ROAD
PT ALLOT 9 PSH OR WAIROA

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381, LOT 2 DP 186158

RESOURCE CONSENT

DATE: 4/21/23

12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
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Notes

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10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
	PR SPEED CUSHION
	PR BERM
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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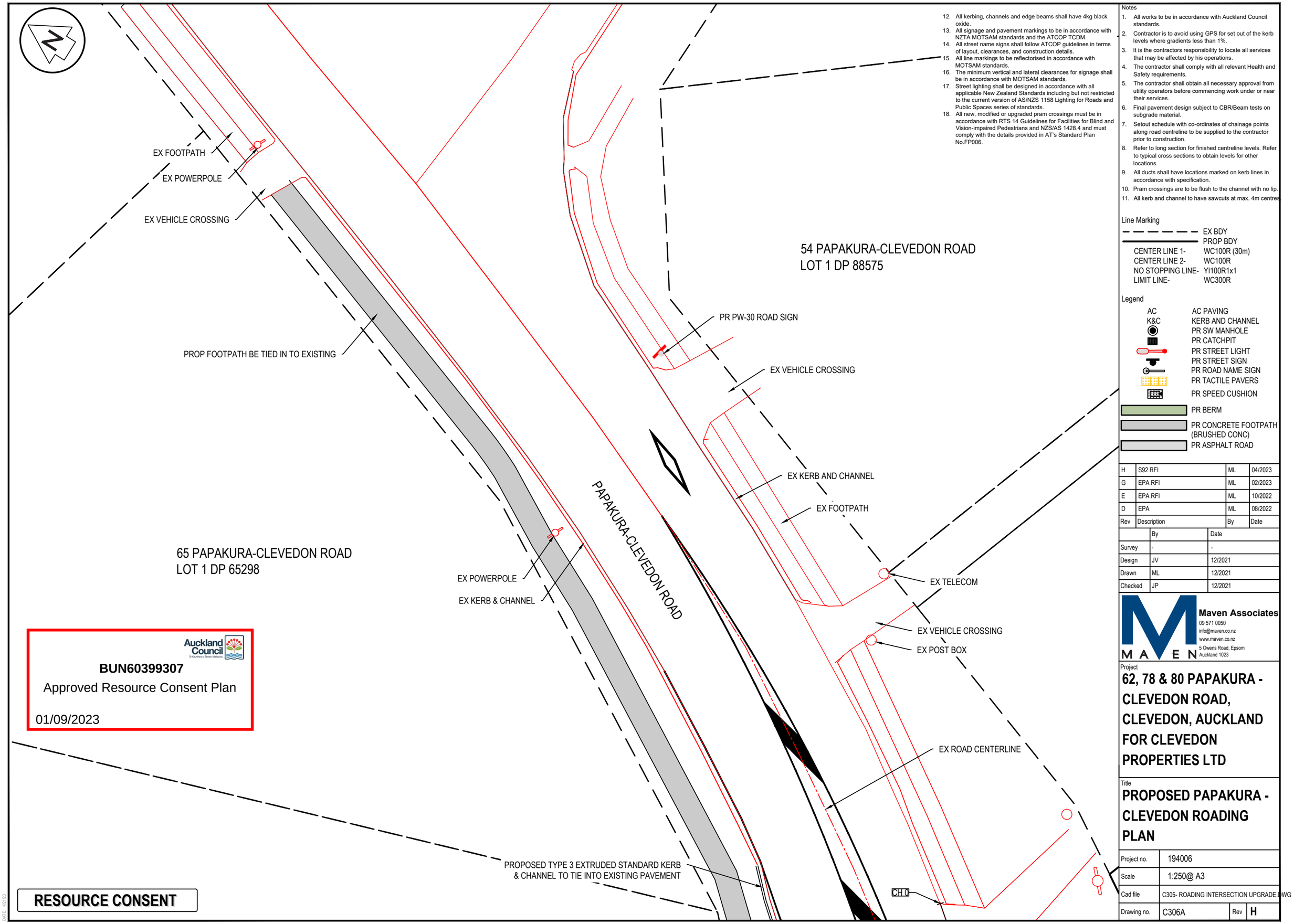
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROADING OVERVIEW

Project no.	194006		
Scale	1:1250@ A3		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C305	Rev	H



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE: 4/21/23

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11. All kerb and channel to have sawcuts at max. 4m centres.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
	PR SPEED CUSHION
	PR BERM
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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5 Owens Road, Epsom
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROADING PLAN

Project no.	194006
Scale	1:250@ A3
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG
Drawing no.	C306A
Rev	H

71 PAPAKURA-CLEVEDON ROAD
PT ALLOT 9 PSH OR WAIROA

EX KERB & CHANNEL
EX EDGE OF SEAL
EX FOOTPATH
EX KERB & CHANNEL
EX BERM
CH 0
EX TELECOM
EX POWER POLE
EX VEHICLE CROSSING TO REMAIN
EX CHAMBER
EX TREE
EX SW MANHOLE
EX FOOTPATH
EX POWER POLE
EX SW PIPE
PROP FOOTPATH
EX POST BOX
CH 20
EX VEHICLE CROSSING TO BE REMOVED, K&C AND BERM TO BE REINSTATED
EX POST BOX TO BE RELOCATED
EX KERB & CHANNEL TO BE REINSTATED
PR TYPE 3 EXTRUDED STANDARD KERB & CHANNEL TO BE TIED IN TO EXISTING
PROP TACTILE PAVERS
EX TELECOM
EX ROAD SIGN
PROPOSED SWEDISH STYLE SPEED TABLE, REFER TO C343 FOR DETAILS
K&C
EX DRIVEWAY TO BE REMOVED
CH 40
PROP RG-28C SIGN
EX POWER POLE
EX SW PIPE
AC
ROAD 1
PAPAKURA-CLEVEDON ROAD
CH 60
PROP RG-28C SIGN
PROP GIVEWAY SIGN
A
C340
EX POWER POLE
EX SW PIPE
CH 80
EX EDGE OF SEAL
PROP EDGE OF SEAL
K&C
EX TELECOM
EX ELECTRIC BOX
PW-30 ROAD SIGN
CH 100
PROP RG-28C SIGN
PROPOSED SPEED TABLE, REFER TO C343 FOR DETAILS
EX EDGE OF SEAL
PROP EDGE OF SEAL
EX ROAD CENTRELINE
PROP TYPE 3 EXTRUDED STANDARD KERB & CHANNEL
CH 120
K&C
B
C341

BUN60399307
Approved Resource Consent Plan
01/09/2023

RESOURCE CONSENT

DATE: 4/2/23

12. All kerbing, channels and edge beams shall have 4kg black oxide.
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Notes
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9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
	PR SPEED CUSHION
	PR BERM
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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Auckland 1023

Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED PAPAKURA - CLEVEDON ROADING PLAN

Project no.	194006
Scale	1:500@ A3
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG
Drawing no.	C306B Rev H

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

71 PAPAKURA-CLEVEDON ROAD
PT ALLOT 9 PSH OR WAIROA

RESOURCE CONSENT

DATE: 4/2/23

EX EDGE OF SEAL
PROP EDGE OF SEAL
EX POWER POLE
EX SW PIPE
EX SIGNAGE AND MARKING-BASED THRESHOLD (CHANGE FROM 80 KPH TO 50 KPH) PROPOSED TO BE RETAINED
EX ROAD SIGN
EX POWER POLE
EX SW PIPE
EX EDGE OF SEAL
EX ROAD SIGN
EX SW PIPE
EX POWER POLE

CH 140
CH 160
CH 180
CH 200
CH 220
CH 240
CH 260

EX SIGNAGE AND MARKING-BASED THRESHOLD (CHANGE FROM 80 KPH TO 50 KPH) PROPOSED TO BE RELOCATED
C
C342
EX TELECOM
EX POWER POLE
EX EDGE OF SEAL
PROP EDGE OF SEAL
PROP TYPE 3 EXTRUDED STANDARD KERB & CHANNEL
EX VEHICLE CROSSING TO BE REMOVED
EX POST BOX
EX TELECOM
D
C342
EX TELECOM
EX POWER POLE
EX VEHICLE CROSSING TO BE REMOVED

K&C

PAPAKURA-CLEVEDON ROAD

ROAD 3

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Line Marking

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PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

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K&C	KERB AND CHANNEL
	PR SW MANHOLE
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	PR STREET LIGHT
	PR STREET SIGN
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	PR TACTILE PAVERS
	PR SPEED CUSHION
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	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED PAPAKURA - CLEVEDON ROADING PLAN

Project no.	194006		
Scale	1:500@ A3		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C306C	Rev	H

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Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

54 PAPAKURA-CLEVEDON ROAD
LOT 1 DP 88575

ADVANCE WARNING DIAMOND SYMBOL

PAPAKURA-CLEVEDON ROAD

65 PAPAKURA-CLEVEDON ROAD
LOT 1 DP 65298

PROP NO STOPPING LINE

PROP FLUSH MEDIAN

RESOURCE CONSENT

DATE: 4/21/23

Notes

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PROP BDY	
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CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
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	PR BERM
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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROADING LINE MARKING PLAN

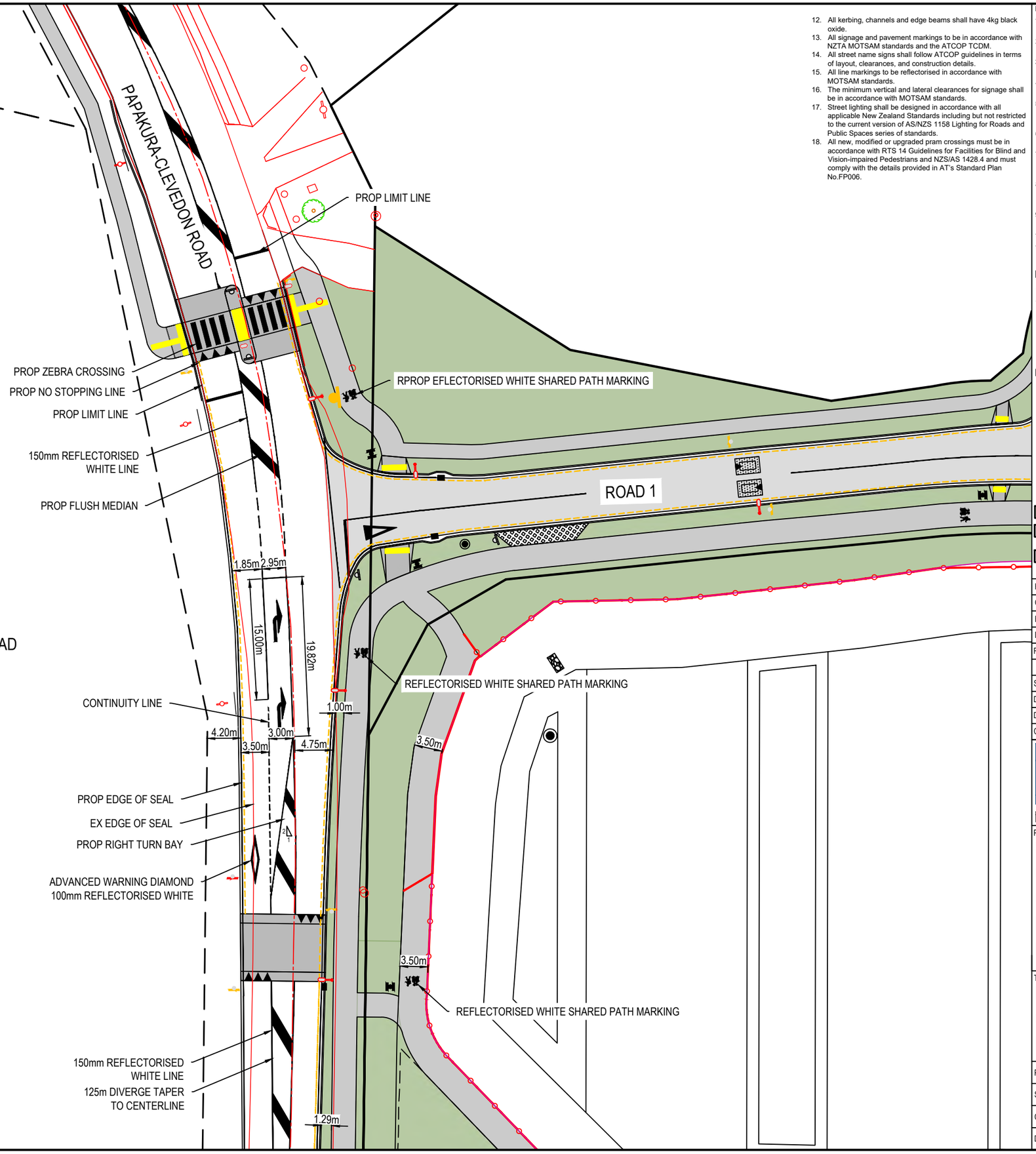
Project no.	194006		
Scale	1:250@ A3		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C307A	Rev	H

BUN60399307

Approved Resource Consent Plan

01/09/2023

71 PAPAKURA-CLEVEDON ROAD
PT ALLOT 9 PSH OR WAIROA



RESOURCE CONSENT

DATE: 4/2/23

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15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
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18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.

Notes

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6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
	PR SPEED CUSHION
	PR BERM
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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5 Owens Road, Epsom
Auckland 1023

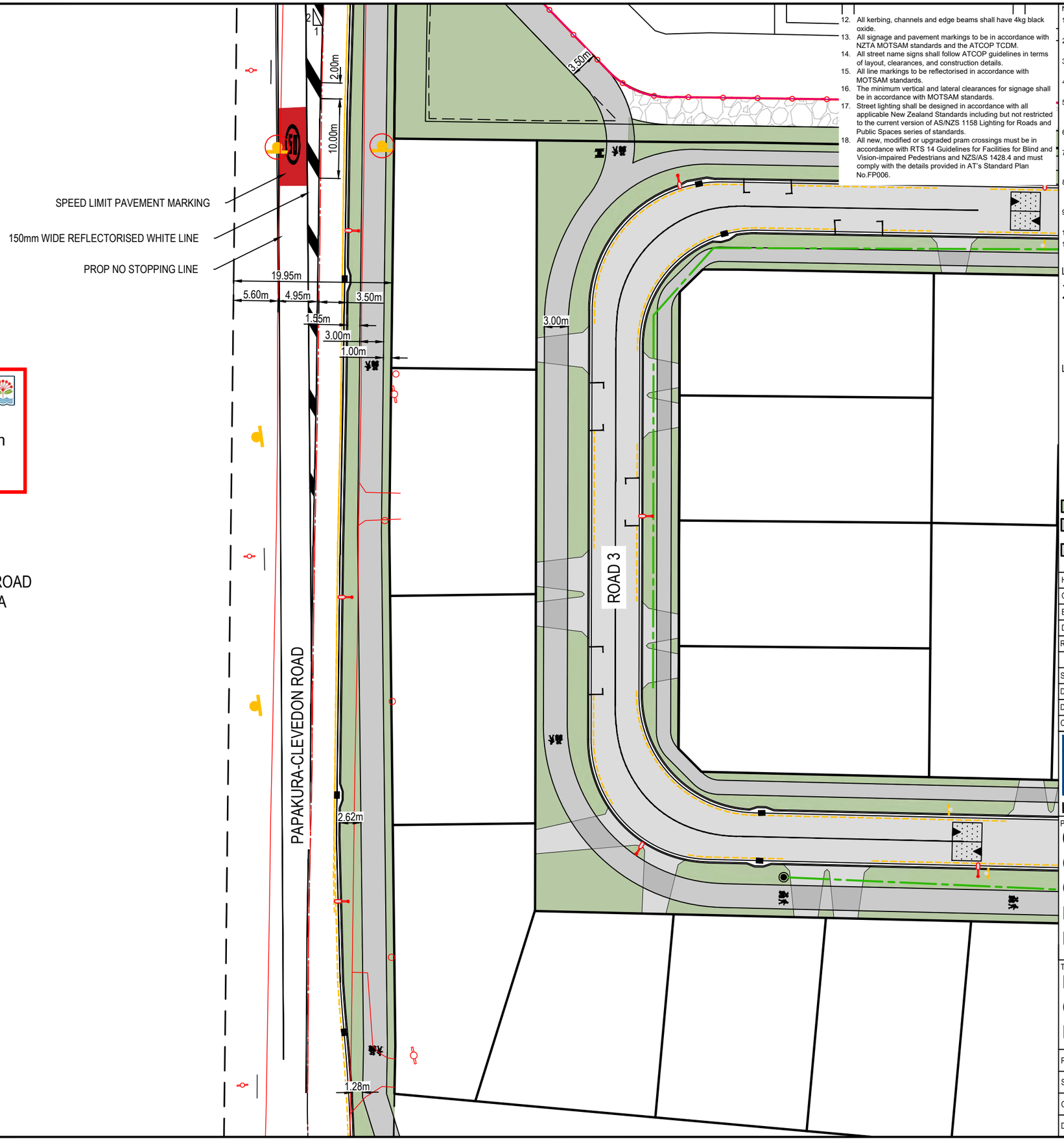
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROADING LINE MARKING PLAN

Project no.	194006
Scale	1:500@ A3
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG
Drawing no.	C307B Rev H



BUN60399307

Approved Resource Consent Plan

01/09/2023

71 PAPAKURA-CLEVEDON ROAD
PT ALLOT 9 PSH OR WAIROA

RESOURCE CONSENT

DATE: 4/21/23

12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
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10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.

Line Marking

EX BDY	
PROP BDY	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

AC	AC PAVING
K&C	KERB AND CHANNEL
	PR SW MANHOLE
	PR CATCHPIT
	PR STREET LIGHT
	PR STREET SIGN
	PR ROAD NAME SIGN
	PR TACTILE PAVERS
	PR SPEED CUSHION
	PR BERM
	PR CONCRETE FOOTPATH (BRUSHED CONC)
	PR ASPHALT ROAD

Rev	Description	By	Date
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D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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Auckland 1023

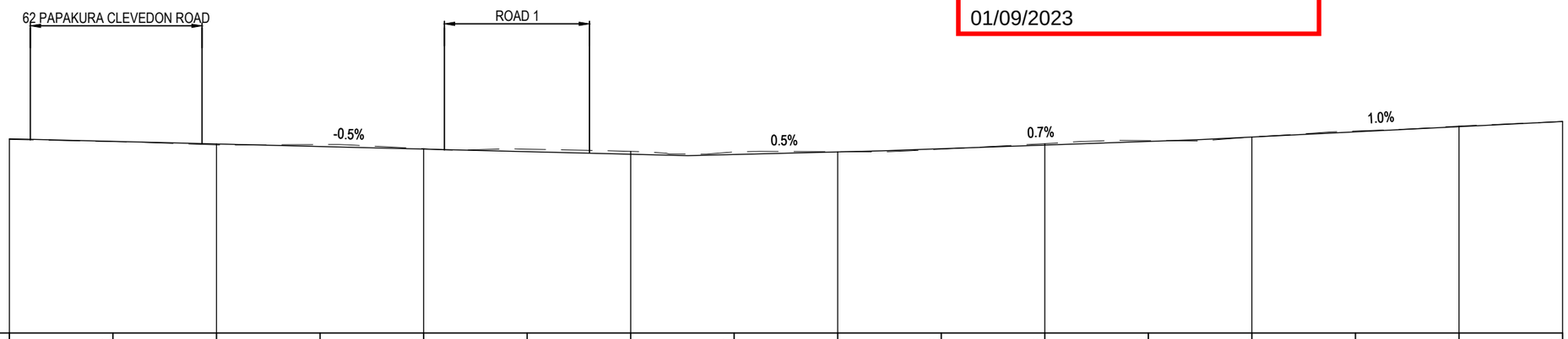
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

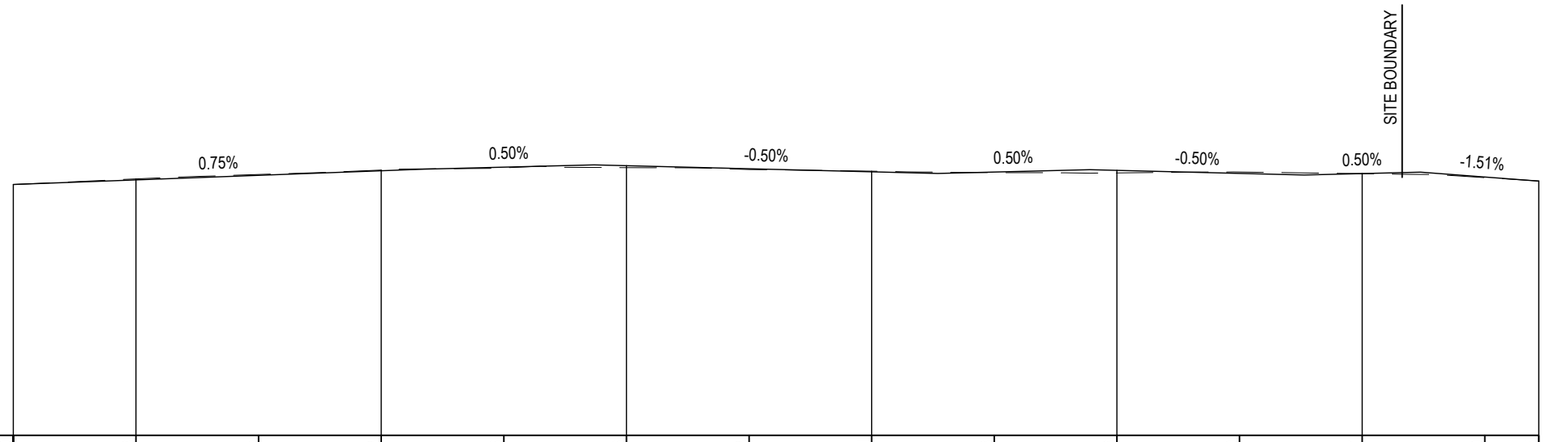
PROPOSED PAPAKURA - CLEVEDON ROADING LINE MARKING PLAN

Project no.	194006
Scale	1:500@ A3
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG
Drawing no.	C307C
Rev	H



DATUM 4.00m														
EXISTING LEVELS	7.74	7.70	7.64	7.64	7.56	7.55	7.51	7.50	7.51	7.56	7.66	7.72	7.79	7.91	8.00	8.09
DESIGN LEVELS	7.76	7.71	7.66	7.61	7.56	7.51	7.46	7.45	7.50	7.56	7.63	7.70	7.79	7.89	7.99	8.09
CUT/FILL	0.01	0.00	0.02	-0.04	-0.01	-0.05	-0.06	-0.05	-0.01	0.01	-0.03	-0.02	0.00	-0.02	-0.01	0.00
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00

EX CLEVEDON ROAD
SCALE: HORI 1:500 VERT 1:100



DATUM 4.00m														
EXISTING LEVELS	8.09	8.18	8.25	8.33	8.36	8.36	8.33	8.31	8.28	8.28	8.29	8.27	8.20	8.15
DESIGN LEVELS	8.09	8.16	8.24	8.31	8.37	8.40	8.35	8.30	8.29	8.32	8.27	8.27	8.21	8.14
CUT/FILL	0.00	-0.02	-0.01	-0.01	0.01	0.03	0.01	-0.01	0.01	0.04	-0.02	0.00	0.01	0.00
CHAINAGE	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00	240.00	250.00	260.00	270.00	274.40

EX CLEVEDON ROAD CONTINUED
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

DATE: 4/21/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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Auckland 1023

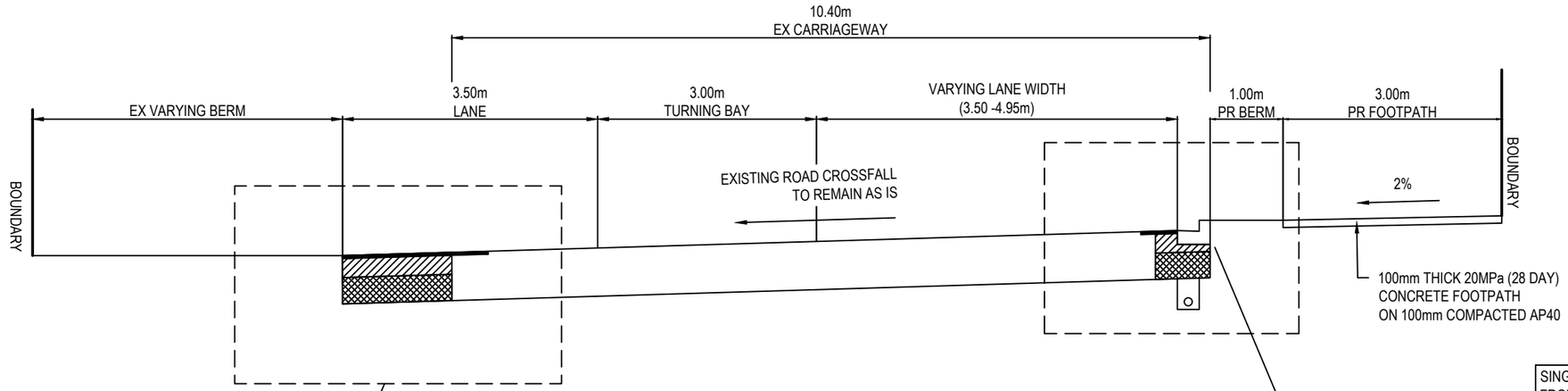
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROAD LONG-SECTION

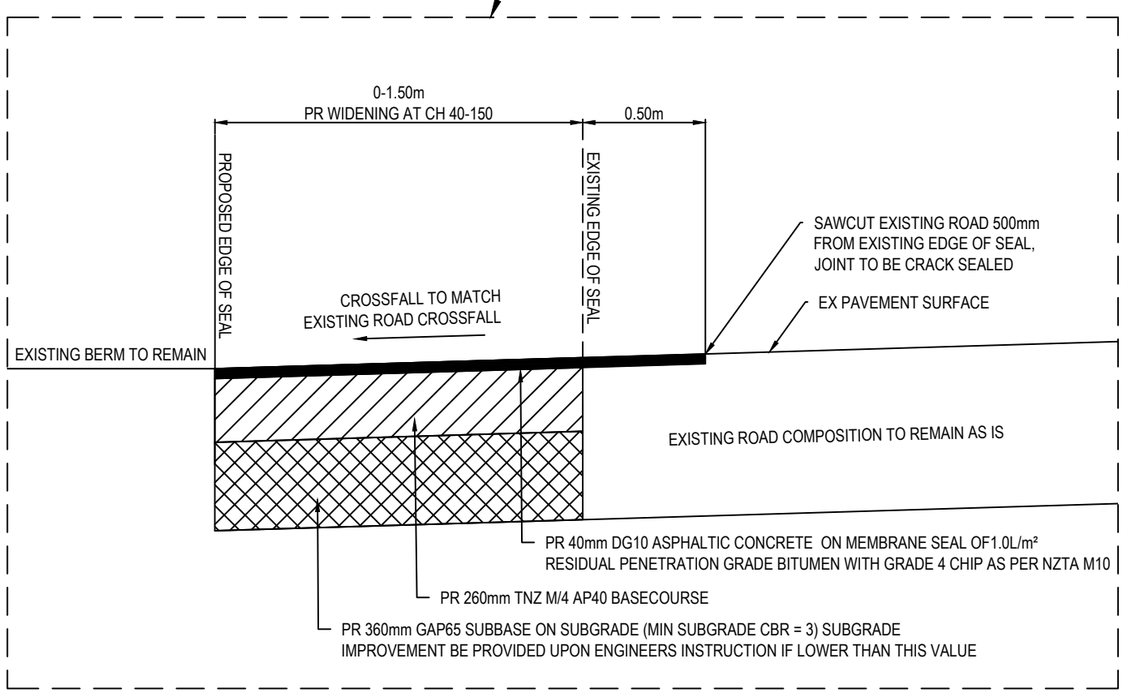
Project no.	194006		
Scale	AS SHOWN		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C308	Rev	H



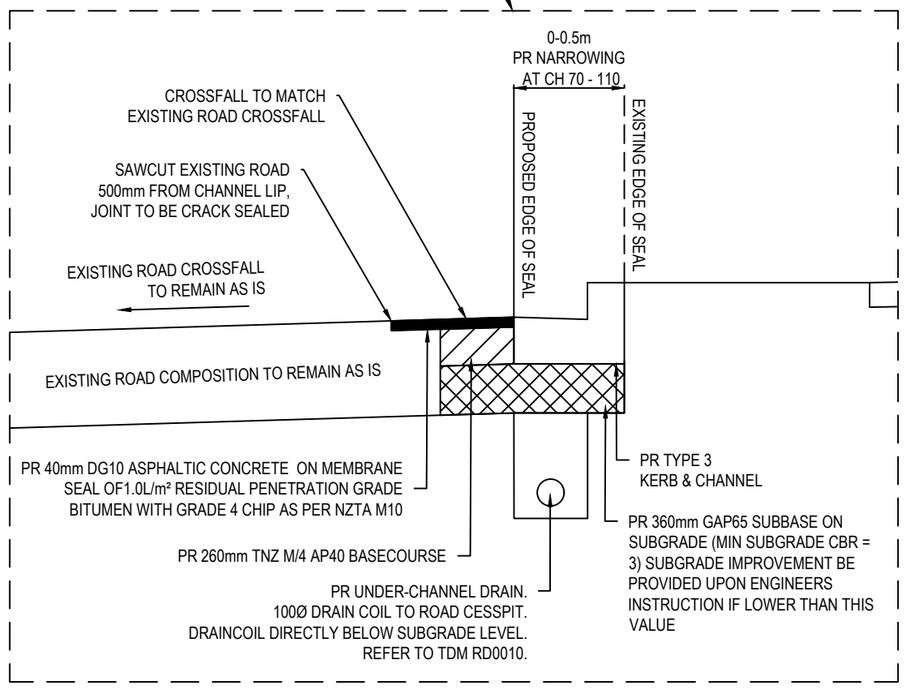
SINGLE CROSS FALL
FROM CH0 TO CH110

A / C306B TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD SINGLE CROSSFALL
SCALE 1:75 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0

BUN60399307
Approved Resource Consent Plan
01/09/2023



A1 TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD WIDENING (CH 40 - 150)
SCALE 1:25 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0



A2 TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD NARROWING (CH 70 - 110)
SCALE 1:25 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0

Papakura Clevedo Road	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	400	260	200
Subbase	-	360	200
Subbase (4-5% cement)	400	-	-

RESOURCE CONSENT

DATE: 4/12/23

Notes
1. All works to be in accordance with Auckland Council standards.
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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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www.maven.co.nz
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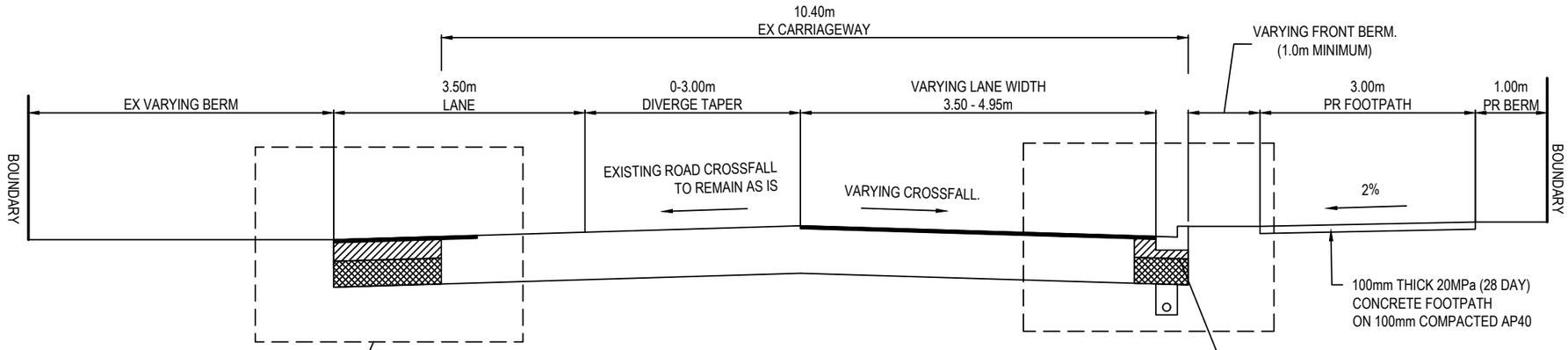
Auckland 1023

Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED PAPAKURA - CLEVEDON ROADING CROSS-SECTIONS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C340	Rev	H

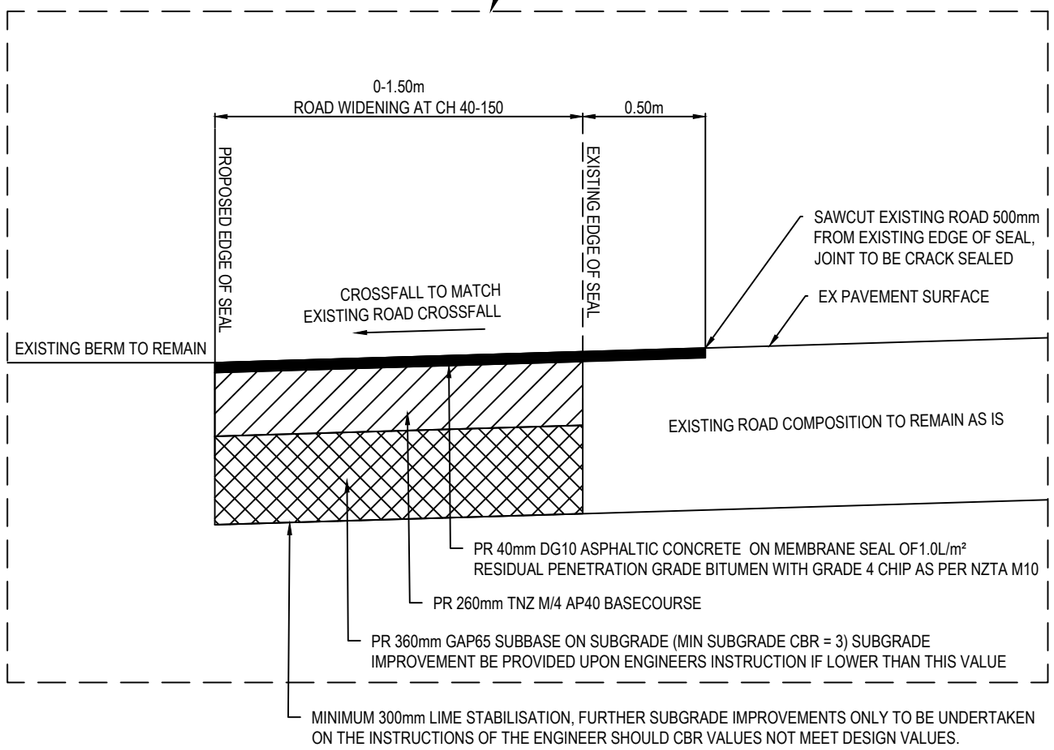


B
C306B

TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD DOUBLE CROSSFALL

SCALE 1:75 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0

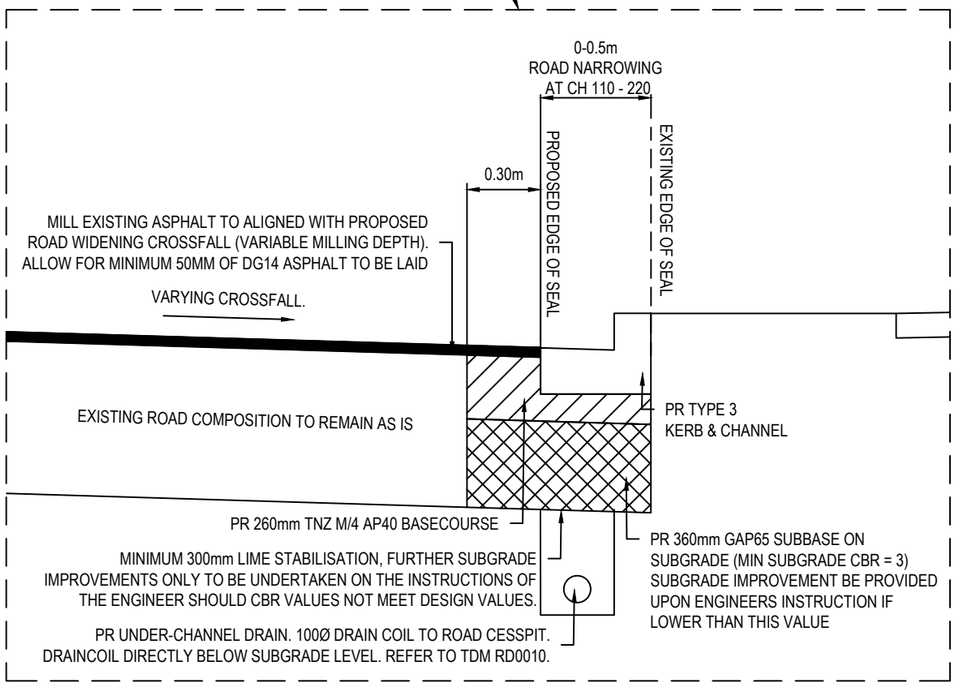
DOUBLE CROSS FALL
FROM CH110 TO CH270



B1

TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD WIDENING (CH 40 - 150)

SCALE 1:25 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0



B2

TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD NARROWING (CH 110 - 270)

SCALE 1:25 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0

Papakura Clevedo Road	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	400	260	200
Subbase	-	360	200
Subbase (4-5% cement)	400	-	-

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE: 4/12/23

Notes

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H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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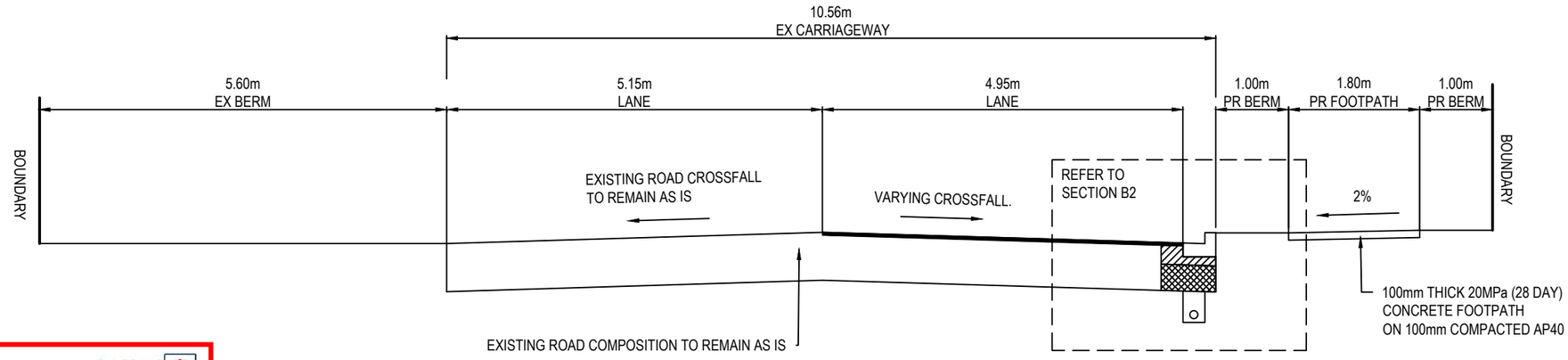
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED PAPAKURA - CLEVEDON ROADING CROSS-SECTIONS

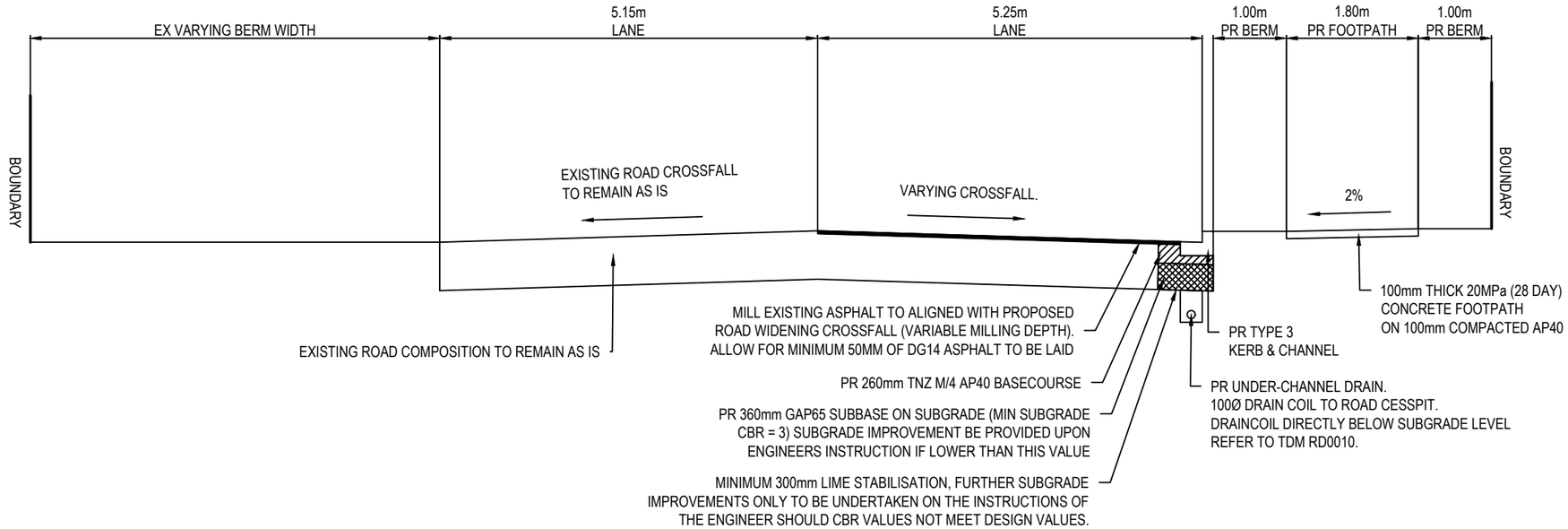
Project no.	194006
Scale	AS SHOWN
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG
Drawing no.	C341 Rev H



C
C306C

TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD

SCALE 1:75 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0



D
C306C

TYPICAL CROSS SECTION - CLEVEDON-PAPAKURA ROAD

SCALE 1:75 @ A3
DESIGN BASED ON MINIMUM CBR OF 3.0

Papakura Clevedo Road	(600mm lime stabilised CBR11%)	(300mm lime stabilised CBR11%)	
Natural CBR	CBR 2%	CBR 3%	CBR 4%
Base course	400	260	200
Subbase	-	360	200
Subbase (4-5% cement)	400	-	-

RESOURCE CONSENT

DATE: 4/12/23

BUN60399307

Approved Resource Consent Plan

01/09/2023

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G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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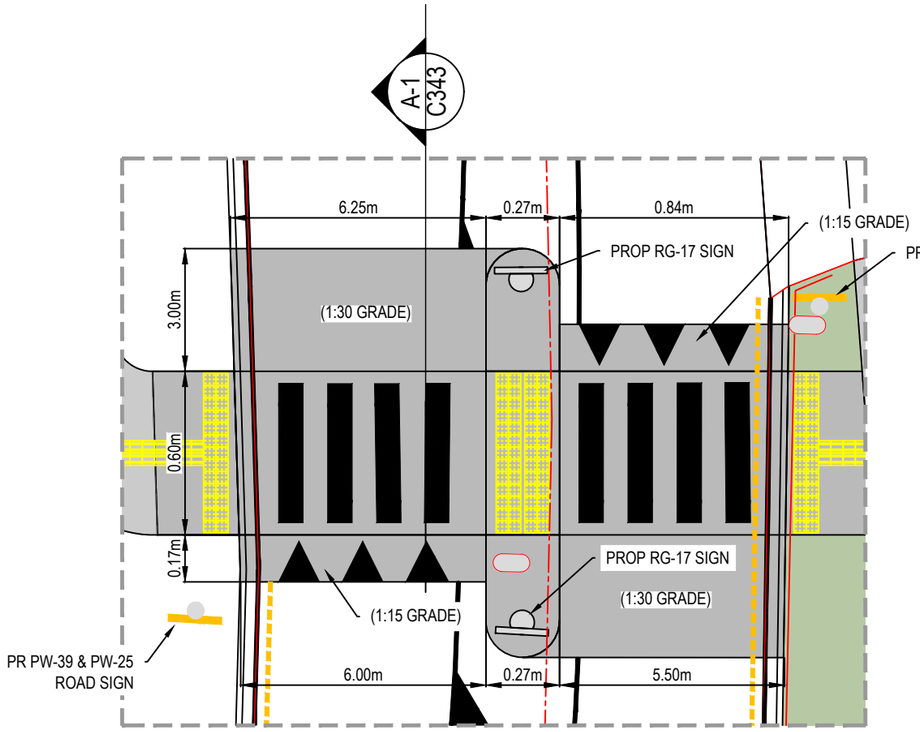
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

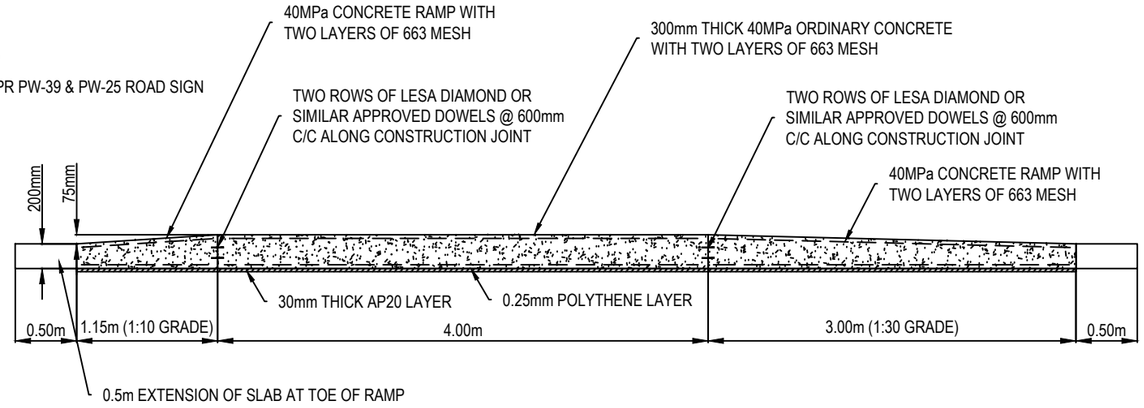
Title

PROPOSED PAPAKURA - CLEVEDON ROADING CROSS-SECTIONS

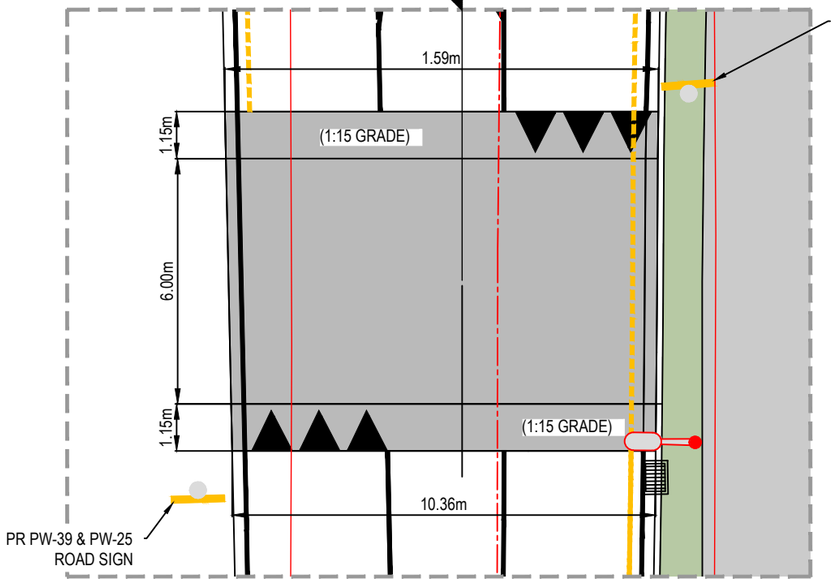
Project no.	194006		
Scale	AS SHOWN		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C342	Rev	H



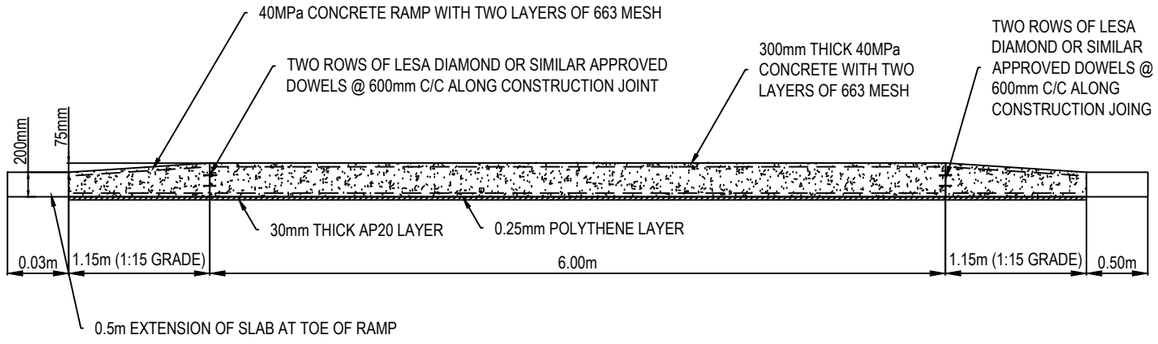
PROPOSED SWEDISH STYLE SPEED TABLE ON PAPAKURA-CLEVEDON ROAD.
SCALE 1:150 @ A3



PROPOSED SWEDISH STYLE SPEED TABLE SECTION A-1.
SCALE 1:50 @ A3



PROPOSED SPEED TABLE ON PAPAKURA-CLEVEDON ROAD.
SCALE 1:150 @ A3



PROPOSED SPEED TABLE SECTION B-1.
SCALE 1:50 @ A3

RESOURCE CONSENT

DATE: 4/12/23

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. The contractor shall comply with all relevant Health and Safety requirements.
5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Final pavement design subject to CBR/Beam tests on subgrade material.
7. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
8. Refer to long section for finished centreline levels. Refer to typical cross sections to obtain levels for other locations
9. All ducts shall have locations marked on kerb lines in accordance with specification.
10. Pram crossings are to be flush to the channel with no lip.
11. All kerb and channel to have sawcuts at max. 4m centres.
12. All kerbing, channels and edge beams shall have 4kg black oxide.
13. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
14. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
15. All line markings to be reflectorised in accordance with MOTSAM standards.
16. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
17. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.
18. All new, modified or upgraded pram crossings must be in accordance with RTS 14 Guidelines for Facilities for Blind and Vision-impaired Pedestrians and NZS/AS 1428.4 and must comply with the details provided in AT's Standard Plan No.FP006.

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022

	By	Date
Survey	-	-
Design	JV	12/2021
Drawn	ML	12/2021
Checked	JP	12/2021

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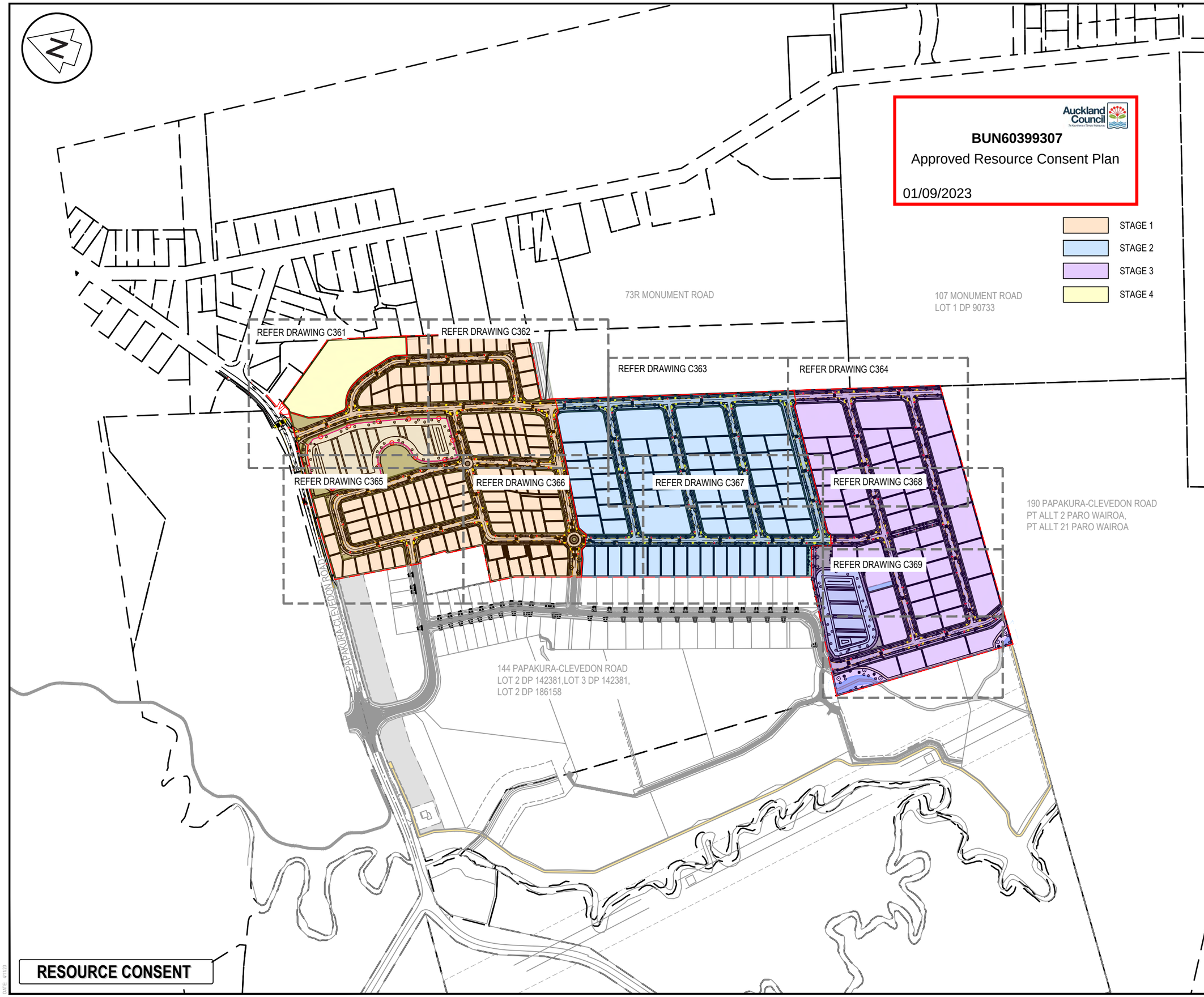
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED PAPAKURA - CLEVEDON ROAD SPEED TABLE DETAILS

Project no.	194006		
Scale	AS SHOWN		
Cad file	C305- ROADING INTERSECTION UPGRADE.DWG		
Drawing no.	C343	Rev	H



Notes

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5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
7. Pram crossings are to be flush to the channel with no lip.
8. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
9. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
10. All line markings to be reflectorised in accordance with MOTSAM standards.
11. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
12. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.

Line Marking

EX BDY	
PROP BDY	
PROP STAGE BDY	
PROP NAAST	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:5000@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C360	Rev	C

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

100mm WHITE PARKING LINES
TYPICAL SPEED HUMP (TC0001)
100mm WHTIE PARKING LINES
ROAD 2
100mm WHTIE PARKING LINES
TYPICAL SPEED HUMP (TC0001)
100mm WHTIE PARKING LINES
SOLID WHITE CENTERLINE
GIVE WAY SYMBOL
LIMIT LINE TO BE MARKED AT THE PROLONGATION OF THE KERB
ASPHALTIC CONCRETE SPEED CUSHION (TDM TC0007)
PAPAKURA-CLEVEDON ROAD
LIMIT LINE
30m SOLID WHITE CENTERLINE
ROAD 1
RELFECTORISED WHITE SHARED PATH MARKING
30m SOLID WHITE CENTERLINE
RELFECTORISED WHITE SHARED PATH MARKING
RELFECTORISED WHITE SHARED PATH MARKING
RG-17 SIGN
ZEBRA CROSSING
RG-17 SIGN
LIMIT LINE
FLUSH MEDIAN
NO STOPPING LINE
ASPHALTIC CONCRETE SPEED CUSHION (TDM TC0007)
PROPOSED GOBI PAVERS FOR GPT MAINTENANCE
MAINTENANCE TRUCK PARKING ONLY SIGN
30m SOLID WHITE CENTERLINE
GIVE WAY SYMBOL
LIMIT LINE
RELFECTORISED WHITE SHARED PATH MARKING

REFER TO PLANS C305 FOR ADDITIONAL ROAD MARKING & SIGNAGE PLANS FOR PAPAKURA - CLEVEDON ROAD.

RESOURCE CONSENT

DATE: 4/11/23

Notes

1. All works to be in accordance with Auckland Council standards.
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12. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.

Line Marking

EX BDY	
PROP BDY	
PROP STAGE BDY	
PROP NAAST	
CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C361	Rev	C

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

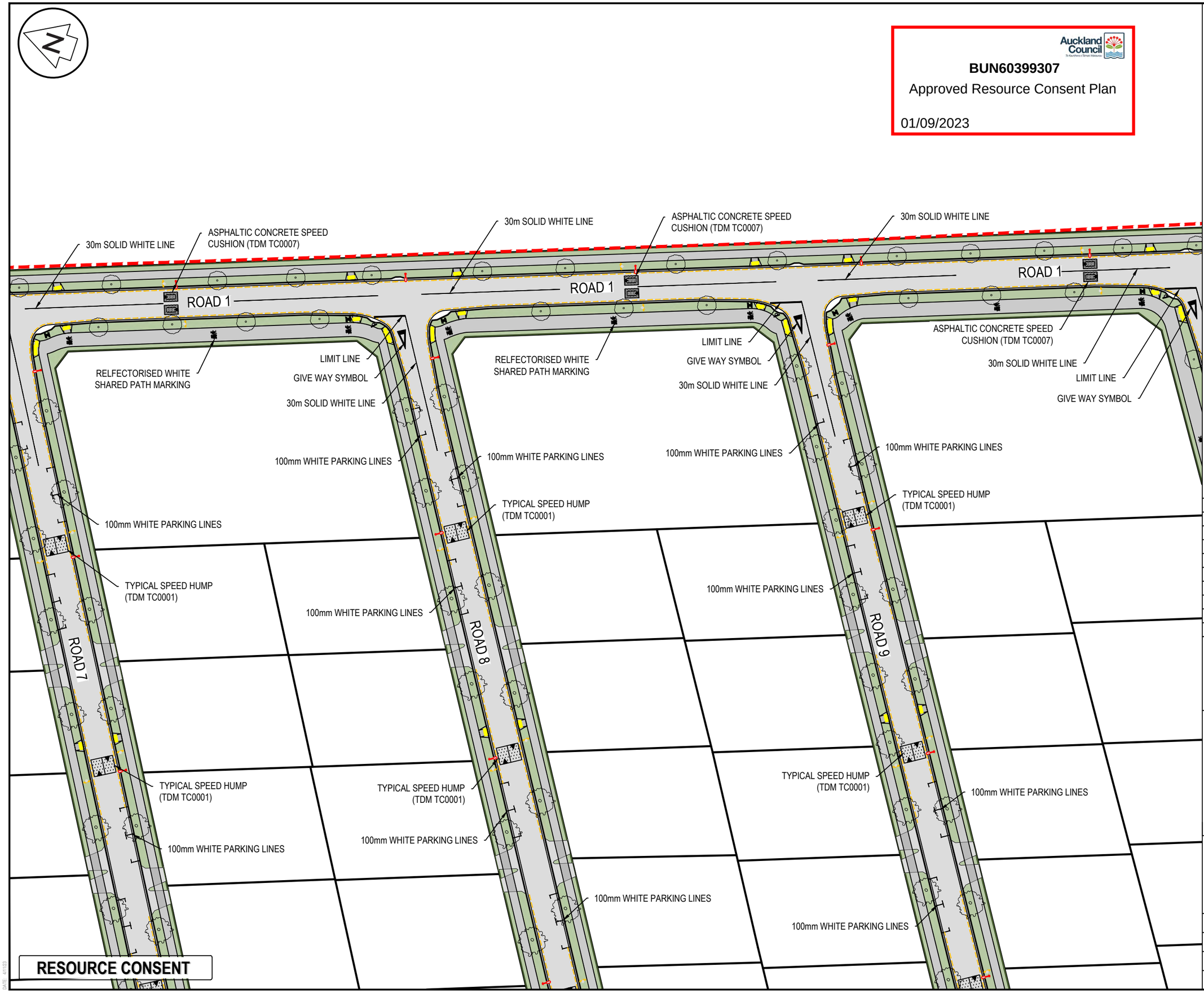
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C362	Rev	C

DATE: 21/12/2



BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1- WC100R (30m)
CENTER LINE 2- WC100R
NO STOPPING LINE- YI100R1x1
LIMIT LINE- WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

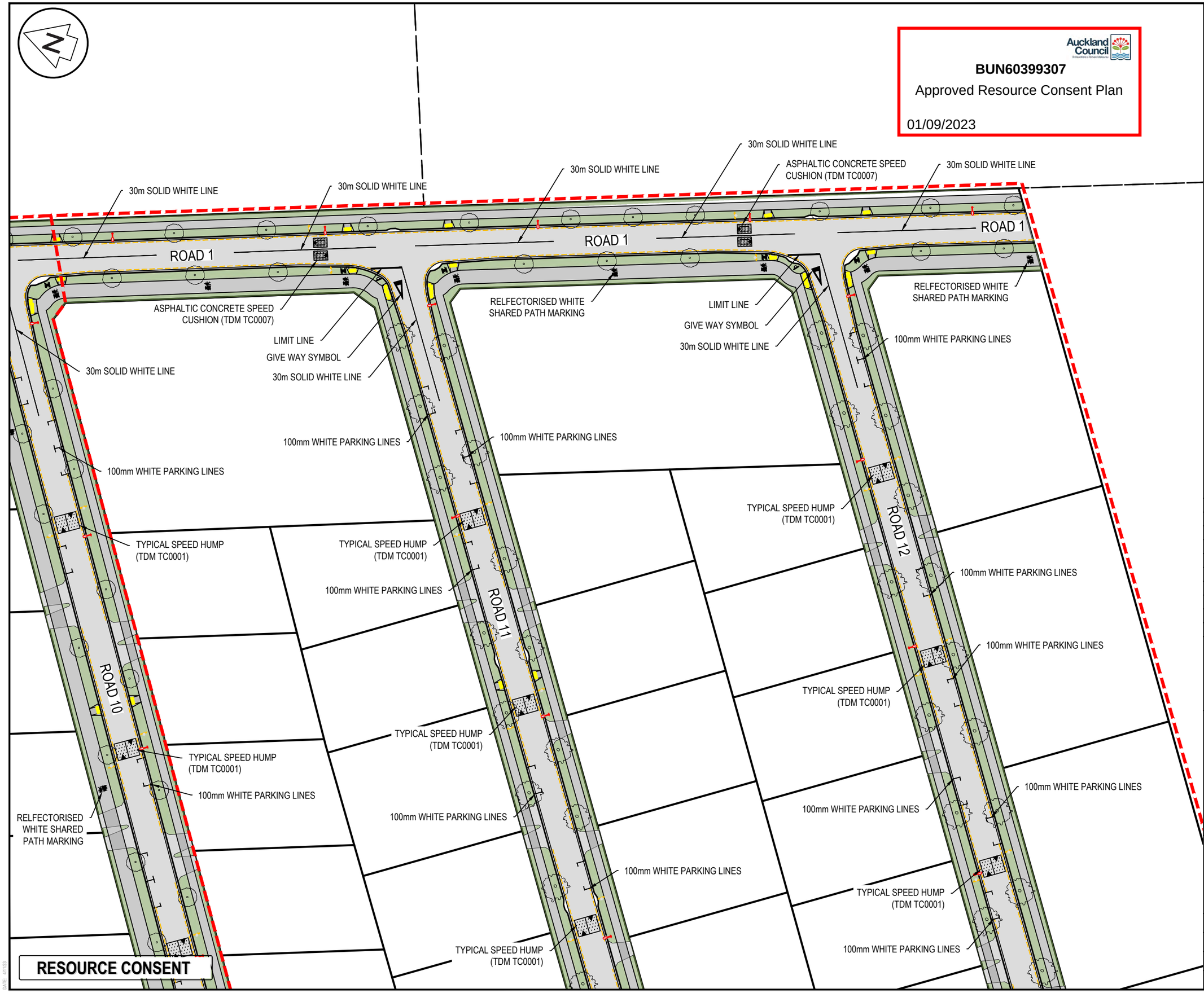
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C363	Rev	C

DATE: 4/11/23



BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

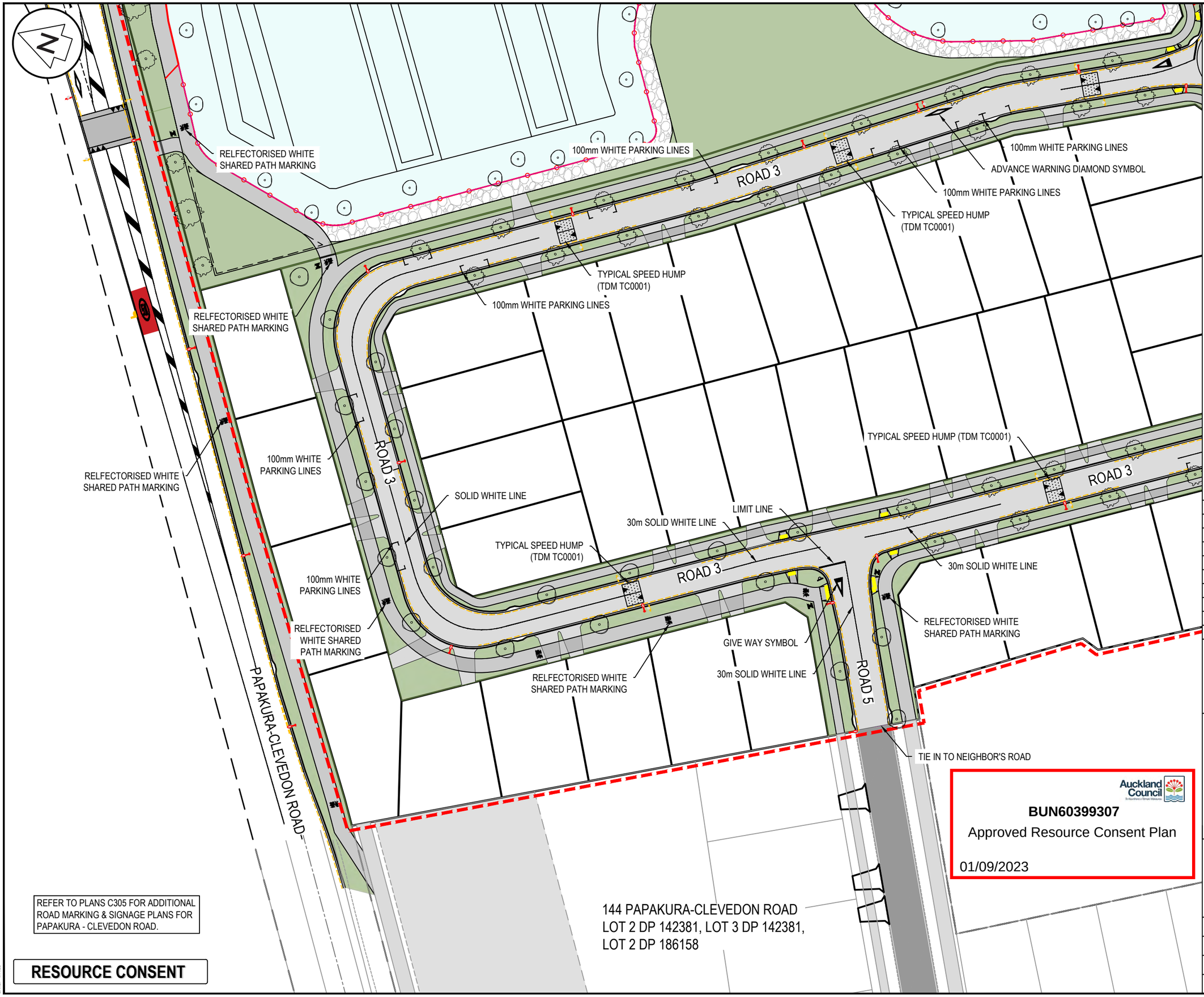
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C364	Rev	C

DATE: 4/11/23



REFER TO PLANS C305 FOR ADDITIONAL ROAD MARKING & SIGNAGE PLANS FOR PAPAKURA - CLEVEDON ROAD.

RESOURCE CONSENT

DATE: 4/11/23

Notes

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2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

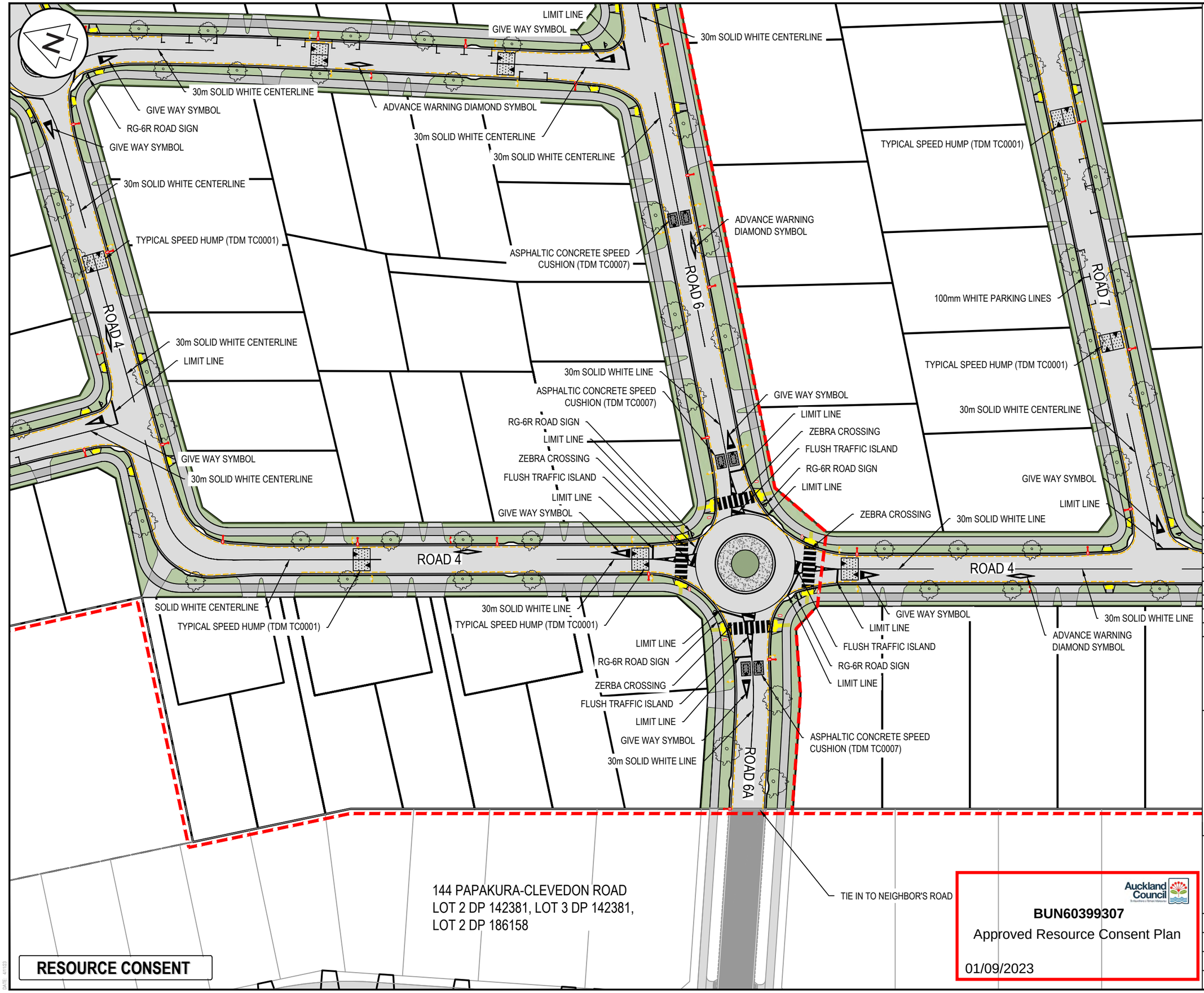
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C365	Rev	C



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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1- WC100R (30m)
CENTER LINE 2- WC100R
NO STOPPING LINE- YI100R1x1
LIMIT LINE- WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

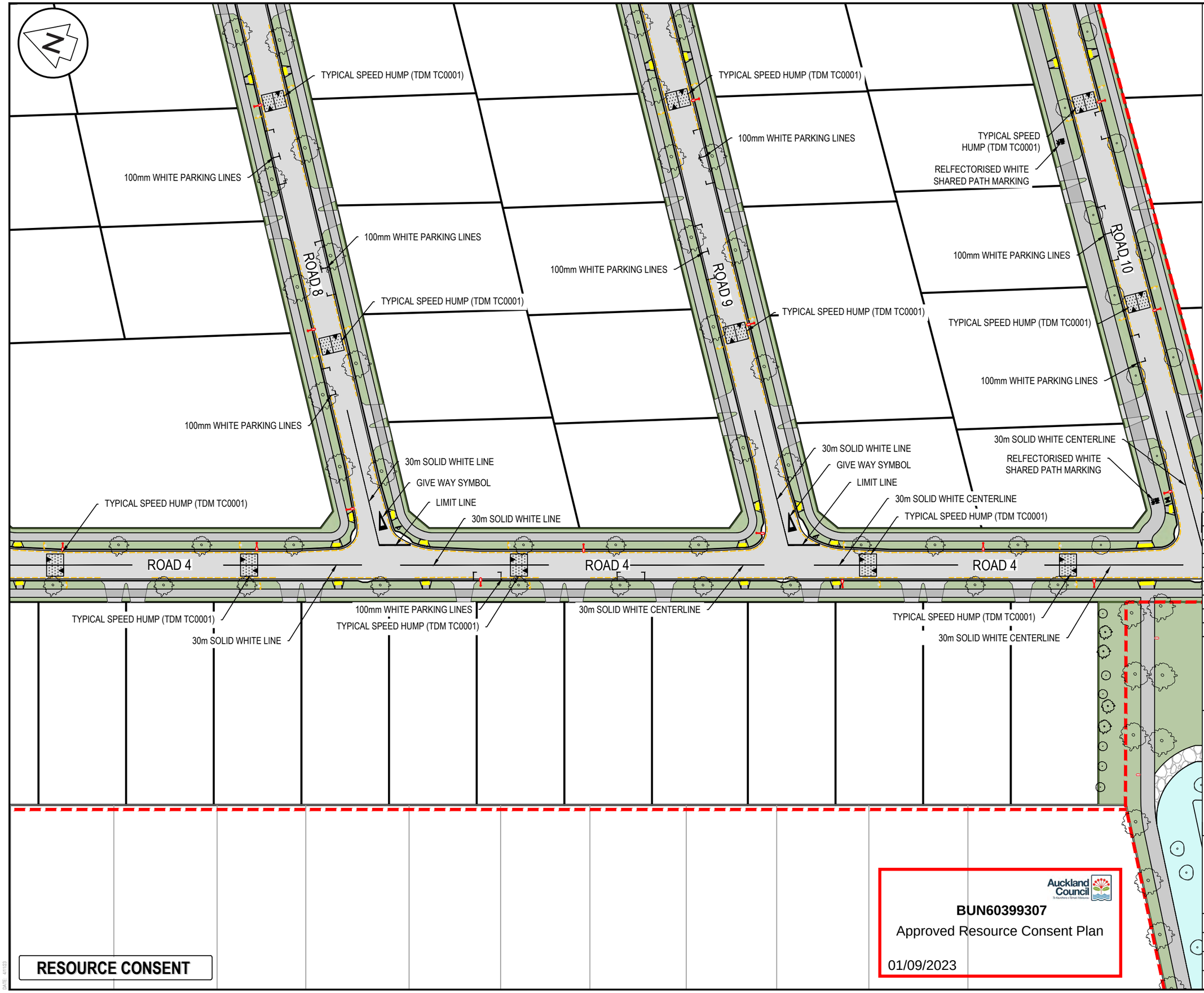
Project no.	194006
Scale	1:750@A3
Cad file	C360 - LINE MARKING PLAN.DWG
Drawing no.	C366 Rev C

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



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Line Marking

- EX BDY
- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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5 Owens Road, Epsom
Auckland 1023

Project

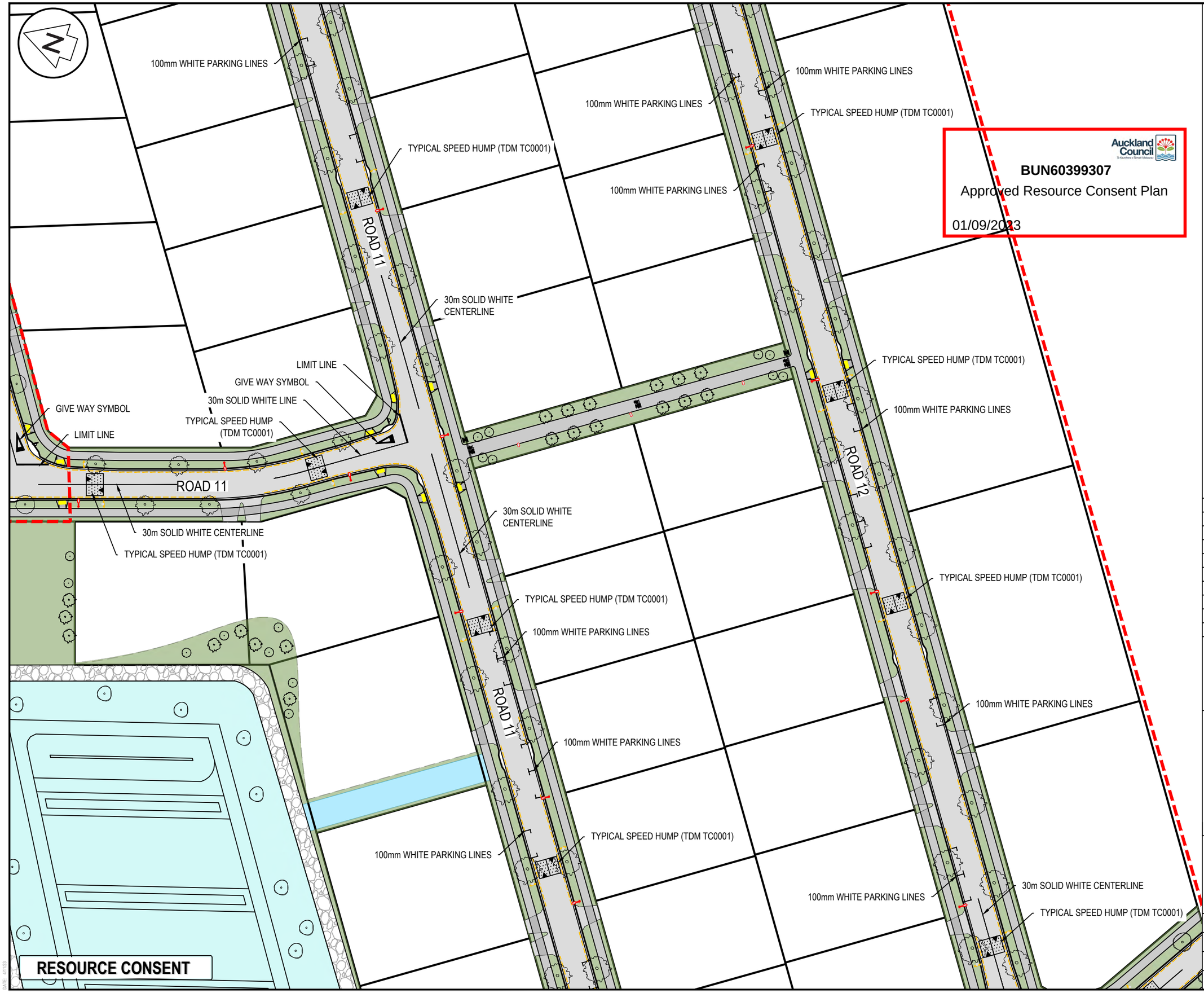
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C367	Rev	C

DATE 4/1/23



BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland Council standards.
2. Contractor is to avoid using GPS for set out of the kerb levels where gradients less than 1%.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. The contractor shall comply with all relevant Health and Safety requirements.
5. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
6. Setout schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
7. Pram crossings are to be flush to the channel with no lip.
8. All signage and pavement markings to be in accordance with NZTA MOTSAM standards and the ATCOP TCDM.
9. All street name signs shall follow ATCOP guidelines in terms of layout, clearances, and construction details.
10. All line markings to be reflectorised in accordance with MOTSAM standards.
11. The minimum vertical and lateral clearances for signage shall be in accordance with MOTSAM standards.
12. Street lighting shall be designed in accordance with all applicable New Zealand Standards including but not restricted to the current version of AS/NZS 1158 Lighting for Roads and Public Spaces series of standards.

Line Marking

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- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1- WC100R (30m)
CENTER LINE 2- WC100R
NO STOPPING LINE- YI100R1x1
LIMIT LINE- WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
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B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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Project

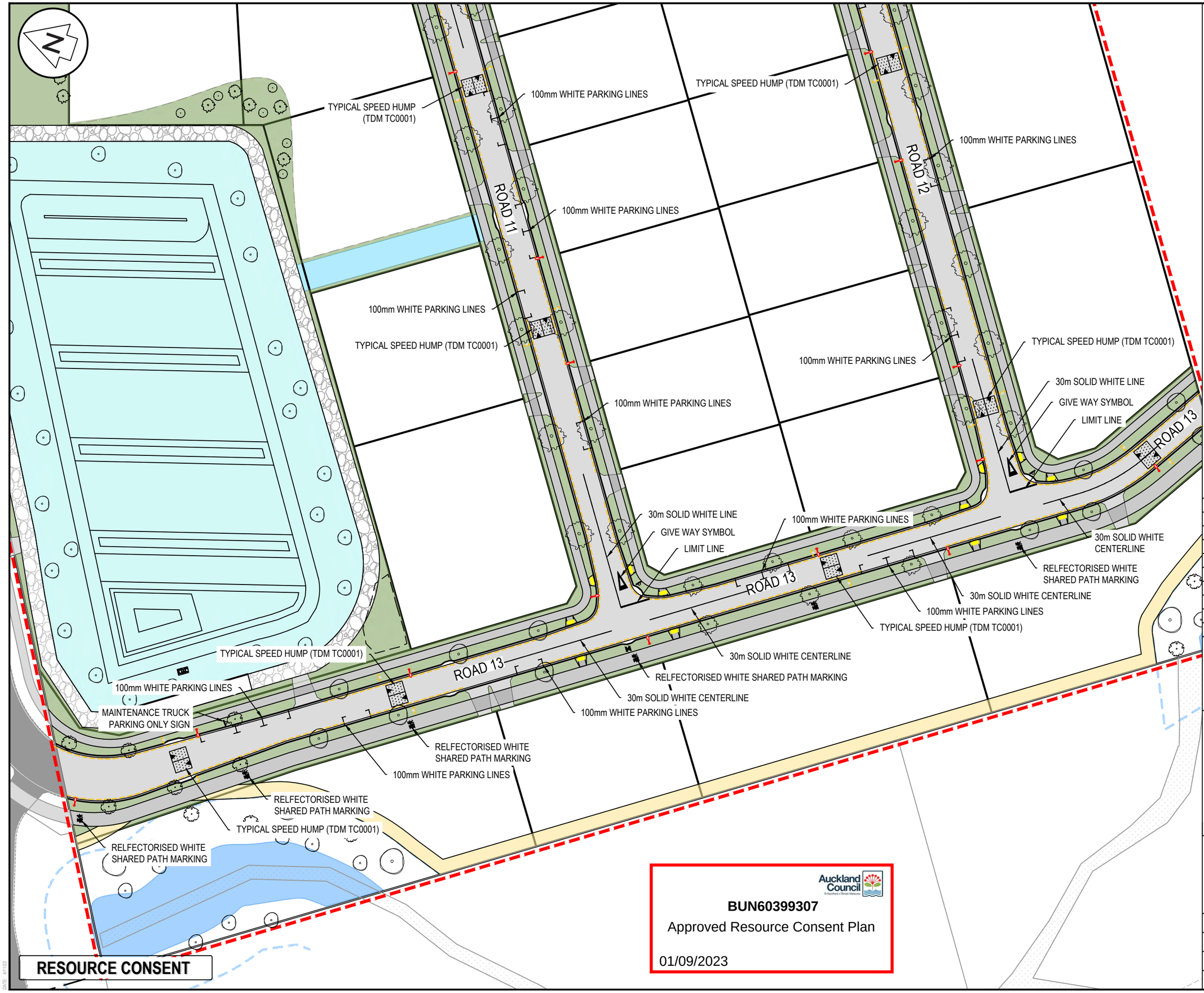
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C368	Rev	C

DATE: 4/11/23



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Line Marking

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- PROP BDY
- PROP STAGE BDY
- PROP NAAST

CENTER LINE 1-	WC100R (30m)
CENTER LINE 2-	WC100R
NO STOPPING LINE-	YI100R1x1
LIMIT LINE-	WC300R

Legend

- RG-6 GIVE WAY SIGN
- PW-39 & PW-30 ROAD SIGN
- PW-30 ROAD SIGN
- RG-28C ROAD SIGN
- TACTILE PAVERS
- SPEED CUSHION (TC0007)
- SPEED HUMP (TC0001)
- LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	RK	12/2021
Drawn	ML	10/2022
Checked	WM	10/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED ROAD MARKING & SIGNAGE PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C360 - LINE MARKING PLAN.DWG		
Drawing no.	C369	Rev	C

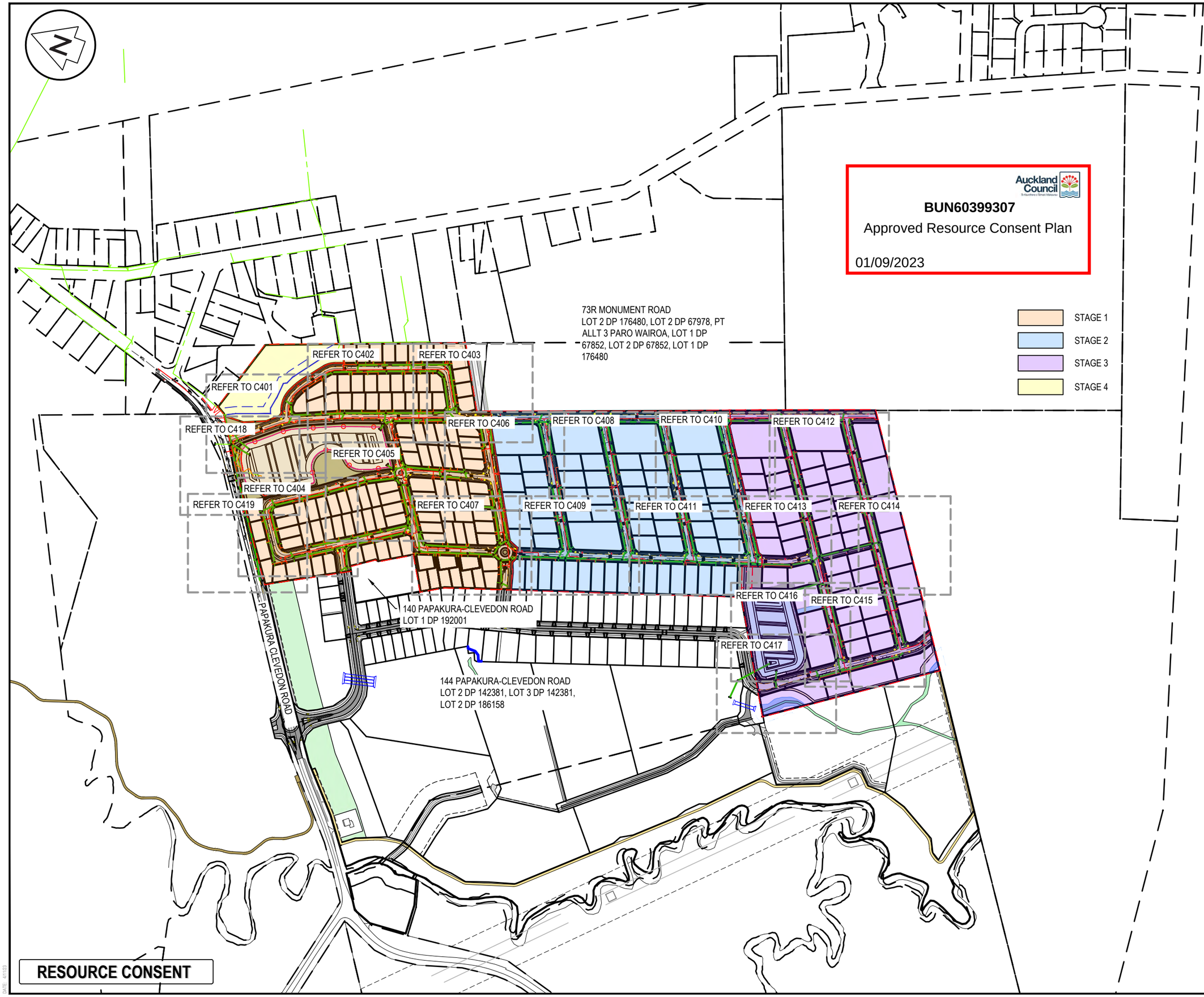
Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

DATE: 4/11/23



Auckland Council

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Approved Resource Consent Plan

01/09/2023

Notes

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6. All Manholes are to be 1050mmØ unless shown otherwise.
7. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.
8. All pipes are to be class 2 unless it is to be installed within the road reserve. In this case, the pipe is to be upgraded to class 4.

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN OVERVIEW

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C400	Rev	H

DATE: 4/11/23

BUN60399307

Approved Resource Consent Plan

01/09/2023

EX SWMH SAP ID 2000877853
LL=7.08
IL=5.73 (out)

EX 225mm SW CULVERT (SAP ID 2000655627) TO BE MAINTAINED

EX 525mm SW PIPE (SAP ID 2000315096) TO BE EXTENDED AND CONNECTED TO PROPOSED DOWNSTREAM SWMH POND 1

525mm RCRRJ @ 0.24%

CP 21-1B
LL=7.50
IL=6.16 (out)

225mm RCRRJ @ 2.50%

PROPOSED GPT IN MH 21-1
REFER TO PLAN C482 FOR DETAILS

PROP SWMH 21-1 (GPT)
LL=7.69
IL=6.07 (in)
IL=6.07 (in)
IL=6.07 (out)

225mm RCRRJ @ 1.00%

CP 21-1A
LL=7.50
IL=6.17 (out)

225mm RCRRJ @ 0.82%

PROP SWMH OUTLET 7-0
LL=6.52
IL=5.93 (in)

825mm RCRRJ @ 0.75%

PROP SWMH OUTLET 1
LL=6.98
IL=5.55 (out)

EX 825mm SW PIPE (SAP ID 2000107969) TO BE MAINTAINED.

825mm RCRRJ @ 0.30%

PROP SWMH POND 1 (2050mm)
LL=7.62
IL=5.63 (in)
IL=5.32 (in)
IL=6.05 (in)
IL=5.24 (out)

225mm RCRRJ @ 0.55%

EX 375mm SW PIPE (SAP ID 2000527236) TO BE REMOVED

EX 225mm SW PIPE (SAP ID 2000918137) TO BE REMOVED

PAPAKURA-CLEVEDON ROAD

ROAD 1

ROAD 2

CP 5-3A
LL=7.52
IL=6.44 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 5-3
LL=7.71
IL=6.36 (in)
IL=6.36 (in)
IL=6.31 (out)

CP 5-3B
LL=7.51
IL=6.39 (out)

300mm RCRRJ @ 1.00%

375mm RCRRJ @ 0.20%

PROP SWMH 6-5
LL=7.93
IL=6.95 (out)

450mm RCRRJ @ 0.20%

PROP SWMH 5-2 (1200mm)
LL=7.97
IL=6.46 (in)
IL=6.28 (in)
IL=6.21 (out)

225mm RCRRJ @ 1.00%

CP 5-2A
LL=7.91
IL=6.58 (out)

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

RESOURCE CONSENT

DATE: 4/1/23

Notes

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2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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5. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
6. All Manholes are to be 1050mmØ unless shown otherwise.
7. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.
8. All pipes are to be class 2 unless it is to be installed within the road reserve. In this case, the pipe is to be upgraded to class 4.

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C401	Rev	H

EX 375mm SW CULVERT (SAP ID 2000771995) TO BE MAINTAINED.

PROP SWMH 4-6 (1200mm)
LL=8.47
IL=6.90 (in)
IL=6.97 (in)
IL=6.85 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 4-5 (1200mm)
LL=9.43
IL=6.70 (in)
IL=7.91 (in)
IL=7.85 (in)
IL=6.62 (out)

PROP SWMH 6-4
LL=8.02
IL=6.90 (in)
IL=6.85 (out)

CP 4-6A
LL=8.32
IL=6.99 (out)

450mm RCRRJ @ 0.20%

CP 4-5A
LL=9.26
IL=7.93 (out)

225mm RCRRJ @ 1.00%

225mm RCRRJ @ 1.00%

525mm RCRRJ @ 0.15%

ROAD 2

CP 4-6B
LL=8.31
IL=6.98 (out)

PROP SWMH 6-3 (1200mm)
LL=9.00
IL=6.73 (in)
IL=6.66 (out)

CP 4-5B
LL=9.26
IL=7.93 (out)

300mm RCRRJ @ 0.30%

600mm RCRRJ @ 0.15%

PROP SWMH 6-5
LL=7.93
IL=6.95 (out)

BUN60399307

Approved Resource Consent Plan

01/09/2023

PROP SWMH 5-1 (1500mm)
LL=8.49
IL=6.06 (in)
IL=6.88 (in)
IL=6.93 (in)
IL=5.98 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 4-0 (1800mm)
LL=8.79
IL=5.89 (in)
IL=7.25 (in)
IL=5.87 (in)
IL=5.79 (out)

225mm RCRRJ @ 1.00%

CP 4-0A
LL=8.61
IL=7.28 (out)

PROP SWMH 4-1 (1500mm)
LL=9.1
IL=6.08 (i
IL=6.03 (ou

750mm RCRRJ @ 0.25%

450mm RCRRJ @ 0.20%

CP 5-1A
LL=8.30
IL=6.97 (out)

525mm RCRRJ @ 0.15%

ROAD 1

825mm RCRRJ @ 3.50%

CP 1-2A
LL=8.65
IL=7.32 (out)

ROAD 1

225mm RCRRJ @ 1.00%

825mm RCRRJ @ 0.25%

225mm RCRRJ @ 1.00%

825mm RCRRJ @ 0.60%

CP 5-1B
LL=8.30
IL=6.97 (out)

PROP SWMH 1-1 (2300mm)
LL=8.72
IL=5.91 (in)
IL=5.76 (in)
IL=5.67 (out)

1050mm RCRRJ @ 0.25%

PROP SWMH 1-2 (1800mm)
LL=8.78
IL=6.44 (in)
IL=7.29 (in)
IL=6.39 (out)

PROP SWMH OUTLET 1-0
LL=7.15
IL=5.65 (in)

ROAD 4

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

RESOURCE CONSENT

DATE 4/12/23

Notes

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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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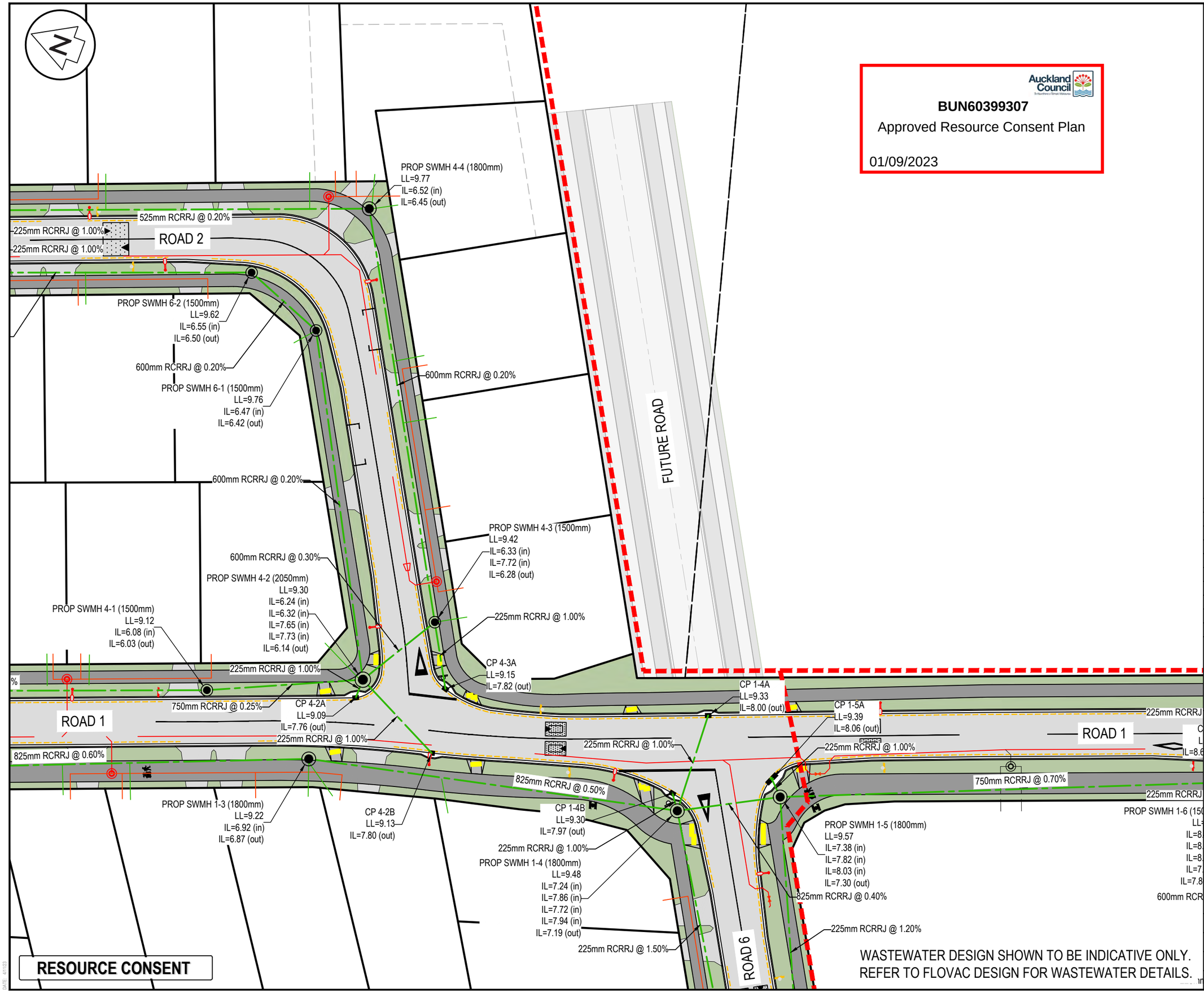
Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C402
Rev	H



Auckland Council

BUN60399307

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	By	Date
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Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C403 Rev H

DATE: 4/11/23

SWMH 19-1
9 (in)
=6.34 (in)
IL=6.34 (out)

225mm RCRRJ @ 0.50%

CP 7-3B
LL=8.09
IL=6.76 (out)

CP 7-3A
LL=8.08
IL=6.76 (out)

225mm RCRRJ @ 1.00%
225mm RCRRJ @ 1.00%

300mm RCRRJ @ 0.60%

PROP SWMH 7-4
LL=8.39
IL=6.82 (in)
IL=6.77 (out)

PROP SWMH 19-2
LL=8.37
IL=6.69 (in)
IL=6.69 (in)
IL=6.64 (out)

225mm RCRRJ @ 5.00%

CP 19-2A
LL=8.17
IL=6.90 (out)

225mm RCRRJ @ 0.40%

300mm RCRRJ @ 0.50%

675mm RCRRJ @ 0.20%

PROP SWMH 7-3 (1200mm)
LL=8.24
IL=6.68 (in)
IL=6.66 (in)
IL=6.74 (in)
IL=6.75 (in)
IL=6.45 (out)

375mm RCRRJ @ 1.00%

PROP SWMH 7-3-1
LL=8.35
IL=6.91 (in)
IL=6.86 (out)

300mm RCRRJ @ 0.60%

PROP SWMH 7-3-2
LL=8.64
IL=7.19 (out)

CP 9-4B
LL=8.64
IL=7.31 (out)

PROP SWMH 8-4
LL=8.99
IL=7.53 (out)

ROAD 3

225mm RCRRJ @ 1.00%

525mm RCRRJ @ 0.20%

PROP SWMH 19-3
LL=8.46
IL=7.00 (in)
IL=7.00 (in)
IL=6.95 (out)

CP 19-3A
LL=8.27
IL=7.04 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 7-5
LL=8.86
IL=7.20 (out)

225mm RCRRJ @ 1.00%

CP 9-4A
LL=8.64
IL=7.31 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 9-4
LL=8.83
IL=7.22 (in)
IL=7.27 (in)
IL=7.14 (out)

CP 19-3B
LL=8.24

CP 7-2B
LL=7.68
IL=6.35 (out)

225mm RCRRJ @ 1.00%

675mm RCRRJ @ 0.25%

CP 7-2A
LL=7.68
IL=6.35 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 7-2 (1500mm)
LL=7.85
IL=6.29 (in)
IL=6.33 (in)
IL=6.27 (in)
IL=6.22 (out)

CP 7-1
LL=7.9
IL=6.59 (ou

225mm RCRR
PROP SWMH

PROP SWMH 9-2 (1500mm)
LL=9.16
IL=6.91 (in)
IL=6.98 (in)
IL=6.76 (out)

PROP SWMH 8-3
LL=9.28
IL=7.35 (in)
IL=7.28 (out)

300mm RCRRJ @ 0.30%

ROAD 3

525mm RCRRJ @ 0.20%

PROP SWMH 9-3
LL=9.15
IL=7.02 (in)
IL=6.94 (out)

450mm RCRRJ @ 0.30%

ROAD 5

PROP SWMH 9-2-1
LL=8.97
IL=7.41 (in)
IL=7.35 (in)
IL=7.07 (out)

225mm RCRRJ @ 1.00%

CP 9-2-1A
LL=8.78
IL=7.45 (out)

225mm RCRRJ @ 1.00%

CP 9-2-1B
LL=8.79
IL=7.46 (out)

RESOURCE CONSENT

DATE: 4/11/23

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Legend

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- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Auckland 1023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C404	Rev	H

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

PROP SWMH 3-1-2
LL=8.49
IL=7.02 (out)

225mm RCRRJ @ 0.70%

ROAD 4

PROP SWMH 3-1-1
LL=8.38
IL=6.87 (in)
IL=6.78 (out)

525mm RCRRJ @ 0.30%
300mm RCRRJ @ 0.20%
PROP SWMH 3-1 (1500mm)
LL=8.40
IL=6.62 (in)
IL=6.81 (in)
IL=6.83 (in)
IL=6.77 (in)
IL=6.55 (out)

450mm RCRRJ @ 0.40%
PROP SWMH 3-2
LL=8.67
IL=6.97 (in)
IL=6.97 (in)
IL=6.82 (out)

300mm RCRRJ @

PROP SWMH OUTLET 2-0
LL=7.14
IL=5.65 (in)

225mm RCRRJ @ 1.00%

CP 3-1A
LL=8.19
IL=6.86 (out)

PROP SWMH 2-1 (2550mm)
LL=8.35
IL=6.81 (in)
IL=5.72 (in)
IL=6.50 (in)
IL=5.67 (out)

1350mm RCRRJ @ 0.20%

225mm RCRRJ @ 1.00%

1350mm RCRRJ @ 0.35%

CP 2-1A
LL=8.17
IL=6.84 (out)

ROAD 3

225mm RCRRJ @ 1.00%

CP 7-1B
LL=7.92
IL=6.59 (out)

225mm RCRRJ @ 1.00%

CP 2-2A
LL=8.30
IL=6.97 (out)

CP 3-1B
LL=8.28
IL=6.95 (out)

300mm RCRRJ @ 0.30%

PROP SWMH 3-2-1
LL=8.68
IL=7.08 (in)
IL=7.00 (out)

CP 7-1A
LL=7.92
IL=6.59 (out)

825mm RCRRJ @ 0.15%

CP 7-2B
LL=7.68
IL=6.35 (out)

ROAD 3

225mm RCRRJ @ 1.00%

675mm RCRRJ @ 0.25%

225mm RCRRJ @ 1.00%

PROP SWMH 7-1 (1500mm)
LL=8.09
IL=6.08 (in)
IL=6.56 (in)
IL=6.51 (in)
IL=5.93 (out)

PROP SWMH 2-2 (2550mm)
LL=8.48
IL=5.87 (in)
IL=6.94 (in)
IL=5.82 (in)
IL=5.77 (out)

PROP SWMH 2-4 (2300mm)
LL=8.51
IL=6.07 (in)
IL=6.02 (out)

PROP SWMH 7-2 (1500mm)
LL=7.85
IL=6.29 (in)
IL=6.33 (in)
IL=6.27 (in)
IL=6.22 (out)

1350mm RCRRJ @ 0.25%

PROP SWMH 2-3 (2300mm)
LL=8.50
IL=6.30 (in)
IL=5.99 (in)
IL=5.85 (out)

1200mm RCRRJ @ 0.30%

825mm RCRRJ @ 0.15%

PROP SWMH 8-1 (1500mm)
LL=8.80
IL=6.42 (in)
IL=6.37 (out)

1200mm RCRRJ @ 0.30%

ROAD 4

825mm RCRRJ @ 0.15%

CP 8-2A
LL=8.68
IL=7.35 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 8-2 (1800mm)
LL=8.86
IL=6.86 (in)
IL=7.31 (in)
IL=6.52 (in)
IL=7.28 (in)
IL=6.44 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 2-5 (1800mm)
LL=8.91
IL=7.43 (in)
IL=6.33 (in)
IL=6.28 (out)

675mm RCRRJ @ 0.20%

PROP SWMH 9-2 (1500mm)
LL=9.16
IL=6.91 (in)
IL=6.98 (in)
IL=6.76 (out)

PROP SWMH 8-3
LL=9.28
IL=7.35 (in)
IL=7.28 (out)

375mm RCRRJ @ 0.50%

CP 8-2B
LL=8.71
IL=7.38 (out)

ROAD 3

PROP SWMH 9-1 (1500mm)
LL=8.92
IL=6.59 (in)
IL=6.54 (out)

300mm RCRRJ @ 0.40%

225mm RCRRJ @ 1.00%

PROP SWMH 2-5-1
LL=9.00

675mm RCRRJ @ 0.20%

PROP

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/12/23

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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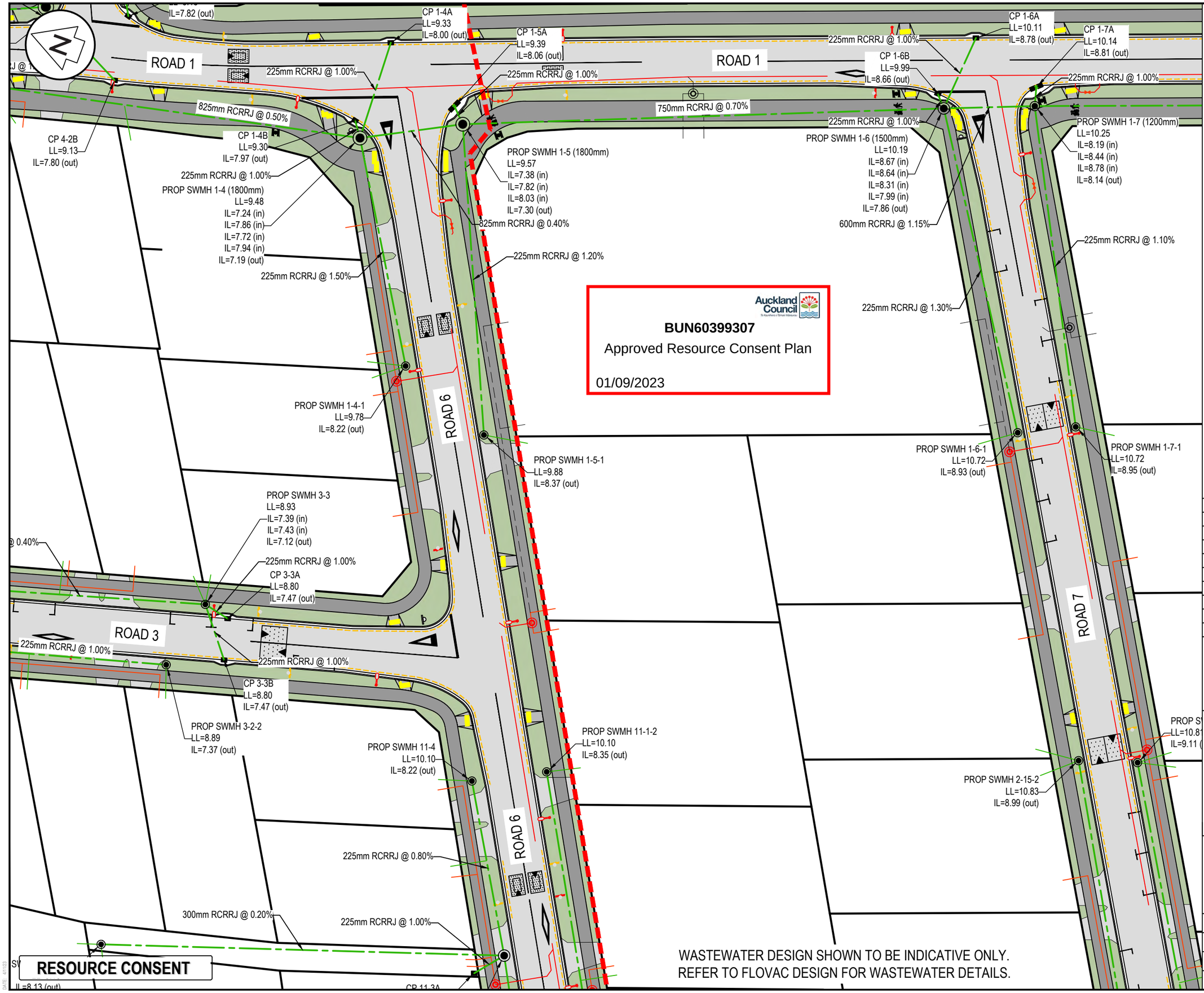
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C405	Rev	H



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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
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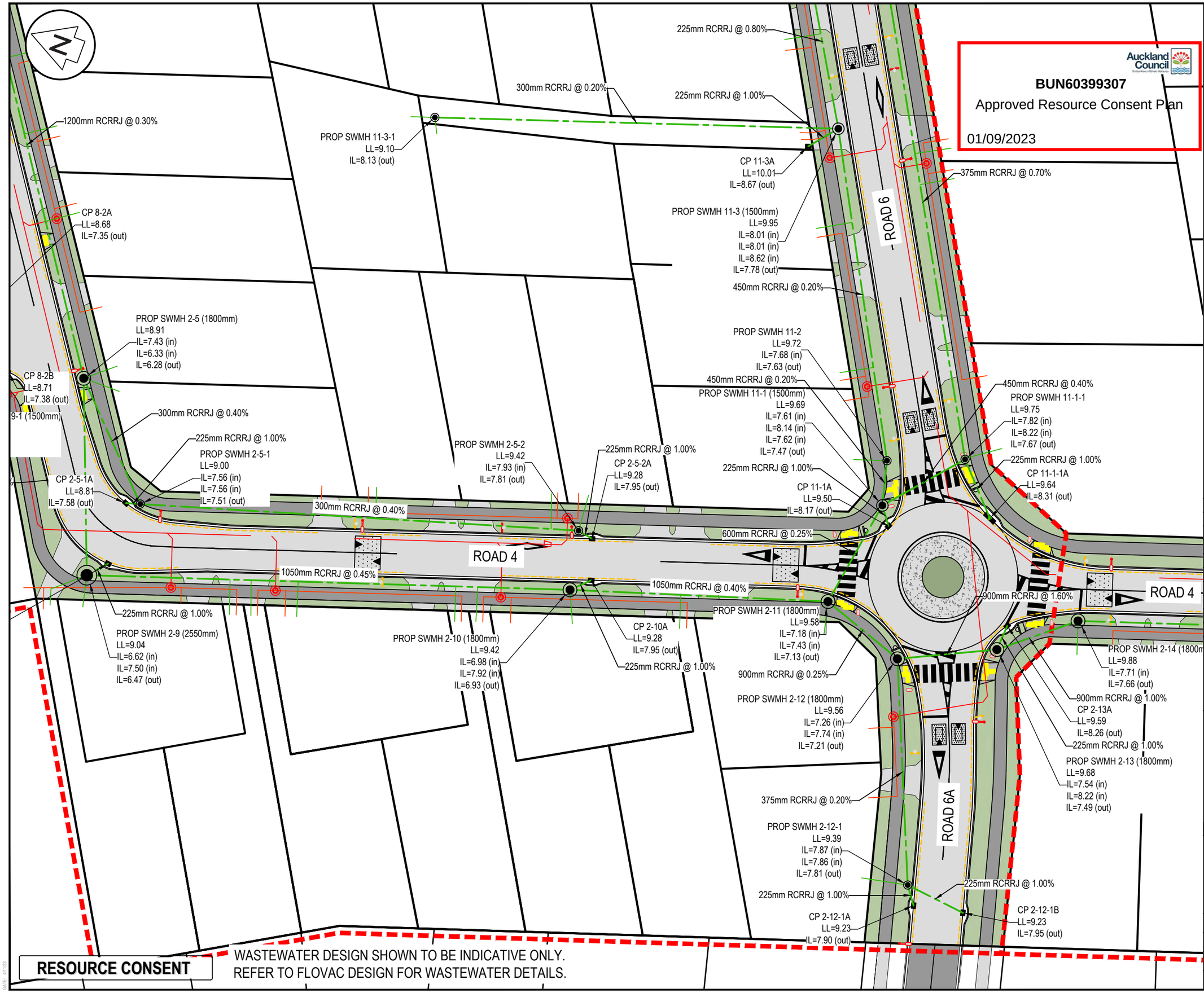
Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C406 Rev H

DATE 4/1/23



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
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F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
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Title

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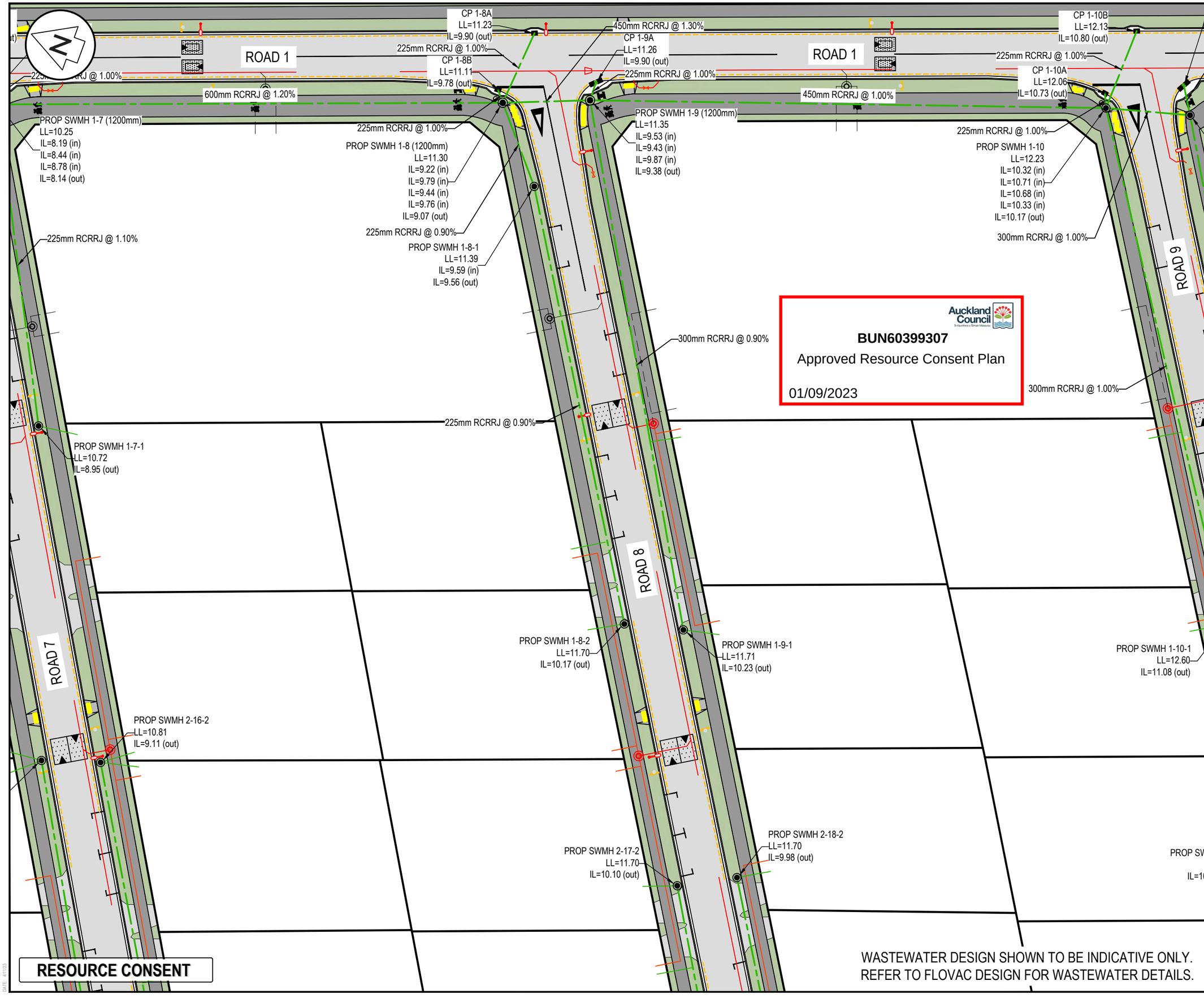
Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C407	Rev	H



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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C408	Rev	H

DATE: 4/11/23

PROP SWMH 2-15-2
LL=10.83
IL=8.99 (out)

ROAD 7

450mm RCRRJ @ 0.50%

375mm RCRRJ @ 0.50%

PROP SWMH 2-17-2
LL=11.70
IL=10.10 (out)

PROP SWMH 2-18-2
LL=11.70
IL=9.98 (out)

ROAD 8

300mm RCRRJ @ 0.70%

300mm RCRRJ @ 1.10%

PROP SWMH 2-16-1
LL=10.36
IL=8.66 (in)
IL=8.84 (in)
IL=8.59 (out)

225mm RCRRJ @ 1.00%

CP 2-16-1A
LL=10.20
IL=8.87 (out)

PROP SWMH 2-15-1
LL=10.37
IL=8.54 (in)
IL=8.85 (in)
IL=8.47 (out)

225mm RCRRJ @ 1.00%

CP 2-15-1A
LL=10.20
IL=8.87 (out)

ROAD 4

450mm RCRRJ @ 0.40%

900mm RCRRJ @ 0.60%

450mm RCRRJ @ 0.40%

675mm RCRRJ @ 0.70%

PROP SWMH 2-17-1
LL=11.11
IL=9.28 (in)
IL=9.59 (in)
IL=9.21 (out)

225mm RCRRJ @ 1.00%

CP 2-17-1A
LL=10.95
IL=9.62 (out)

ROAD 4

375mm RCRRJ @ 0.30%

PROP SWMH 2-14 (1800mm)
LL=9.88
IL=7.71 (in)
IL=7.66 (out)

PROP SWMH 2-15 (1800mm)
LL=10.34
IL=8.14 (in)
IL=8.41 (in)
IL=8.05 (out)

825mm RCRRJ @ 0.85%

CP 2-16A
LL=10.24
IL=8.91 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 2-16 (1500mm)
LL=10.42
IL=8.37 (in)
IL=8.88 (in)
IL=8.53 (in)
IL=8.23 (out)

PROP SWMH 2-17 (1500mm)
LL=11.07
IL=9.07 (in)
IL=9.16 (in)
IL=8.94 (out)

525mm RCRRJ @ 1.75%

CP 2-18A
LL=10.97
IL=9.64 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 2-18 (12
LL=11.15
IL=9.28 (in)
IL=9.30 (in)
IL=9.62 (in)
IL=9.23 (out)

375mm RCRRJ @ 0.

RESOURCE CONSENT

DATE: 4/11/23

Auckland Council

BUN60399307

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01/09/2023

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
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Project

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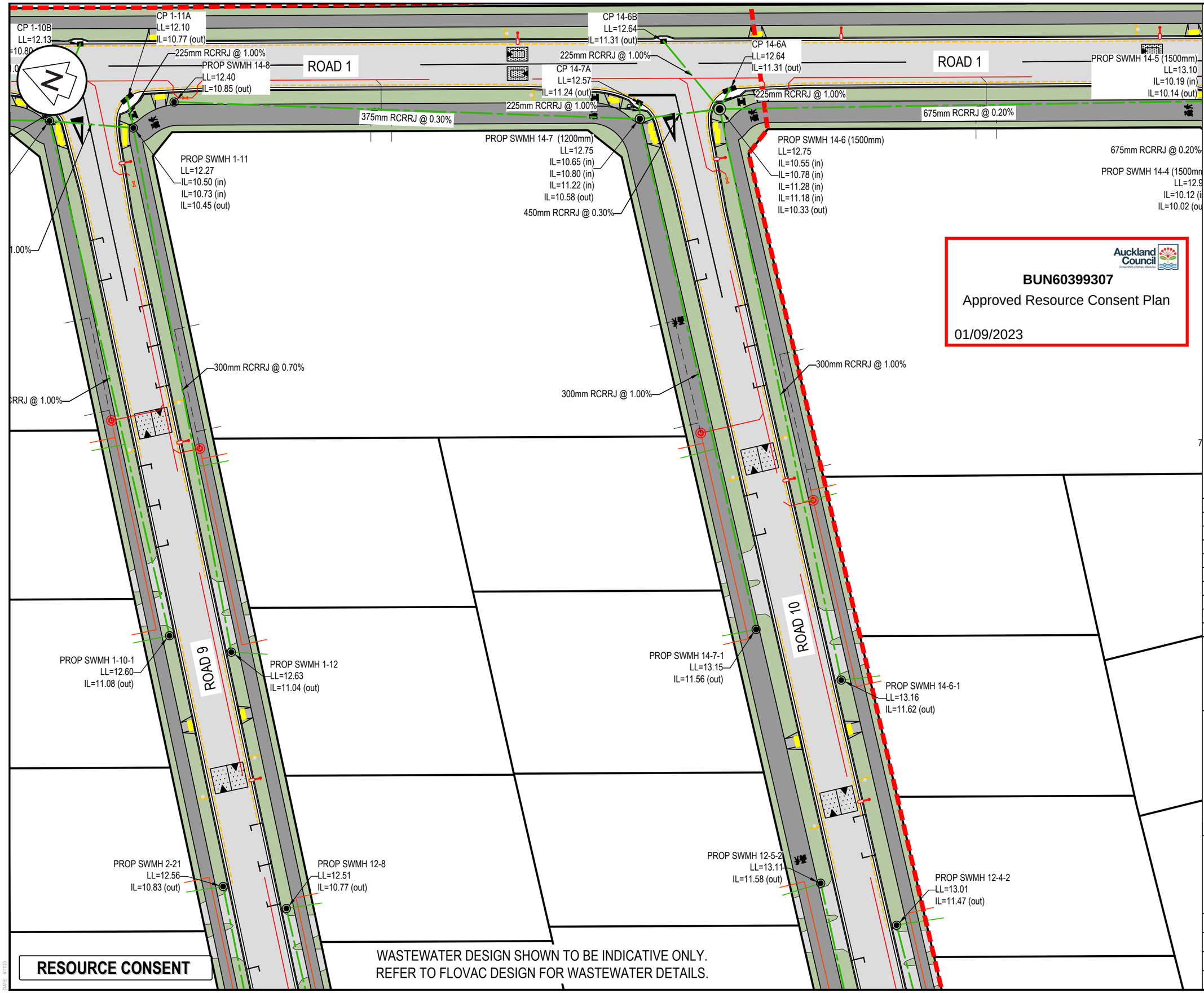
Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C409	Rev	H



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Rev	Description	By	Date
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Title

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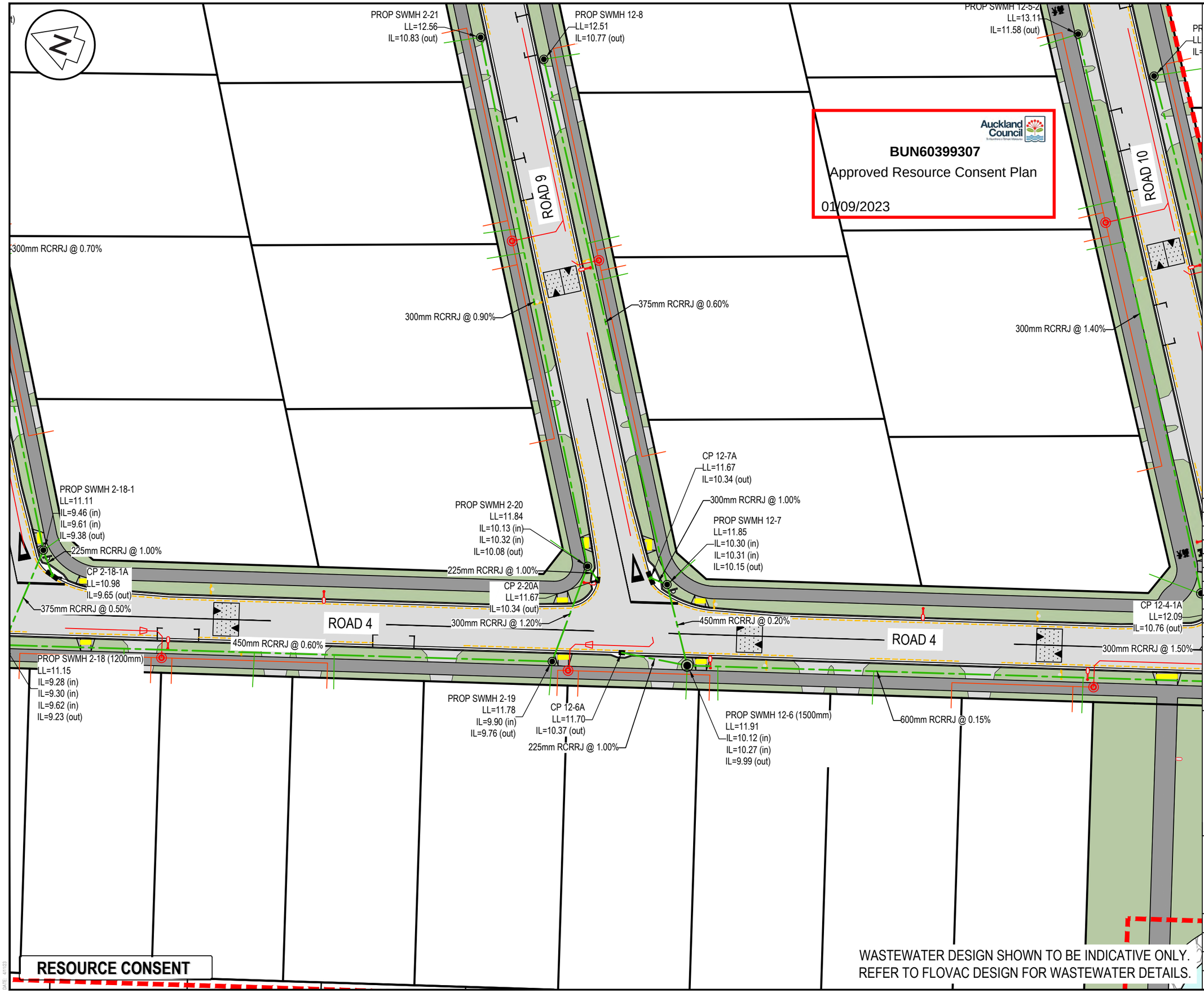
Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C410	Rev	H

DATE: 4/1/23



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- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C411	Rev	H

DATE: 04/10/23

CP 16-4B
LL=12.93
IL=11.60 (out)

225mm RCRRJ @ 1.00%

CP 16-4A
LL=12.88
IL=11.55 (out)

OP SWMH 14-5 (1500mm)
LL=13.10
IL=10.19 (in)
IL=10.14 (out)

225mm RCRRJ @ 1.00%

ROAD 1

300mm RCRRJ @ 0.80%

CP 10-1-2B
LL=13.32
IL=11.99 (out)

CP 10-1-2A
LL=13.28
IL=11.95 (out)

225mm RCRRJ @ 1.00%

ROAD 1

CP 10-4A
LL=13.33
IL=12.00 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 16-6
LL=13.41
IL=11.77 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 10-4
LL=13.46
IL=11.92 (in)
IL=11.62 (out)

PROP SWMH 16-5 (1500mm)
LL=13.02
IL=11.24 (in)
IL=11.52 (in)
IL=11.47 (in)
IL=11.16 (out)

675mm RCRRJ @ 0.20%

PROP SWMH 14-4 (1500mm)
LL=12.97
IL=10.12 (in)
IL=10.02 (out)

PROP SWMH 10-1-2
LL=13.46
IL=11.88 (in)
IL=11.92 (in)
IL=11.34 (out)

375mm RCRRJ @ 0.40%

Auckland Council

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01/09/2023

PROP SWMH 16-4
LL=12.76
IL=10.99 (in)
IL=10.94 (out)

375mm RCRRJ @ 0.30%

375mm RCRRJ @ 0.50%

750mm RCRRJ @ 0.15%

375mm RCRRJ @ 0.50%

ROAD 11

ROAD 12

CP 16-3A
LL=12.39
IL=11.06 (out)

CP 14-3A
LL=12.39
IL=11.06 (out)

225mm RCRRJ @ 1.00%

225mm RCRRJ @ 1.00%

PROP SWMH 16-3 (1200mm)
LL=12.55
IL=10.73 (in)
IL=11.04 (in)
IL=10.66 (out)

PROP SWMH 14-3 (1500mm)
LL=12.55
IL=9.90 (in)
IL=11.04 (in)
IL=9.85 (out)

PROP SWMH 10-1-1
LL=13.96
IL=11.07 (in)
IL=11.00 (out)

PROP SWMH 10-3
LL=13.98
IL=11.18 (in)
IL=11.11 (out)

825mm RCRRJ @ 0.15%

525mm RCRRJ @ 0.50%

CP 14-2A
LL=12.12

CP 16-2A

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

RESOURCE CONSENT

DATE 4/1/23

Notes

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2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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- PR BDY
- PR STAGING BDY
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- PR STORMWATER
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- EX/PROP SWMH
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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C412
Rev	H

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

PROP SWMH 12-4-2
LL=13.01
IL=11.47 (out)

825mm RCRRJ @ 0.15%

525mm RCRRJ @ 0.50%

CP 14-2A
LL=12.12
IL=10.79 (out)

CP 16-2A
LL=12.12
IL=10.79 (out)

225mm RCRRJ @ 1.00%

225mm RCRRJ @ 1.00%

PROP SWMH 14-2 (1500mm)
LL=12.27
IL=10.76 (in)
IL=9.77 (in)
IL=9.72 (out)

PROP SWMH 16-2 (1200mm)
LL=12.27
IL=10.38 (in)
IL=10.77 (in)
IL=10.31 (out)

450mm RCRRJ

300mm RCRRJ @ 1.40%

ROAD 10

ROAD 11

825mm RCRRJ @ 0.15%

600mm RCRRJ @ 0.50%

PROP SWMH 12-5-1 (1200mm)
LL=12.32
IL=10.42 (in)
IL=10.78 (in)
IL=10.37 (out)

225mm RCRRJ @ 1.00%

CP 12-5-1A
LL=12.14
IL=10.81 (out)

CP 16-1A
LL=11.82
IL=10.49 (out)

PROP SWMH 14-1 (1500mm)
LL=12.02
IL=9.65 (in)
IL=9.60 (out)

225mm RCRRJ @ 1.00%

PROP SWMH 16-1 (2050mm)
LL=11.98
IL=10.02 (in)
IL=9.86 (in)
IL=10.46 (in)
IL=9.49 (out)

750mm RCRRJ @ 0.70%

PROP SWMH 12-4-1
LL=12.27
IL=10.73 (in)
IL=10.36 (in)
IL=10.31 (out)

CP 12-2B
LL=11.82
IL=10.49 (out)

CP 12-4-1A
LL=12.09
IL=10.76 (out)

225mm RCRRJ @ 1.00%

825mm RCRRJ @ 0.15%

300mm RCRRJ @ 1.50%

300mm RCRRJ @ 1.50%

ROAD 4

225mm RCRRJ @ 1.00%

1050mm RCRRJ @ 0.10%

1050mm RCRRJ @ 0.15%

PROP SWMH 12-4 (1800mm)
LL=12.34
IL=10.15 (in)
IL=9.72 (in)
IL=9.55 (out)

900mm RCRRJ @ 0.10%

PROP SWMH 12-3 (1800mm)
LL=12.29
IL=9.50 (in)
IL=9.35 (out)

PROP SWMH 12-2 (2550mm)
LL=11.96
IL=9.32 (in)
IL=9.57 (in)
IL=10.41 (in)
IL=9.47 (in)
IL=10.38 (in)
IL=9.27 (out)

CP 12-2A
LL=11.77
IL=10.44 (out)

CP 12-5A
LL=12.15
IL=10.82 (out)

750mm RCRRJ @ 0.15%

225mm RCRRJ @ 1.00%

225mm RCRRJ @ 1.00%

1350mm RCRRJ @ 0.15%

PROP SWMH 12-1 (3000mm)
LL=11.80
IL=9.22 (in)
IL=9.57 (in)
IL=9.92 (in)
IL=9.17 (out)

PROP SWMH 17-1 (1500mm)
LL=11.76
IL=10.02 (in)
IL=9.94 (out)

PROP SWMH 12-5 (1800mm)
LL=12.29
IL=9.88 (in)
IL=10.18 (in)
IL=10.78 (in)
IL=9.73 (out)

1350mm RCRRJ @ 0.25%

600mm RCRRJ @ 0.15%

525mm RCRRJ @ 0.15%

RESOURCE CONSENT

DATE: 4/1/23

BUN60399307
Approved Resource Consent Plan
01/09/2023

Notes
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Legend
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- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

PROP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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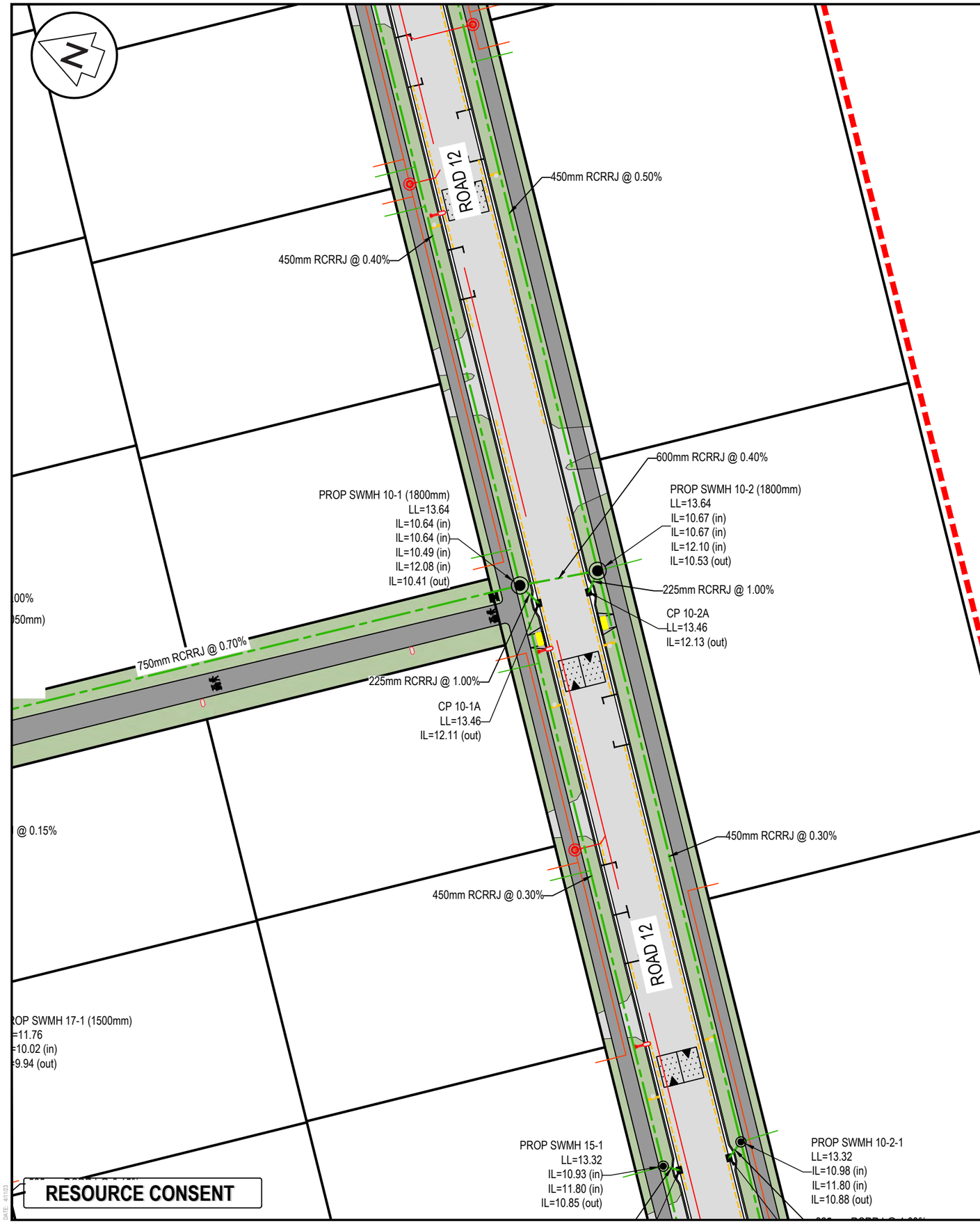
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C413	Rev	H



RESOURCE CONSENT

DATE: 4/11/23

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REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
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Survey	SURVEYWORX	12/2021
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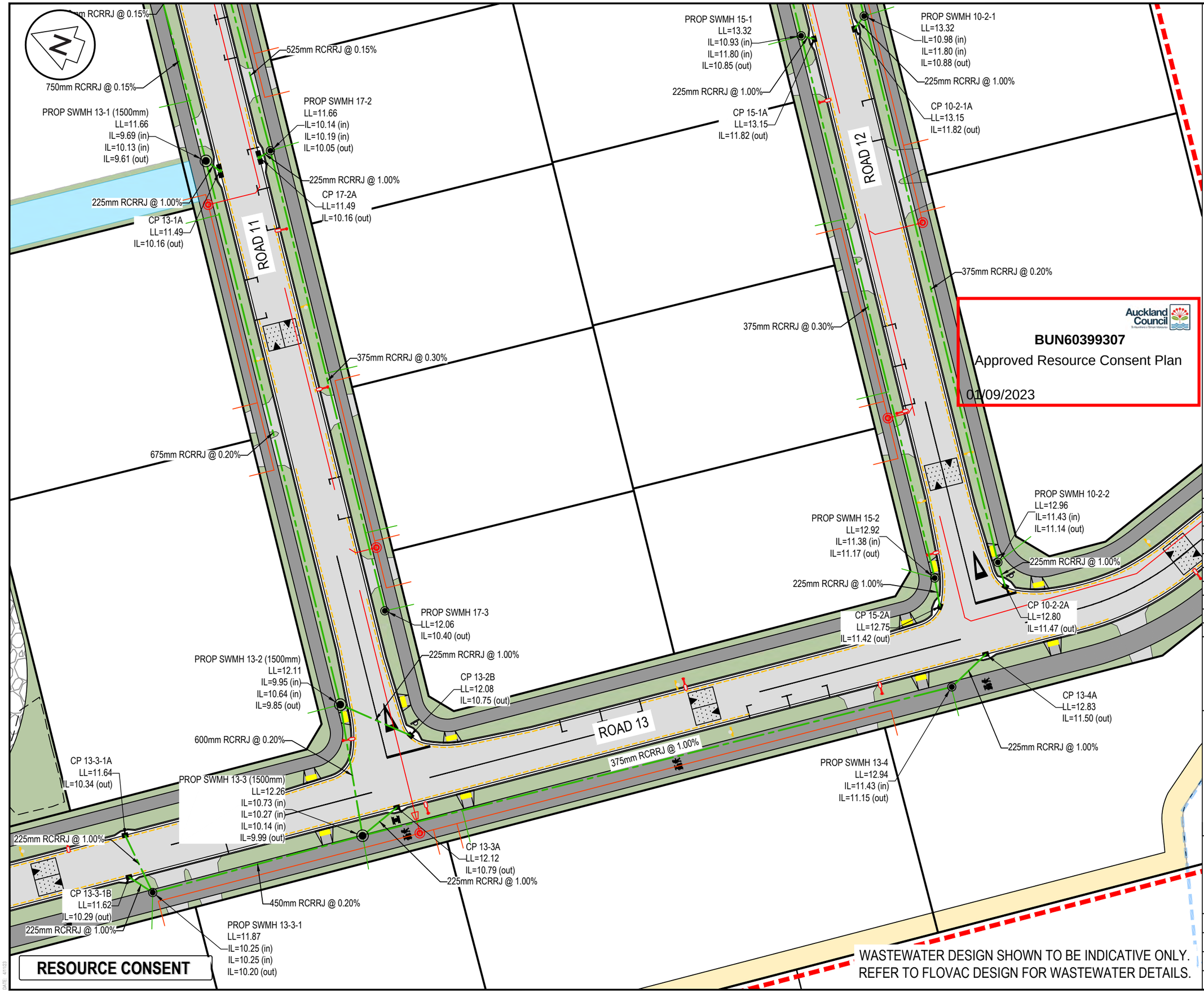
Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C414	Rev	H



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Legend

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Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C415	Rev	H

DATE: 4/11/23

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

IL=10.
IL=10.
IL=9.7

1350mm RCRRJ @ 0.25%

PROP SWMH OUTLET 4-0
LL=10.90
IL=9.05 (in)

600mm RCRRJ @ 0.15%

525mm RCRRJ @ 0.15%

750mm RCRRJ @ 0.15%

PROP SWMH 13-1 (1500mm)
LL=11.66
IL=9.69 (in)
IL=10.13 (in)
IL=9.61 (out)

PROP SWMH 17-2
LL=11.66
IL=10.14 (in)
IL=10.19 (in)
IL=10.05 (out)

225mm RCRRJ @ 1.00%

225mm RCRRJ @ 1.00%

CP 17-2A
LL=11.49
IL=10.16 (out)

CP 13-1A
LL=11.49
IL=10.16 (out)

ROAD 11

375mm RCRRJ @ 0.30%

675mm RCRRJ @ 0.20%

PROP SWM
LL=12.06
IL=10.40 (ou

225mm RC

PROP SWMH 13-2 (1500mm)
LL=12.11
IL=9.95 (in)
IL=10.64 (in)
IL=9.85 (out)

600mm RCRRJ @ 0.20%

CP 13-3-1A
LL=11.64
IL=10.34 (out)

PROP SWMH 13-3 (1500mm)
LL=12.26
IL=10.73 (in)
IL=10.27 (in)
IL=10.14 (in)
IL=9.99 (out)

225mm RCRRJ @ 1.00%

PROP SWMH OUTLET 2
LL=10.18
IL=8.37 (out)

900mm RCRRJ @ 0.55%

PROP SWMH OUTLET 6-0
LL=9.72
IL=9.11 (in)

PROP SWMH 20-1 (GPT)
LL=10.67
IL=9.16 (in)
IL=9.16 (in)
IL=9.16 (out)

300mm RCRRJ @ 0.40%

ROAD 13

CP 13-3-1B
LL=11.62
IL=10.29 (out)

225mm RCRRJ @ 1.00%

450mm RCRRJ @ 0.20%

PROP SWMH 13-3-1
LL=11.87

225m

300mm)
=10.40
.07 (in)
02 (out)

RESOURCE CONSENT

DATE: 4/11/23

Auckland Council

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Notes

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Legend

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Rev	Description	By	Date
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E	EPA RFI	ML	10/2022

	By	Date
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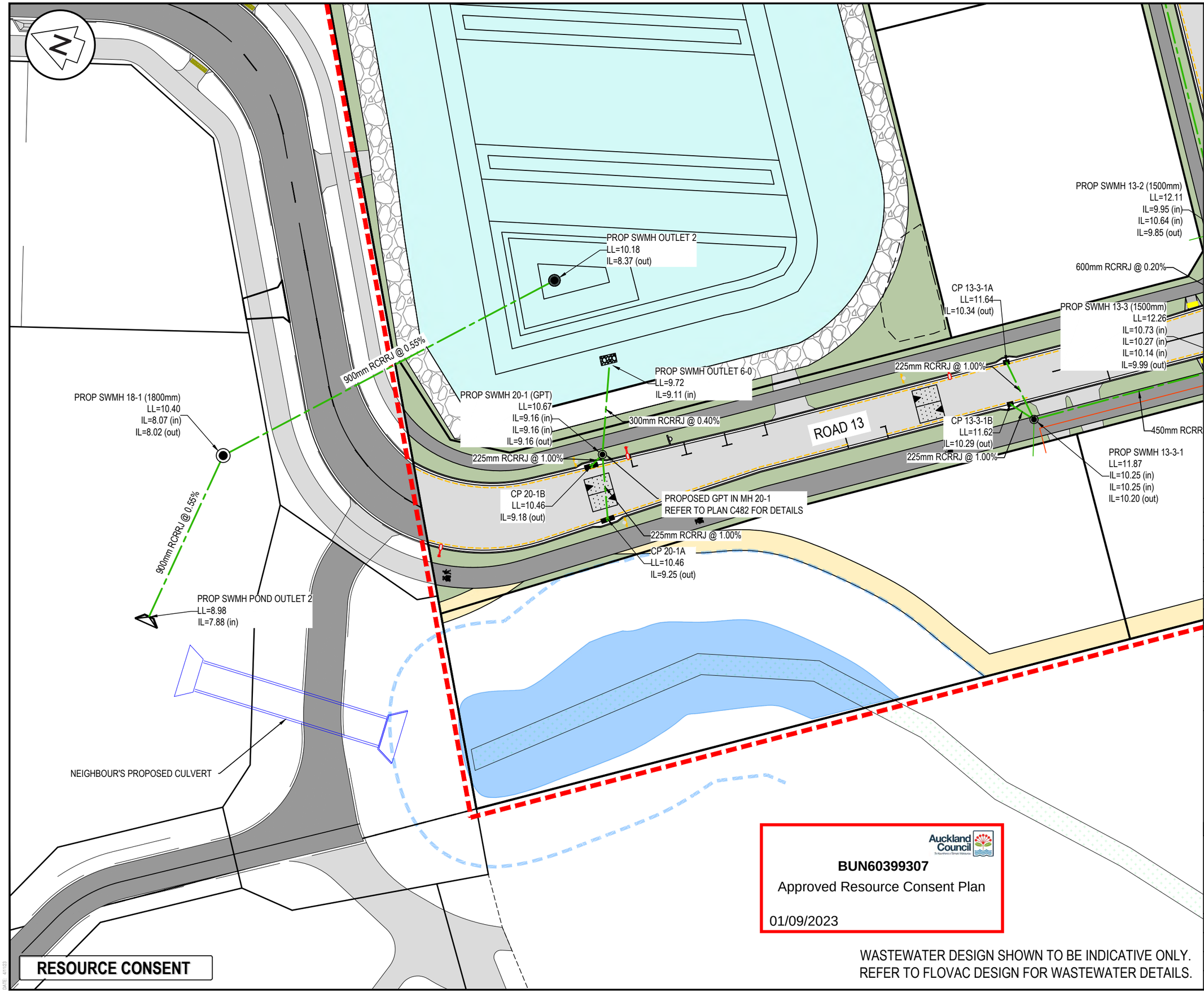
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C416 Rev H



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Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006
Scale	1:500 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C417
Rev	H

Auckland Council

BUN60399307

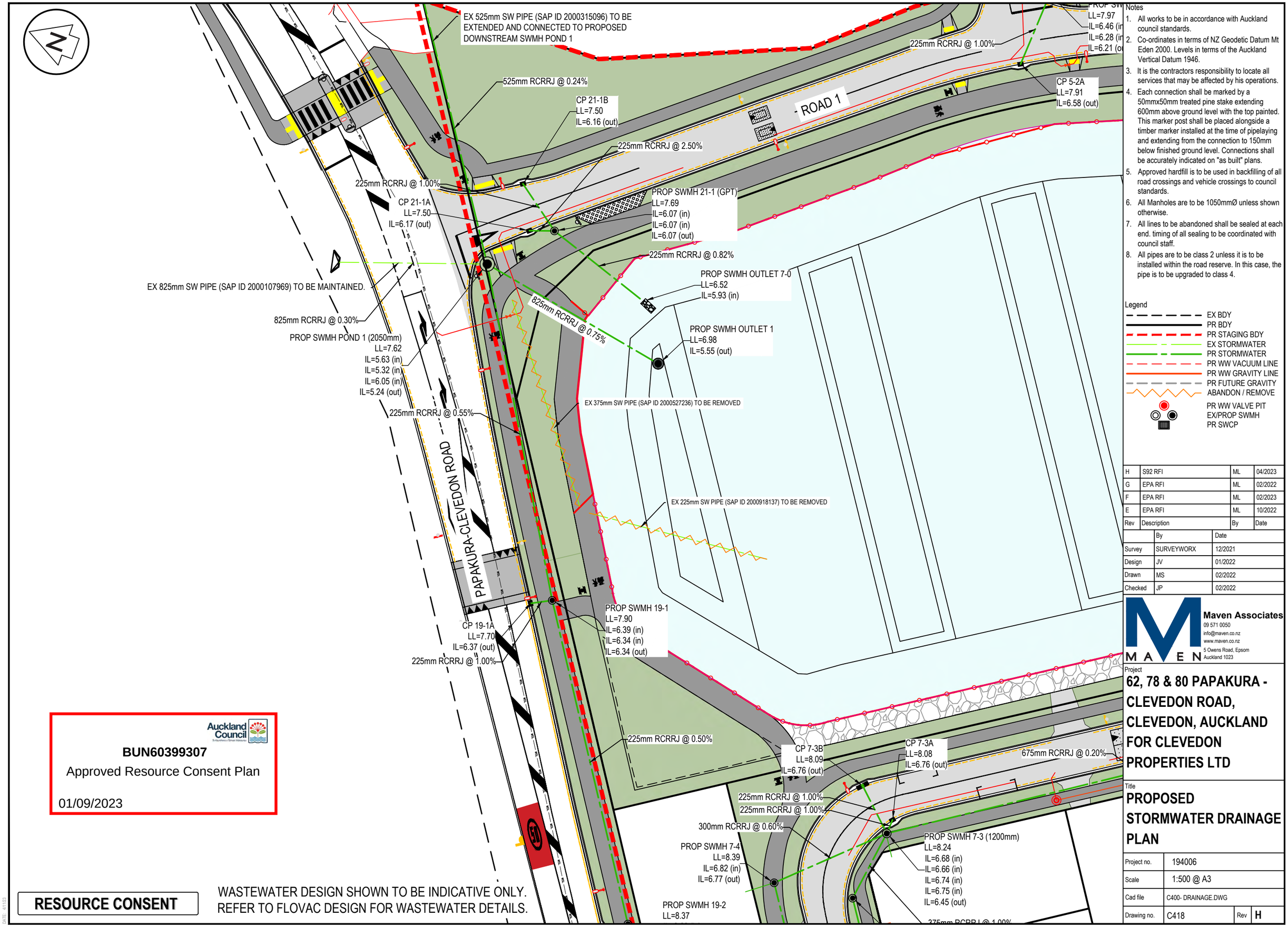
Approved Resource Consent Plan

01/09/2023

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

RESOURCE CONSENT

DATE: 4/11/23



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8. All pipes are to be class 2 unless it is to be installed within the road reserve. In this case, the pipe is to be upgraded to class 4.

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C418	Rev	H

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

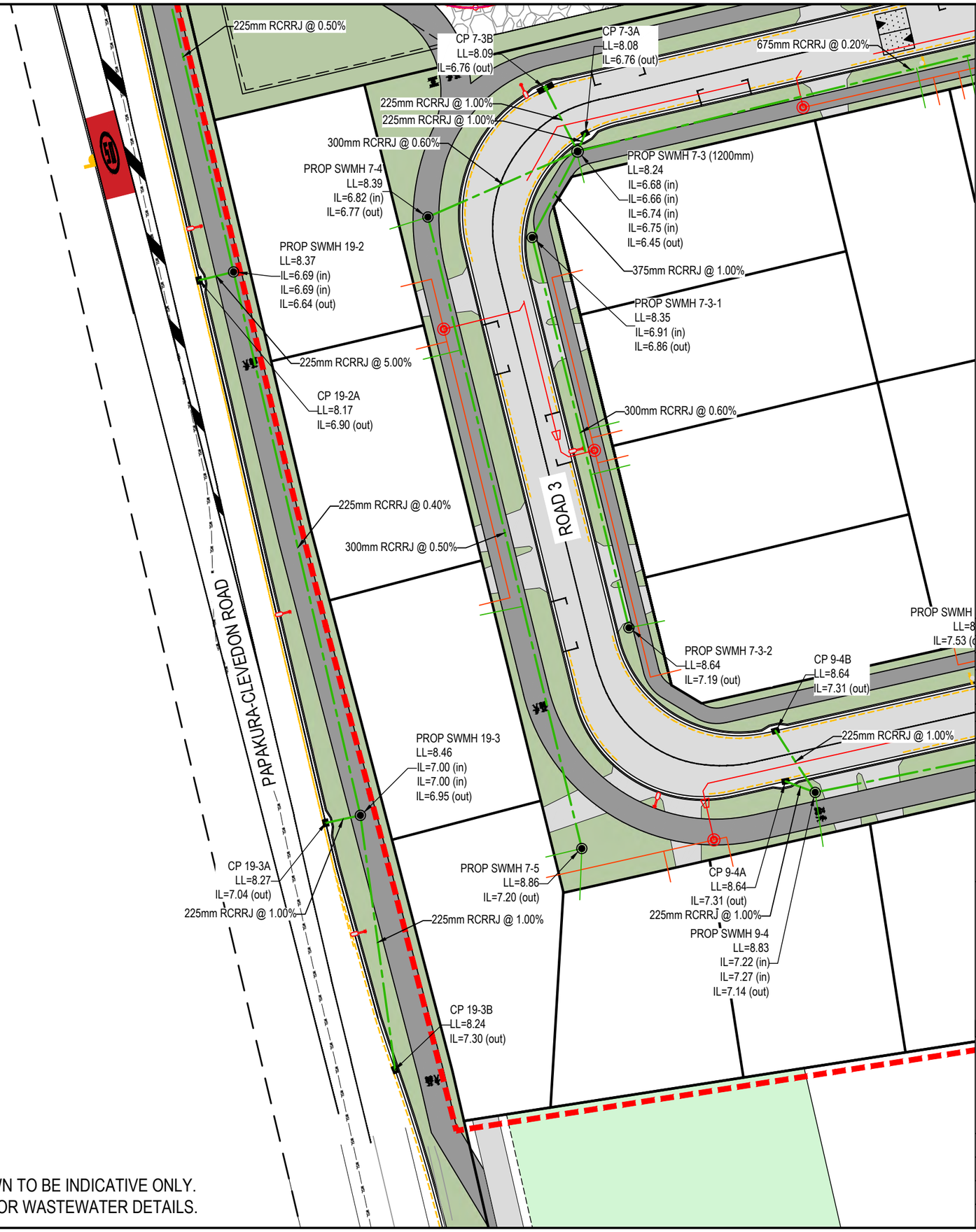
DATE: 4/11/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



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- PR BDY
- PR STAGING BDY
- EX STORMWATER
- PR STORMWATER
- PR WW VACUUM LINE
- PR WW GRAVITY LINE
- PR FUTURE GRAVITY
- ABANDON / REMOVE
- PR WW VALVE PIT
- EX/PROP SWMH
- PR SWCP

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

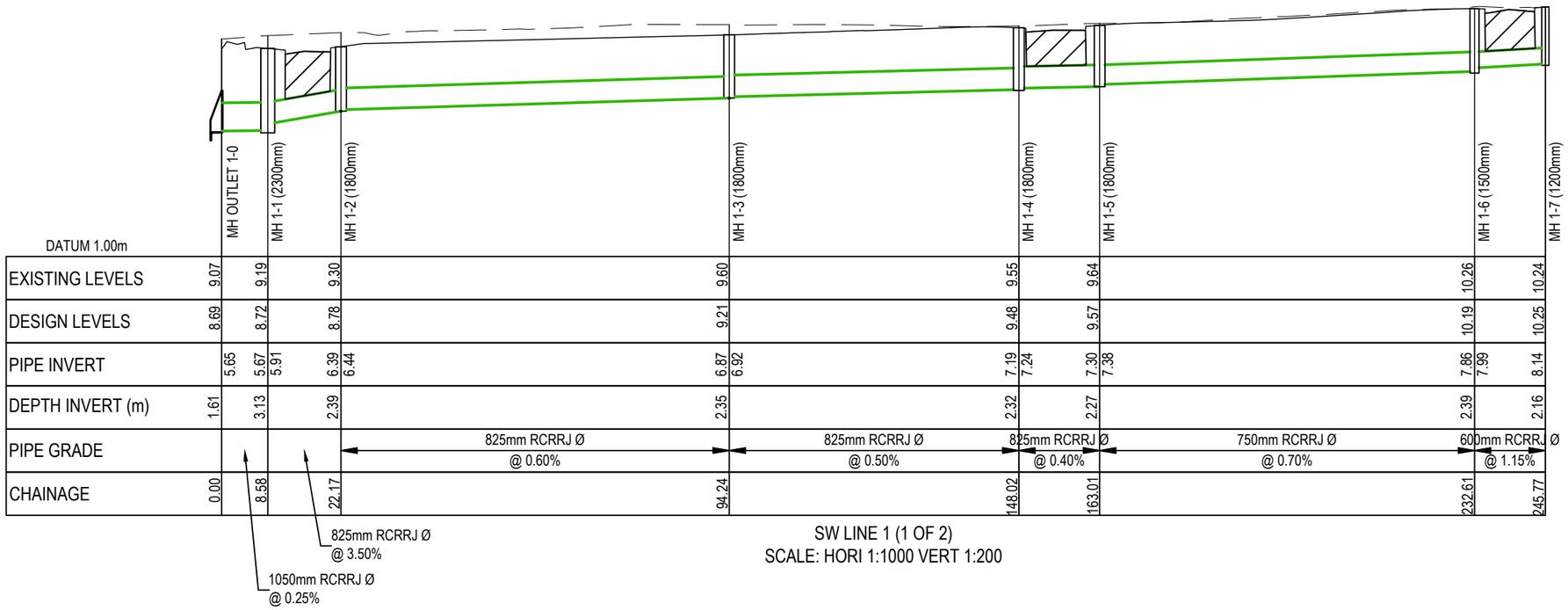
PROPOSED STORMWATER DRAINAGE PLAN

Project no.	194006		
Scale	1:500 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C419	Rev	H

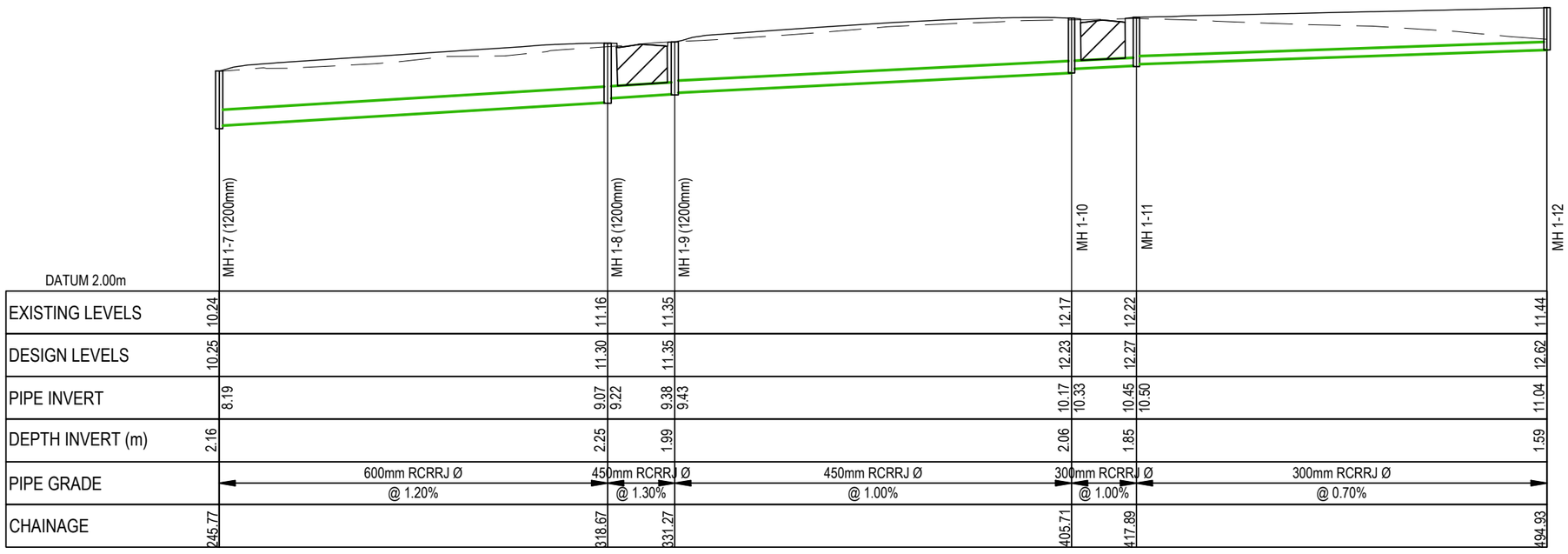
RESOURCE CONSENT

WASTEWATER DESIGN SHOWN TO BE INDICATIVE ONLY.
REFER TO FLOVAC DESIGN FOR WASTEWATER DETAILS.

DATE: 4/7/23



SW LINE 1 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/12/23

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C420 Rev H

Auckland Council

BUN60399307

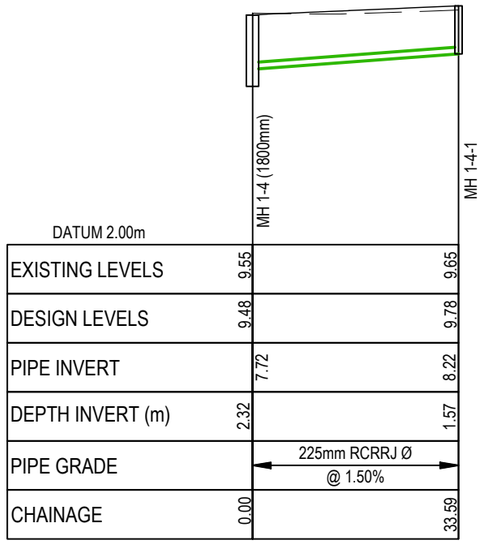
Approved Resource Consent Plan

01/09/2023

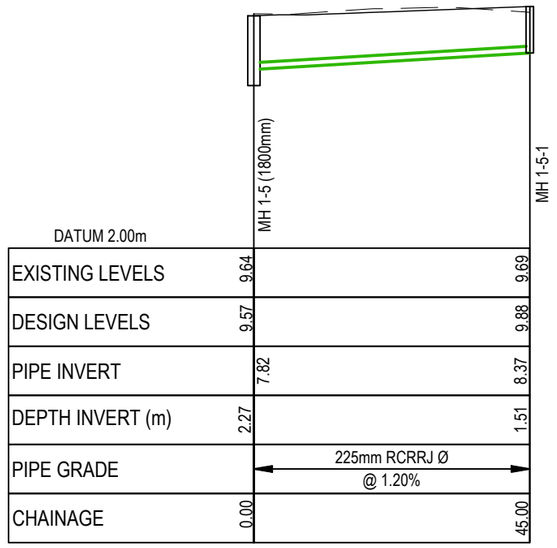
BUN60399307

Approved Resource Consent Plan

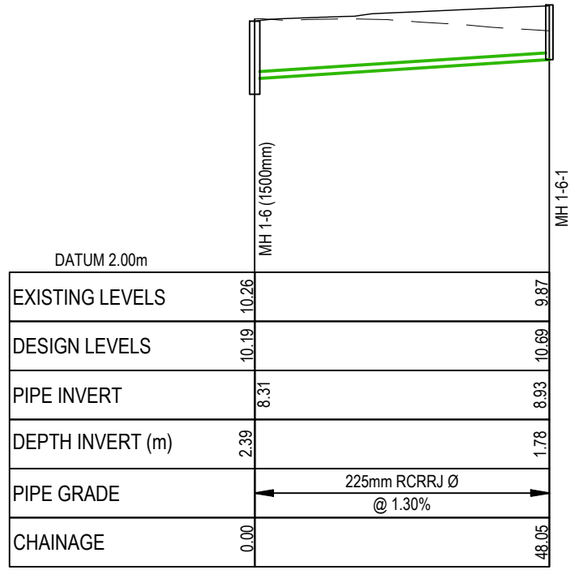
01/09/2023



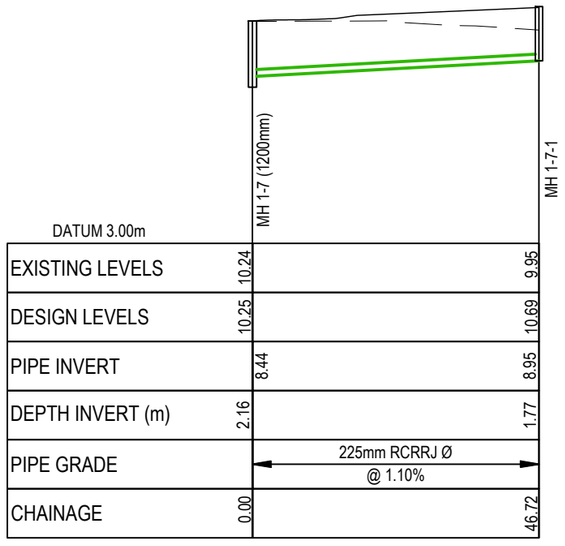
SW LINE 1-4-1
SCALE: HORI 1:1000 VERT 1:200



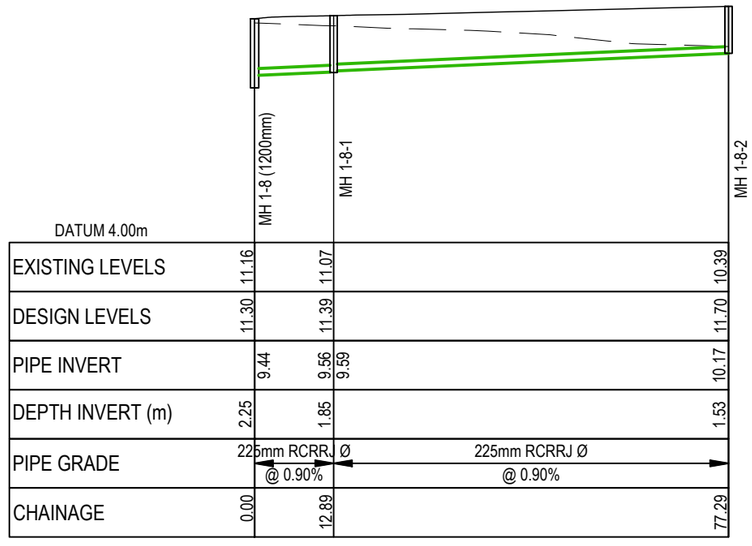
SW LINE 1-5-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1-6-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1-7-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1-8-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE: 4/1/23

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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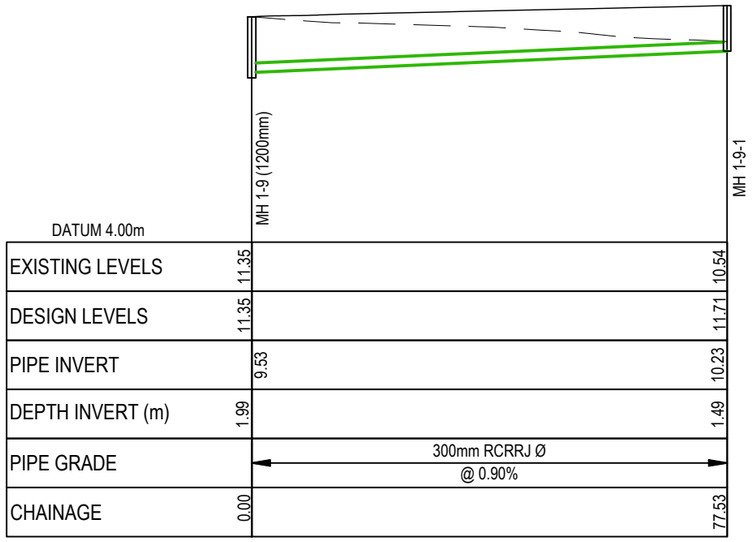
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

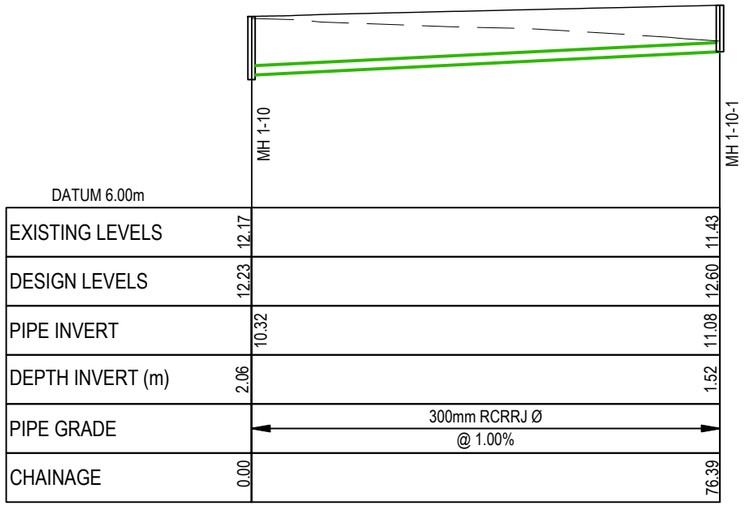
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

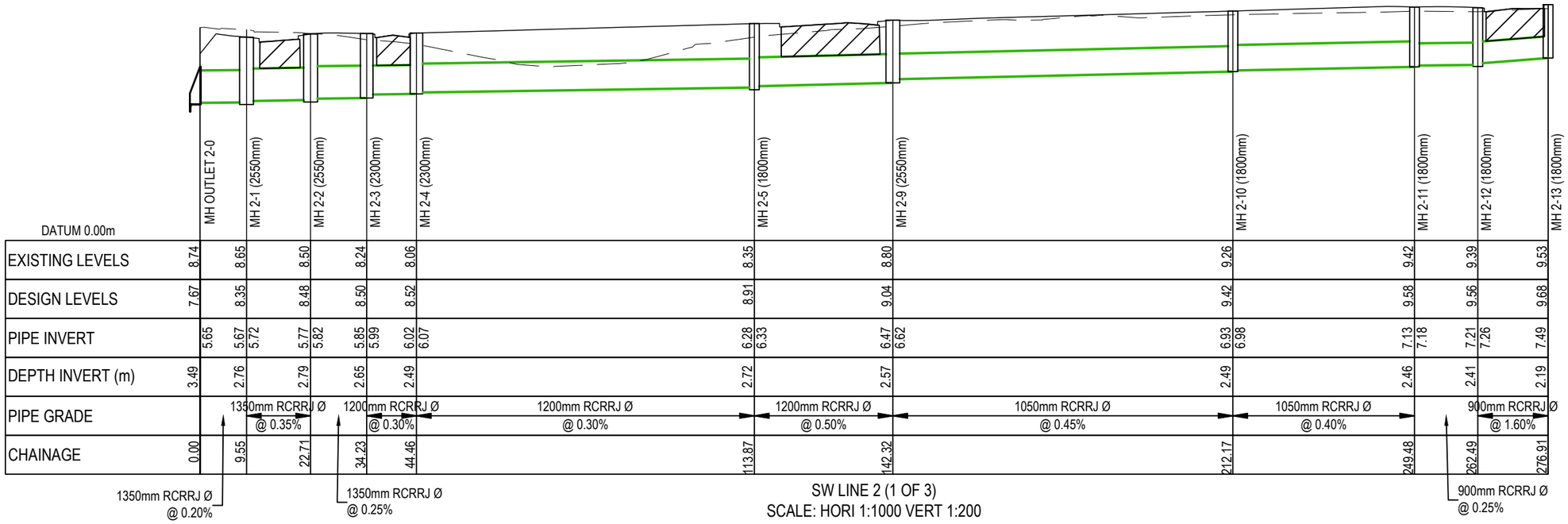
Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C421	Rev	H



SW LINE 1-9-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1-10-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 2 (1 OF 3)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/12/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

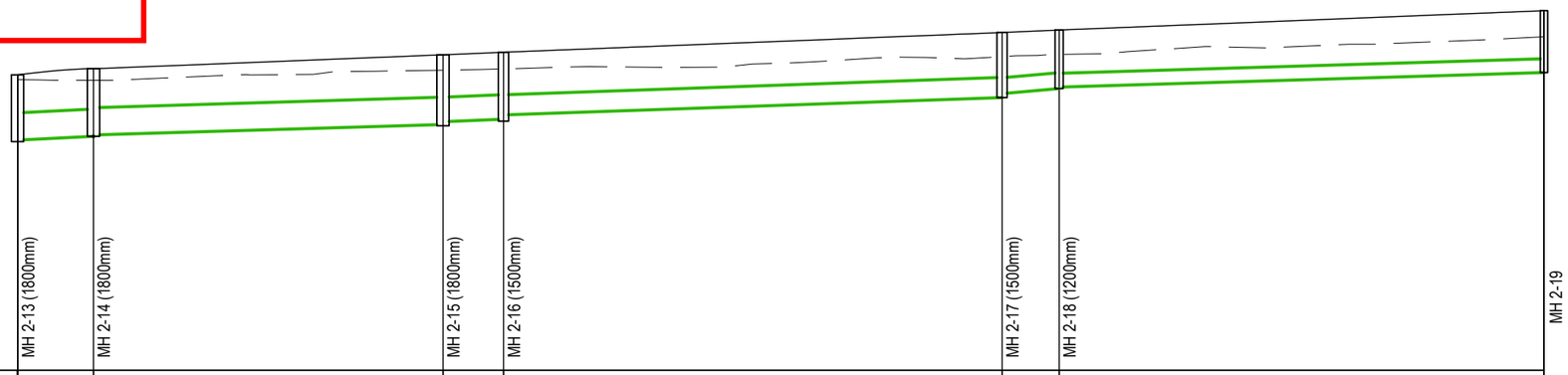
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C422	Rev	H

BUN60399307

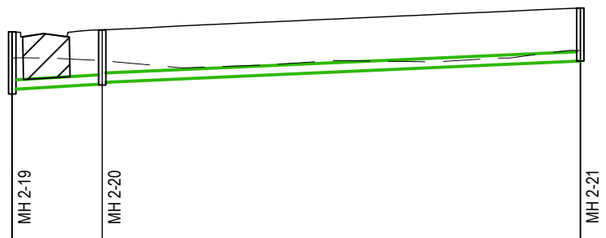
Approved Resource Consent Plan

01/09/2023



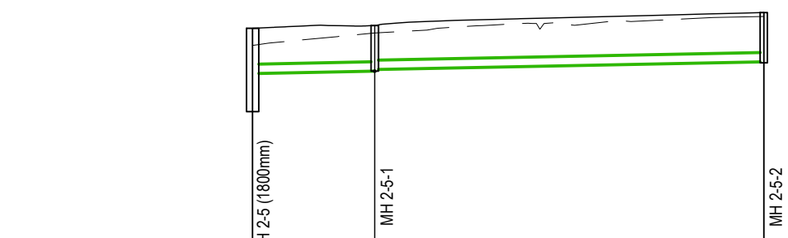
DATUM 0.00m												
EXISTING LEVELS	9.53		9.50			9.84	9.88		10.28	10.35		10.93
DESIGN LEVELS	9.68		9.88			10.34	10.42		11.07	11.15		11.78
PIPE INVERT	7.54	7.66	7.71			8.05	8.14	8.23	8.37	8.94	9.07	9.23	9.28	9.76
DEPTH INVERT (m)	2.19		2.22			2.33		2.26		2.13		1.92		2.03
PIPE GRADE	900mm RCRRJ Ø @ 1.00%			900mm RCRRJ Ø @ 0.60%		825mm RCRRJ Ø @ 0.85%			675mm RCRRJ Ø @ 0.70%		525mm RCRRJ Ø @ 1.75%			450mm RCRRJ Ø @ 0.60%
CHAINAGE	276.91		289.35			346.60	356.51		438.19	447.54		526.97		

SW LINE 2 (2 OF 3)
SCALE: HORI 1:1000 VERT 1:200



DATUM 4.00m					
EXISTING LEVELS	10.93		10.84		11.17
DESIGN LEVELS	11.78		11.84		12.56
PIPE INVERT	9.90	10.08	10.13		10.83
DEPTH INVERT (m)	2.03		1.79		1.73
PIPE GRADE	300mm RCRRJ Ø @ 1.20%			300mm RCRRJ Ø @ 0.90%	
CHAINAGE	526.97		541.65		619.61

SW LINE 2 (3 OF 3)
SCALE: HORI 1:1000 VERT 1:200



DATUM 1.00m				
EXISTING LEVELS	8.35		8.75	9.29
DESIGN LEVELS	8.91		9.00	9.42
PIPE INVERT	7.43	7.51	7.56	7.81
DEPTH INVERT (m)	2.72		1.49	1.64
PIPE GRADE		300mm RCRRJ Ø @ 0.40%		300mm RCRRJ Ø @ 0.40%
CHAINAGE	0.00		19.92	83.37

SW LINE 2-5-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE: 4/1/23

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

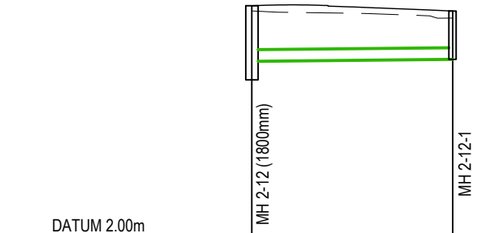
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C423	Rev	H

BUN60399307

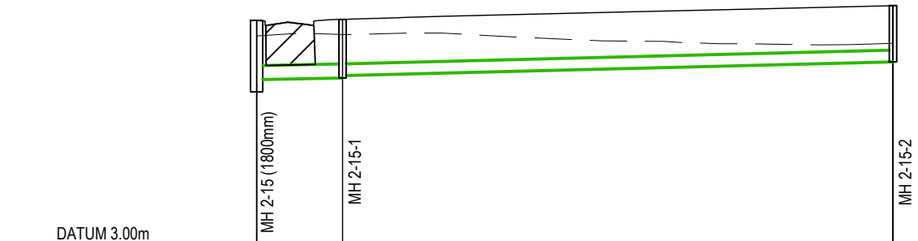
Approved Resource Consent Plan

01/09/2023



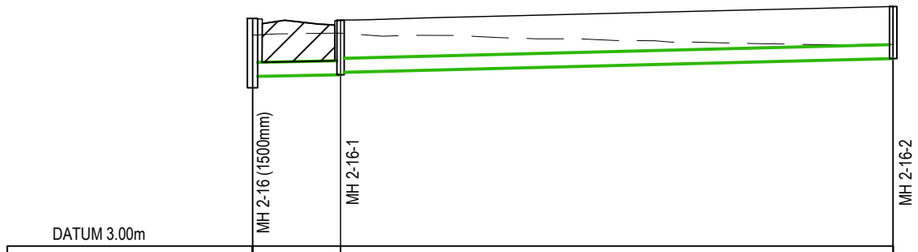
DATUM 2.00m		MH 2-12 (1800mm)	MH 2-12-1
EXISTING LEVELS	9.39		9.16
DESIGN LEVELS	9.56		9.39
PIPE INVERT		7.74	7.81
DEPTH INVERT (m)	2.41		1.58
PIPE GRADE		375mm RCRRJ Ø @ 0.20%	
CHAINAGE	0.00		32.72

SW LINE 2-12-1
SCALE: HORI 1:1000 VERT 1:200



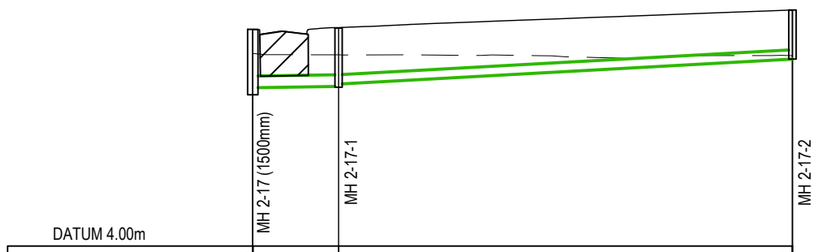
DATUM 3.00m		MH 2-15 (1800mm)	MH 2-15-1	MH 2-15-2
EXISTING LEVELS	9.84		9.89	9.59
DESIGN LEVELS	10.34		10.37	10.82
PIPE INVERT		8.41	8.47	8.99
DEPTH INVERT (m)	2.33		1.91	1.84
PIPE GRADE		450mm RCRRJ Ø @ 0.40%	375mm RCRRJ Ø @ 0.50%	
CHAINAGE	0.00		14.01	103.78

SW LINE 2-15-1
SCALE: HORI 1:1000 VERT 1:200



DATUM 3.00m		MH 2-16 (1500mm)	MH 2-16-1	MH 2-16-2
EXISTING LEVELS	9.88	9.94		9.58
DESIGN LEVELS	10.42	10.36		10.81
PIPE INVERT	8.53	8.59	8.66	9.11
DEPTH INVERT (m)	2.26	1.78		1.70
PIPE GRADE		450mm RCRRJ Ø @ 0.40%	450mm RCRRJ Ø @ 0.50%	
CHAINAGE	0.00	14.36		104.48

SW LINE 2-16-1
SCALE: HORI 1:1000 VERT 1:200



DATUM 4.00m		MH 2-17 (1500mm)	MH 2-17-1	MH 2-17-2
EXISTING LEVELS	10.28	10.24		10.21
DESIGN LEVELS	11.07	11.12		11.70
PIPE INVERT	9.16	9.21	9.28	10.10
DEPTH INVERT (m)	2.13	1.93		1.60
PIPE GRADE		375mm RCRRJ Ø @ 0.30%	300mm RCRRJ Ø @ 1.10%	
CHAINAGE	0.00	13.99		88.01

SW LINE 2-17-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Notes

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10. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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5 Owens Road, Epsom
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

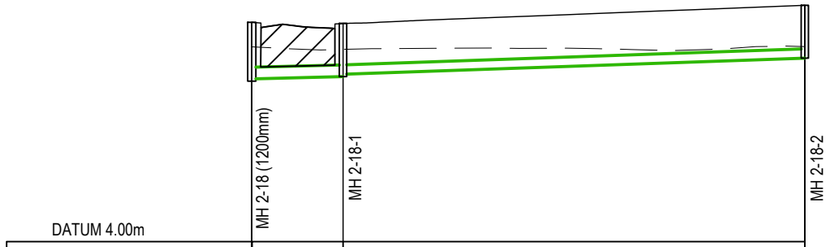
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C424 Rev H

BUN60399307

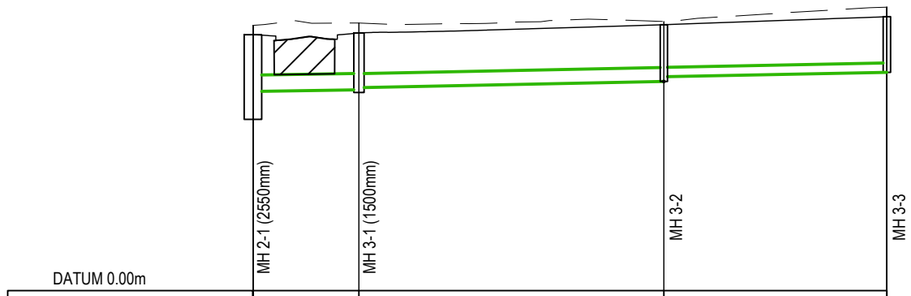
Approved Resource Consent Plan

01/09/2023



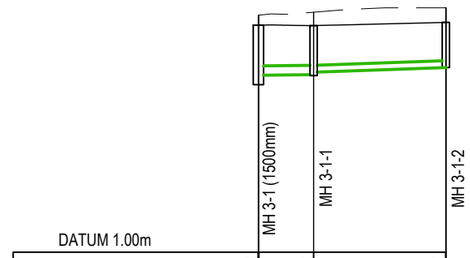
DATUM 4.00m				
EXISTING LEVELS	10.35	10.27		10.36
DESIGN LEVELS	11.15	11.11		11.70
PIPE INVERT	9.30	9.38	9.46	9.98
DEPTH INVERT (m)	1.92	1.74		1.72
PIPE GRADE		375mm RCRRJ Ø @ 0.50%	300mm RCRRJ Ø @ 0.70%	
CHAINAGE	0.00	14.88		90.20

SW LINE 2-18-1
SCALE: HORI 1:1000 VERT 1:200



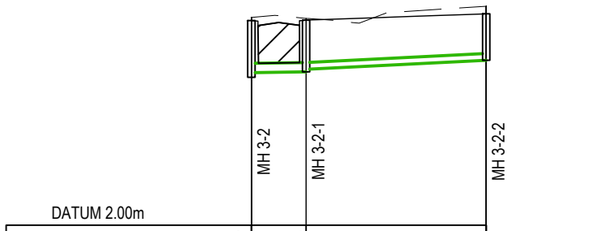
DATUM 0.00m					
EXISTING LEVELS	8.65	8.72		8.77	9.24
DESIGN LEVELS	8.35	8.40		8.67	8.93
PIPE INVERT	6.50	6.55	6.62	6.82	6.97	7.12
DEPTH INVERT (m)	2.76	1.94		1.85	1.82
PIPE GRADE		525mm RCRRJ Ø @ 0.30%	450mm RCRRJ Ø @ 0.40%	300mm RCRRJ Ø @ 0.40%	
CHAINAGE	0.00	17.29		67.02	103.39

SW LINE 3
SCALE: HORI 1:1000 VERT 1:200



DATUM 1.00m				
EXISTING LEVELS	8.72	8.82		8.97
DESIGN LEVELS	8.40	8.38		8.49
PIPE INVERT	6.77	6.78	6.87	7.02
DEPTH INVERT (m)	1.94	1.63		1.47
PIPE GRADE		300mm RCRRJ Ø @ 0.20%	225mm RCRRJ Ø @ 0.70%	
CHAINAGE	0.00	9.00		30.58

3-1-1
SCALE: HORI 1:1000 VERT 1:200



DATUM 2.00m				
EXISTING LEVELS	8.77	8.74		9.14
DESIGN LEVELS	8.67	8.68		8.89
PIPE INVERT	6.97	7.00	7.08	7.37
DEPTH INVERT (m)	1.85	1.69		1.51
PIPE GRADE		300mm RCRRJ Ø @ 0.30%	225mm RCRRJ Ø @ 1.00%	
CHAINAGE	0.00	8.92		38.30

SW LINE 3-2-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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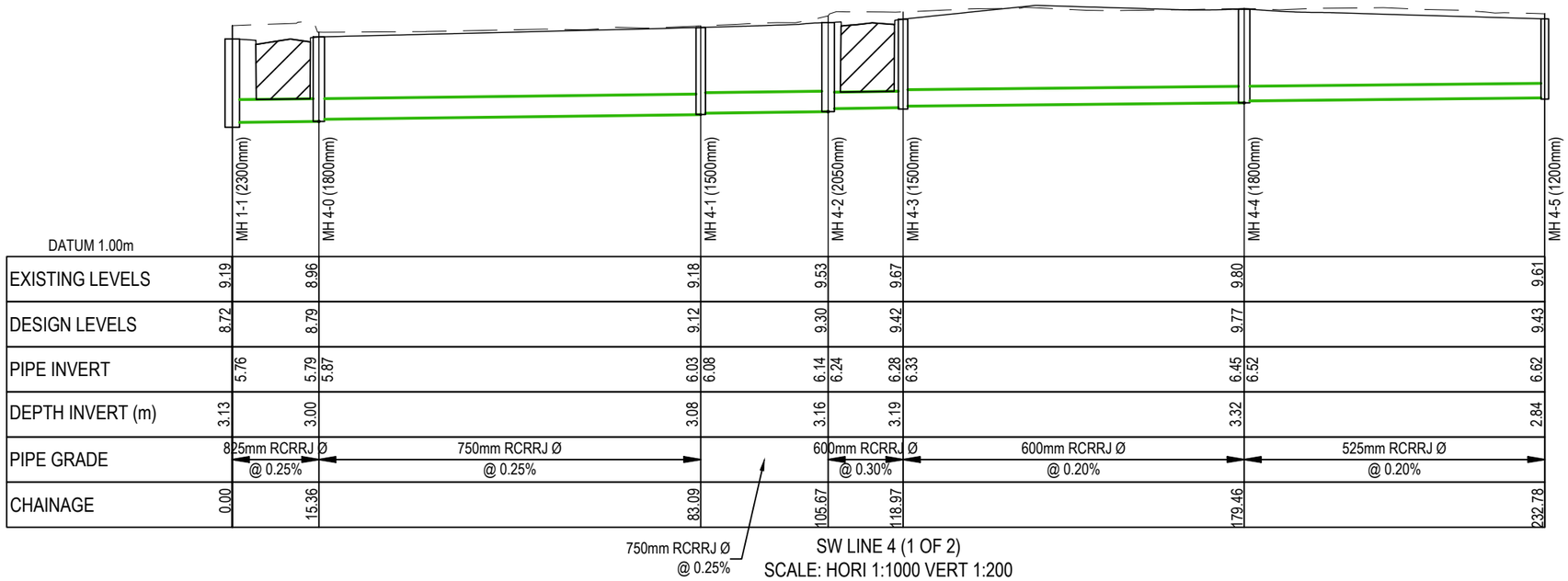
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

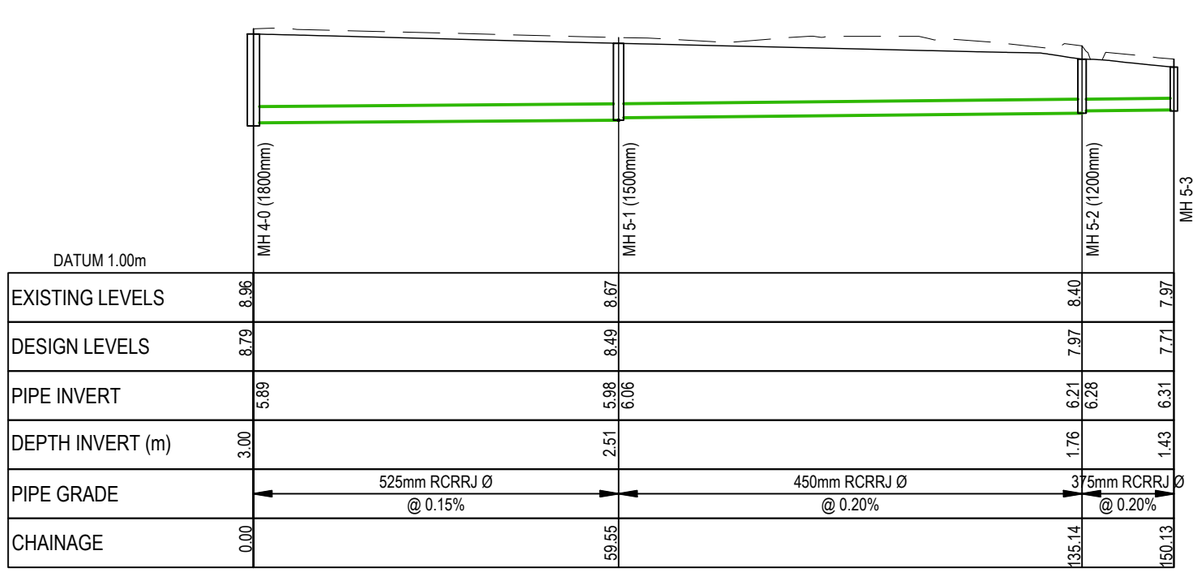
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C425	Rev	H



SW LINE 4 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200

SW LINE 4 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200



SW LINE 5
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

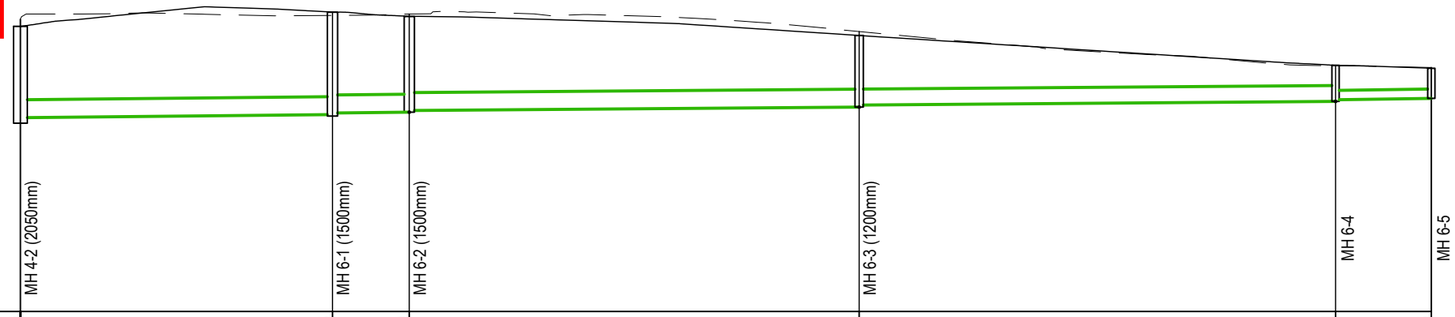
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C426
Rev	H

DATE 4/1/23

BUN60399307

Approved Resource Consent Plan

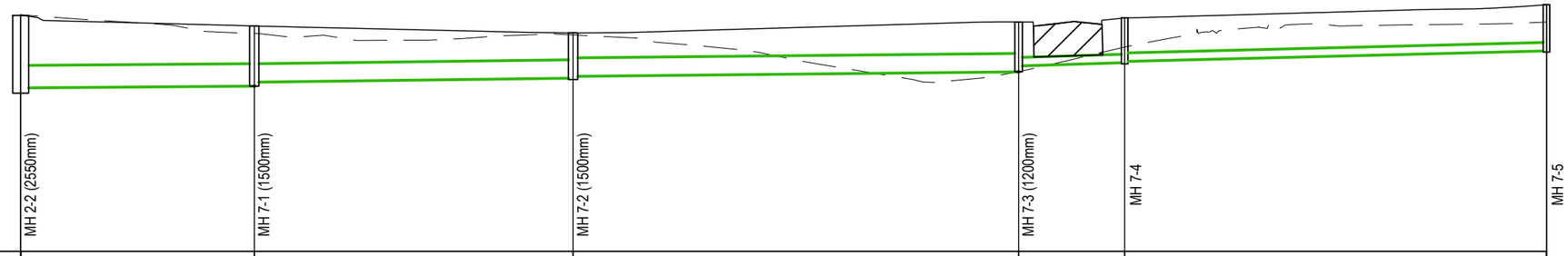
01/09/2023



		MH 4-2 (2050mm)		MH 6-1 (1500mm)		MH 6-2 (1500mm)		MH 6-3 (1200mm)		MH 6-4		MH 6-5
DATUM 0.00m												
EXISTING LEVELS	9.53		9.65		9.70		9.13		8.01		7.95	
DESIGN LEVELS	9.30		9.76		9.62		9.00		8.02		7.93	
PIPE INVERT	6.32		6.42	6.47		6.50	6.55		6.66	6.73		6.85	6.90	6.95
DEPTH INVERT (m)	3.16		3.39		3.12		2.34		1.18		0.98	
PIPE GRADE		600mm RCRRJ Ø @ 0.20%		600mm RCRRJ Ø @ 0.20%		600mm RCRRJ Ø @ 0.15%		525mm RCRRJ Ø @ 0.15%		300mm RCRRJ Ø @ 0.30%		
CHAINAGE	0.00		50.89		63.42		136.79		214.49		230.10	

SW LINE 6

SCALE: HORI 1:1000 VERT 1:200



		MH 2-2 (2550mm)		MH 7-1 (1500mm)		MH 7-2 (1500mm)		MH 7-3 (1200mm)		MH 7-4		MH 7-5
DATUM 0.00m												
EXISTING LEVELS	8.50		7.83		7.77		6.45		7.34		8.24	
DESIGN LEVELS	8.48		8.09		7.85		8.24		8.39		8.86	
PIPE INVERT	5.87		5.93	6.08		6.22	6.29		6.45	6.66		6.77	6.82	7.20
DEPTH INVERT (m)	2.79		2.16		1.67		1.79		1.65		1.70	
PIPE GRADE		825mm RCRRJ Ø @ 0.15%		675mm RCRRJ Ø @ 0.25%		675mm RCRRJ Ø @ 0.20%		300mm RCRRJ Ø @ 0.60%		300mm RCRRJ Ø @ 0.50%		
CHAINAGE	0.00		41.91		99.11		179.04		198.08		273.76	

SW LINE 7

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

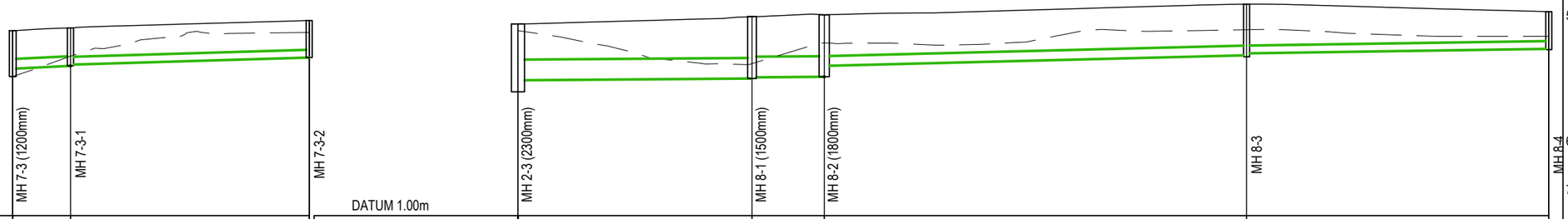
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C427	Rev	H

BUN60399307

Approved Resource Consent Plan

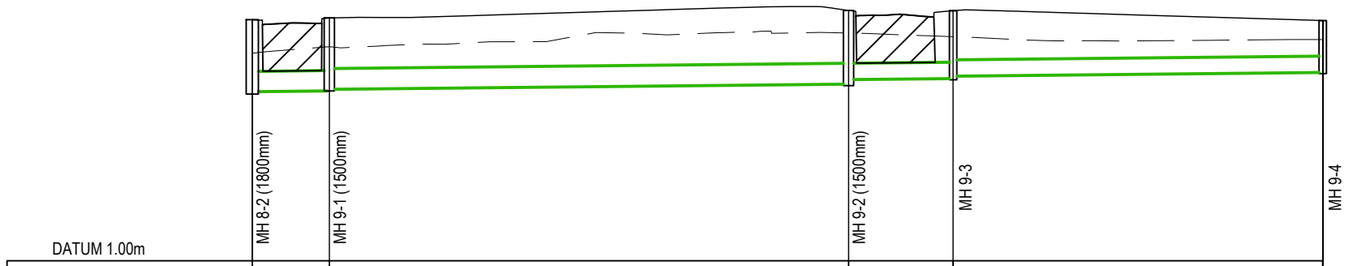
01/09/2023



DATUM 1.00m														
EXISTING LEVELS	6.45		7.24			8.17	8.24		6.95	7.77		8.28		8.02
DESIGN LEVELS	8.24		8.35			8.64	8.50		8.78	8.86		9.28		8.99
PIPE INVERT	6.75	6.86	6.91			7.19	6.30		6.37	6.42	6.44	6.86	7.28	7.35	7.53
DEPTH INVERT (m)	1.79		1.48			1.45	2.65		2.43	2.43		2.06		1.49
PIPE GRADE	375mm RCRRJ Ø @ 1.00%		300mm RCRRJ Ø @ 0.60%				825mm RCRRJ Ø @ 0.15%		825mm RCRRJ Ø @ 0.15%	375mm RCRRJ Ø @ 0.50%			300mm RCRRJ Ø @ 0.30%	
CHAINAGE	0.00		11.33			58.15	0.00		45.90	60.08		142.92		202.21

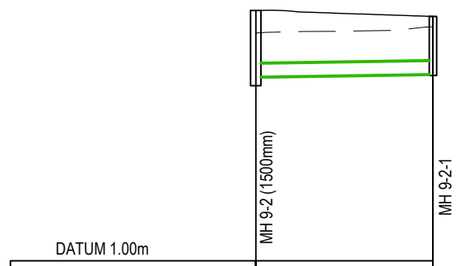
SW LINE 7-3-1
SCALE: HORI 1:1000 VERT 1:200

SW LINE 8
SCALE: HORI 1:1000 VERT 1:200



DATUM 1.00m									
EXISTING LEVELS	7.77		7.98		8.43	8.31		8.22	
DESIGN LEVELS	8.86		8.92		9.16	9.16		8.83	
PIPE INVERT	6.52	6.54	6.59		6.76	6.91	6.94	7.02	7.14
DEPTH INVERT (m)	2.43		2.38		2.45	2.25		1.73	
PIPE GRADE	675mm RCRRJ Ø @ 0.20%		675mm RCRRJ Ø @ 0.20%		525mm RCRRJ Ø @ 0.20%	525mm RCRRJ Ø @ 0.20%			
CHAINAGE	0.00		12.56		97.24	114.30		174.58	

SW LINE 9
SCALE: HORI 1:1000 VERT 1:200



DATUM 1.00m			
EXISTING LEVELS	8.43		8.63
DESIGN LEVELS	9.16		8.97
PIPE INVERT	6.98		7.07
DEPTH INVERT (m)	2.45		1.92
PIPE GRADE		450mm RCRRJ Ø @ 0.30%	
CHAINAGE	0.00		28.90

SW LINE 9-2-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

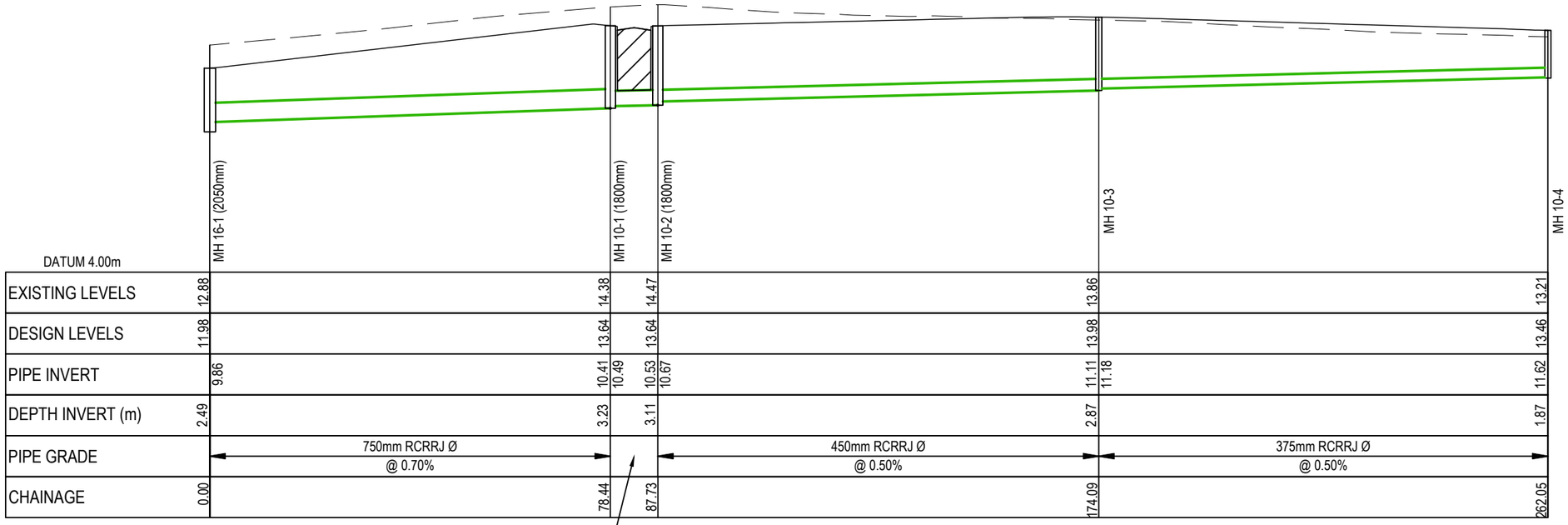
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C428 Rev H

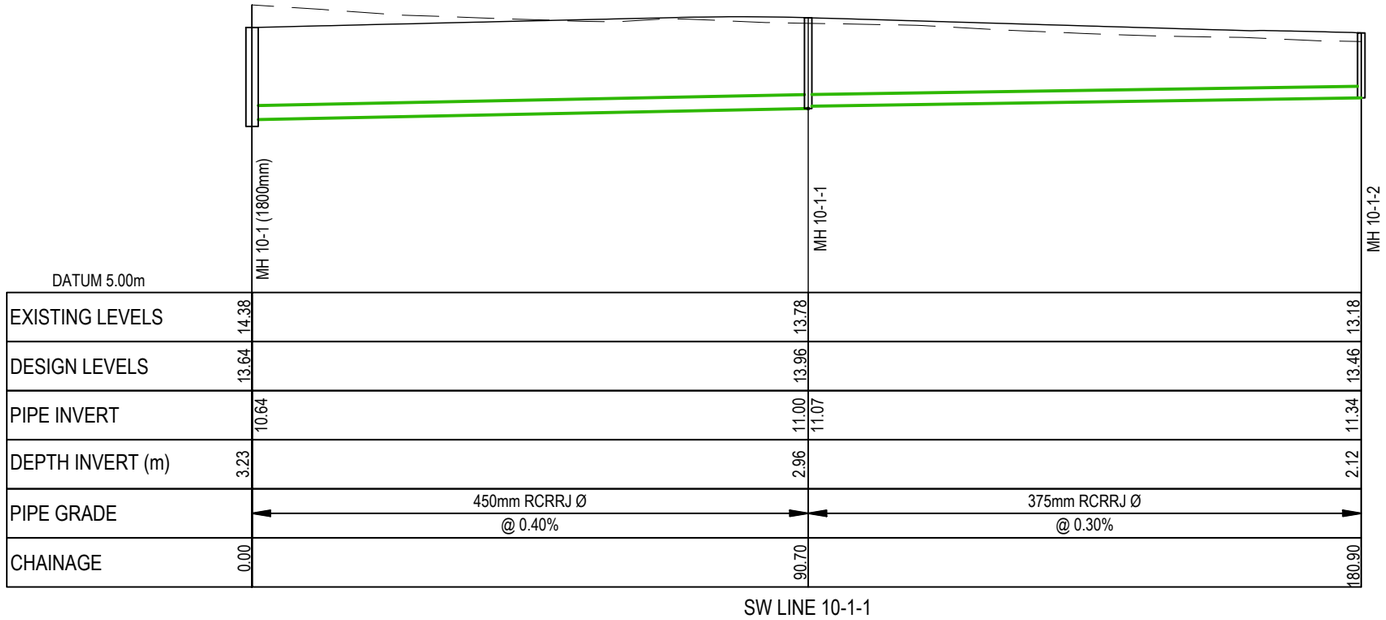
BUN60399307

Approved Resource Consent Plan

01/09/2023



SW LINE 10
SCALE: HORI 1:1000 VERT 1:200



SW LINE 10-1-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

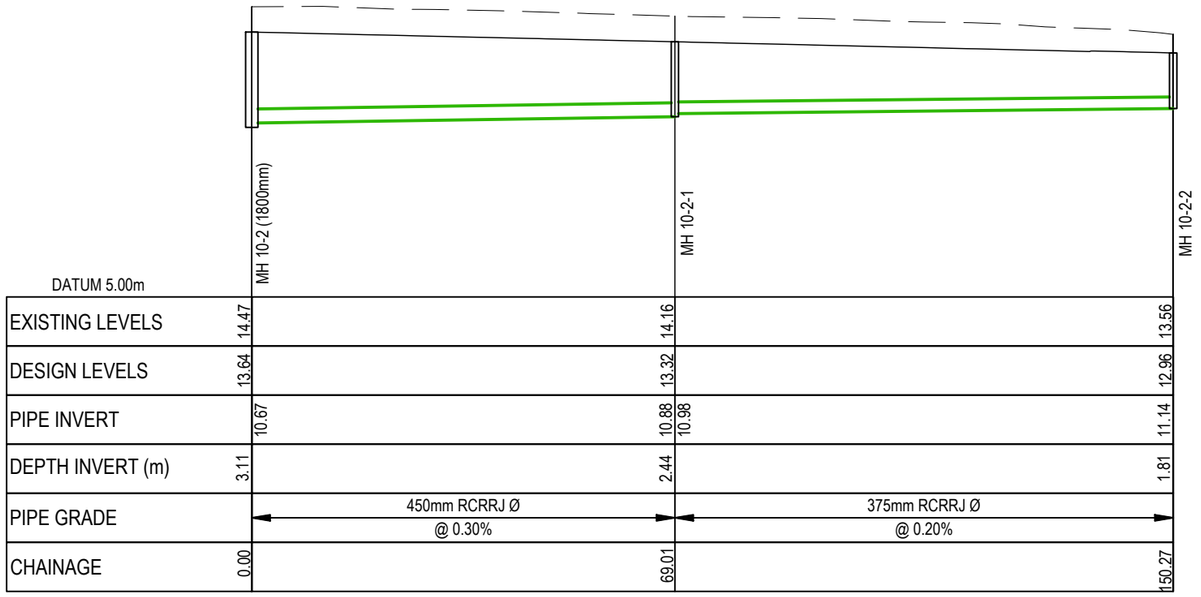
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

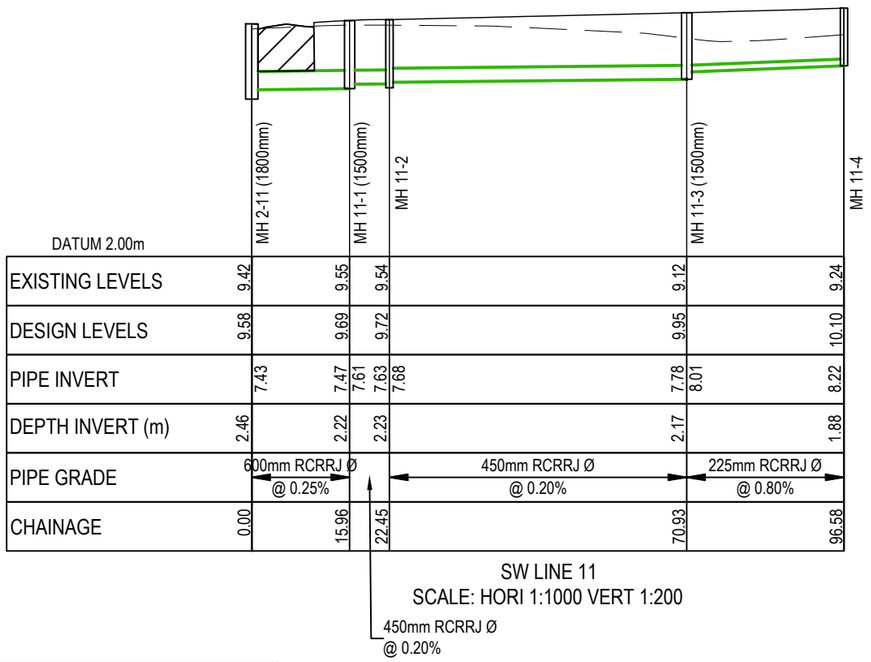
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C429	Rev	H

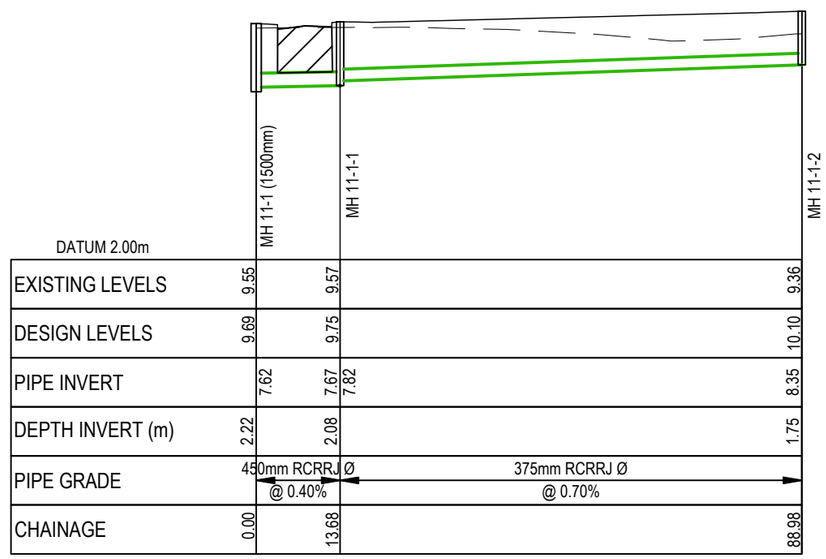
DATE 4/1/23



SW LINE 10-2-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 11
SCALE: HORI 1:1000 VERT 1:200



SW LINE 11-1-1
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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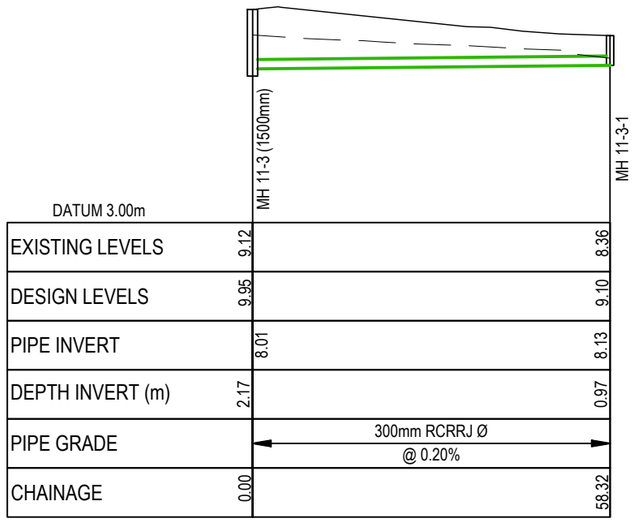
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

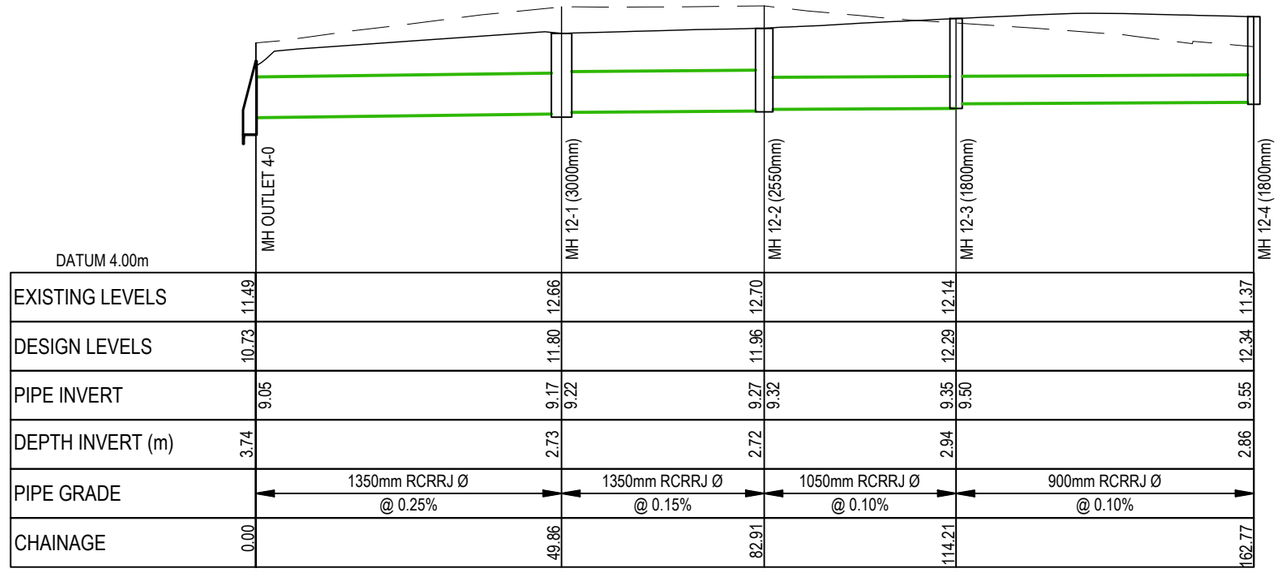
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

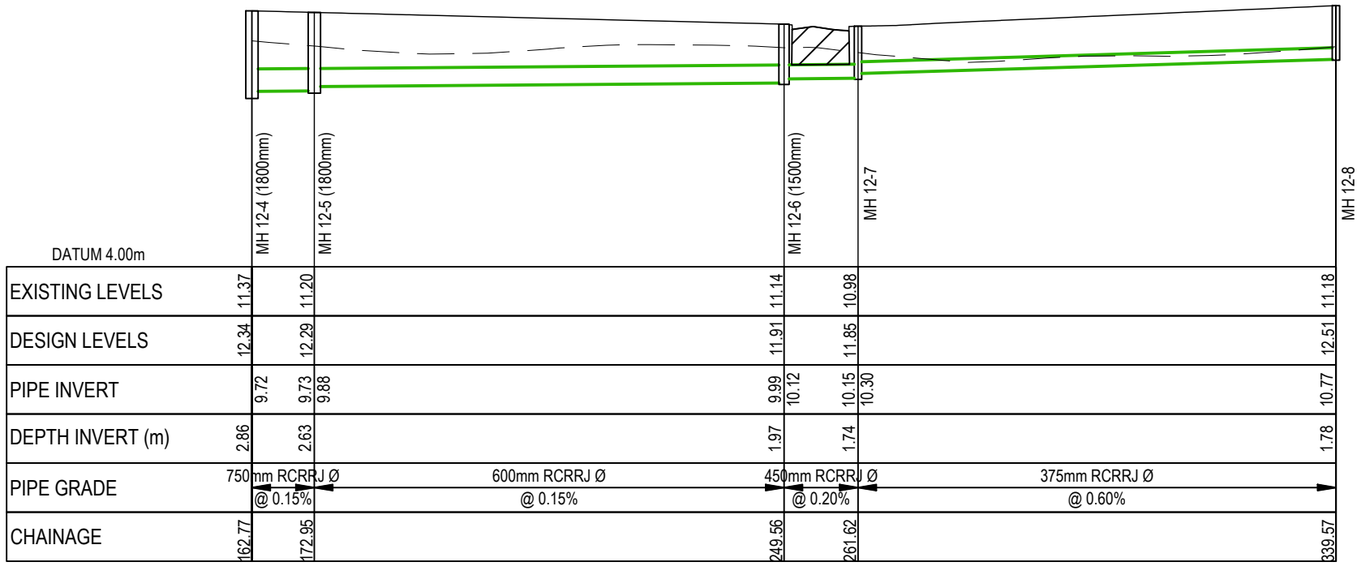
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C430 Rev H



SW LINE 11-3-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 12 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200



SW LINE 12 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

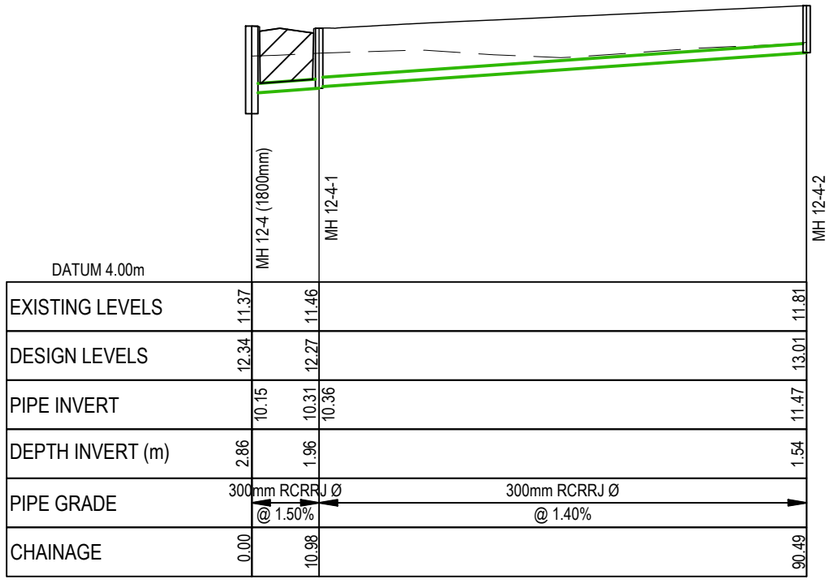
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

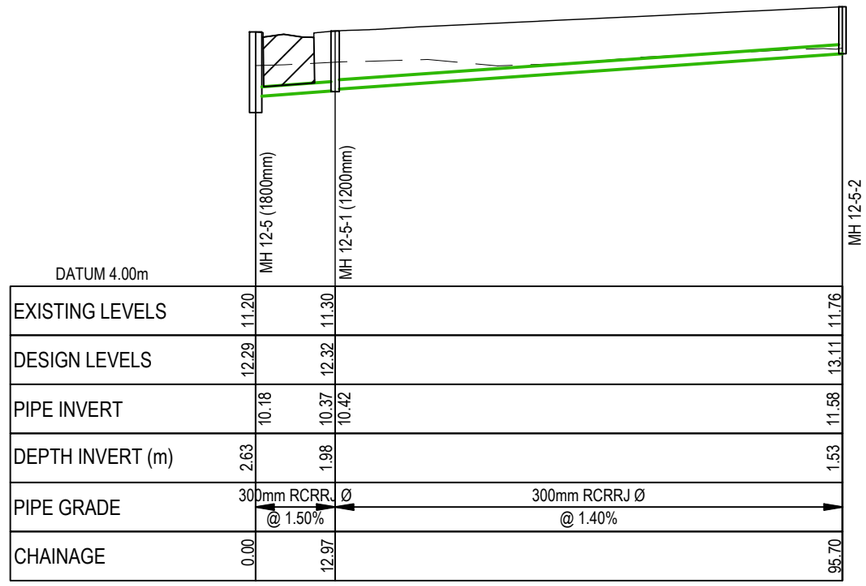
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

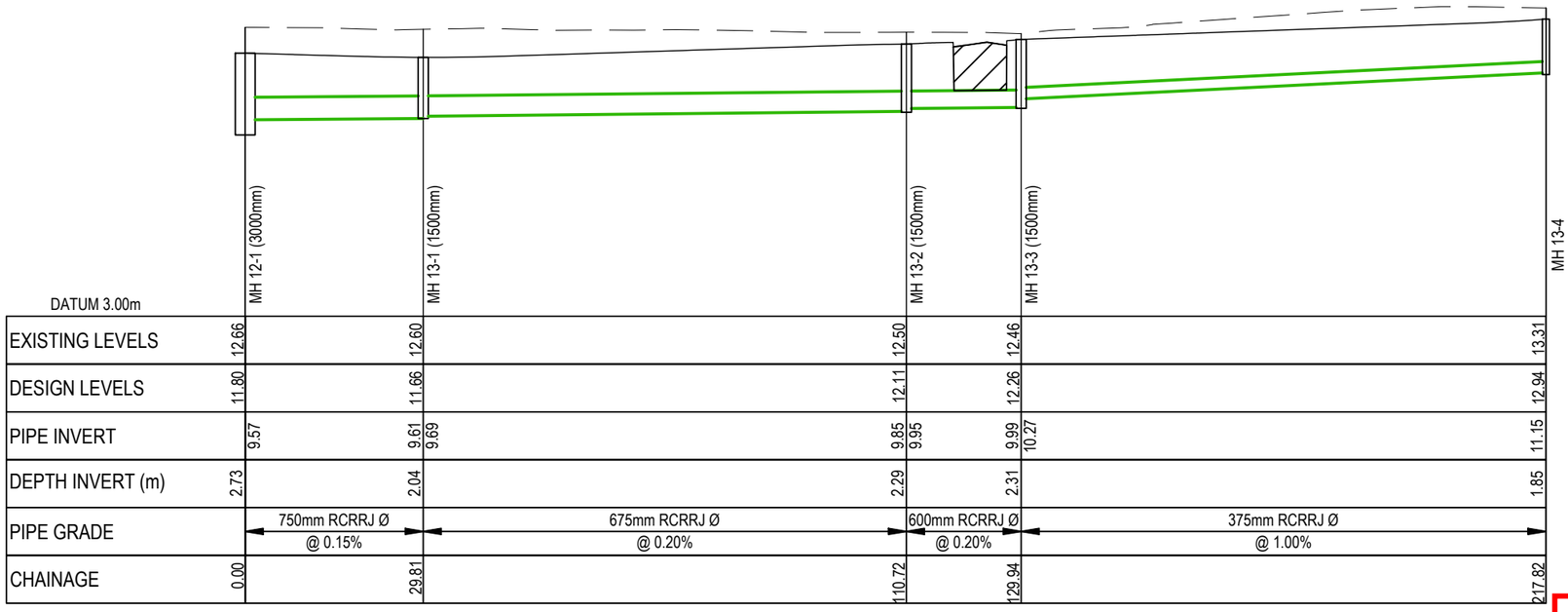
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C431 Rev H



SW LINE 12-4-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 12-5-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 13
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

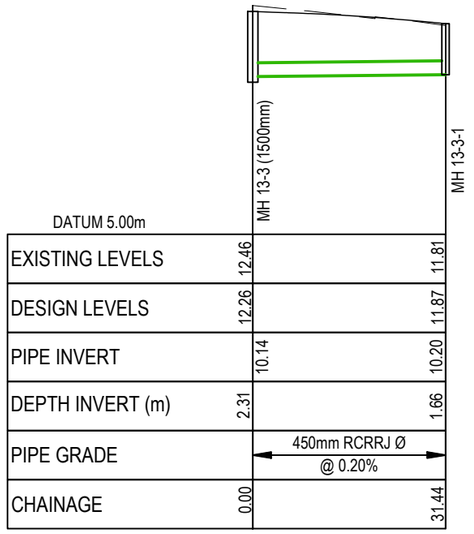
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C432 Rev H

Auckland Council

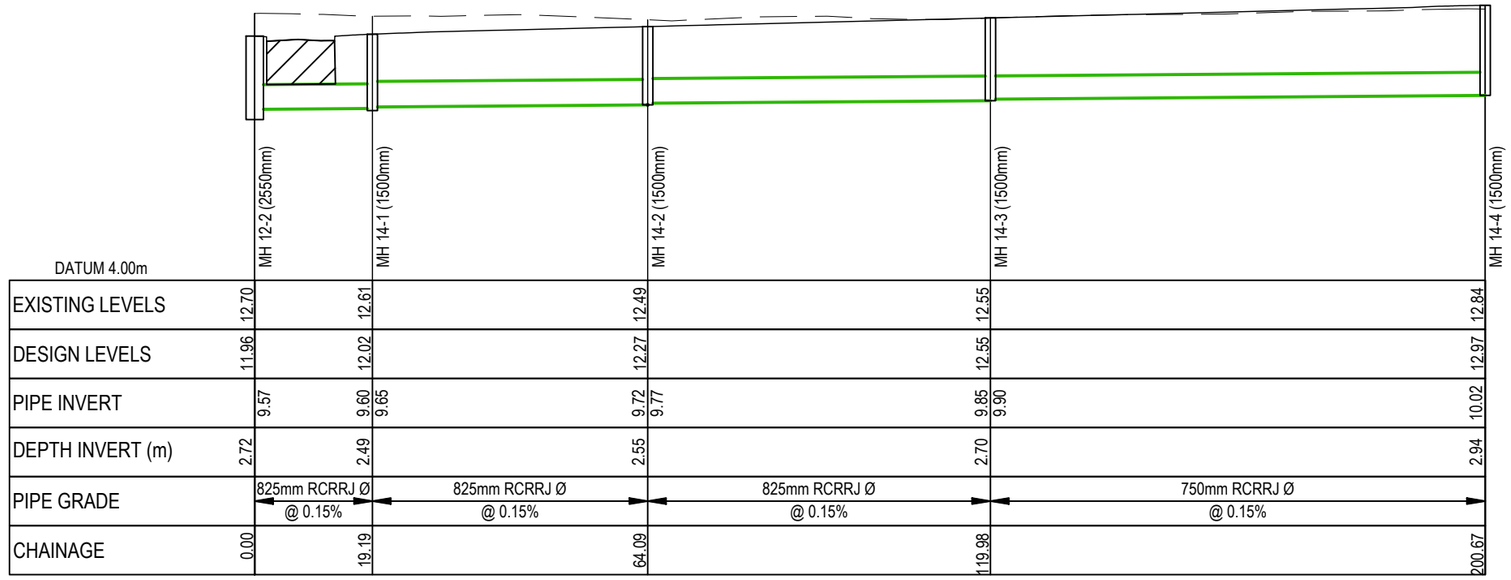
BUN60399307

Approved Resource Consent Plan

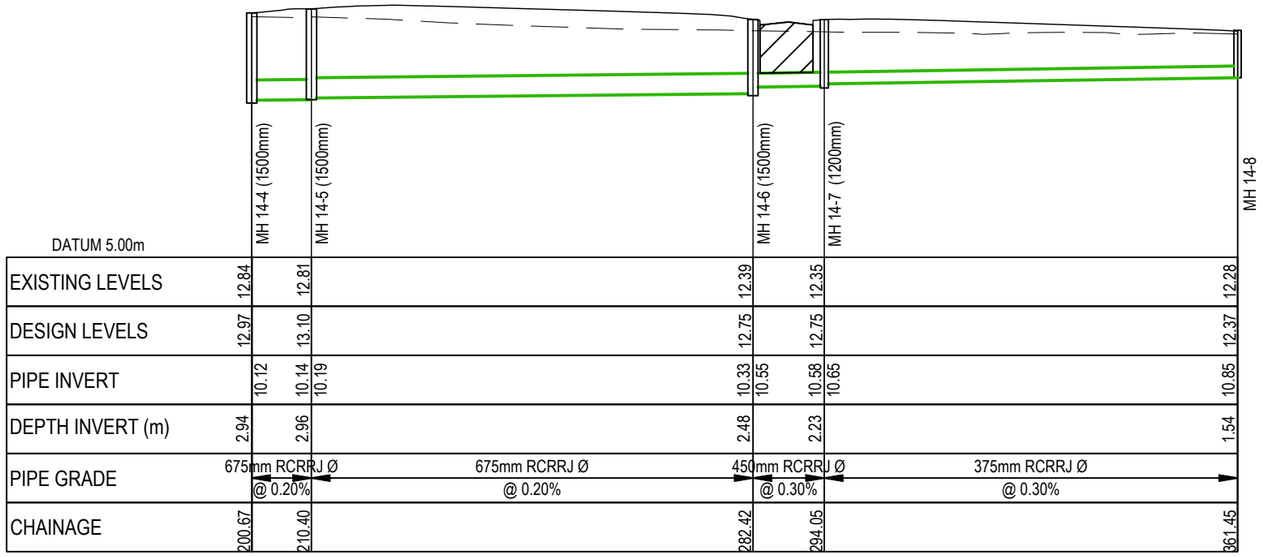
01/09/2023



SW LINE 13-3-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 14 (1 OF 2)
SCALE: HORI 1:1000 VERT 1:200



SW LINE 14 (2 OF 2)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Notes

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C433	Rev	H

Auckland Council

BUN60399307

Approved Resource Consent Plan

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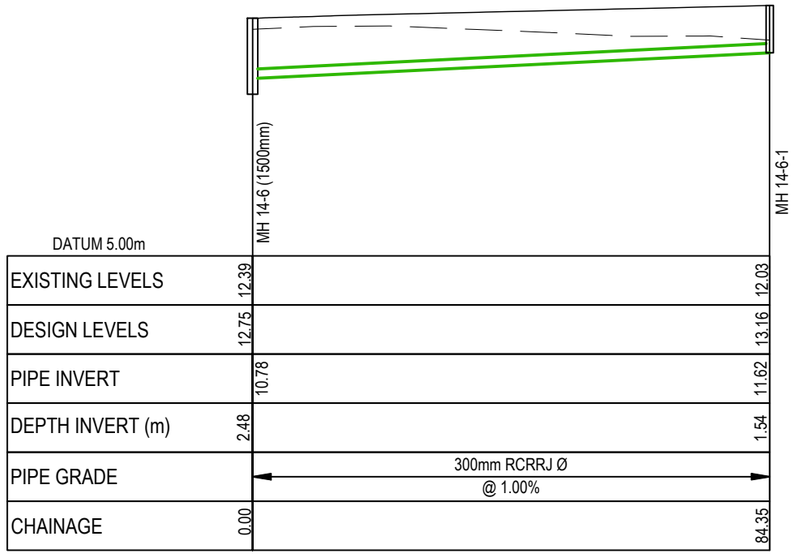
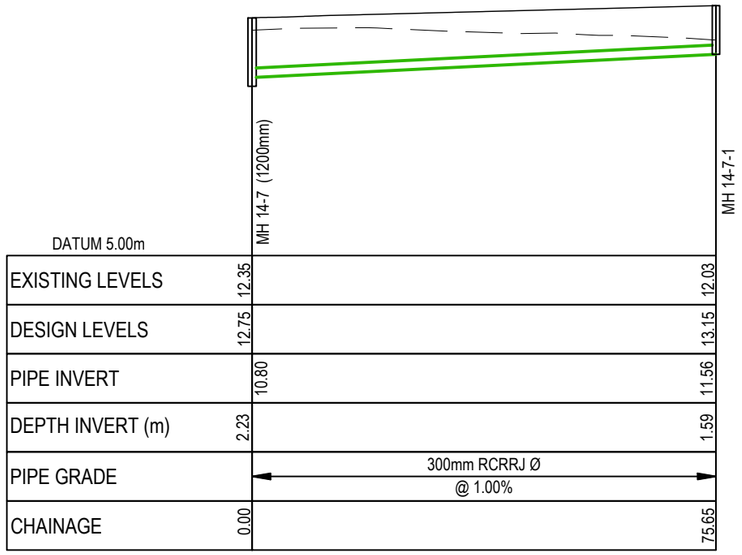
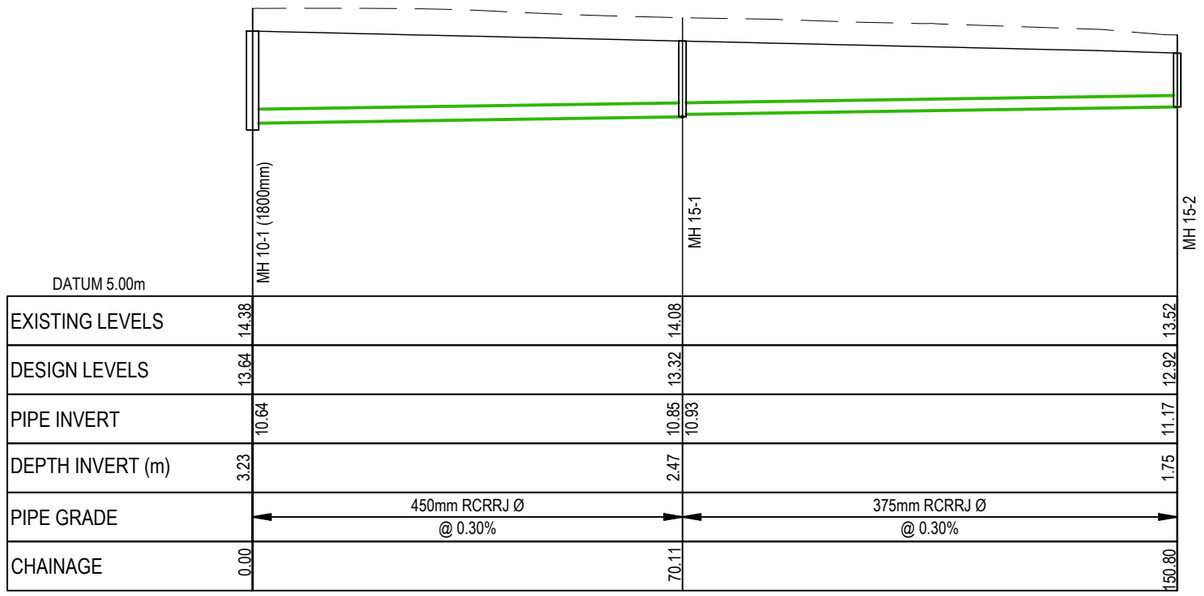


SW LINE 14-6-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 14-7-1
SCALE: HORI 1:1000 VERT 1:200



SW LINE 15
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/12/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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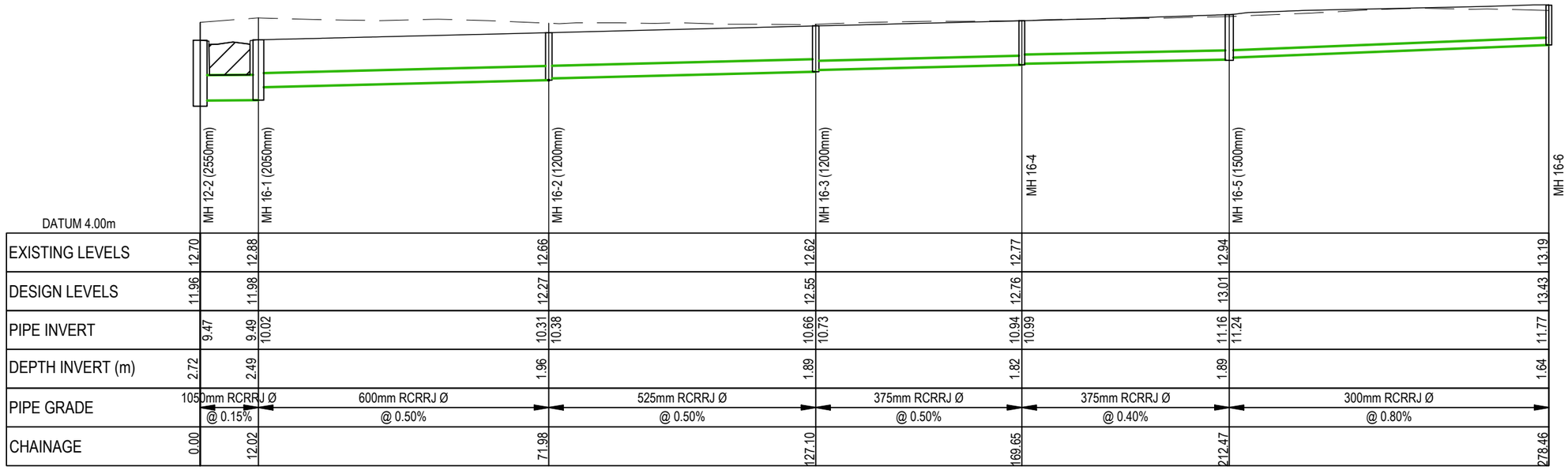
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

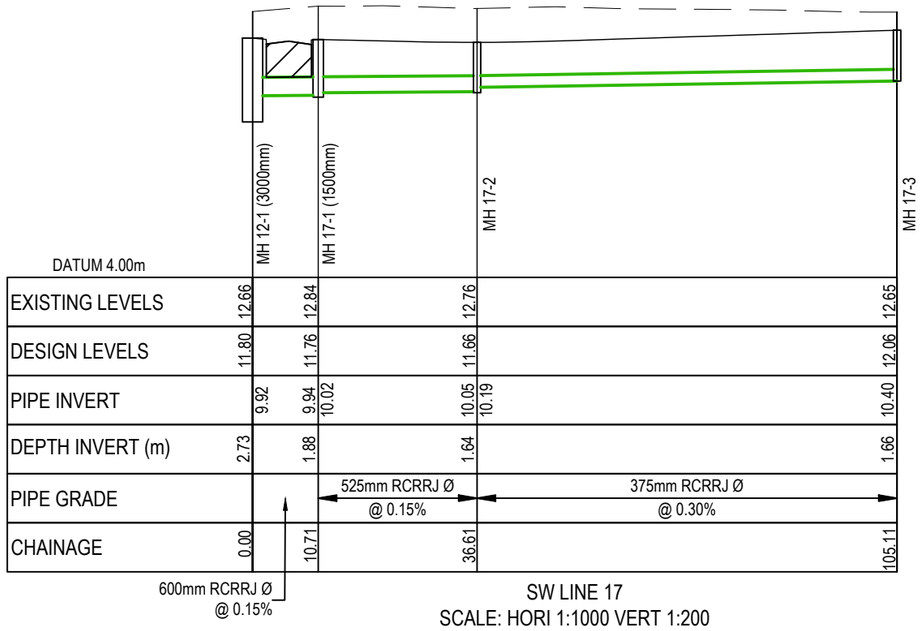
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C434 Rev H



SW LINE 16
SCALE: HORI 1:1000 VERT 1:200



SW LINE 17
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Auckland Council

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01/09/2023

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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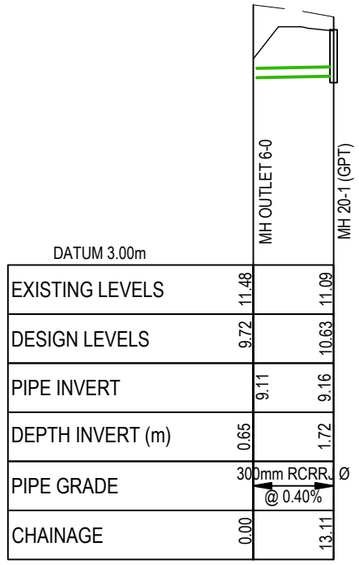
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

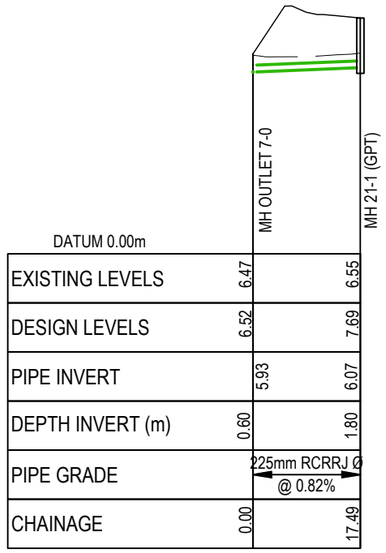
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C435 Rev H



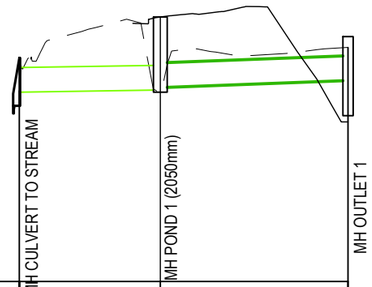
DATUM 3.00m			
EXISTING LEVELS	11.48		11.09
DESIGN LEVELS	9.72		10.63
PIPE INVERT	9.11		9.16
DEPTH INVERT (m)	0.65		1.72
PIPE GRADE	300mm RCRRJ Ø @ 0.40%		
CHAINAGE	0.00		13.11

SW LINE 20
SCALE: HORI 1:1000 VERT 1:200



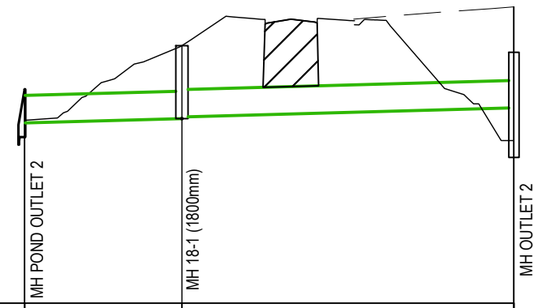
DATUM 0.00m			
EXISTING LEVELS	6.47		6.55
DESIGN LEVELS	6.52		7.69
PIPE INVERT		5.93	6.07
DEPTH INVERT (m)	0.60		1.80
PIPE GRADE		225mm RCRRJ Ø @ 0.82%	
CHAINAGE	0.00		17.49

SW LINE 21
SCALE: HORI 1:1000 VERT 1:200



DATUM -1.00m				
EXISTING LEVELS	5.22	5.14		6.63
DESIGN LEVELS		7.62		4.20
PIPE INVERT	5.17	5.24	5.32	5.55
DEPTH INVERT (m)	1.35	2.45		2.58
PIPE GRADE		825mm RCRRJ Ø @ 0.30%		825mm RCRRJ Ø @ 0.75%
CHAINAGE	0.00	22.99		53.61

POND OUTLET 1
SCALE: HORI 1:1000 VERT 1:200



DATUM 2.00m				
EXISTING LEVELS				11.66
DESIGN LEVELS	7.96	10.40		
PIPE INVERT	7.88	8.02	8.07	8.37
DEPTH INVERT (m)	3.10	2.38		3.43
PIPE GRADE		900mm RCRRJ Ø @ 0.55%		900mm RCRRJ Ø @ 0.55%
CHAINAGE	0.00	25.66		79.80

POND OUTLET 2
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C436	Rev	H

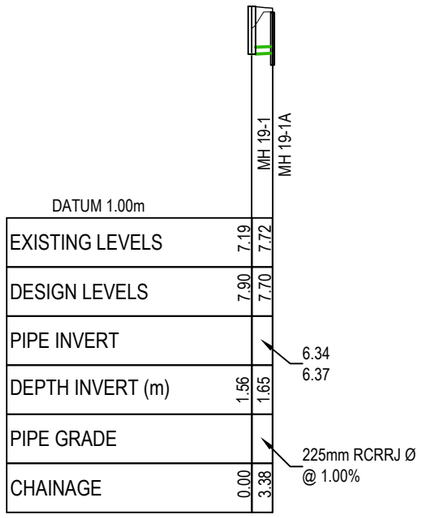
BUN60399307

Approved Resource Consent Plan

01/09/2023

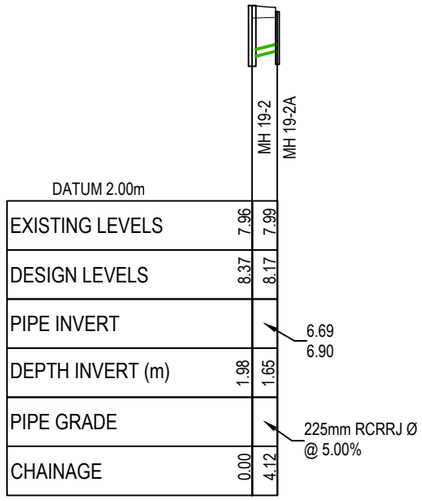
DATUM -1.00m				
EXISTING LEVELS	5.14	7.19	8.21	7.97
DESIGN LEVELS		7.90	8.37	8.46
PIPE INVERT	6.05	6.34 6.39	6.64 6.69	6.95
DEPTH INVERT (m)	2.45	1.56	1.98	1.67
PIPE GRADE		225mm RCRRJ Ø @ 0.55%	225mm RCRRJ Ø @ 0.50%	225mm RCRRJ Ø @ 0.40%
CHAINAGE	0.00	53.01	104.46	169.44

SW LINE 19
SCALE: HORI 1:1000 VERT 1:200



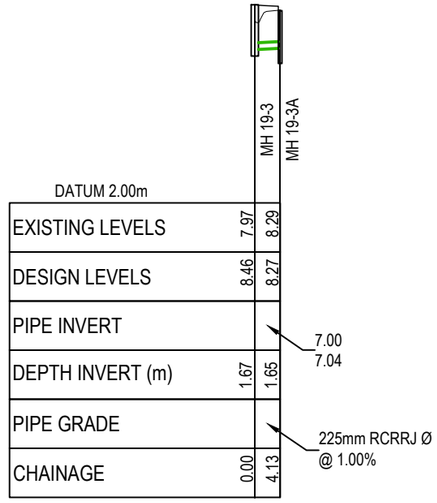
DATUM 1.00m		
EXISTING LEVELS	7.19	7.72
DESIGN LEVELS	7.90	7.70
PIPE INVERT		6.34 6.37
DEPTH INVERT (m)	1.56	1.65
PIPE GRADE		225mm RCRRJ Ø @ 1.00%
CHAINAGE	0.00	3.38

CP19-1A
SCALE: HORI 1:1000 VERT 1:200



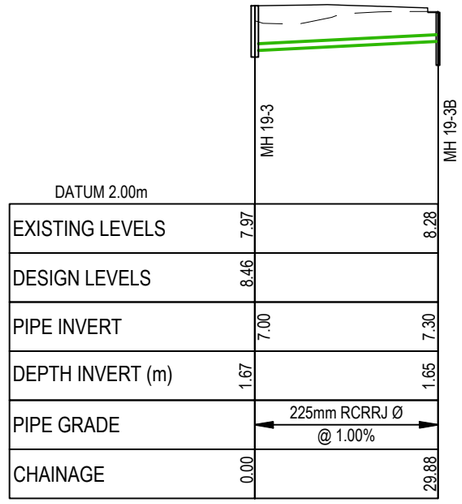
DATUM 2.00m		
EXISTING LEVELS	7.96	7.99
DESIGN LEVELS	8.37	8.17
PIPE INVERT		6.69 6.90
DEPTH INVERT (m)	1.98	1.65
PIPE GRADE		225mm RCRRJ Ø @ 5.00%
CHAINAGE	0.00	4.12

CP19-2A
SCALE: HORI 1:1000 VERT 1:200



DATUM 2.00m		
EXISTING LEVELS	7.97	8.29
DESIGN LEVELS	8.46	8.27
PIPE INVERT		7.00 7.04
DEPTH INVERT (m)	1.67	1.65
PIPE GRADE		225mm RCRRJ Ø @ 1.00%
CHAINAGE	0.00	4.13

19-3A
SCALE: HORI 1:1000 VERT 1:200



DATUM 2.00m		
EXISTING LEVELS	7.97	8.28
DESIGN LEVELS	8.46	
PIPE INVERT	7.00	7.30
DEPTH INVERT (m)	1.67	1.65
PIPE GRADE		225mm RCRRJ Ø @ 1.00%
CHAINAGE	0.00	29.88

CP 19-3B
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Notes

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Legend

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PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
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G	EPA RFI	ML	02/2022
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E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

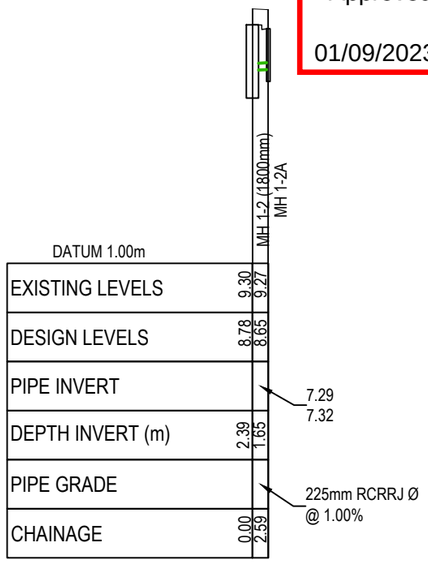
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437 Rev H

BUN60399307

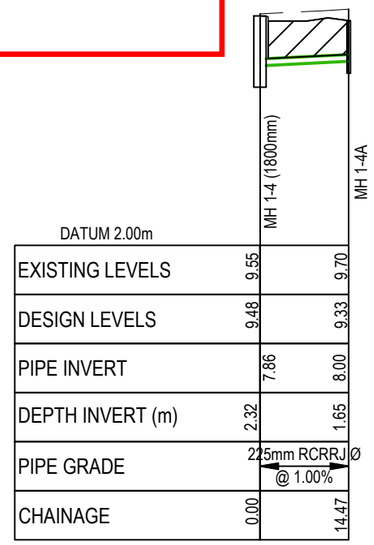
Approved Resource Consent Plan

01/09/2023



CP1-2A

SCALE: HORI 1:1000 VERT 1:200



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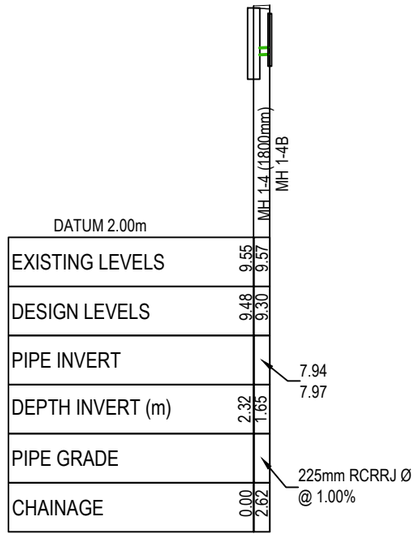
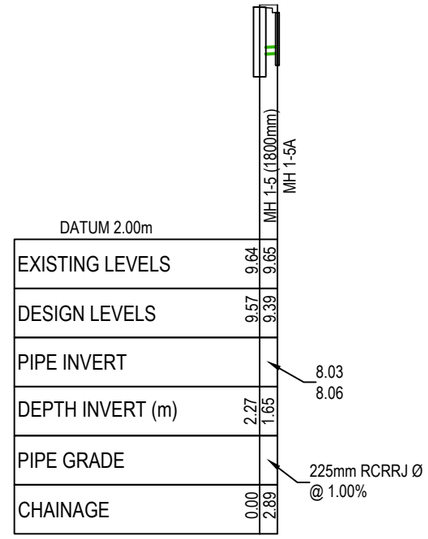
SCALE: HORI 1:1000 VERT 1:200



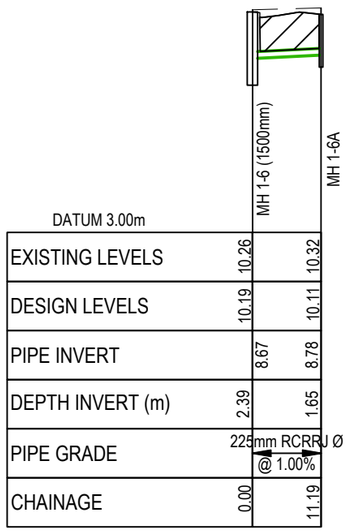
CP1-4B

SCALE: HORI 1:1000 VERT 1:200



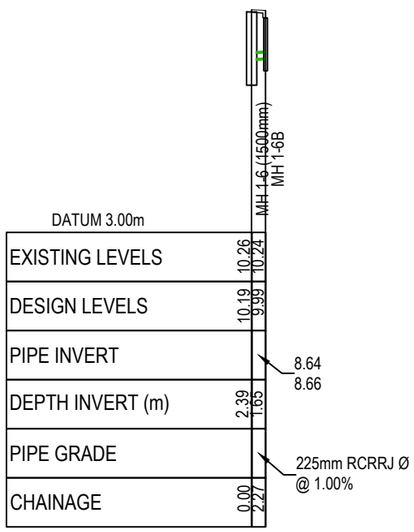
CP1-5A

SCALE: HORI 1:1000 VERT 1:200



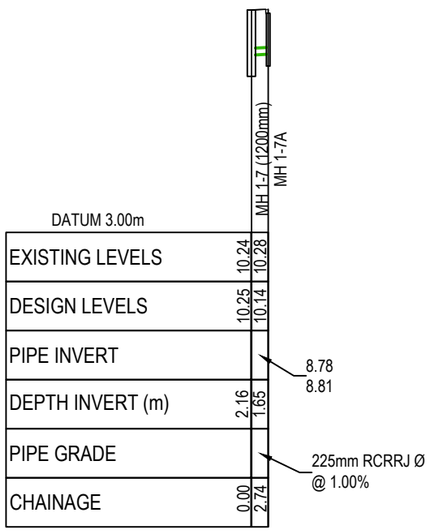
CP1-6A

SCALE: HORI 1:1000 VERT 1:200



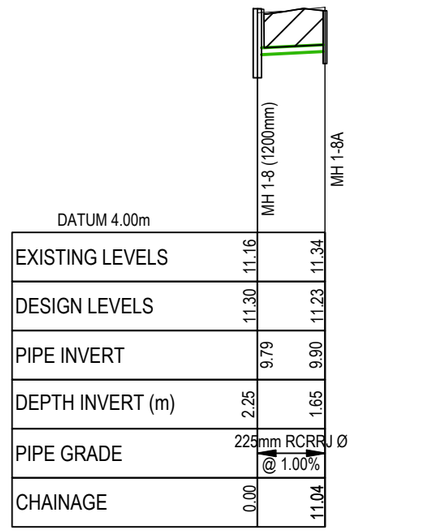
CP1-6B

SCALE: HORI 1:1000 VERT 1:200



CP1-7A

SCALE: HORI 1:1000 VERT 1:200



CP1-8A

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
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	By	Date
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

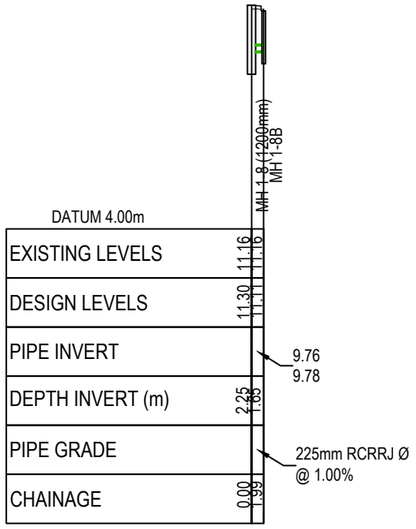
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437A	Rev	H

BUN60399307

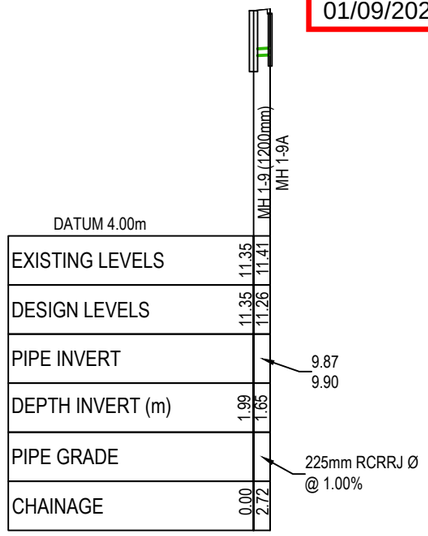
Approved Resource Consent Plan

01/09/2023



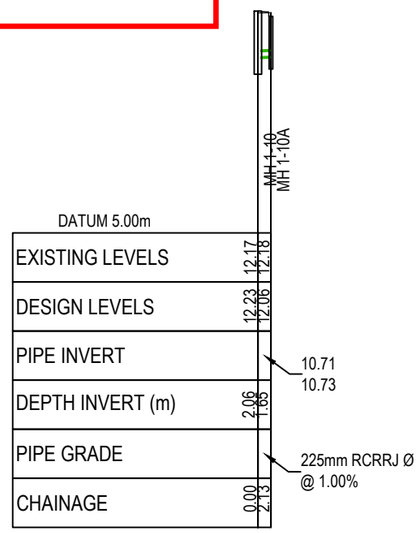
CP1-8B

SCALE: HORI 1:1000 VERT 1:200



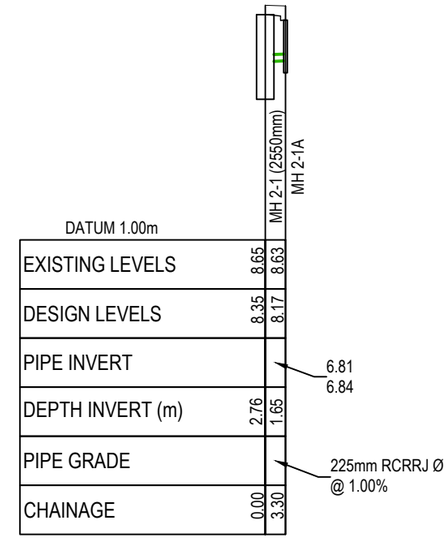
CP1-9A

SCALE: HORI 1:1000 VERT 1:200



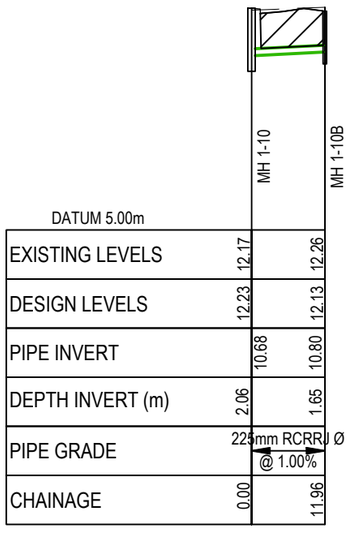
CP1-10A

SCALE: HORI 1:1000 VERT 1:200



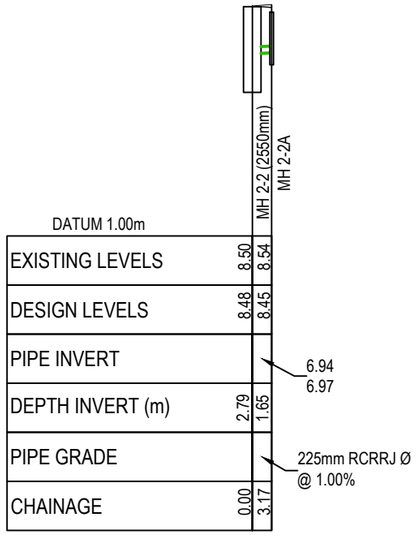
CP2-1A

SCALE: HORI 1:1000 VERT 1:200



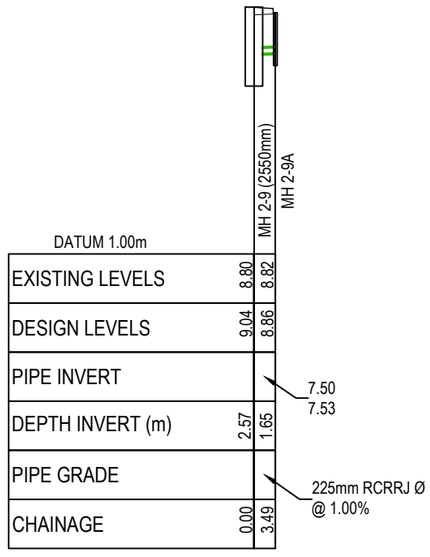
CP1-10B

SCALE: HORI 1:1000 VERT 1:200



CP2-2A

SCALE: HORI 1:1000 VERT 1:200



CP2-9A

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

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PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
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E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
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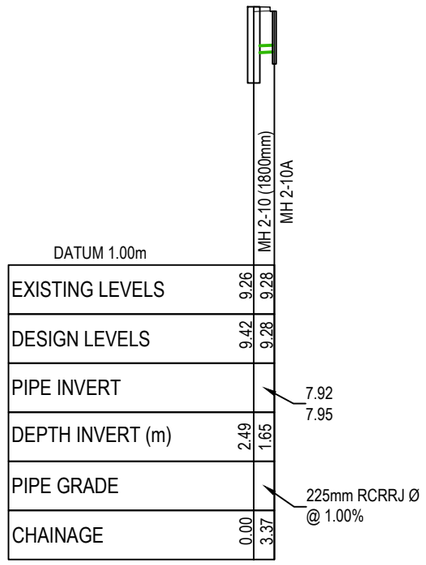
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437B	Rev	H



CP2-10A
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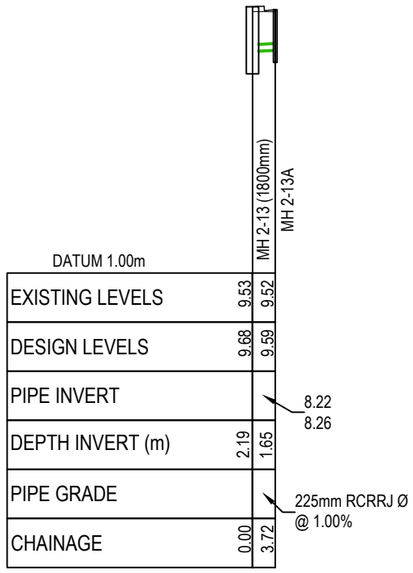

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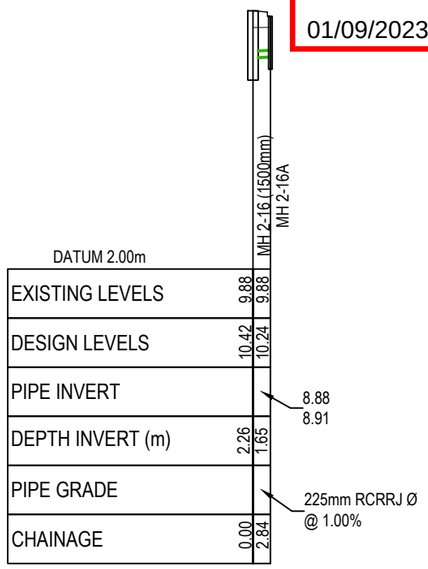

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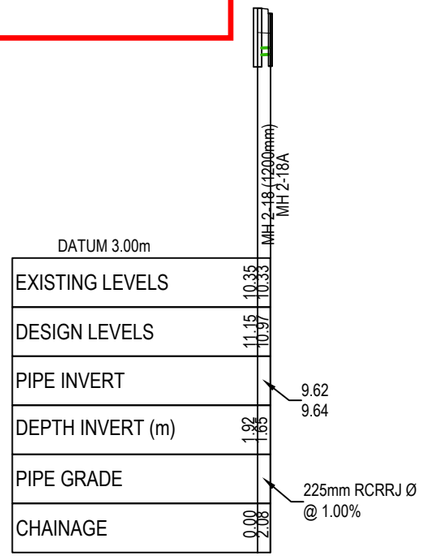

CP2-18A
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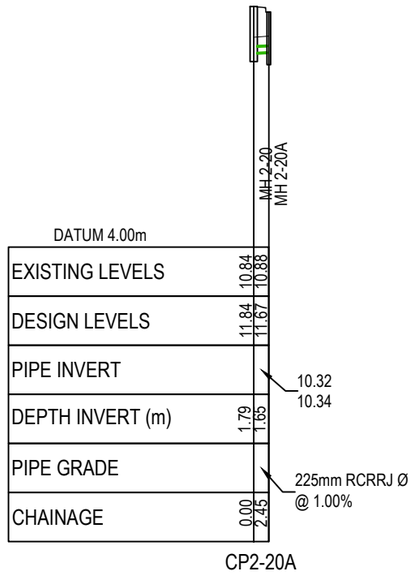

CP2-20A
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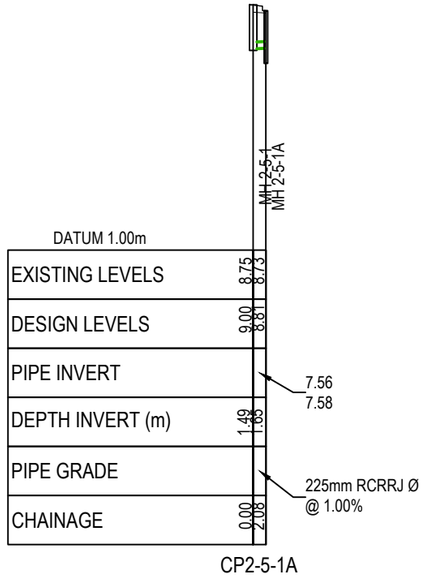
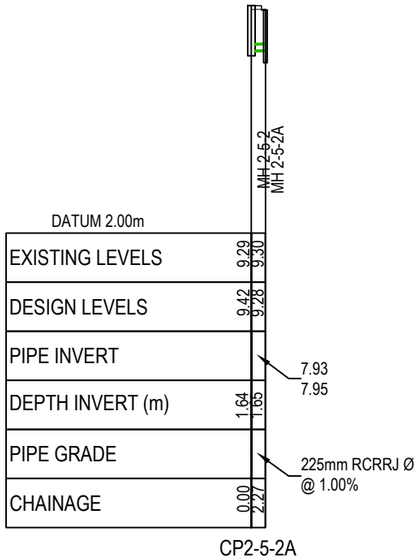
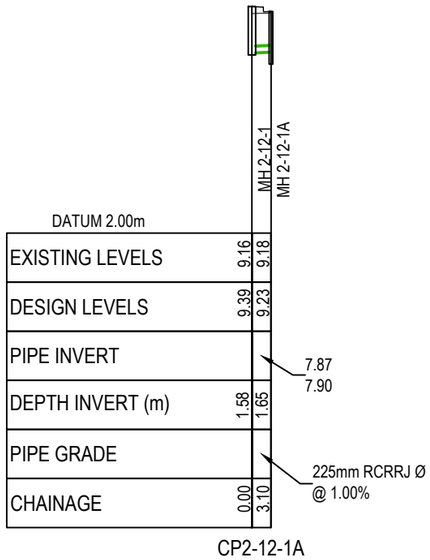


CP2-5-1A
SCALE: HORI 1:1000 VERT 1:200



CP2-5-2A
SCALE: HORI 1:1000 VERT 1:200



CP2-12-1A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/12/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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PROP FINISHED LEVEL
HARDFILL BACKFILL

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F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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5 Owens Road, Epsom
Auckland 1023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

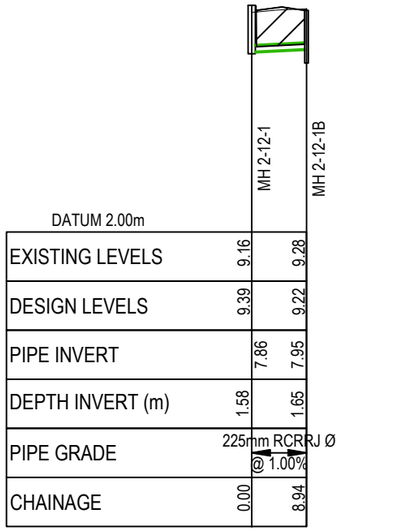
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437C	Rev	H

BUN60399307

Approved Resource Consent Plan

01/09/2023



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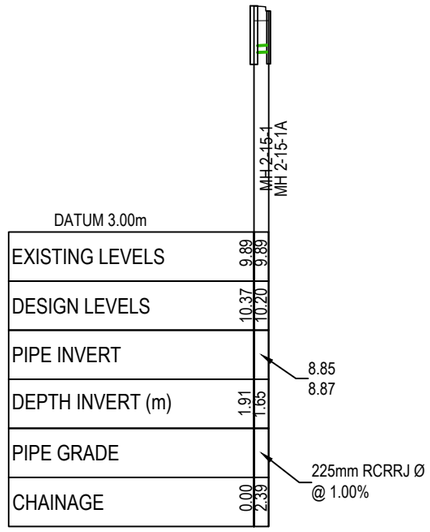

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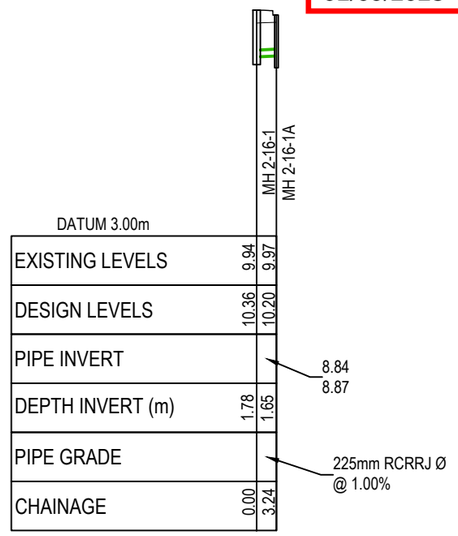

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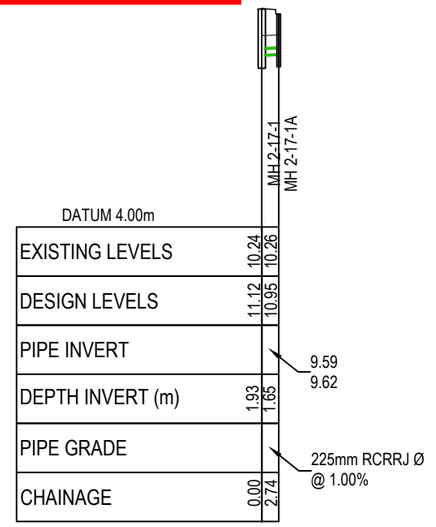

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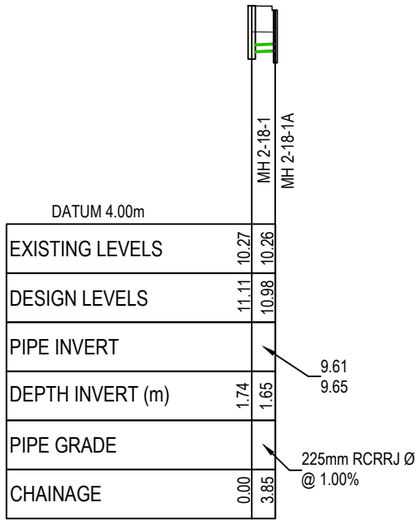

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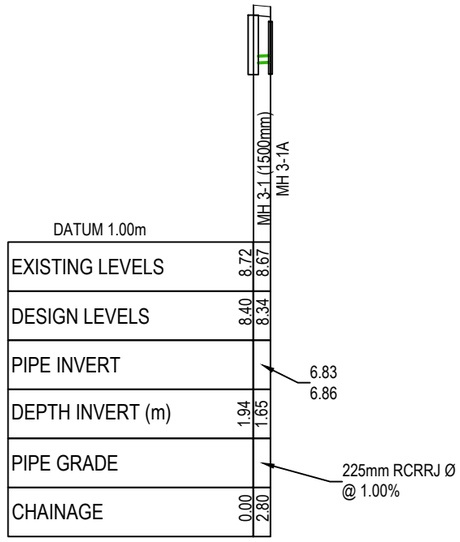

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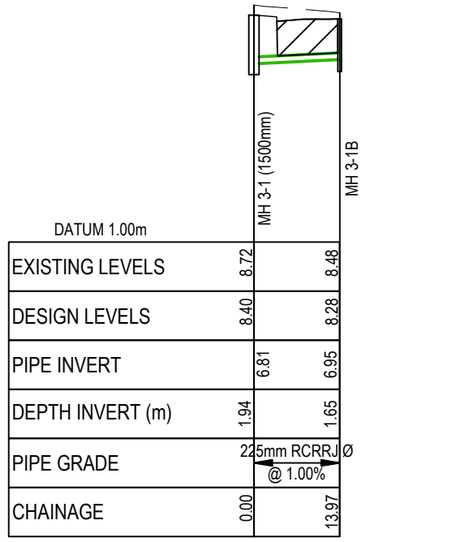

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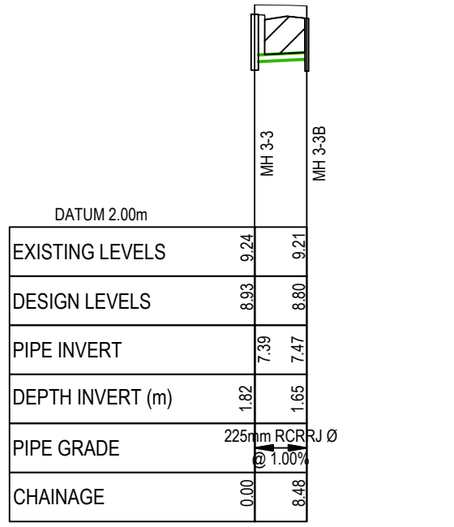

CP3-3B
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
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F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

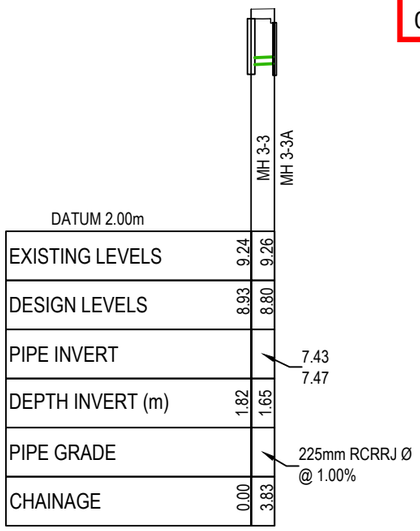
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437D Rev H

BUN60399307

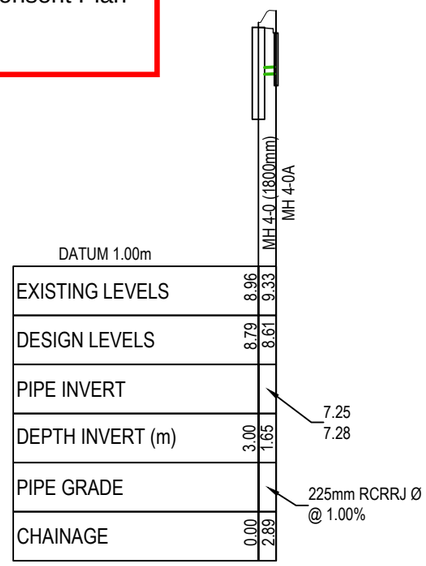
Approved Resource Consent Plan

01/09/2023



CP3-3A

SCALE: HORI 1:1000 VERT 1:200



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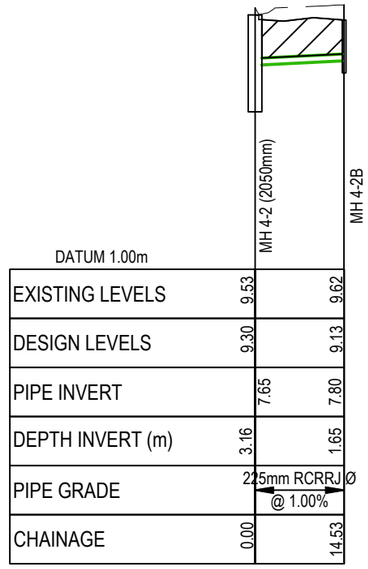
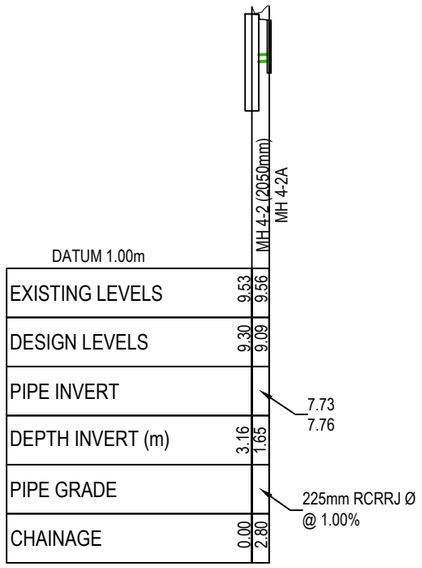
SCALE: HORI 1:1000 VERT 1:200



CP4-2B

SCALE: HORI 1:1000 VERT 1:200



CP4-2A

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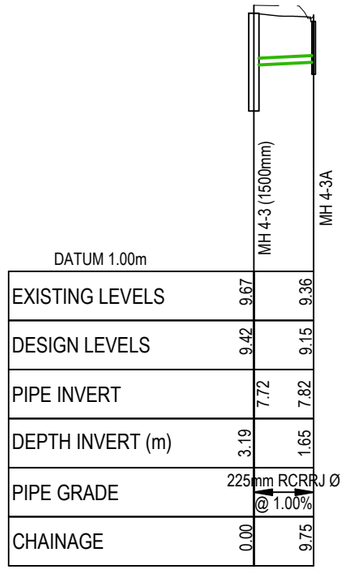

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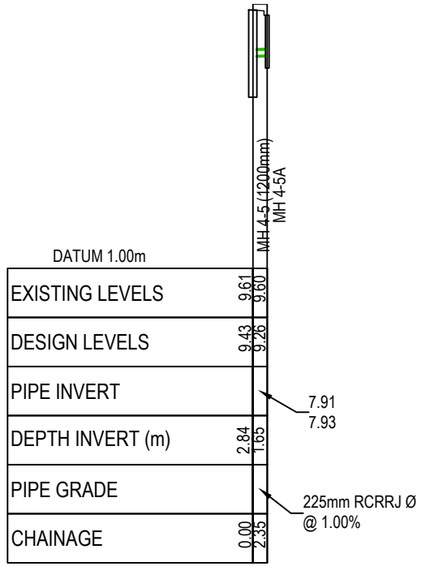

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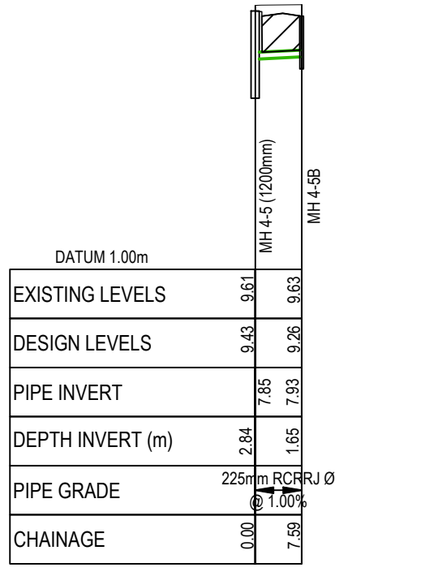

CP4-5B

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

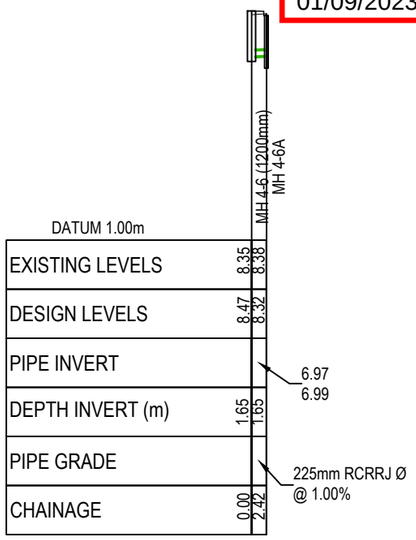
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437E Rev H

BUN60399307

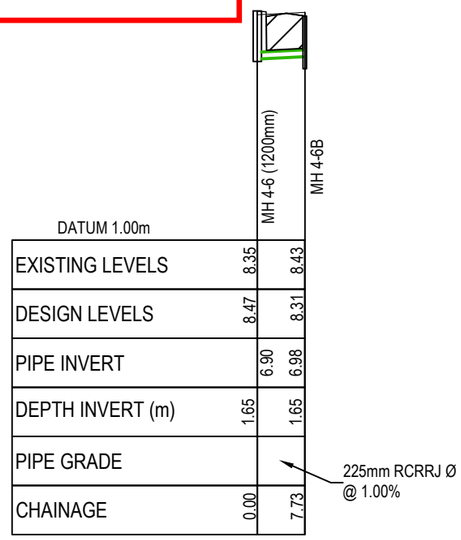
Approved Resource Consent Plan

01/09/2023



CP4-6A

SCALE: HORI 1:1000 VERT 1:200



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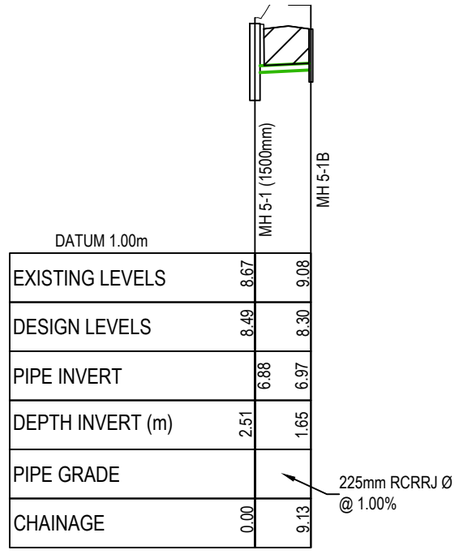
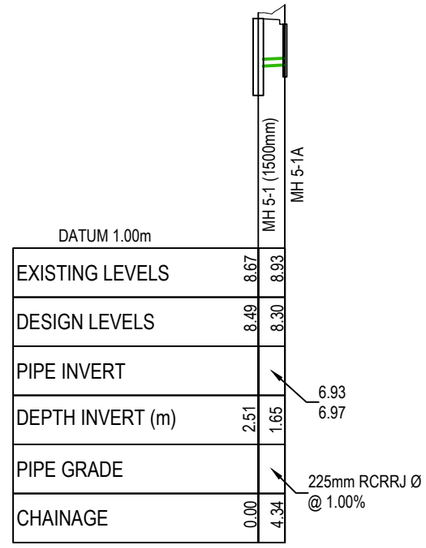


CP5-1B

SCALE: HORI 1:1000 VERT 1:200



CP5-1A

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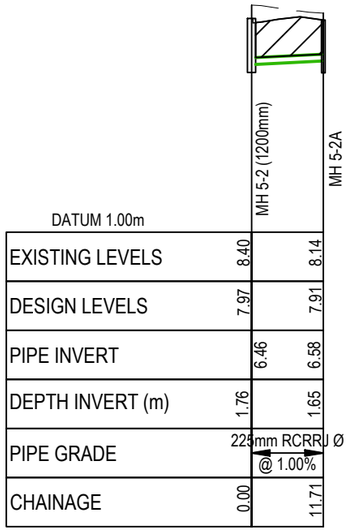

CP5-2A

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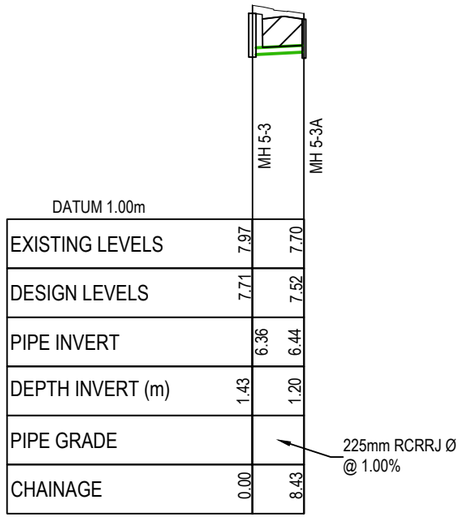

CP5-3A

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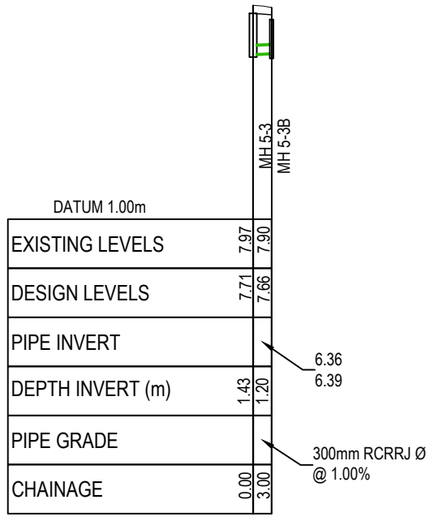

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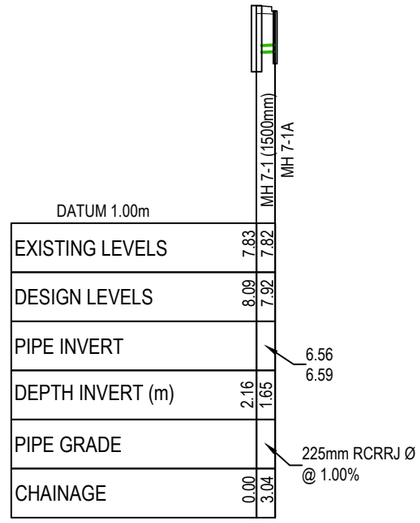

CP7-1A

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

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Cad file	C400- DRAINAGE.DWG
Drawing no.	C437F Rev H

BUN60399307

Approved Resource Consent Plan

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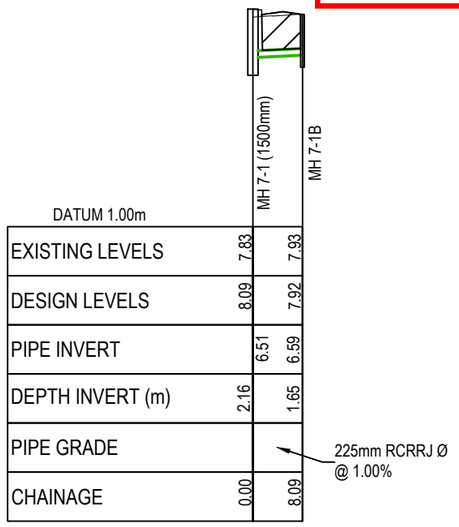

CP7-1B

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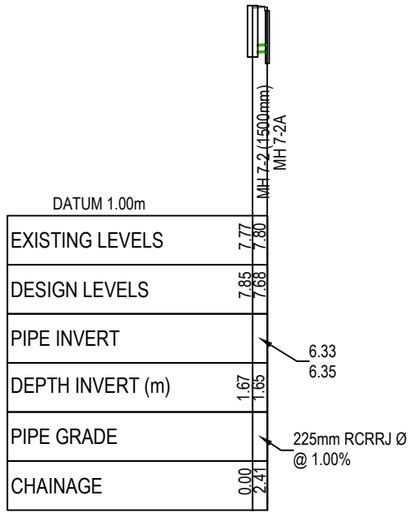
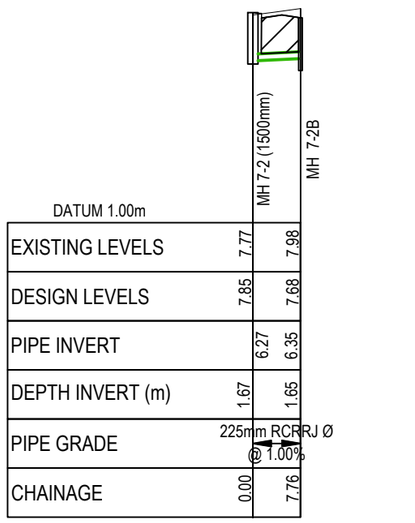


CP7-2A

SCALE: HORI 1:1000 VERT 1:200



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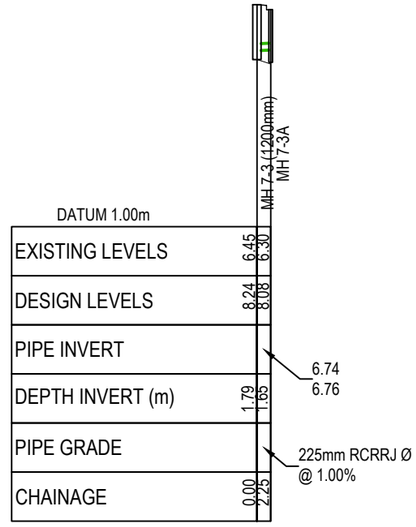

CP7-3A

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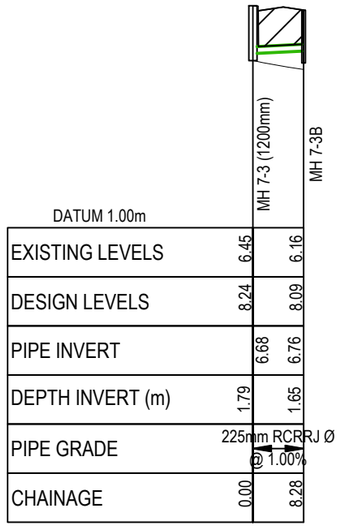
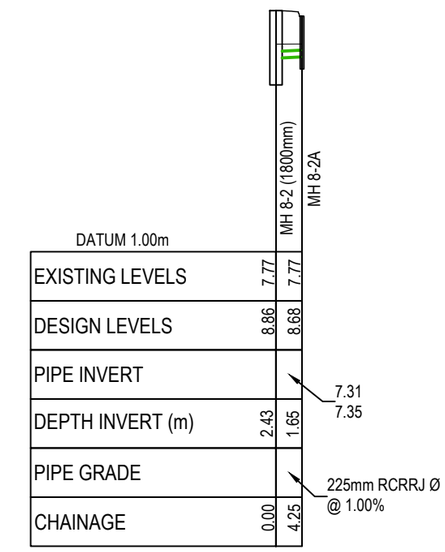


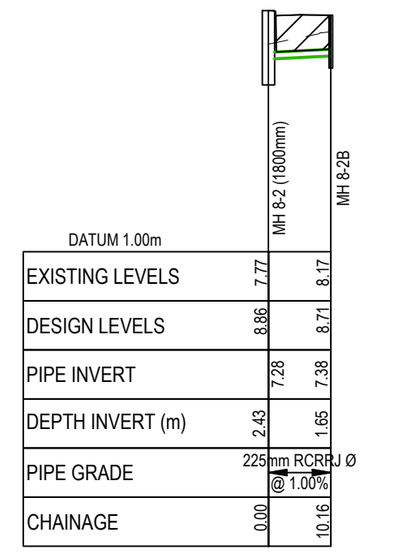
CP7-3B

SCALE: HORI 1:1000 VERT 1:200



CP8-2A

SCALE: HORI 1:1000 VERT 1:200



CP8-2B

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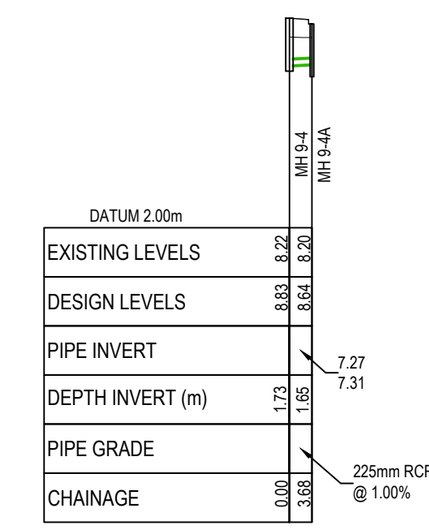

CP9-4A

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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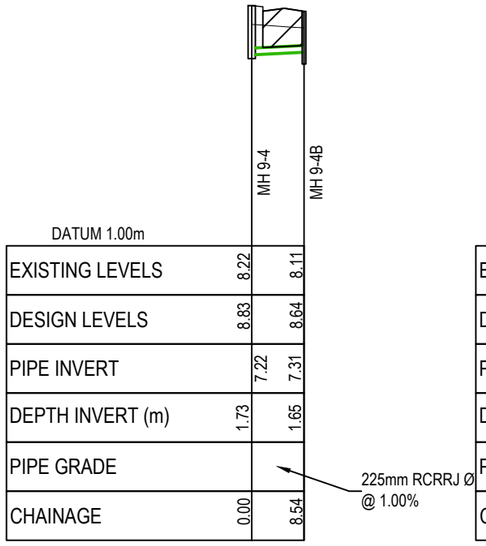
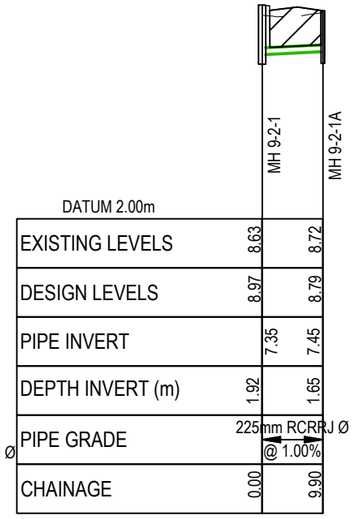
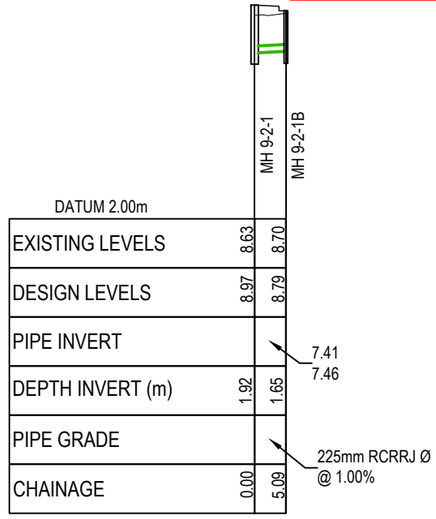


CP9-4B
SCALE: HORI 1:1000 VERT 1:200



CP9-2-1A
SCALE: HORI 1:1000 VERT 1:200



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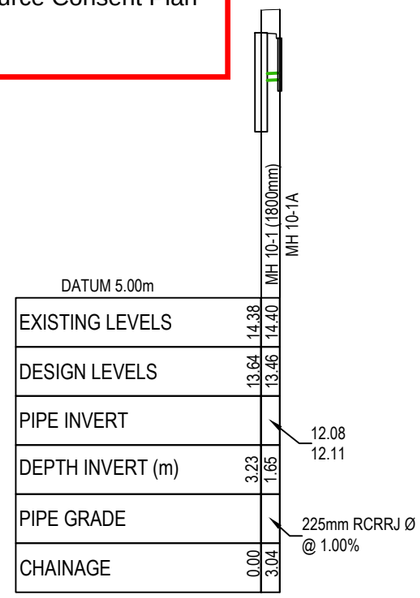
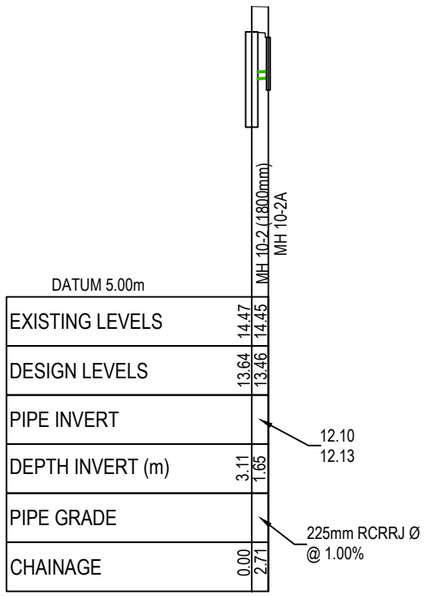


CP10-1A
SCALE: HORI 1:1000 VERT 1:200



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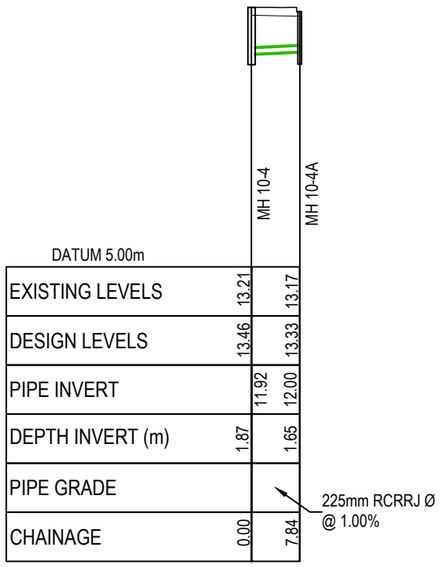

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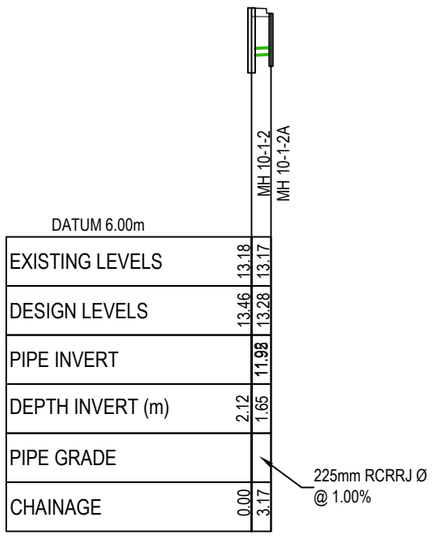

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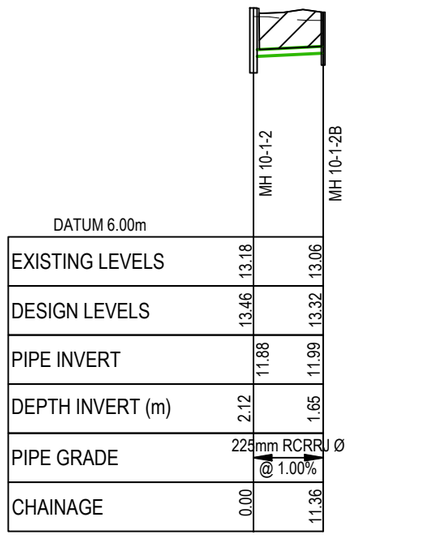
SCALE: HORI 1:1000 VERT 1:200



CP10-1-2B
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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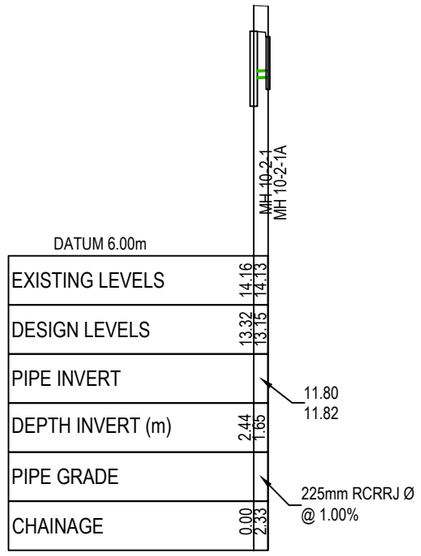
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437H Rev H



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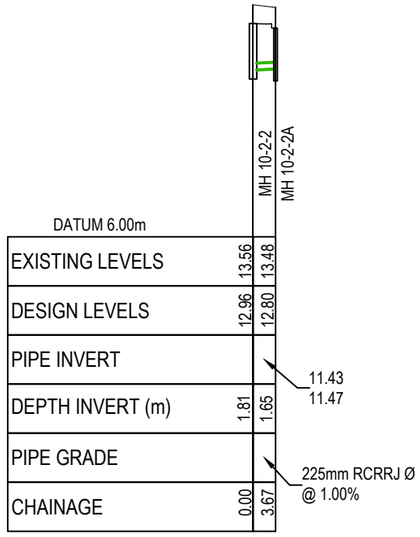

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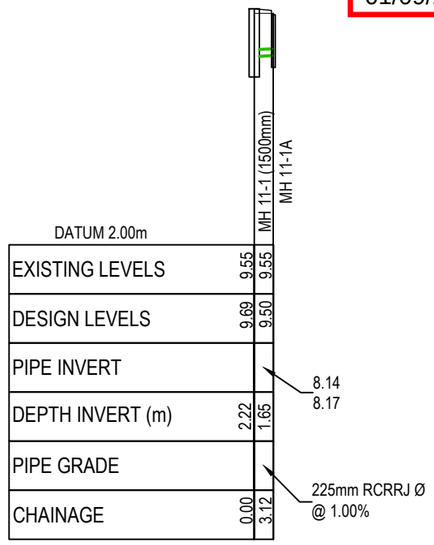
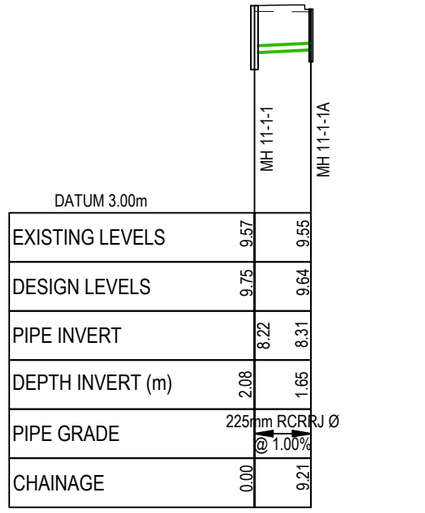


CP11-1A
SCALE: HORI 1:1000 VERT 1:200



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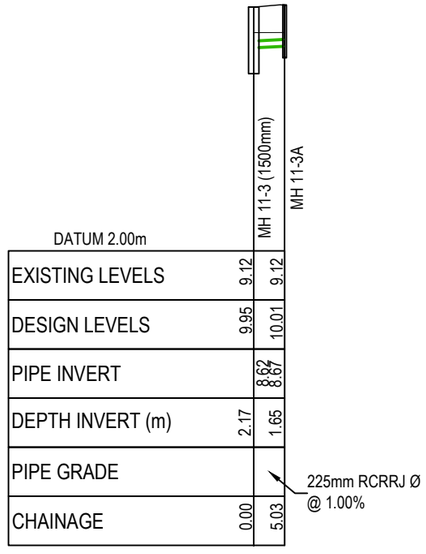
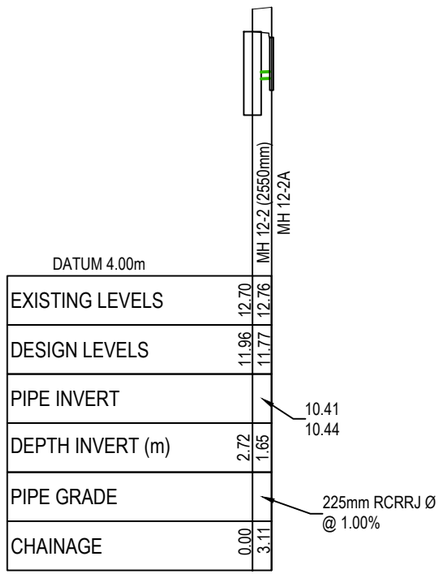
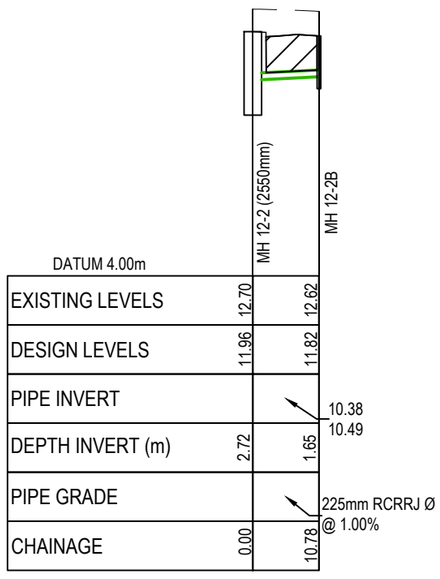
SCALE: HORI 1:1000 VERT 1:200



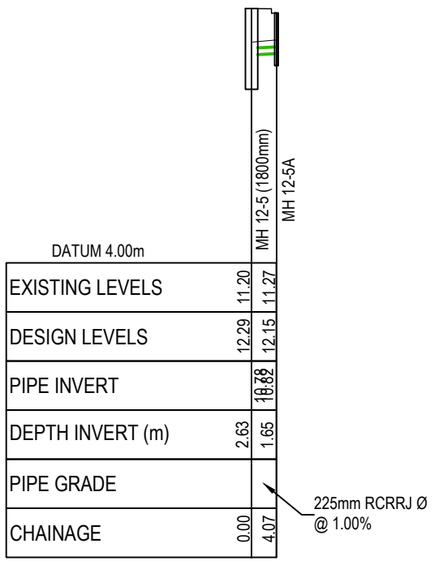
CP11-3A
SCALE: HORI 1:1000 VERT 1:200



CP12-2A
SCALE: HORI 1:1000 VERT 1:200



CP12-2B
SCALE: HORI 1:1000 VERT 1:200



CP12-5A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

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Approved Resource Consent Plan

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
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E	EPA RFI	ML	10/2022

	By	Date
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Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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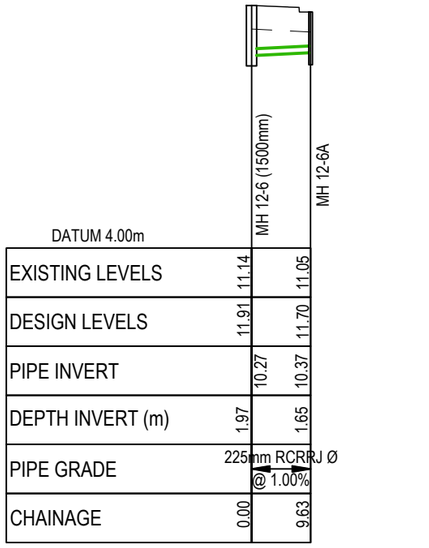
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

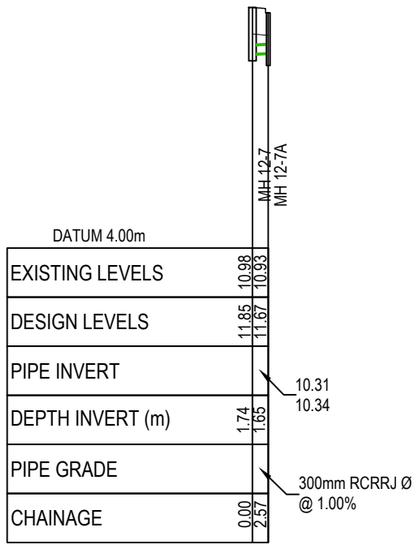
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

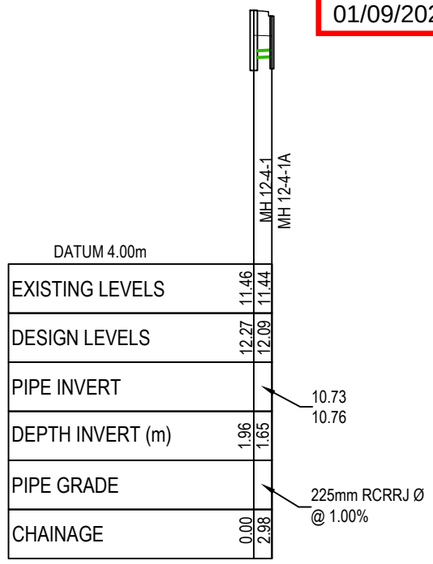
Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437I	Rev	H



CP12-6A
SCALE: HORI 1:1000 VERT 1:200



CP12-7A
SCALE: HORI 1:1000 VERT 1:200



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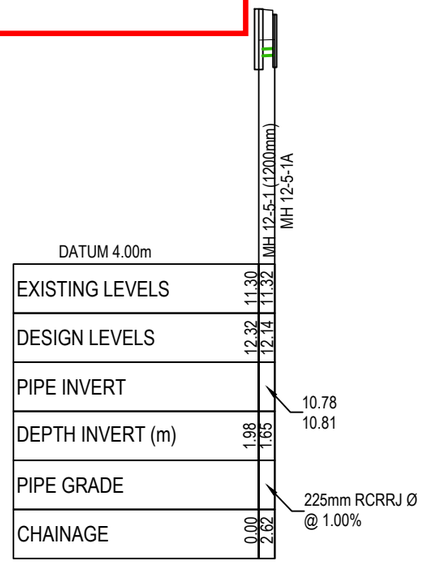

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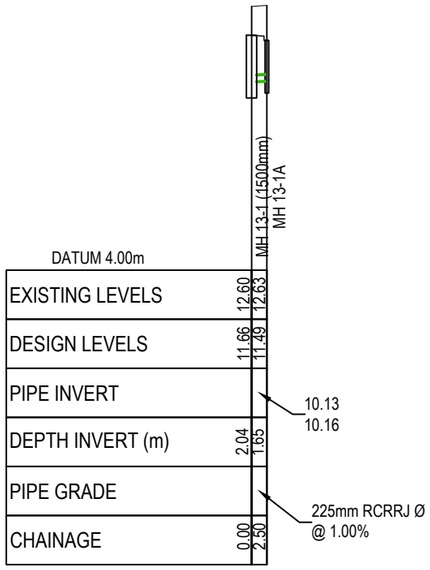
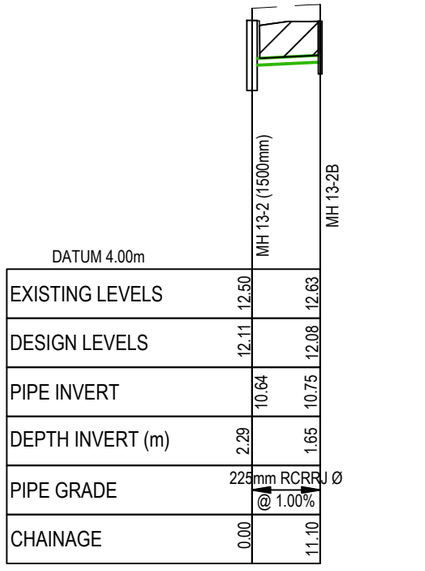
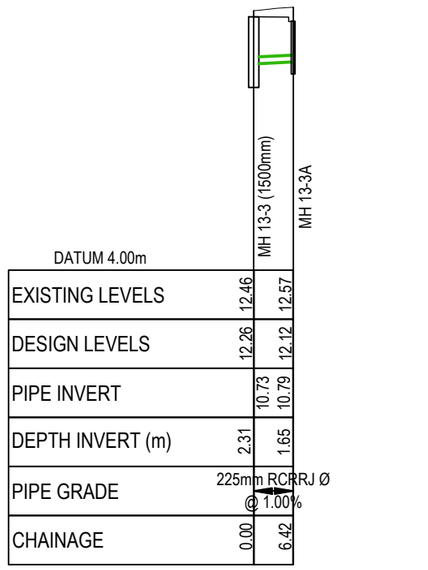
SCALE: HORI 1:1000 VERT 1:200



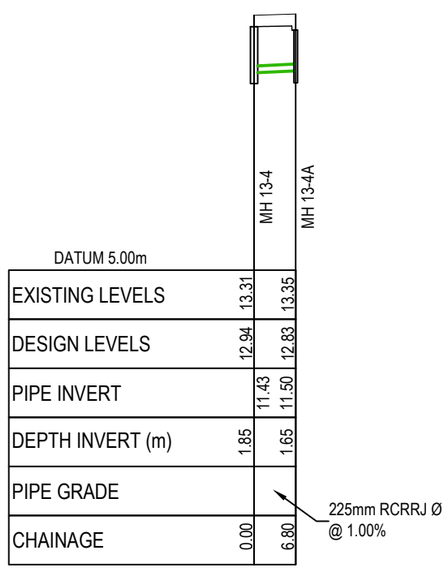
CP13-1A
SCALE: HORI 1:1000 VERT 1:200



CP13-2B
SCALE: HORI 1:1000 VERT 1:200



CP13-3A
SCALE: HORI 1:1000 VERT 1:200



CP13-4A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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HARDFILL BACKFILL

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Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437J	Rev	H

BUN60399307

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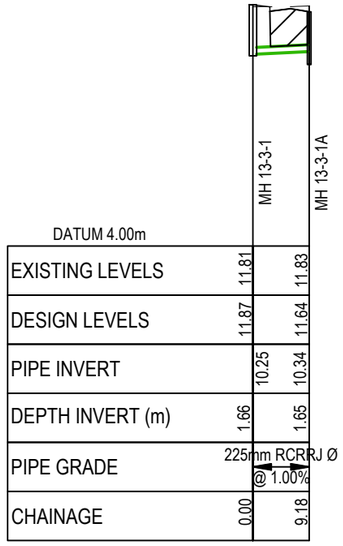

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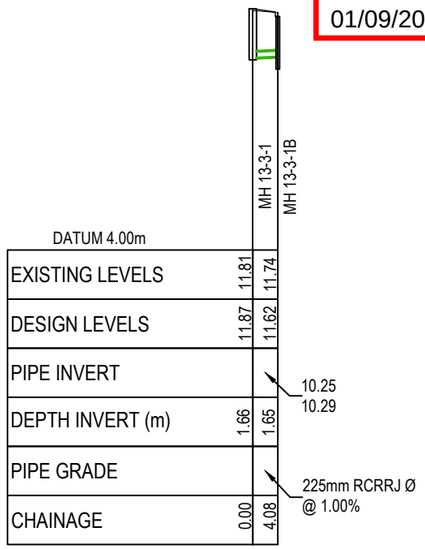
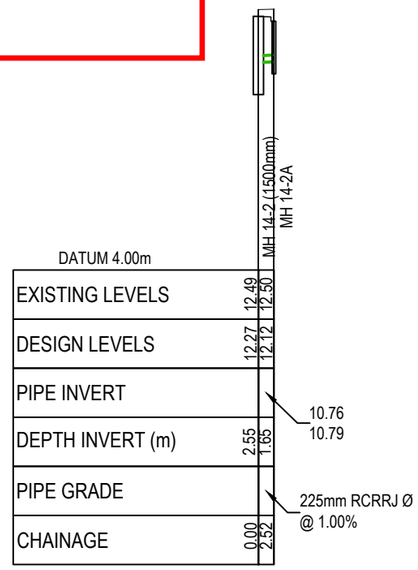
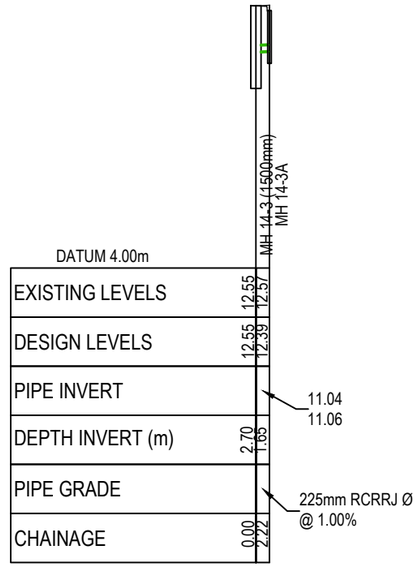
SCALE: HORI 1:1000 VERT 1:200



CP13-3-1B
SCALE: HORI 1:1000 VERT 1:200



CP14-2A
SCALE: HORI 1:1000 VERT 1:200



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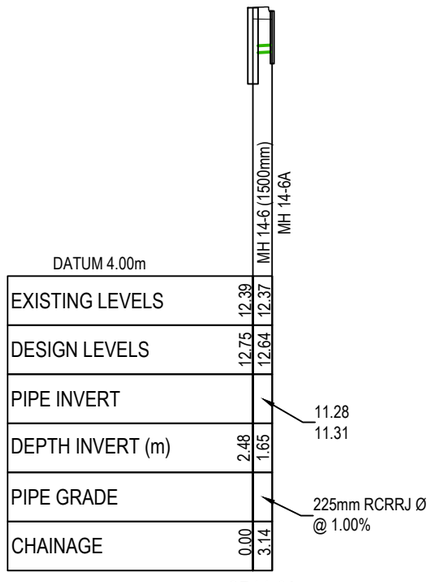
SCALE: HORI 1:1000 VERT 1:200



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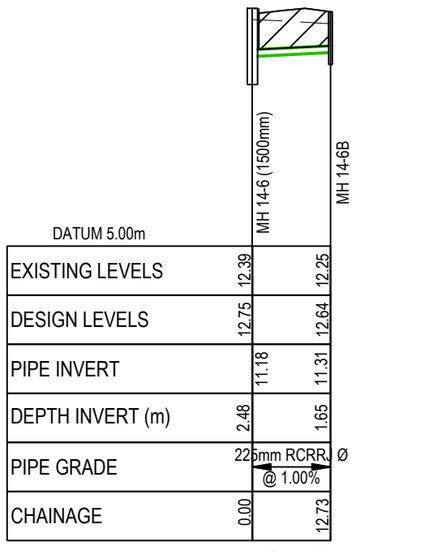
SCALE: HORI 1:1000 VERT 1:200



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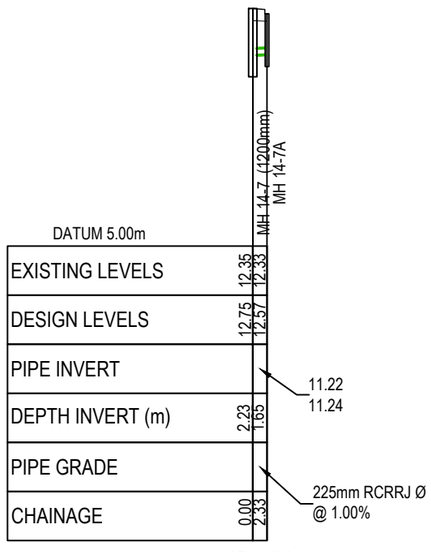
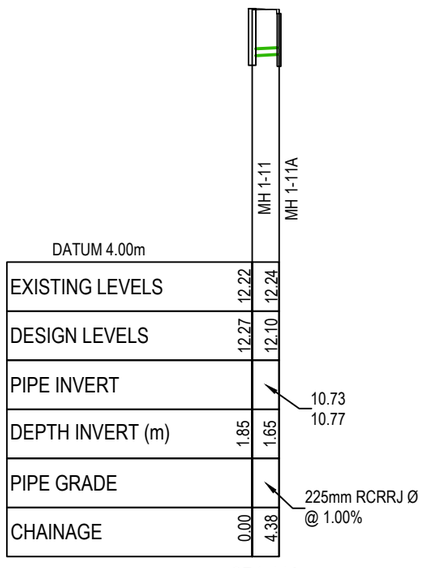


CP14-7A
SCALE: HORI 1:1000 VERT 1:200



CP1-11A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

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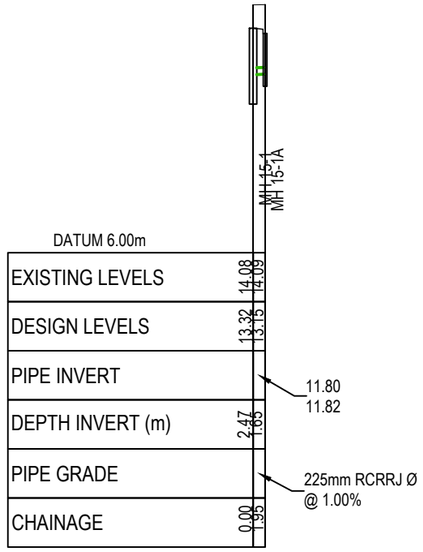
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

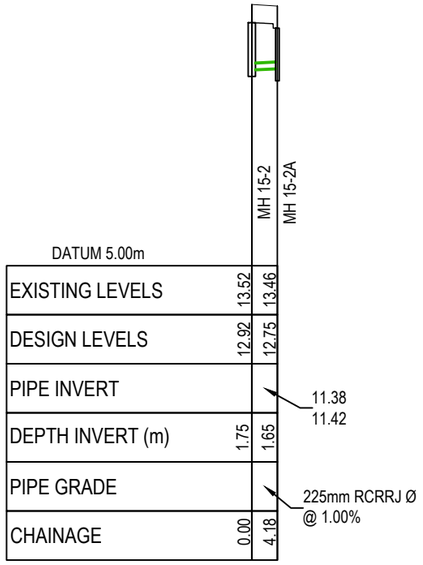
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

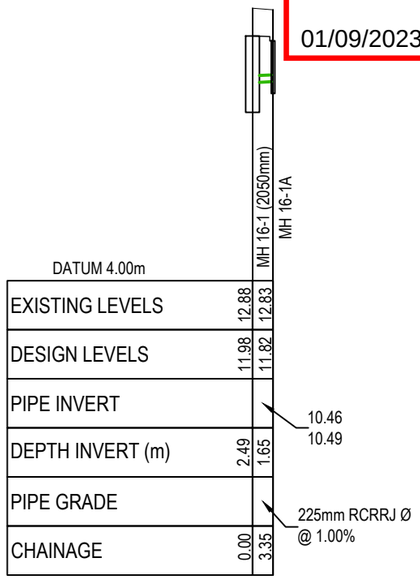
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437K Rev H



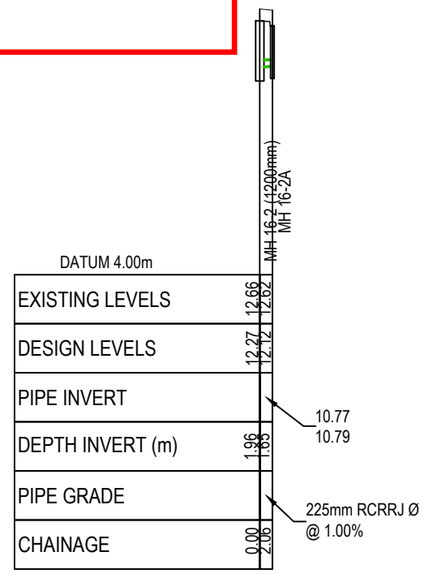
CP15-1A
SCALE: HORI 1:1000 VERT 1:200



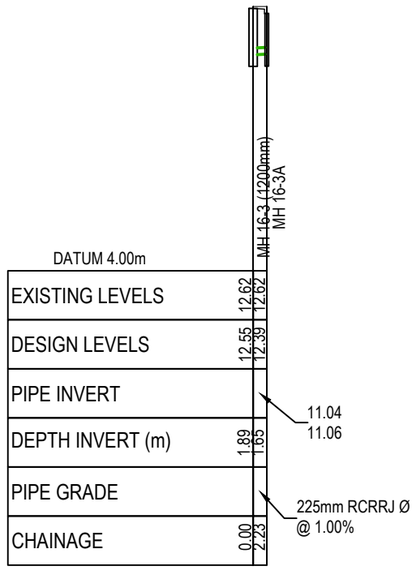
CP15-2A
SCALE: HORI 1:1000 VERT 1:200



CP16-1A
SCALE: HORI 1:1000 VERT 1:200



CP16-2A
SCALE: HORI 1:1000 VERT 1:200



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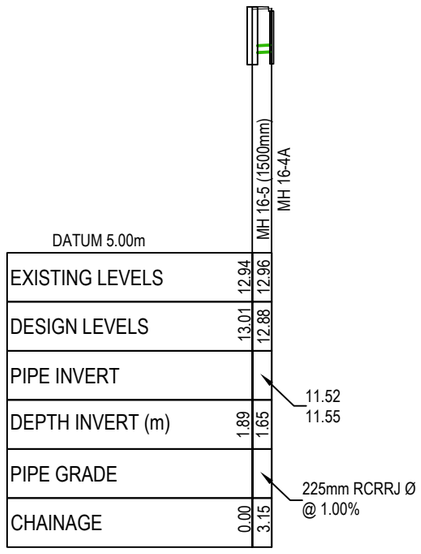
SCALE: HORI 1:1000 VERT 1:200



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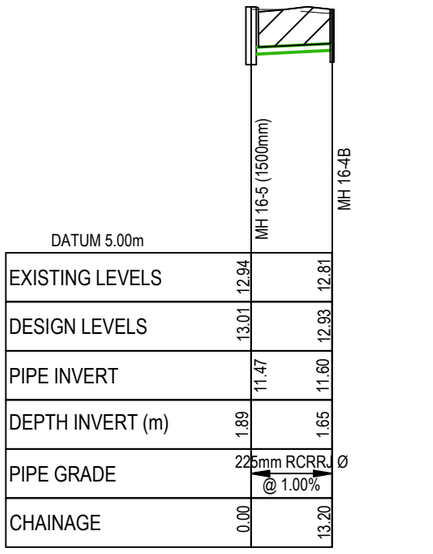
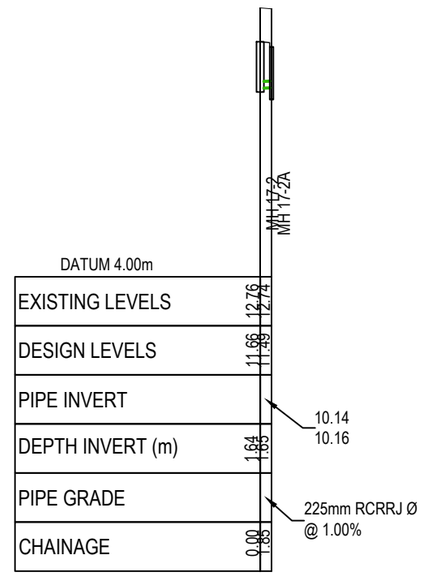
SCALE: HORI 1:1000 VERT 1:200



CP16-4B
SCALE: HORI 1:1000 VERT 1:200



CP17-2A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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5 Owens Road, Epsom
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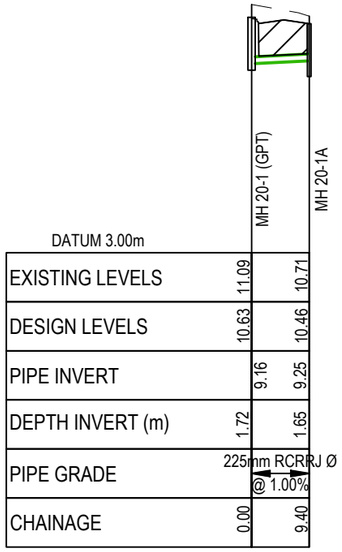
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

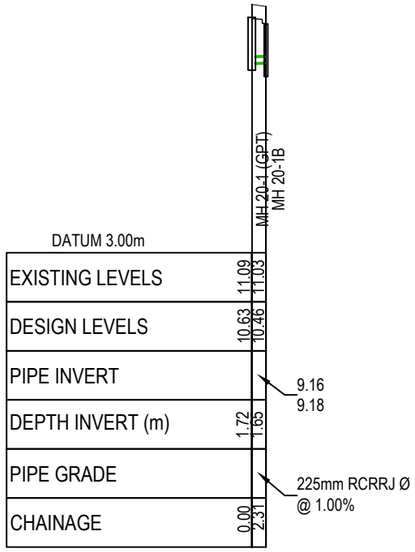
Title

PROPOSED STORMWATER DRAINAGE LONG SECTIONS

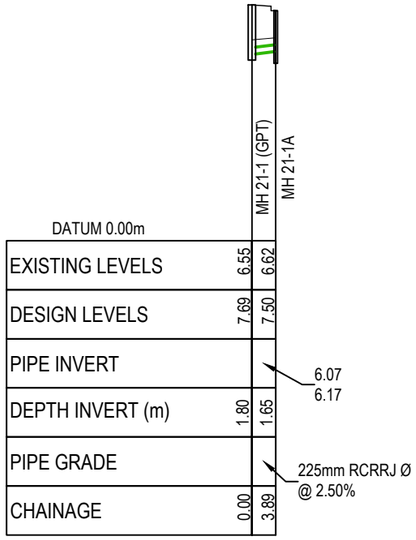
Project no.	194006
Scale	1:1000 @ A3
Cad file	C400- DRAINAGE.DWG
Drawing no.	C437L Rev H



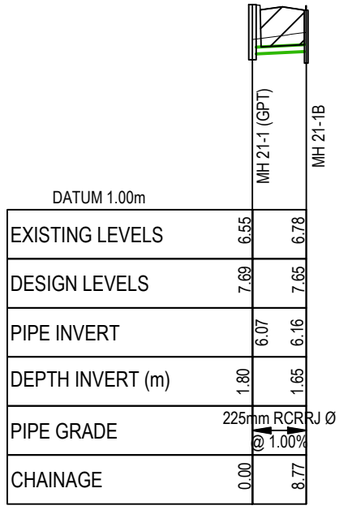
CP20-1A
SCALE: HORI 1:1000 VERT 1:200



CP20-1B
SCALE: HORI 1:1000 VERT 1:200



CP21-1A
SCALE: HORI 1:1000 VERT 1:200



CP21-1B
SCALE: HORI 1:1000 VERT 1:200

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Legend

EX GROUND LEVEL
PROP FINISHED LEVEL
HARDFILL BACKFILL

Rev	Description	By	Date
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G	EPA RFI	ML	02/2022
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	10/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	MS	02/2022
Checked	JP	02/2022

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED STORMWATER DRAINAGE LONG SECTIONS

Project no.	194006		
Scale	1:1000 @ A3		
Cad file	C400- DRAINAGE.DWG		
Drawing no.	C437M	Rev	H

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023

RESOURCE CONSENT

DATE 4/1/23

SEDIMENT FOREBAY

FOREBAY BUND WITH LEVEL SPREADER WEIR. CONCRETE BEAM WITH ENDS EMBEDDED 500mm IN TO THE BATTERS AT EITHER END REFER C445I FOR DETAIL

MAINTENANCE TRACK TO END

SAFETY FENCE AROUND WETLAND

PROPOSED LEVEL SPREADER REFER C445D FOR DETAILS

OUTLET 1-0
LL=7.15
IL=5.65 (in)

OUTLET 7-0
LL=6.52
IL=5.93 (in)

PROPOSED SCRUFFY DOME OUTLET REFER DRAWING C444 & C445A FOR DETAILS

OUTLET 1
IL=5.55 (out)

EMERGENCY SPILLWAY

CH 0
CH 20
CH 40
CH 60
CH 80
CH 100
CH 120
CH 140
CH 160
CH 180
CH 200
CH 220
CH 240
CH 260

C442 A

C442 B

SW WINGWALL INLET STRUCTURE EROSION PROTECTION REFER TO C445F & C445G FOR DETAILS

OUTLET 2-0
LL=7.14
IL=5.65 (in)

SHARED PATH

MAINTENANCE ACCESSWAY

EMERGENCY SPILL WAY
31.00m WIDE
RL = 7.87m
REFER DRAWING C445D
FOR DETAILS

287m² AVAILABLE AREA FOR POND SEDIMENT DRYING.

SHARED PATH TO BE USED AS MAINTENANCE TRACK.

DE-WATERING OF WETLAND TO BE DONE VIA TEMPORARY PUMP/SUCKER TRUCKS DURING MAINTENANCE

WETLAND PERMANENT WATER LEVEL (PWL) = 5.60m
PWL VOLUME = 2934.44m³

WETLAND STREAM PROTECTION LEVEL = 6.00m
STREAM PROTECTION VOLUME = 3533.13m³

WETLAND 10 YEAR PONDING LEVEL = 6.98m
10 YEAR VOLUME = 14538.88m³

WETLAND 100 YEAR PONDING LEVEL 7.41m
100 YEAR VOLUME = 23311.24m³

Auckland Council

BUN60399307

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ENGINEERING APPROVAL

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Legend

- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- PROP SWCP SINGLE

Rev	Description	By	Date
J	RFI	JV	04/2023
I	S92	JV	03/2023
H	S92	JV	01/2023
G	S92	JV	01/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	RK	01/22
Drawn	RK	01/22
Checked	JP	01/22

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND A PLAN

Project no.	194006		
Scale	1:750 @ A3		
Cad file	C440- WETLAND.DWG		
Drawing no.	C440	Rev	J

SW WINGWALL OUTLET STRUCTURE EROSION PROTECTION REFER TO C445B FOR DETAILS

POND OUTLET 2
LL=8.98
IL=7.88 (in)

900mm RCRRJ @ 0.55%

PROP SWMH 18-1 (1800mm)
LL=10.40
IL=8.07 (in)
IL=8.02 (out)

PROPOSED SCRUFFY DOME OUTLET REFER DRAWING C444 & C445B FOR DETAILS

SHARED PATH TO BE USED AS MAINTENANCE TRACK

FOREBAY BUND WITH LEVEL SPREADER WEIR. CONCRETE BEAM WITH ENDS EMBEDDED 500mm IN TO THE BATTERS AT EITHER END REFER C445J FOR DETAIL

900mm RCRRJ @ 0.55%

SW WINGWALL INLET STRUCTURE EROSION PROTECTION REFER TO C445G FOR DETAILS

MAINTENANCE ACCESSWAY

SHARED PATH

EMERGENCY SPILLWAY

EMERGENCY SPILL WAY 30.00m WIDE
RL = 10.80m
REFER DRAWING C445E FOR DETAILS

OUTLET 2
LL=10.18
IL=8.37 (out)

FOREBAY BUND

CH 142
CH 140
CH 120
CH 100
CH 80
CH 60
CH 40
CH 20
CH 0

MAINTENANCE ACCESSWAY

C443 A

DE-WATERING OF WETLAND TO BE DONE VIA TEMPORARY PUMP/SUCKER TRUCKS DURING MAINTENANCE

OUTLET 6-0
LL=9.72
IL=9.11 (in)

137m^2 AVAILABLE AREA FOR POND SEDIMENT DRYING
(137m^3 OF SEDIMENT BASED ON 10%
1374m^3 PWV

SW WINGWALL INLET STRUCTURE EROSION PROTECTION REFER TO C445G FOR DETAILS

OUTLET 4-0
LL=10.90
IL=9.05 (in)

MAINTENANCE ACCESSWAY

B C443

WETLAND PERMANENT WATER LEVEL (PWL) = 9.00m
PWL VOLUME = 1528m^3

WETLAND STREAM PROTECTION LEVEL = 9.36m

WETLAND 10 YEAR PONDING LEVEL = 10.18m

WETLAND 100 YEAR PONDING LEVEL 10.67m

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ENGINEERING APPROVAL

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- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- PROP SWCP SINGLE
- PROP SWCP DOUBLE

Rev	Description	By	Date
J	RFI	JV	04/2023
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H	S92	JV	01/2023
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Checked	JP	01/22

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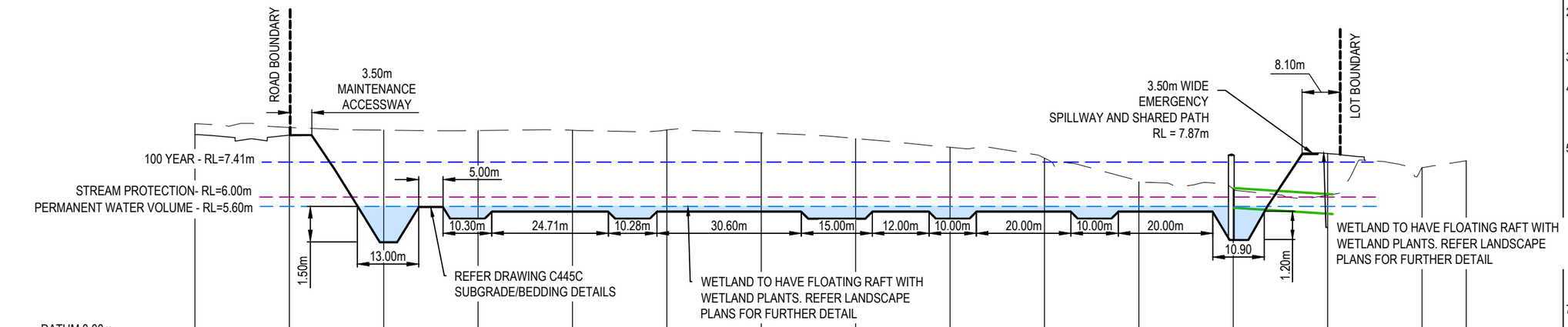
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND B PLAN

Project no.	194006		
Scale	1:750 @ A3		
Cad file	C440- WETLAND.DWG		
Drawing no.	C441	Rev	J

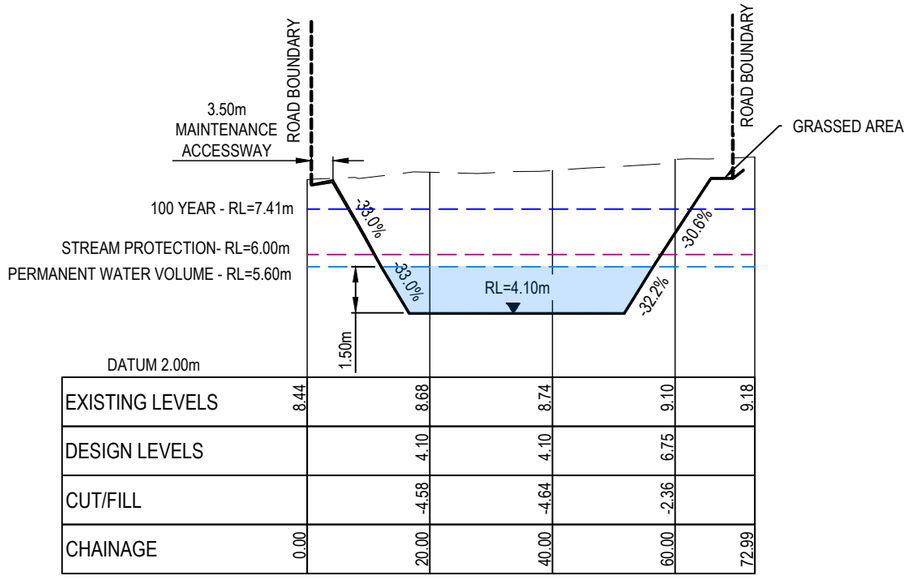


DATUM 0.00m

EXISTING LEVELS	9.11	8.94	8.83	8.82	8.83	8.84	8.72	8.48	8.10	7.65	6.65	6.35	6.08	7.24	7.53
DESIGN LEVELS			4.10	5.10	5.40	5.40	5.40	5.10	5.10	5.40	5.40	4.20	7.84		
CUT/FILL			-4.73	-3.72	-3.43	-3.44	-3.32	-3.38	-3.00	-2.25	-1.25	-2.15	1.77		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	269.37

PROPOSED WETLAND A LONGSECTION A

SCALE 1:1000 HORZ 1:200 VERT



DATUM 2.00m

EXISTING LEVELS	8.44	8.68	8.74	9.10	9.18
DESIGN LEVELS		4.10	4.10	6.75	
CUT/FILL		-4.58	-4.64	-2.36	
CHAINAGE	0.00	20.00	40.00	60.00	72.99

PROPOSED WETLAND A CROSS SECTION B

SCALE 1:1000 HORZ 1:200 VERT

ENGINEERING APPROVAL

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- PR STORMWATER
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- PROP SWCP SINGLE
- PROP SWCP DOUBLE

Rev	Description	By	Date
J	RFI	JV	04/2023
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H	S92	JV	01/2023
G	S92	JV	01/2023

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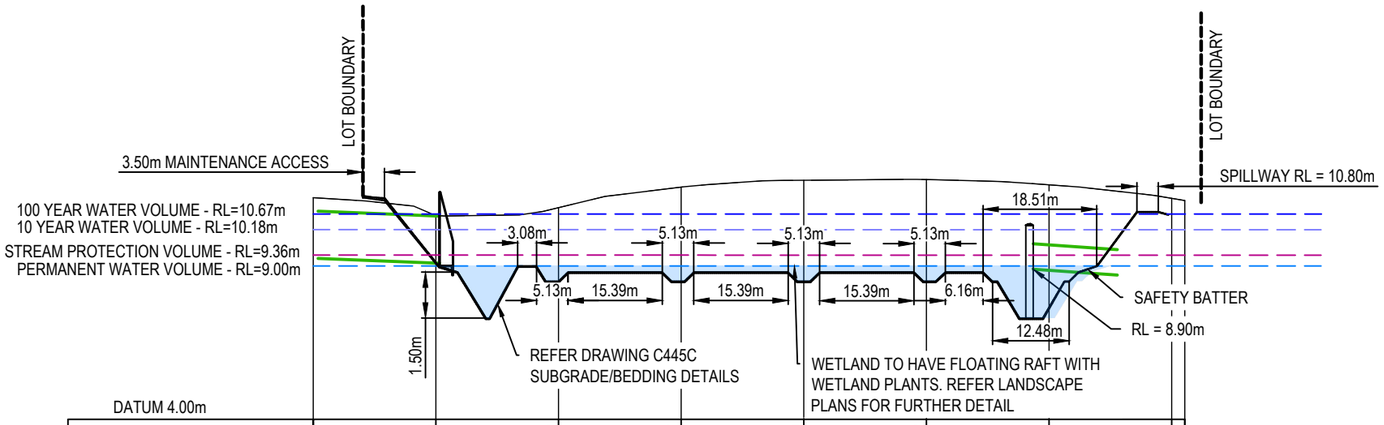
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND A LONGSECTION AND CROSS SECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C440- WETLAND.DWG		
Drawing no.	C442	Rev	J

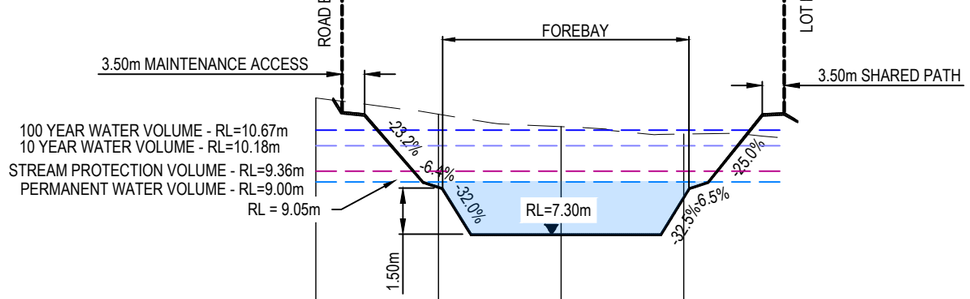


DATUM 4.00m

EXISTING LEVELS	11.22	10.65	10.90	11.57	11.79	11.82	11.65	11.20 / 11.13
DESIGN LEVELS		9.13	8.50	8.50	8.50	8.50	7.65	
CUT/FILL		-1.52	-2.40	-3.07	-3.29	-3.32	-3.99	
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00 / 142.14

PROPOSED WETLAND B LONGSECTION A

SCALE 1:1000 HORZ 1:200 VERT



DATUM 4.00m

EXISTING LEVELS	11.74	11.21	10.80	10.56	
DESIGN LEVELS		8.84	7.30	8.52	
CUT/FILL		-2.37	-3.50	-2.04	
CHAINAGE	0.00	20.00	40.00	60.00	80.00

PROPOSED WETLAND B CROSS SECITON B

SCALE 1:1000 HORZ 1:200 VERT

ENGINEERING APPROVAL

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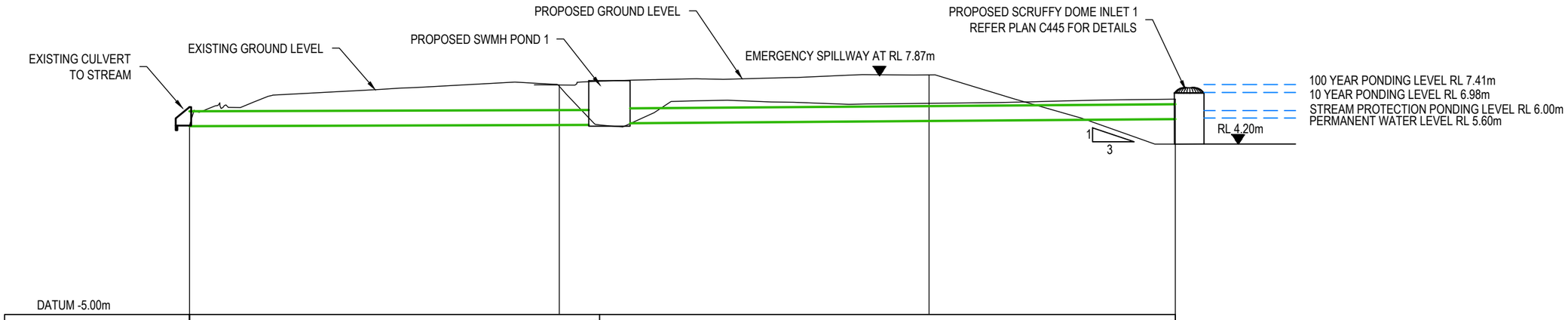
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

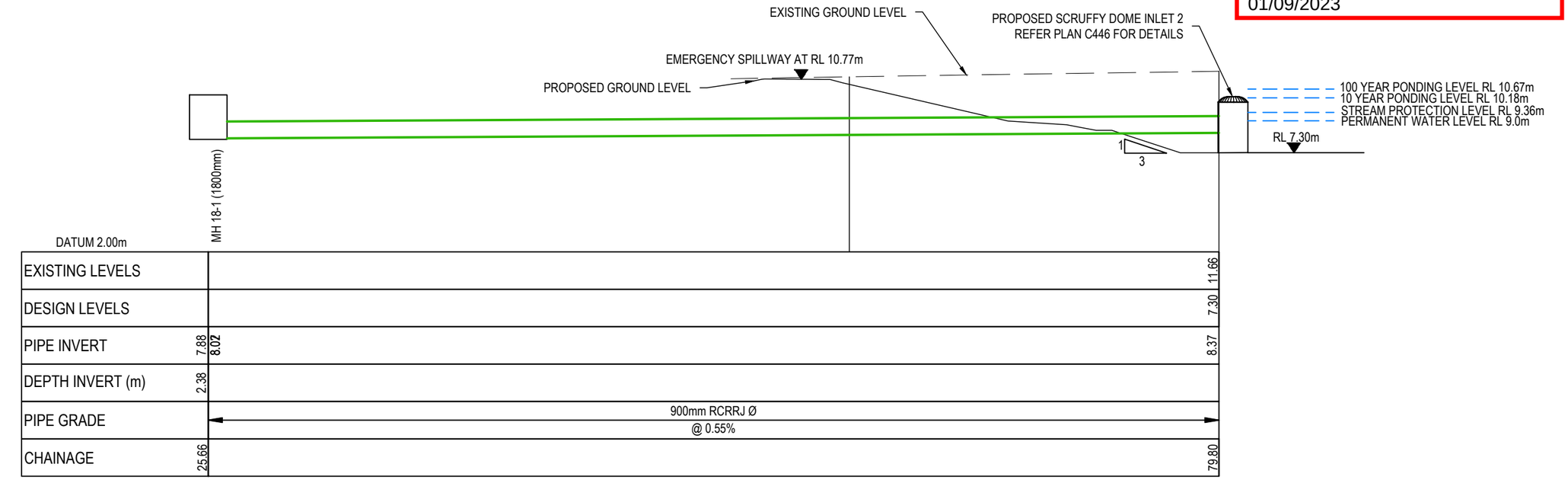
PROPOSED WETLAND B LONGSECTION AND CROSS SECTION

Project no.	194006		
Scale	AS SHOWN		
Cad file	C440- WETLAND.DWG		
Drawing no.	C443	Rev	J



PROPOSED WETLAND A OUTLET SECTION

SCALE 1:250 @ A3



PROPOSED WETLAND B OUTLET SECTION

SCALE 1:250 @ A3

ENGINEERING APPROVAL

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Legend

- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- PROP SWCP SINGLE
- PROP SWCP DOUBLE

Rev	Description	By	Date
J	RFI	JV	04/2023
I	S92	JV	03/2023
H	S92	JV	01/2023
G	S92	JV	01/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	RK	01/22
Drawn	RK	01/22
Checked	JP	01/22

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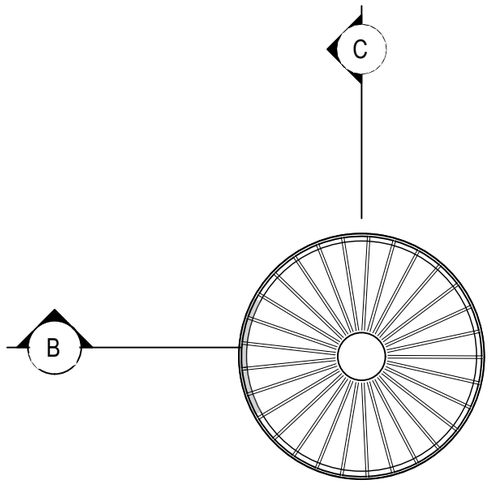
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND A & B OUTLET CROSS SECTION

Project no.	194006
Scale	NTS
Cad file	C440- WETLAND.DWG
Drawing no.	C444 Rev J



WETLAND A - SCRUFFY DOME PLAN A
N.T.S

BUN60399307
Approved Resource Consent Plan
01/09/2023

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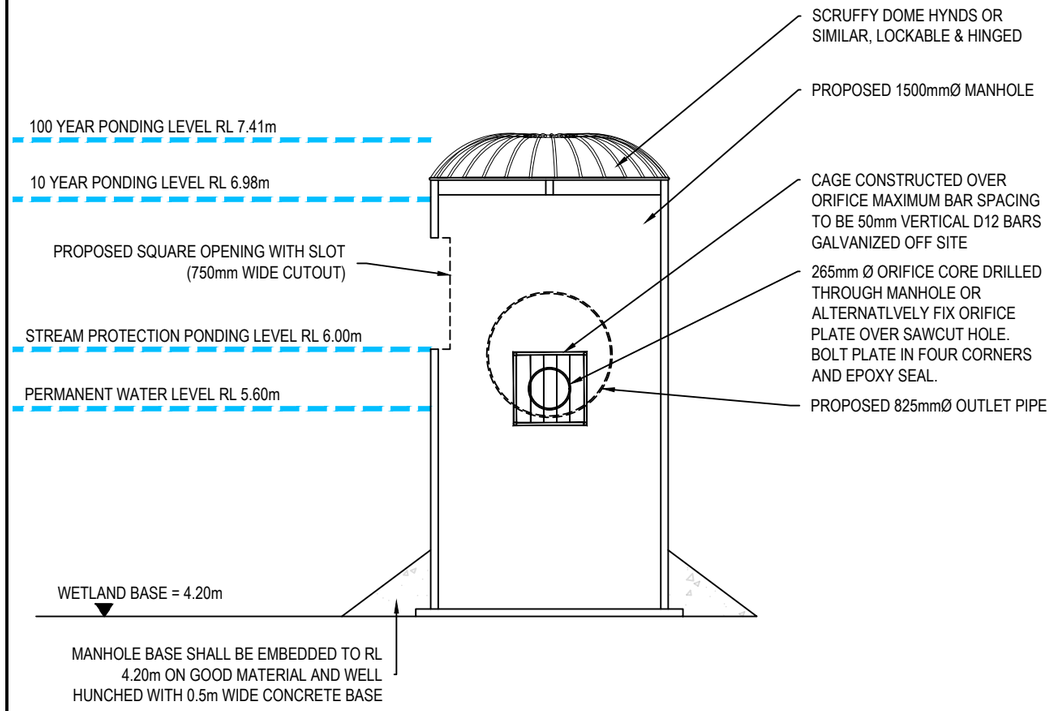
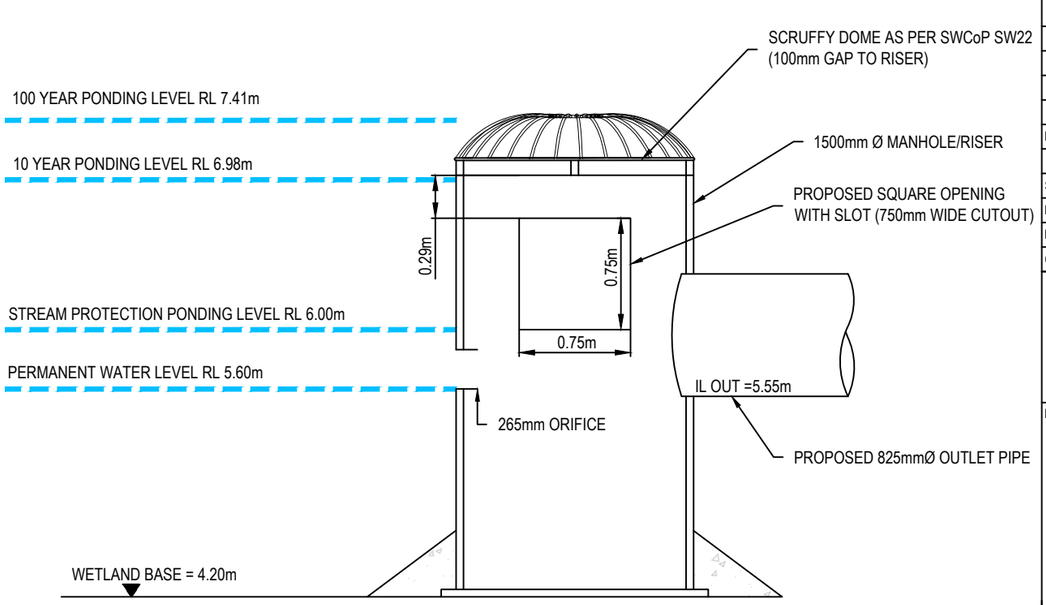


PROPOSED WETLAND A OUTLET SECTION B
N.T.S



PROPOSED WETLAND A OUTLET SECTION C
N.T.S

ENGINEERING APPROVAL

J	RFI	JV	04/2023
I	S92	JV	03/2023
H	S92	JV	01/2023
G	S92	JV	01/2023
Rev	Description	By	Date

	By	Date
Survey	SURVEYWORX	12/21
Design	RK	01/22
Drawn	RK	05/22
Checked	JP	05/22

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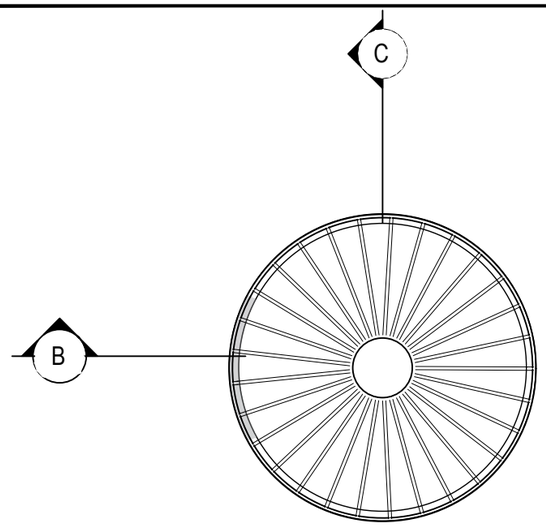
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WETLAND A OUTLET DETAIL

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445A	Rev	J



WETLAND B - SCRUFFY DOME PLAN A
N.T.S

BUN60399307
Approved Resource Consent Plan
01/09/2023

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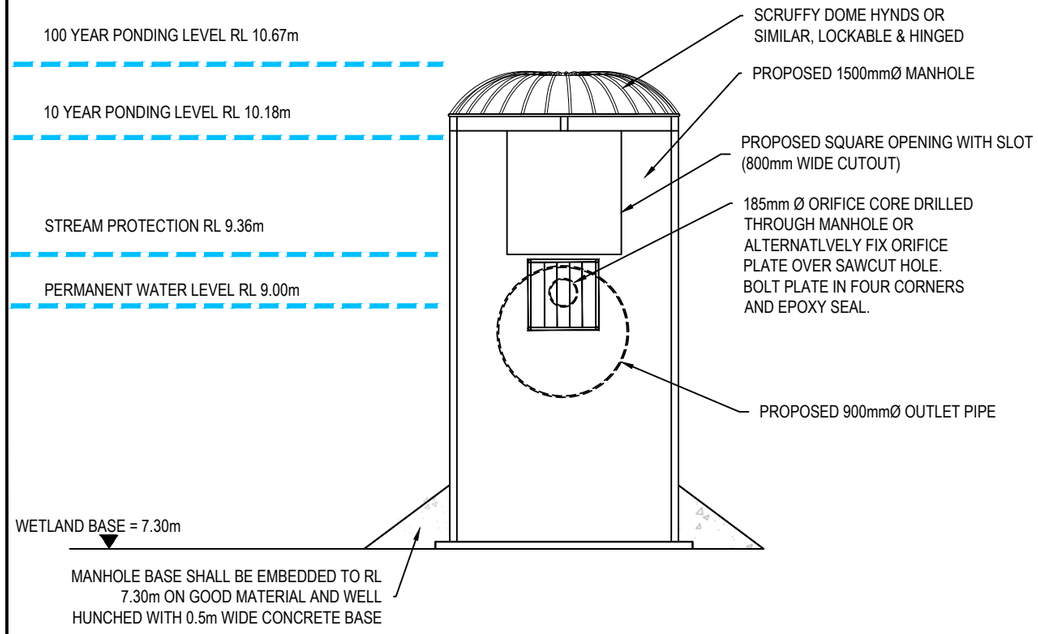
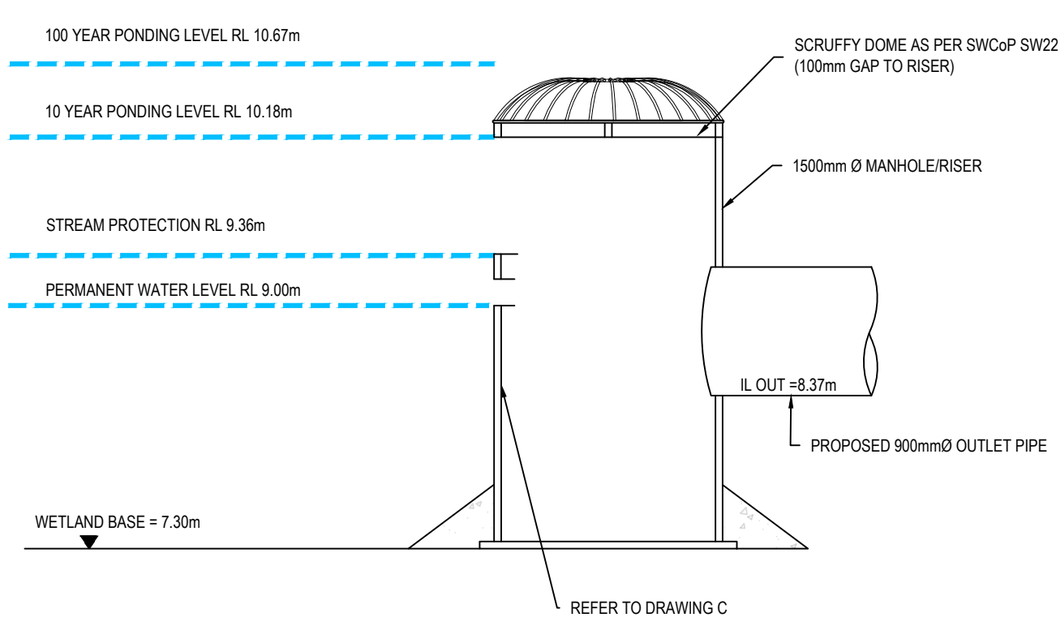


PROPOSED WETLAND B OUTLET SECTION B
N.T.S



PROPOSED WETLAND B OUTLET SECTION C
N.T.S

ENGINEERING APPROVAL

Rev	Description	By	Date
J	RFI	JV	04/2023
I	S92	JV	03/2023
H	S92	JV	01/2023
G	S92	JV	01/2023

	By	Date
Survey	A	12/21
Design	RK	01/22
Drawn	RK	05/22
Checked	JP	05/22

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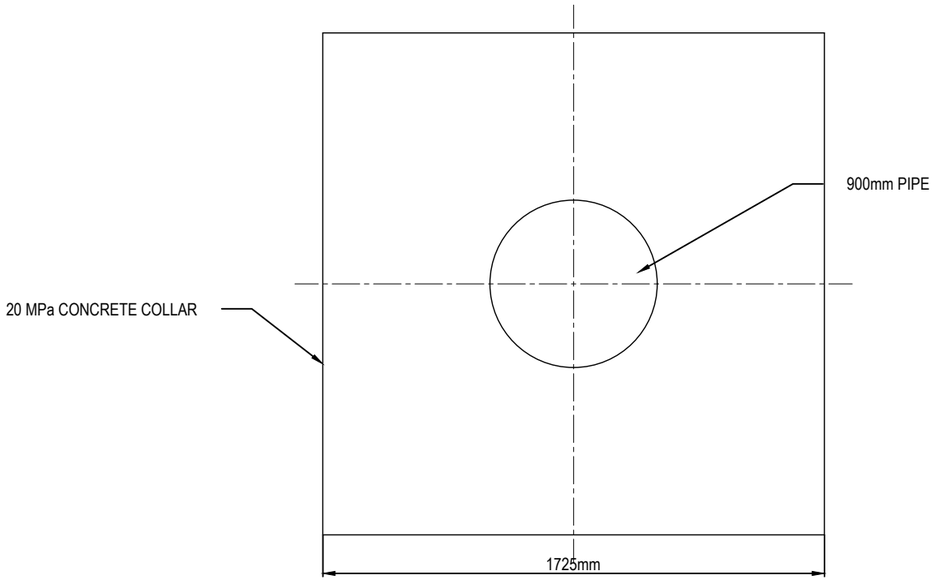
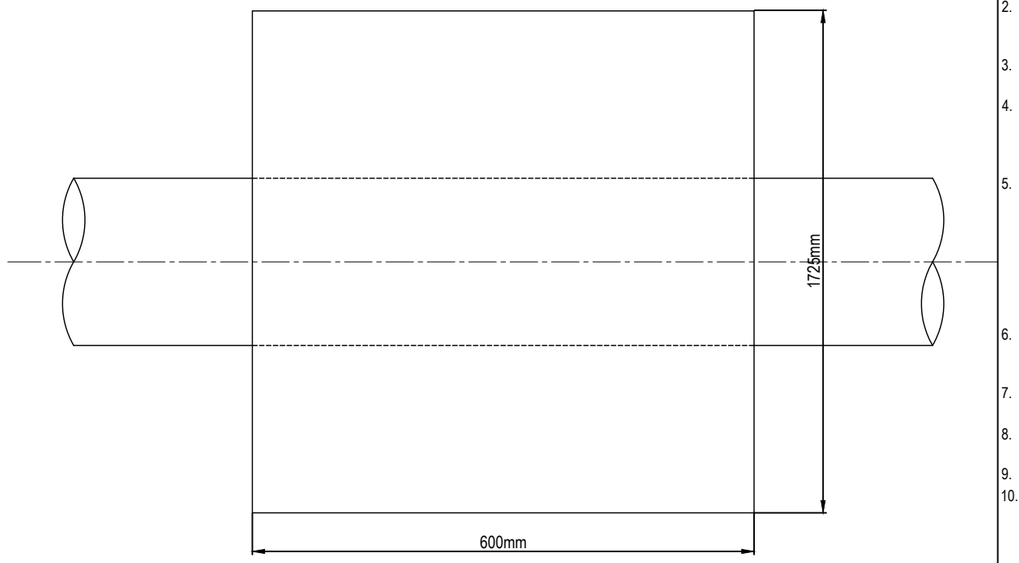
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WETLAND B OUTLET DETAIL

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445B	Rev	J





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Auckland Council

BUN60399307

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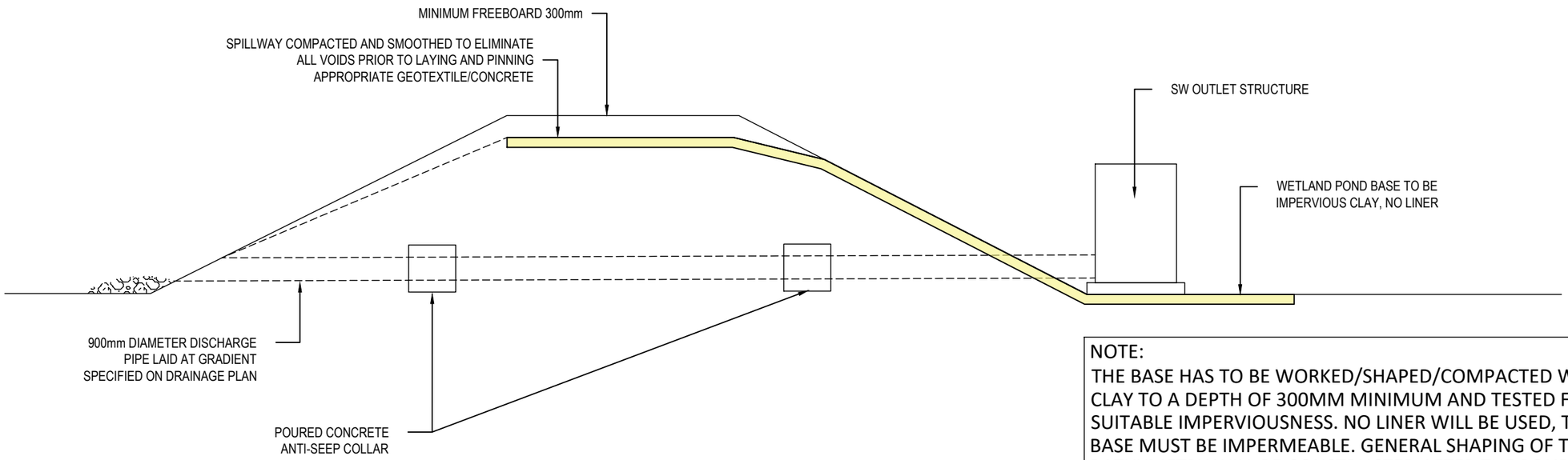
NOTES: THE OUTLET PIPE SHALL HAVE A WATERTIGHT ANTI-SEEP COLLAR MADE OF CONCRETE. THE COLLAR SHALL EXTEND VERTICALLY INSIDE THE POND BANKS AS DETAILED ON THE DRAWINGS. THE INLET SURROUNDS SHALL BE EXCAVATED TO THE REQUIRED DEPTH (AS SHOWN ON THE DRAWINGS) AND PREPARED FOR LINING. BIDIM A12 GEOTEXTILE SHALL BE INSTALLED AND PINNED IN PLACE AS PER MANUFACTURER'S INSTRUCTIONS, 300–500 MM RIP RAP TO BE PLACED ON THE GEOTEXTILE CAREFULLY SO AS NOT TO PERFORATE THE MATERIAL. RIP RAP SHALL BE PLACED AT A LEVEL GRADE; THE TOP OF RIP RAP TO BE THE SAME ELEVATION AS THE INLET INVERT AND RANDOMLY ARRANGED SO AS TO AVOID PREFERENTIAL FLOWPATHS.



TYPICAL CROSS SECTION OF WETLAND OUTLET

NOTE:
THE BASE HAS TO BE WORKED/SHAPED/COMPACTED WITH CLAY TO A DEPTH OF 300MM MINIMUM AND TESTED FOR SUITABLE IMPERVIOUSNESS. NO LINER WILL BE USED, THE BASE MUST BE IMPERMEABLE. GENERAL SHAPING OF THE BATHYMETRY WILL BE CONSTRUCTED AFTER THE POND BASE TREATMENT WORK.

ENGINEERING APPROVAL

Rev	Description	By	Date
J	RFI	JV	04/2023
I	S92	JV	03/2023
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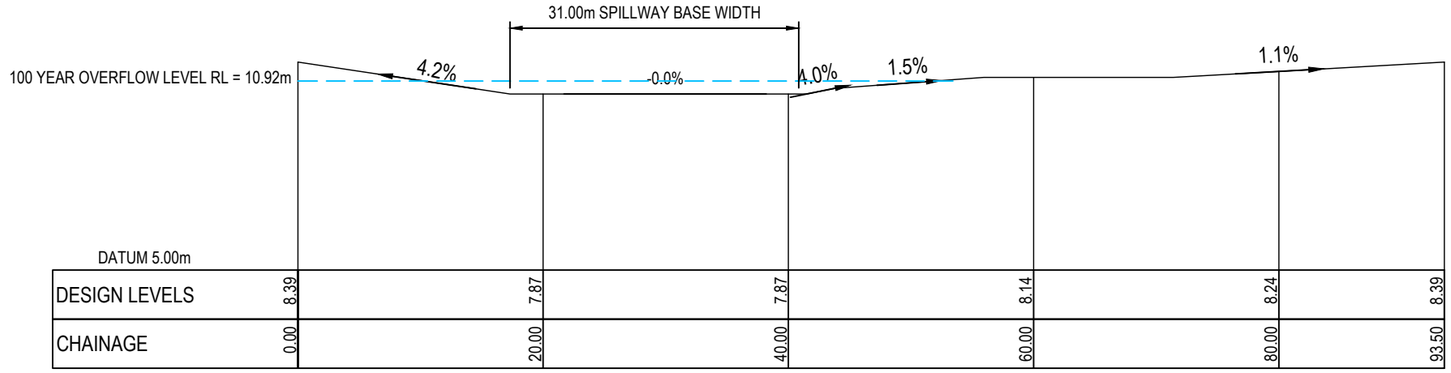
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

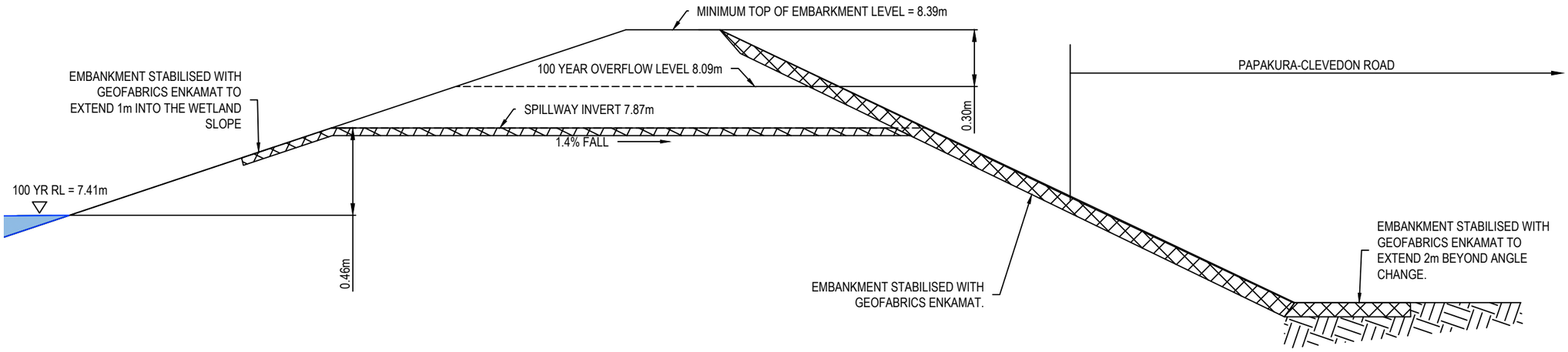
Title

PROPOSED WETLAND AND ANTI-SEEP COLLAR DETAIL

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445C	Rev	J



WETLAND A SPILLWAY LONGSECTION
SCALE 1:500 @ A3



WETLAND A SPILLWAY CROSS SECTION
N.T.S

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WETLAND A SPILLWAY DETAIL

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445D	Rev	J

BUN60399307

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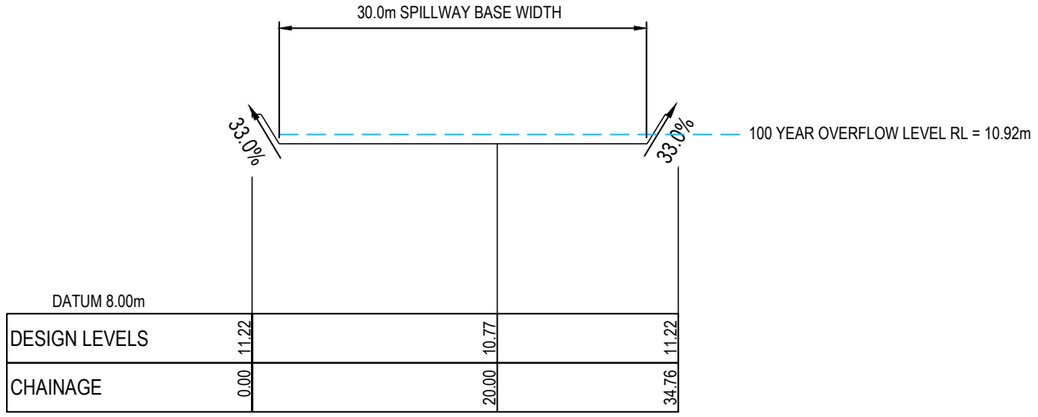
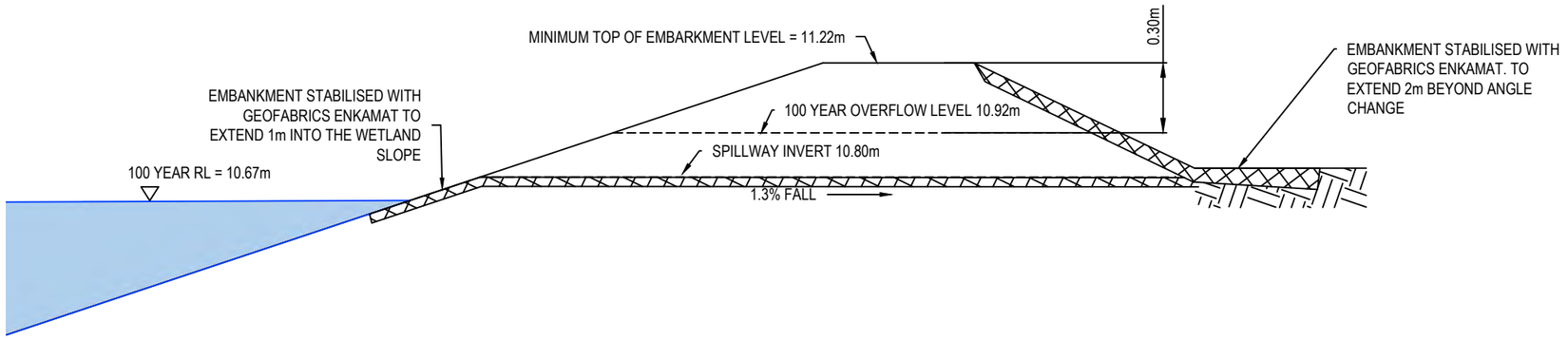


WETLAND B SPILLWAY LONGSECTION

SCALE 1:500 @ A3



WETLAND B SPILLWAY CROSS SECTION

N.T.S

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G	S92	JV	01/2023

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Drawn	RK	05/22
Checked	JP	05/22

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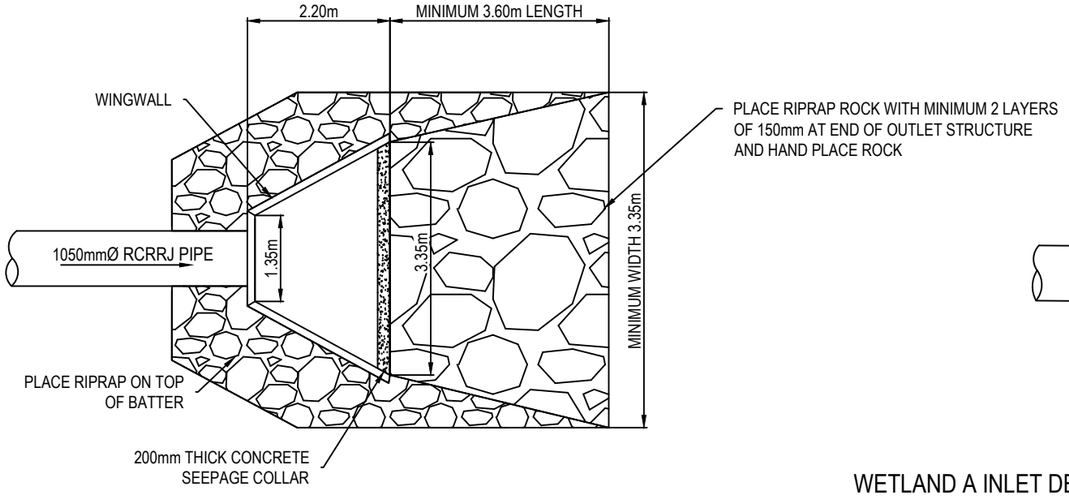
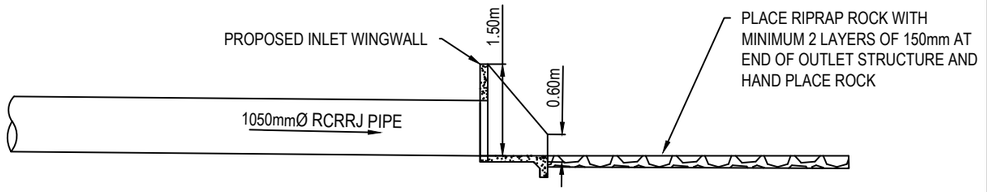
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND B SPILLWAY DETAIL

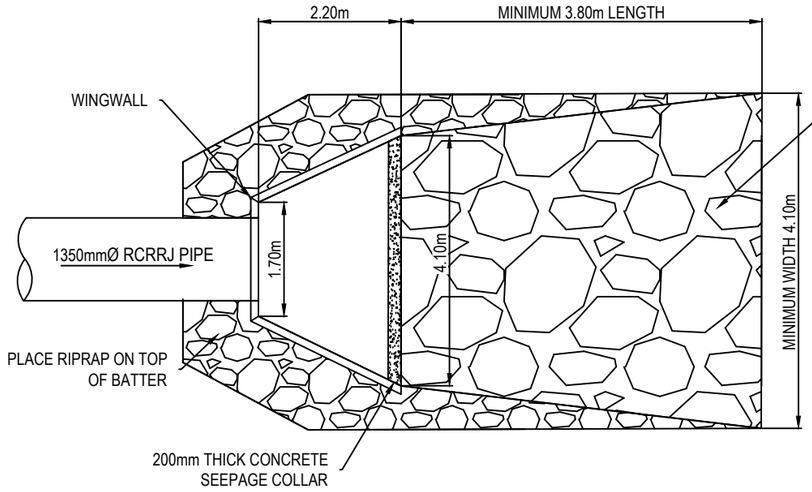
Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445E	Rev	J

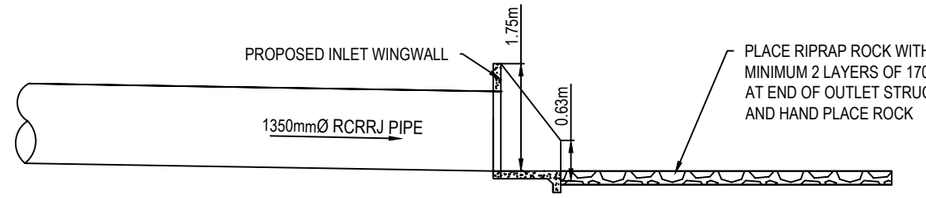




WETLAND A INLET DETAIL - OUTLET 1-0

SCALE 1:100 @ A3





WETLAND B INLET DETAIL - OUTLET 2-0

SCALE 1:100 @ A3

Notes

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G	S92	JV	01/2023

	By	Date
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Design	RK	01/22
Drawn	RK	05/22
Checked	JP	05/22

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Title

PROPOSED WETLAND INLET DETAIL SECTIONS

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445F	Rev	J

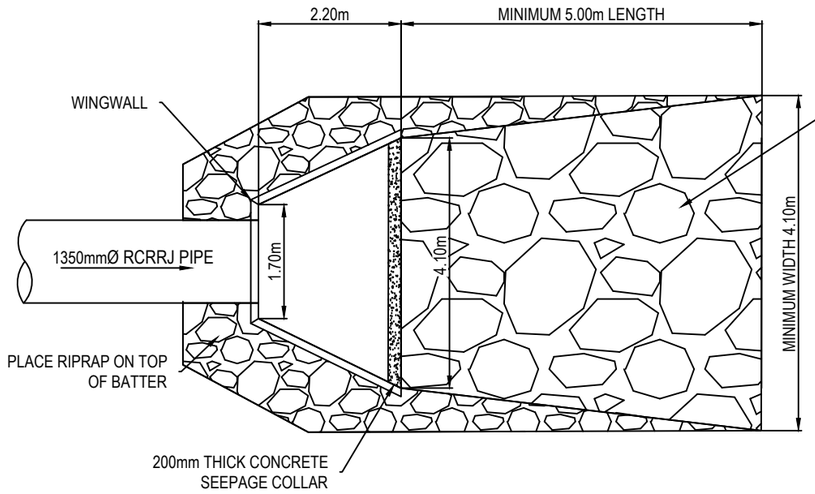
Auckland Council

BUN60399307

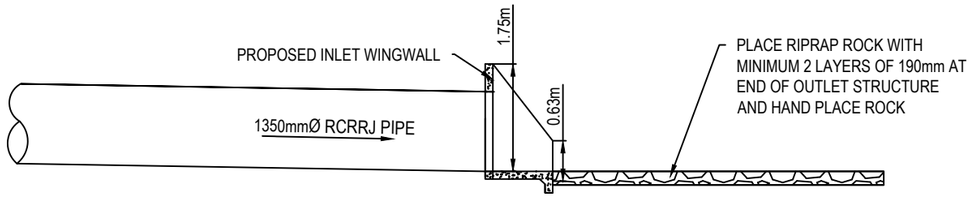
Approved Resource Consent Plan

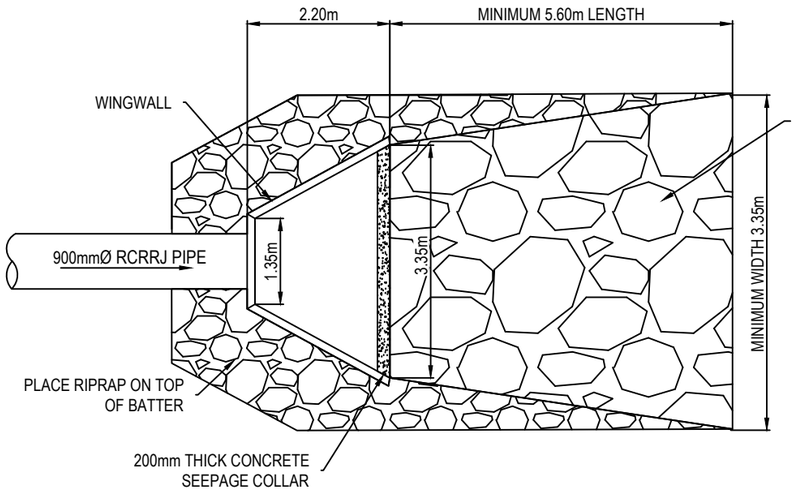
01/09/2023

ENGINEERING APPROVAL

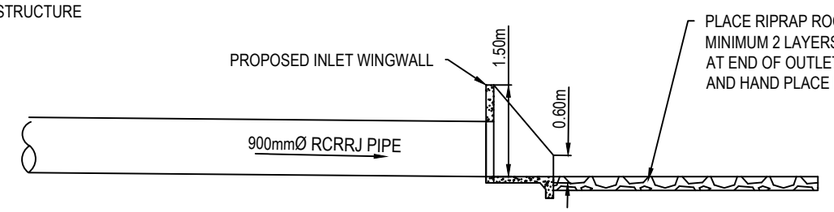


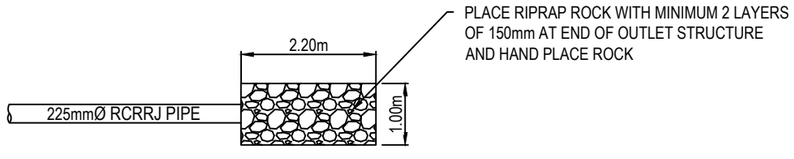
WETLAND B INLET DETAIL - OUTLET 4-0
SCALE 1:100 @ A3



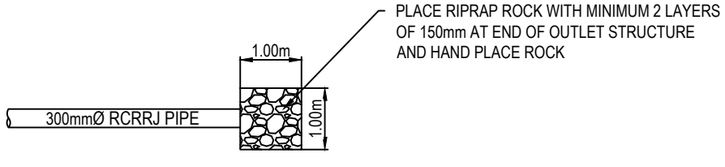


WETLAND B INLET DETAIL - OUTLET 2
SCALE 1:100 @ A3





WETLAND A INLET DETAIL - OUTLET 7-0
SCALE 1:100 @ A3



WETLAND B INLET DETAIL - OUTLET 6-0
SCALE 1:100 @ A3

ENGINEERING APPROVAL

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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J	RFI	JV	04/2023
I	S92	JV	03/2023
H	S92	JV	01/2023
G	S92	JV	01/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	RK	01/22
Drawn	RK	05/22
Checked	JP	05/22

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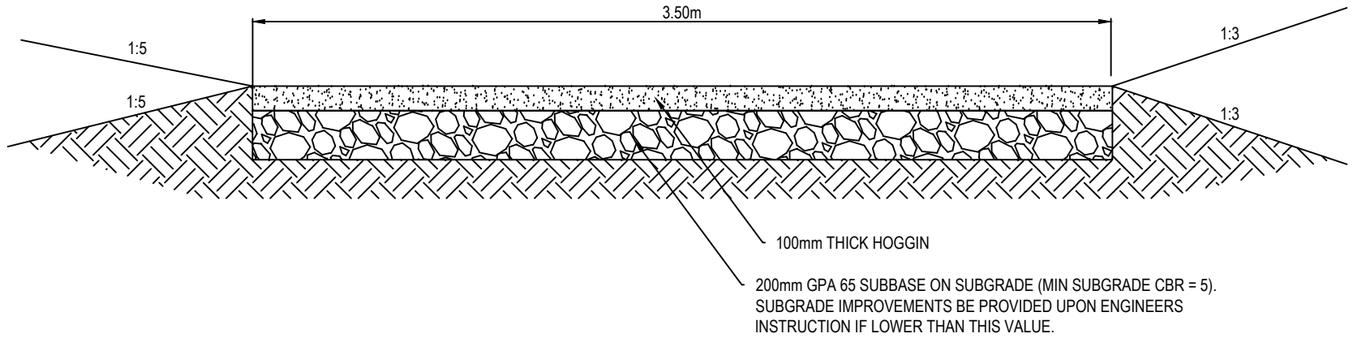
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

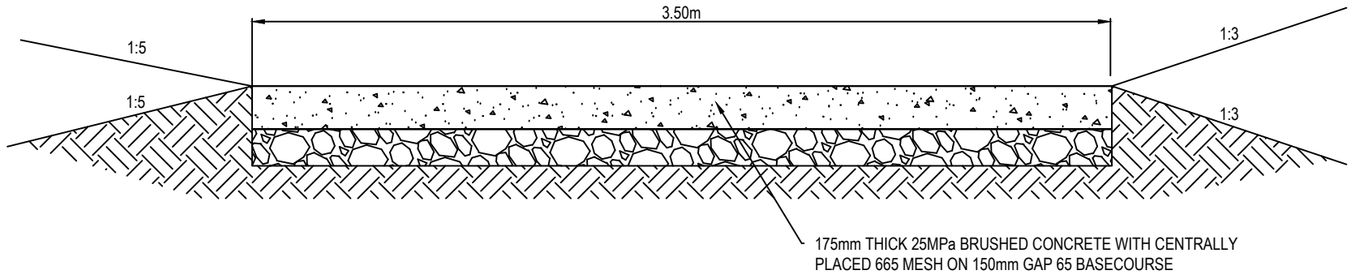
PROPOSED WETLAND INLET DETAIL SECTIONS

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445G	Rev	J



POND MAINTANENCE ACCESS TRACK

SCALE 1:25



POND SHARED PATH

SCALE 1:25

ENGINEERING APPROVAL

Auckland Council

BUN60399307

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01/09/2023

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Drawn	RK	05/22
Checked	JP	0522

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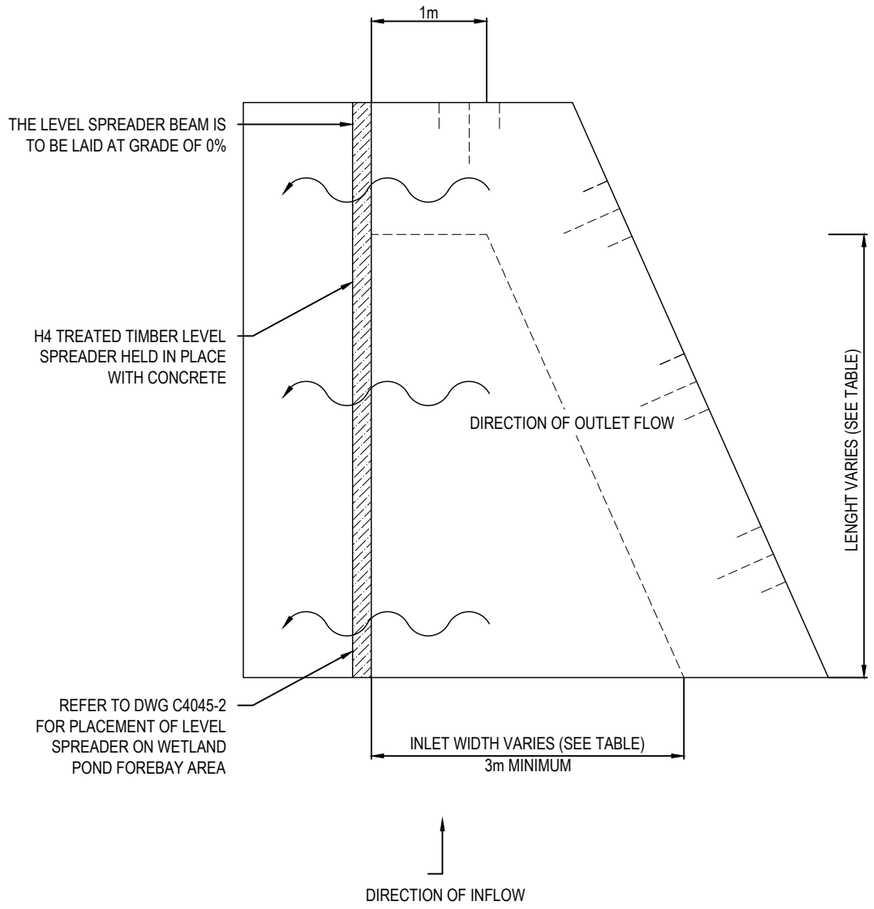
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

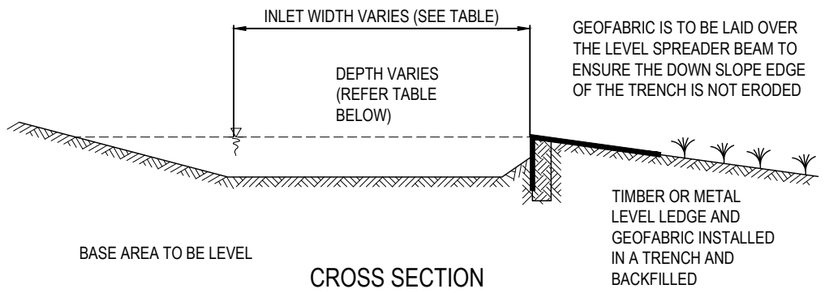
Title

PROPOSED ACCESS ROAD CROSS-SECTION

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445I	Rev	J



TYPICAL PLAN DETAIL



CROSS SECTION

LEVEL SPREADER

TABLE 1: LEVEL SPREADER DESIGN CRITERIA:

DESIGN FLOW (m^3/sec)	INLET WIDTH (m)	DEPTH (mm)	END WIDTH (m)	LENGTH (m)
0 - 0.3	3	150	1	3
0.3 - 0.6	5	180	1	7
0.6 - 0.9	7	220	1	10

NOTES: A LEVEL SPREADER WEIR IS REQUIRED ON THE FOREBAY BUND (CAN BE A PRECAST CONCRETE BEAM). THIS IS DESIGNED TO SPREAD THE FLOWS EVENLY ACROSS THE FULL WIDTH OF THE WETLAND AND REDUCE THE RISKS OF PREFERENTIAL FLOW PATHS. DRAWINGS OF LEVEL SPREADER SHOULD INDICATE THAT IT WILL WELL KEYED INTO THE BATTERS (BY AT LEAST 500 MM) TO PREVENT ANY SHORT CIRCUITS FORMING RESULTING IN PREFERENTIAL FLOW PATHS AND PERSISTENT SCOUR OR PIPING.

Auckland Council

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ENGINEERING APPROVAL

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	By	Date
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Drawn	RK	05/22
Checked	JP	05/22

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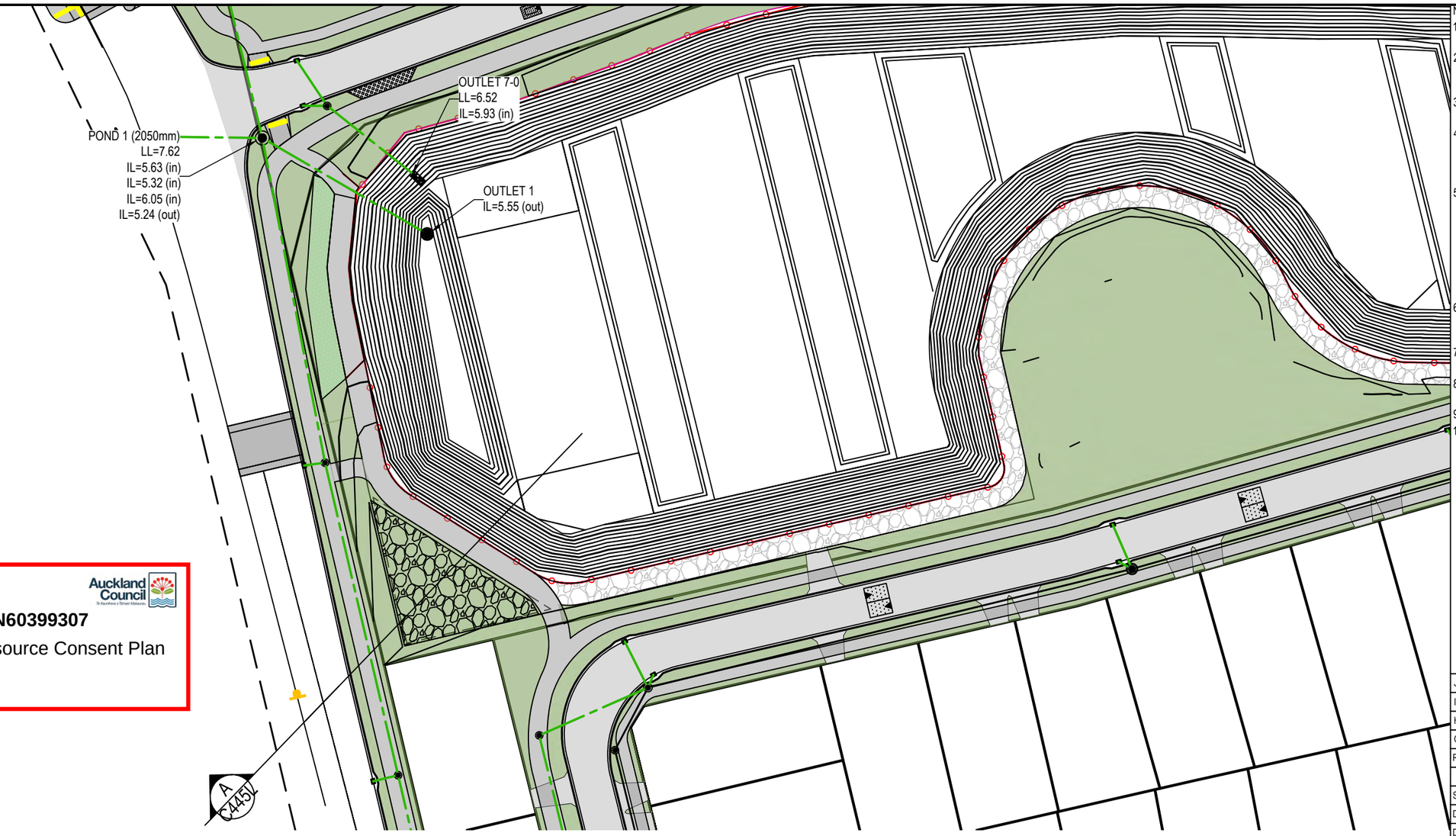
Project

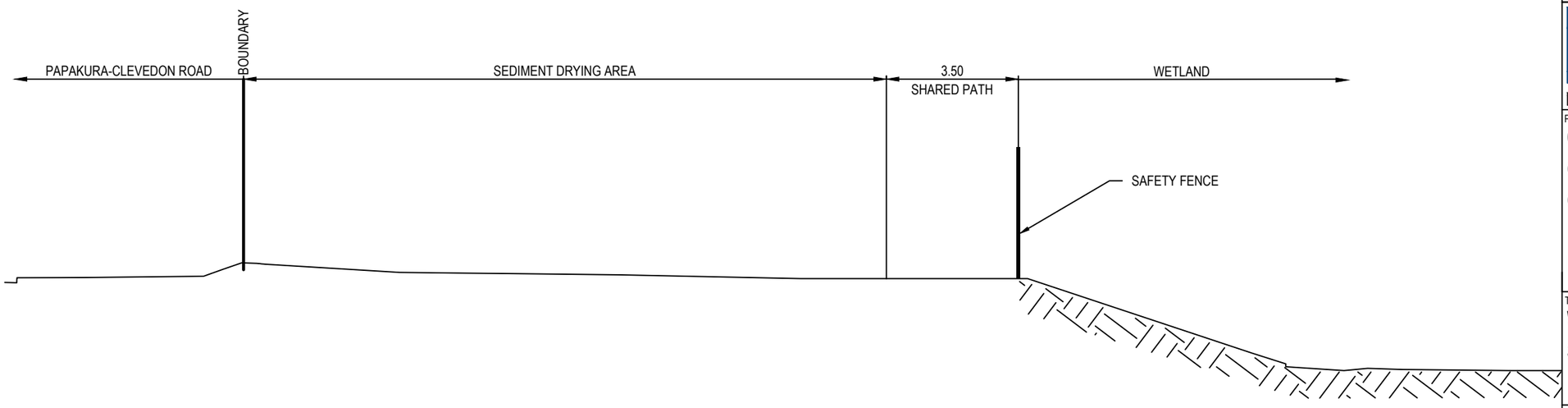
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WETLAND LEVEL SPREADER DETAIL

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445J	Rev	J





WETLAND A- BRIDAL PATH/ROAD CROSS SECTION
N.T.S

BUN60399307

Approved Resource Consent Plan

01/09/2023

ENGINEERING APPROVAL

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G	S92	JV	01/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	RK	01/22
Drawn	RK	05/22
Checked	JP	05/22

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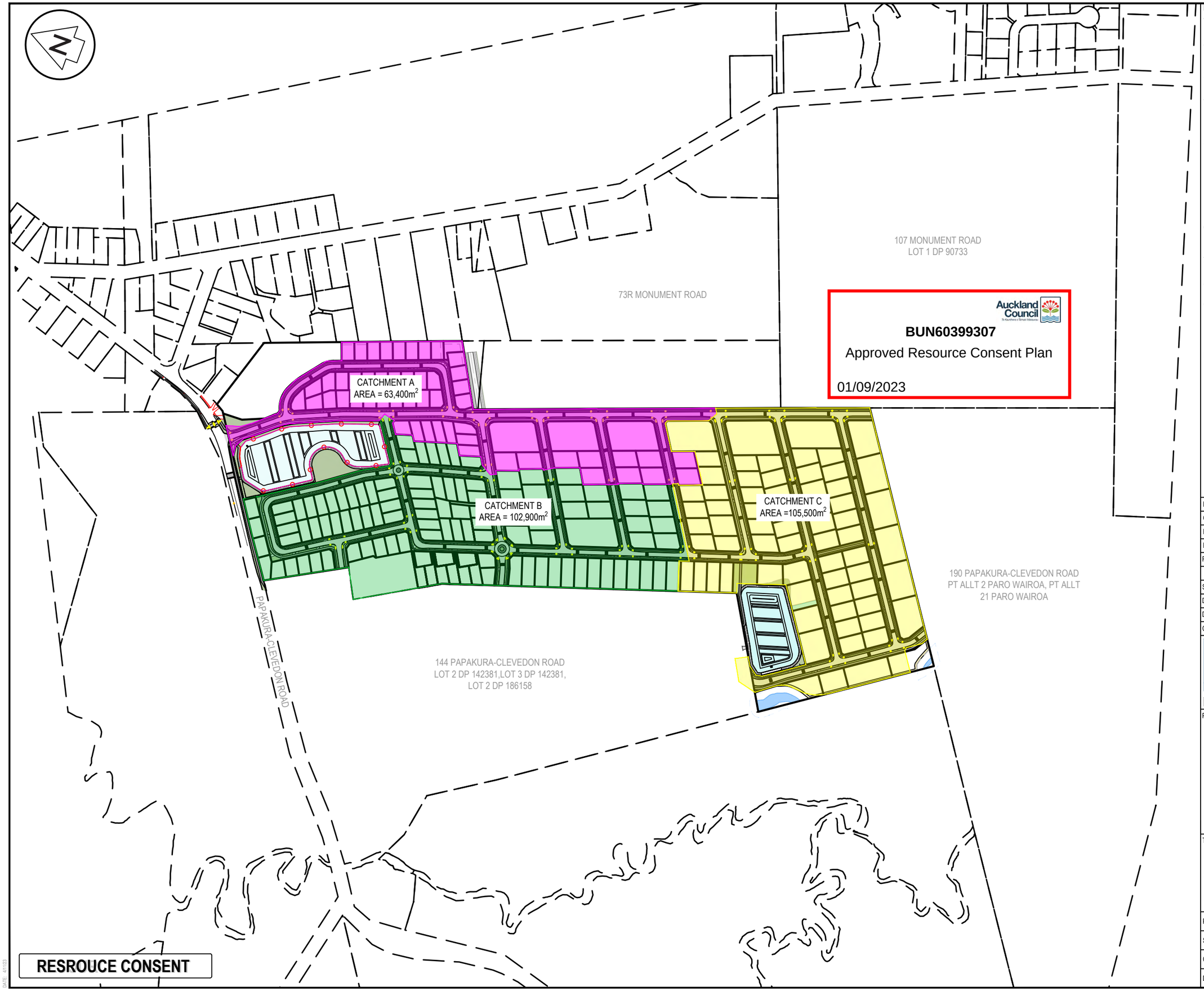
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
WETLAND STANDARD DETAILS

Project no.	194006		
Scale	NTS		
Cad file	C440- WETLAND.DWG		
Drawing no.	C445L	Rev	J



Auckland Council

BUN60399307

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01/09/2023

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Legend

- EX BDY
- PROP BDY
- PROP CATCHMENT A
- PROP CATCHMENT B
- PROP CATCHMENT C

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

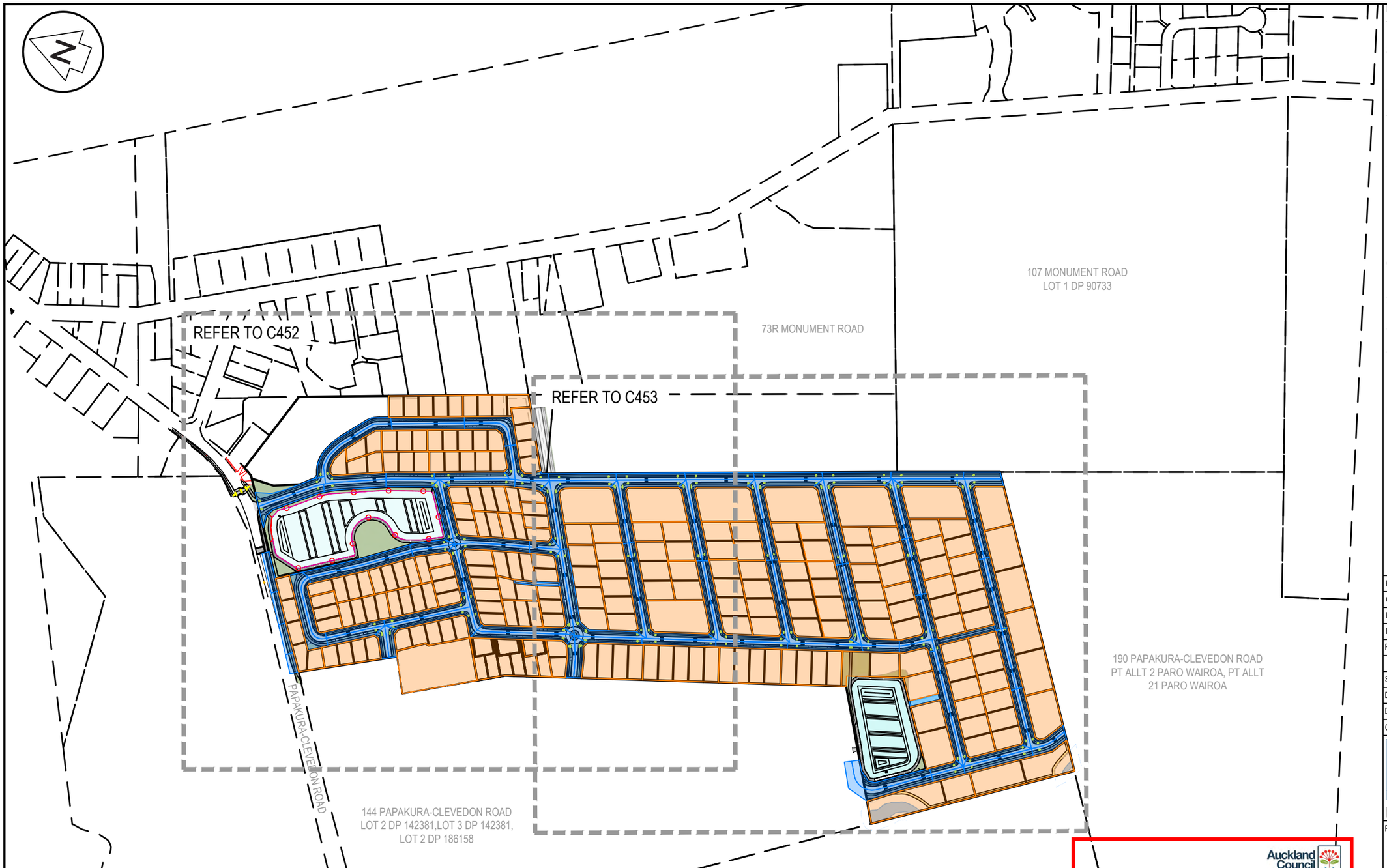
Title

PROPOSED STORMWATER 10YR CATCHMENT OVERVIEW PLAN

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	C450- DRAINAGE 10 YEAR CATCHMENT PLAN.DWG		
Drawing no.	C450	Rev	H

RESROUCE CONSENT

DATE: 4/4/23



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Legend

- EX BDY
- PROP BDY
- PROP LOT CATCHMENT
- PROP ROAD CATCHMENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER 10 YEAR CATCHMENT PLAN OVERVIEW

Project no.	194006
Scale	1:5000 @ A3
Cad file	C450- DRAINAGE 10 YEAR CATCHMENT PLAN.DWG
Drawing no.	C451 Rev H

RESROUCE CONSENT

DATE: 4/1/23

73R MONUMENT ROAD

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381,LOT 3 DP 142381,
LOT 2 DP 186158

PAPAKURA-CLEVEDON ROAD

RESROUCE CONSENT

Auckland Council

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- EX BDY
- PROP BDY
- PROP LOT CATCHMENT
- PROP ROAD CATCHMENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER 10 YEAR CATCHMENT PLAN

Project no.	194006		
Scale	1:2000 @ A3		
Cad file	C450- DRAINAGE 10 YEAR CATCHMENT PLAN.DWG		
Drawing no.	C452	Rev	H

PLOTTED: 8/11/23

Auckland Council

BUN60399307

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01/09/2023

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Legend

- EX BDY
- PROP BDY
- PROP LOT CATCHMENT
- PROP ROAD CATCHMENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED STORMWATER 10 YEAR CATCHMENT PLAN

Project no.	194006
Scale	1:2000 @ A3
Cad file	C450- DRAINAGE 10 YEAR CATCHMENT PLAN.DWG
Drawing no.	C453
Rev	H

RESROUCE CONSENT

UPSTREAM CATCHMENT 1
AREA = 1.65ha
Q_{100}FLOW = 0.75m^3/s

UPSTREAM CATCHMENT 2
AREA = 2.32ha
Q_{100}FLOW = 0.98m^3/s

UPSTREAM CATCHMENT 3A
AREA = 0.60ha
Q_{100}FLOW = 0.25m^3/s

UPSTREAM CATCHMENT 3
AREA = 2.90ha
Q_{100}FLOW = 1.22m^3/s

UPSTREAM CATCHMENT 4
AREA = 1.51ha
Q_{100}FLOW = 0.61m^3/s

UPSTREAM CATCHMENT 1A
AREA = 0.60ha
Q_{100}FLOW = 0.27m^3/s

Q_{100} FLOW = 9.45m^3/s

EX CATCHMENT 1
AREA = 23.08 ha
Q_{100} FLOW = 5.82m^3/s

EX CATCHMENT 2
AREA = 5.57 ha
Q_{100} FLOW = 1.87m^3/s

Q_{100} FLOW = 1.87m^3/s

EX CATCHMENT 3
AREA = 0.55 ha
Q_{100} FLOW = 0.26m^3/s

Q_{100} FLOW = 0.26m^3/s

Q_{100} FLOW = 0.75m^3/s

EX CATCHMENT 4
AREA = 1.57 ha
Q_{100} FLOW = 0.75m^3/s

RESOURCE CONSENT

Auckland Council

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Legend

- EX BDY
- PROP BDY
- OLFP FLOW

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

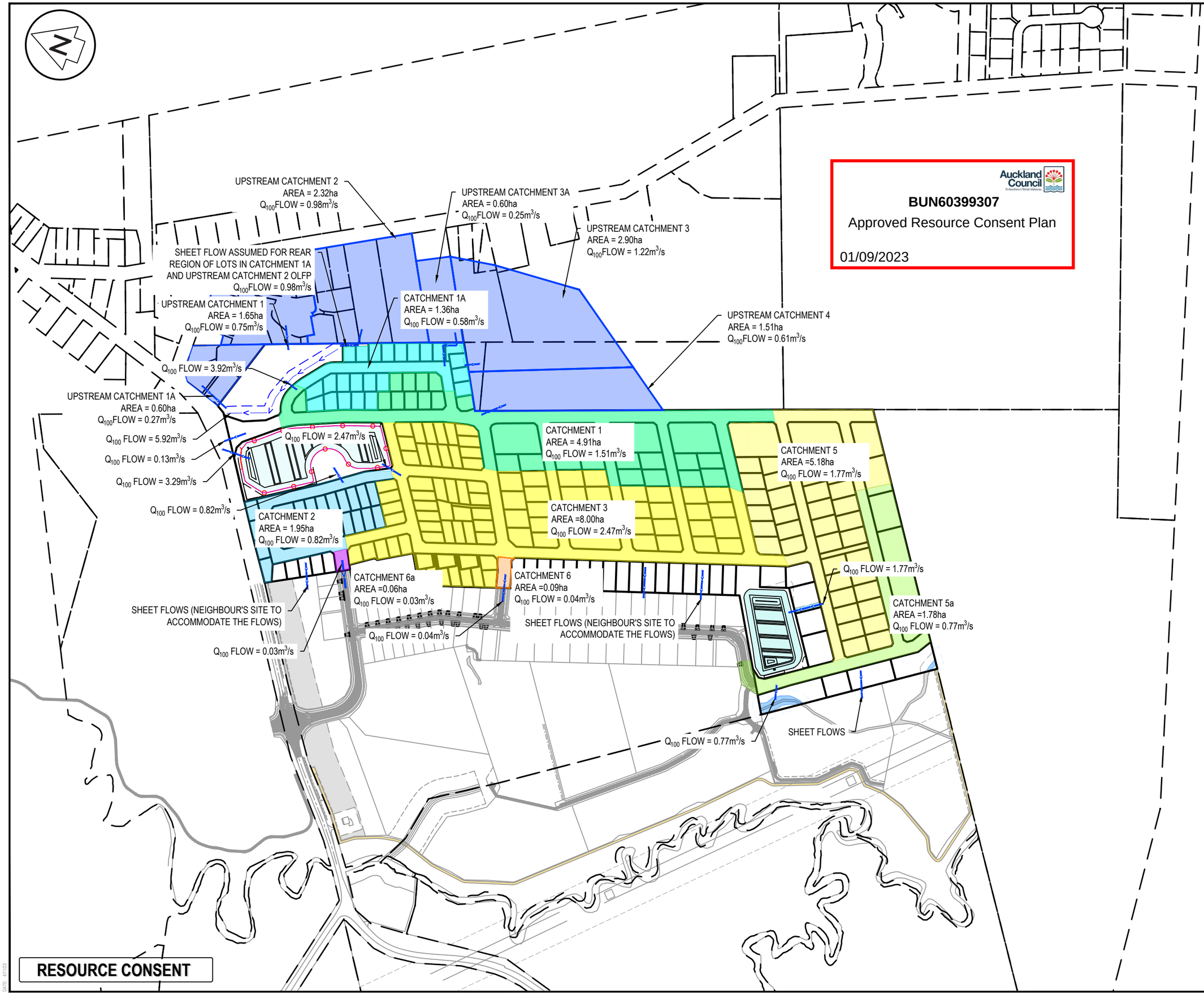
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

EXISTING OLFP 100 YR CATCHMENT PLAN PRE

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	C454- 100 YEAR OLFP PLANS.DWG		
Drawing no.	C454	Rev	H

DATE: 4/11/23



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. Pipe bedding: 0 - 10% granular bedding,10 - 20% weak concrete bedding.greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
5. Each connection shall be marked by a 50mmx50mm treated pine stake extending 600mm above ground level with the top painted. This marker post shall be placed alongside a timber marker installed at the time of pipelaying and extending from the connection to 150mm below finished ground level. Connections shall be accurately indicated on "as built" plans.
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

- EX BDY
- PROP BDY
- OLFP FLOW
- PROP SW SWALE

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

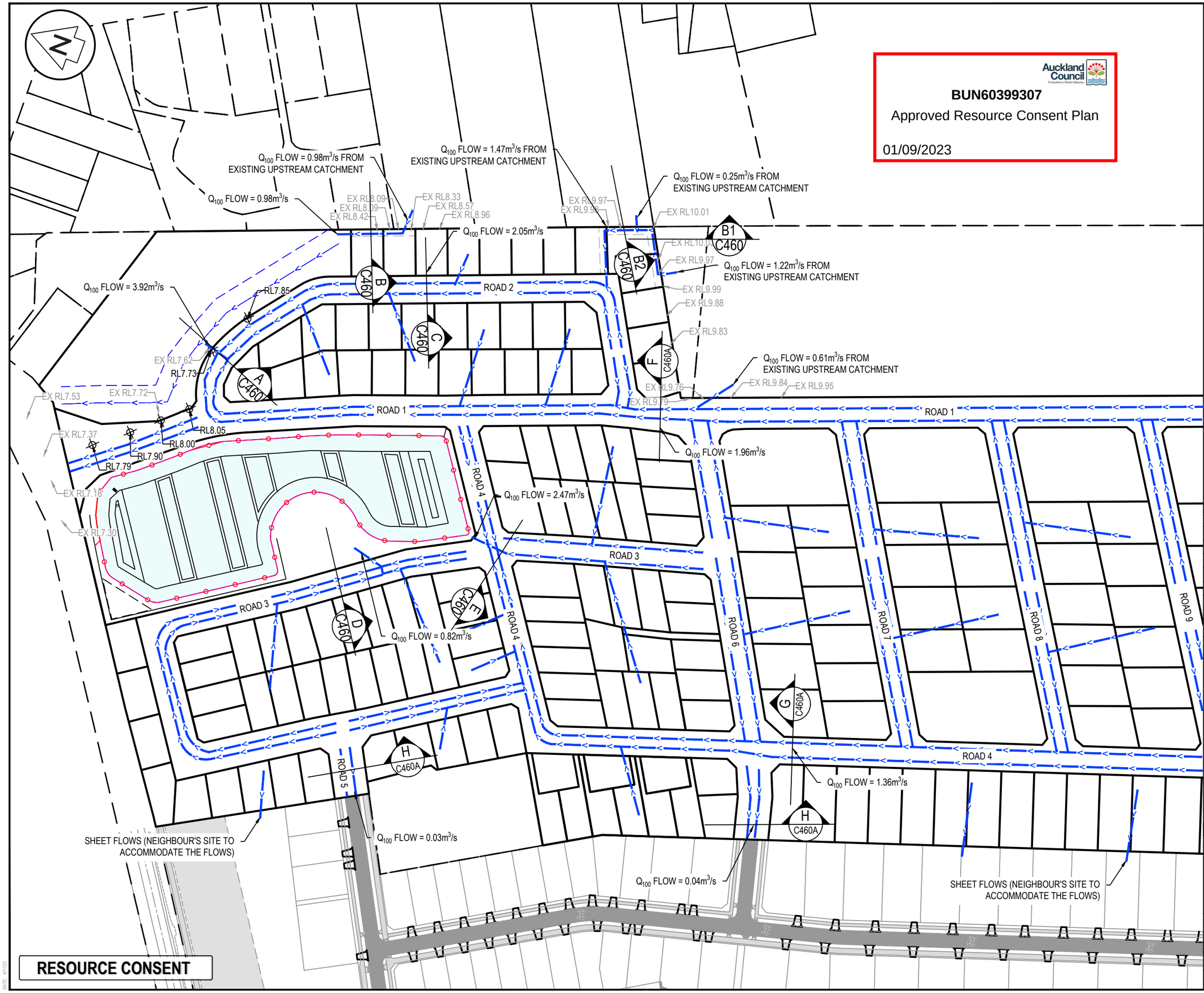
Title

PROPOSED OVERALL OLFP 100 YEAR CATCHMENT PLAN POST

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	C454- 100 YEAR OLFP PLANS.DWG		
Drawing no.	C455	Rev	H

RESOURCE CONSENT

DATE: 4/11/23



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. Pipe bedding: 0 - 10% granular bedding,10 - 20% weak concrete bedding.greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
5. Each connection shall be marked by a 50mmx50mm treated pine stake extending 600mm above ground level with the top painted. This marker post shall be placed alongside a timber marker installed at the time of pipelaying and extending from the connection to 150mm below finished ground level. Connections shall be accurately indicated on "as built" plans.
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

- EX BDY
- PROP BDY
- OLFP FLOW
- EX RL9.95 EXISTING RL
- RL9.95 PROPOSED RL

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED OLFP 100 YEAR CATCHMENT PLAN

Project no.	194006		
Scale	1:2000 @ A3		
Cad file	C454- 100 YEAR OLFP PLANS.DWG		
Drawing no.	C456	Rev	H

DATE 4/7/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

ROAD 1

ROAD 4

ROAD 6

ROAD 7

ROAD 8

ROAD 9

ROAD 10

ROAD 11

ROAD 12

ROAD 13

H
C460A

Q_{100} FLOW = 0.04m^3/s

Q_{100} FLOW = 1.77m^3/s

I
C461

J
C461

K
C461

Q_{100} FLOW = 0.77m^3/s

100Yr OLFP FLOWS PIPED AND DISCHARGED THROUGH AN OUTLET

SHEET FLOWS

RESOURCE CONSENT

DATE: 4/11/23

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. Pipe bedding: 0 - 10% granular bedding,10 - 20% weak concrete bedding.greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
5. Each connection shall be marked by a 50mmx50mm treated pine stake extending 600mm above ground level with the top painted. This marker post shall be placed alongside a timber marker installed at the time of pipelaying and extending from the connection to 150mm below finished ground level. Connections shall be accurately indicated on "as built" plans.
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

EX BDY
PROP BDY
OLFP FLOW

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED OLFP 100 YEAR CATCHMENT PLAN

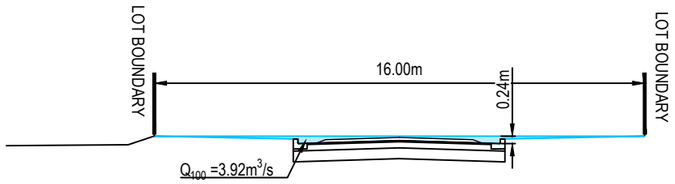
Project no.	194006		
Scale	1:2000 @ A3		
Cad file	C454- 100 YEAR OLFP PLANS.DWG		
Drawing no.	C457	Rev	H

Auckland Council

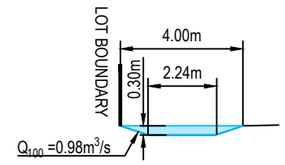
BUN60399307

Approved Resource Consent Plan

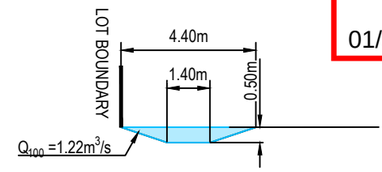
01/09/2023



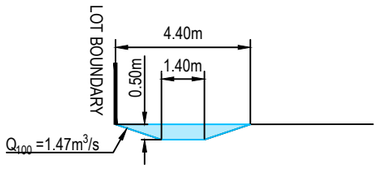
A C456 SECTION A (150mm MIN FREEBOARD)
SCALE 1:200 @ A3



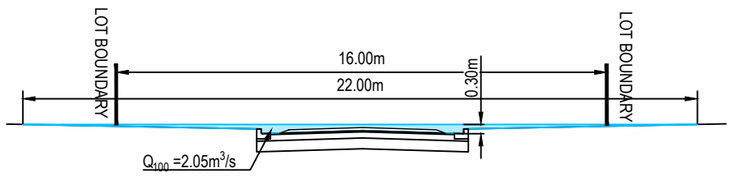
B C456 SECTION B (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



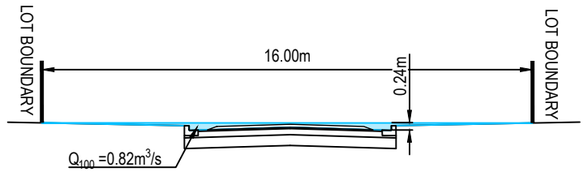
B1 C456 SECTION B1 (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



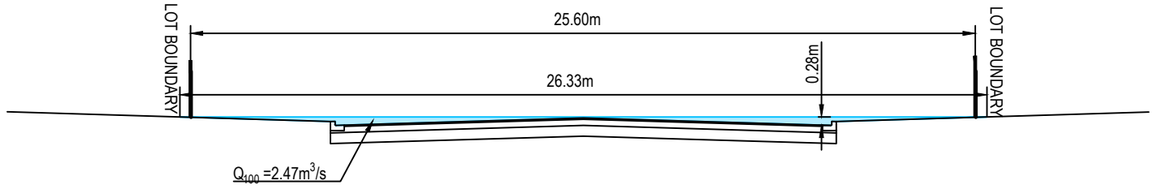
B2 C456 SECTION B2 (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



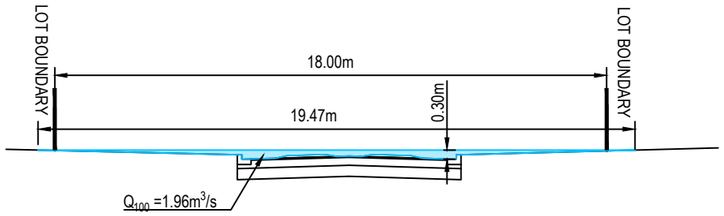
C C456 SECTION C (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



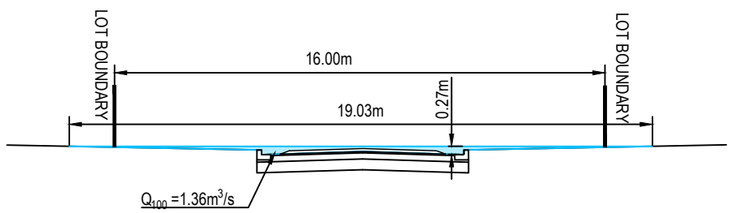
D C456 SECTION D (150mm MIN FREEBOARD)
SCALE 1:200 @ A3



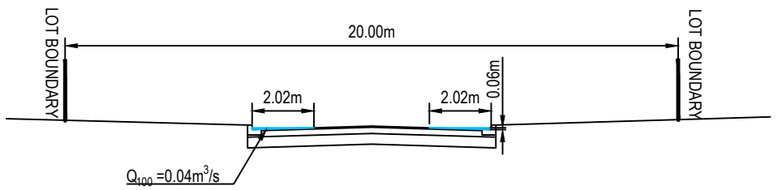
E C456 SECTION E (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



F C456 SECTION F (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



G C456 SECTION G (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



H C456 SECTION H (150mm MIN FREEBOARD)
SCALE 1:200 @ A3

150mm MIN FREEBOARD IF CONTAINED WITHIN THE ROAD CARRIAGEWAY. IF ENCROACHES THE LOT BOUNDARY, THEN 500mm FREEBOARD.

RESOURCE CONSENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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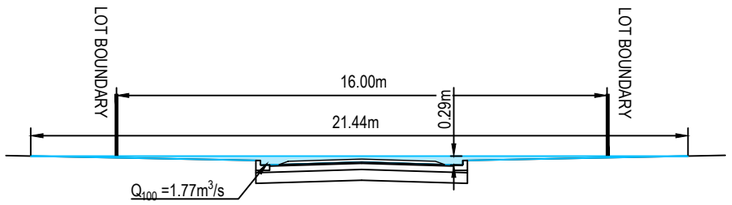
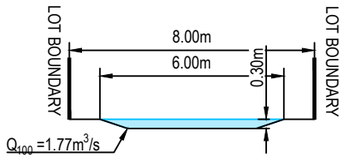
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED OLFP SECTIONS PLAN (1 OF 2)

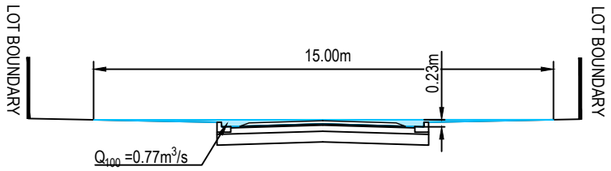
Project no.	194006
Scale	1:200 @ A3
Cad file	C454- 100 YEAR OLFP PLANS.DWG
Drawing no.	C460
Rev	H



I / C457 SECTION I (500mm MIN FREEBOARD)
SCALE 1:200 @ A3



J / C457 SECTION J (150mm MIN FREEBOARD)
SCALE 1:200 @ A3



K / C457 SECTION K (150mm MIN FREEBOARD)
SCALE 1:200 @ A3

150mm MIN FREEBOARD IF CONTAINED WITHIN THE ROAD CARRIAGEWAY. IF ENCROACHES THE LOT BOUNDARY, THEN 500mm FREEBOARD.

RESOURCE CONSENT

DATE 4/1/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	JV	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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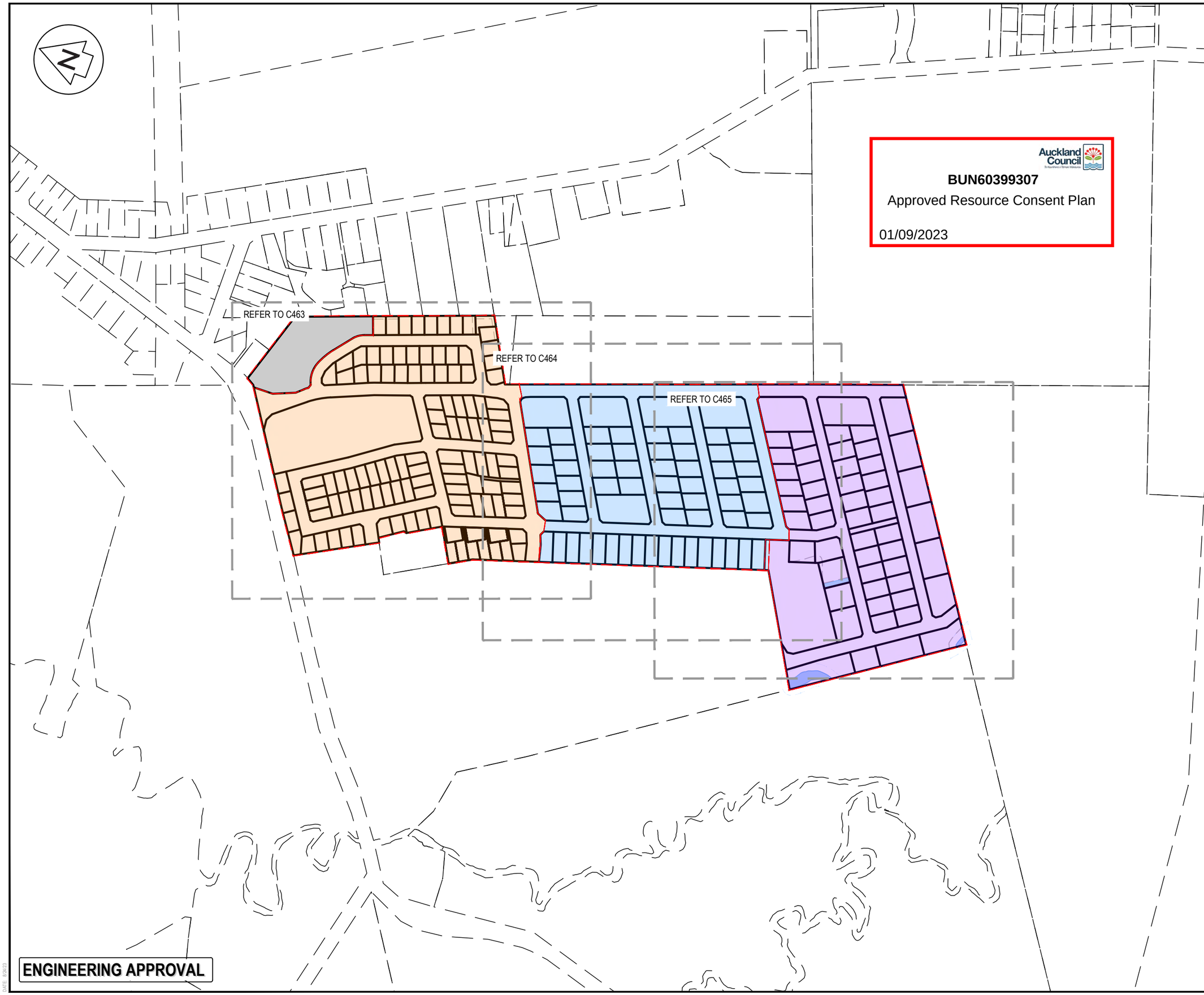
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED OLFP SECTIONS PLAN (2 OF 2)

Project no.	194006		
Scale	1:200 @ A3		
Cad file	C454- 100 YEAR OLFP PLANS.DWG		
Drawing no.	C461	Rev	H



BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.

STAGE 1
STAGE 2
STAGE 3
STAGE 4

Rev	Description	By	Date
I	EPA RFI	ML	08/2023
H	EPA RFI	JV	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	JV	02/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	JV	01/22
Drawn	JV	01/22
Checked	JP	01/22

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTOES LTD

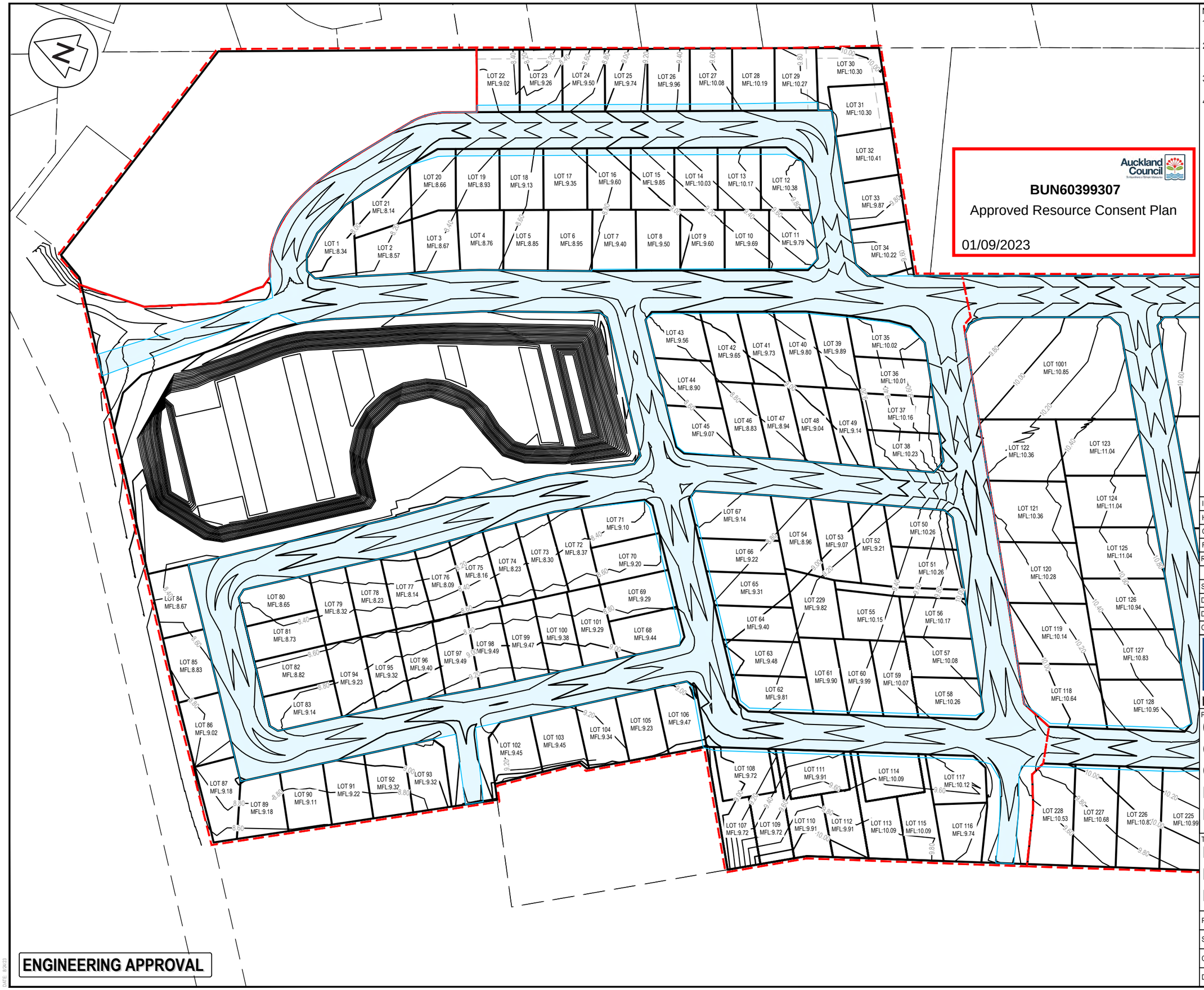
Title

PROPOSED MINIMUM FLOOR LEVELS OVERVIEW PLAN

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	CLEVEDON MFL.DWG		
Drawing no.	C462	Rev	I

ENGINEERING APPROVAL

DATE: 8/04/23



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.
4. Minimum freeboard to be 150mm above 100 flood level unless stated otherwise.

Legend

OLFP EXTENT

Rev	Description	By	Date
I	EPA RFI	ML	08/2023
H	EPA RFI	JV	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	JV	02/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	JV	01/22
Drawn	JV	01/22
Checked	JP	01/22

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTOES LTD

Title

PROPOSED MINIMUM FLOOR LEVELS PLAN

Project no.	194006		
Scale	1:1500 @ A3		
Cad file	CLEVEDON MFL.DWG		
Drawing no.	C463	Rev	I

ENGINEERING APPROVAL

DATE 9/24/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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Legend

OLFP EXTENT

Rev	Description	By	Date
I	EPA RFI	ML	08/2023
H	EPA RFI	JV	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	JV	02/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	JV	01/22
Drawn	JV	01/22
Checked	JP	01/22

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTOES LTD

Title

PROPOSED MINIMUM FLOOR LEVELS PLAN

Project no.	194006
Scale	1:1500 @ A3
Cad file	CLEVEDON MFL.DWG
Drawing no.	C464 Rev I

ENGINEERING APPROVAL

DATE: 2/04/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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Legend

OLFP EXTENT

ENGINEERING APPROVAL

DATE: 8/24/23

Rev	Description	By	Date
I	EPA RFI	ML	08/2023
H	EPA RFI	JV	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	JV	02/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	JV	01/22
Drawn	JV	01/22
Checked	JP	01/22

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTOES LTD

Title

PROPOSED MINIMUM FLOOR LEVELS PLAN

Project no.	194006		
Scale	1:1500 @ A3		
Cad file	CLEVEDON MFL.DWG		
Drawing no.	C465	Rev	I

Point Table	
LOT NUMBER	MINIMUM FFL
1	8.44m
2	8.57m
3	8.67m
4	8.76m
5	8.85m
6	8.95m
7	9.40m
8	9.50m
9	9.60m
10	9.69m
11	9.79m
12	10.38m
13	10.17m
14	10.03m
15	9.85m
16	9.60m
17	9.35m
18	9.13m
19	8.93m
20	8.66m
21	8.14m
22	9.02m
23	9.26m
24	9.50m
25	9.74m
26	9.96m
27	10.08m
28	10.19m
29	10.27m
30	10.30m
31	10.30m
32	10.41m
33	9.87m
34	10.22m
35	10.02m
36	10.01m
37	10.16m
38	10.23m
39	9.89m
40	9.80m

Point Table	
LOT NUMBER	MINIMUM FFL
41	9.73m
42	9.65m
43	9.56m
44	8.90m
45	9.07m
46	8.83m
47	8.94m
48	9.04m
49	9.14m
50 & 51	10.26m
52	9.21m
53	9.07m
54	8.96m
55	10.15m
56	10.17m
57	10.08m
58	10.26m
59	10.07m
60	9.99m
61	9.90m
62	9.81m
63	9.48m
64	9.40m
65	9.31m
66	9.22m
67	9.14m
68	9.44m
69	9.29m
70	9.20m
71	9.10m
72	8.37m
73	8.30m
74	8.23m
75	8.16m
76	8.09m
77	8.14m
78	8.23m
79	8.32m
80	8.65m
81	8.73m

Point Table	
LOT NUMBER	MINIMUM FFL
82	8.82m
83	9.14m
84	8.67m
85	8.83m
86	9.02m
87 & 89	9.18m
90	9.11m
91	9.22m
92 & 93	9.32m
94	9.23m
95	9.32m
96	9.40m
97 & 98	9.49m
99	9.47m
100	9.38m
101	9.29m
102 & 103	9.45m
104	9.34m
105	9.23m
106	9.47m
107, 108 & 109	9.72m
110, 111 & 112	9.91m
113, 114 & 115	10.09m
116	9.74m
117	10.12m
118	10.64m
119	10.14m
120	10.28m
121 & 122	10.36m
123 & 124	11.04m
125	11.04m
126	10.94m
127	10.83m
128	10.95m
129	10.91m
130	11.04m
131 & 132	11.13m
133	11.82m
134 & 135	12.01m
136	11.88m

Point Table	
LOT NUMBER	MINIMUM FFL
137	11.73m
138	11.69m
139	11.88m
140 & 141	12.01m
142	11.84m
143	12.80m
144 & 145	12.91m
146	12.73m
147	12.51m
148	12.29m
149	12.30m
150	12.46m
151	12.69m
152 & 153	12.90m
154	12.82m
155	13.34m
156 & 157	13.46m
158	13.29m
159	13.06m
160	12.79m
161	12.74m
162	12.96m
163	13.19m
164 & 165	13.41m
166	13.37m
167	12.94m
168	12.84m
169	12.73m
170	12.59m
171	12.48m
172	12.60m
173	13.98m
174 & 175	14.16m
176	13.91m
177	13.67m
178	13.78m
179	13.85m
180	13.03m
181	12.57m
182	12.19m

Point Table	
LOT NUMBER	MINIMUM FFL
183	13.27m
184	13.38m
185	13.49m
186	13.60m
187	13.72m
188	13.83m
189	13.98m
190	14.08m
191 & 192	14.19m
193	14.13m
194	13.97m
195	12.97m
196	12.82m
197	12.70m
198	12.57m
199	12.45m
200	12.32m
201 & 202	12.44m
203	12.32m
204 & 205	12.46m
206	12.82m
208 & 207	12.44m
209	12.36m
210	12.57m
211	12.60m
212	12.42m
213	12.33m
214	12.23m
215	12.14m
216	12.02m
217	11.85m
218	11.70m
219	11.55m
220	11.40m
221	11.25m
222	11.09m
223	10.94m
224 & 225	10.99m
226	10.83m
227	10.68m

Point Table	
LOT NUMBER	MINIMUM FFL
228	10.53m
229	9.82m
1001	10.85m
1002	11.63m
1003	12.67m
1004	13.22m
1005	13.36m
1006	13.84m
5000	11.69m

Auckland Council

BUN60399307

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01/09/2023

ADDITIONAL NOTES:

IN ACCORDANCE WITH AUP:
1. WHERE OVERLAND FLOW PATH IS CONTAINED WITHIN THE ROAD CARRIAGEWAY AND FLOW IS LESS THAN 2m3/s, AS SIMPLIFIED METHOD (AND CONSERVATIVE), MINIMUM FINISHED FLOOR LEVELS HAVE BEEN ESTABLISHED BY ADDING 150MM FREEBOARD TO THE TOP OF KERB LEVEL.

2. WHERE OVERLAND FLOW PATH OVERTOPS THE KERB AND FLOW IS LESS THAN 2m3/sec, MINIMUM FINISHED FLOOR LEVELS HAVE BEEN ESTABLIHSED BY ADDING 150MM FREEBOARD TO THE TOP OF THE 100 YEAR FLOOD LEVEL.

3. MINIMUM 500MM FREEBOARD HAS BEEN PROVIDED WHERE FLOWS ARE MORE THAN 2m3/sec AND/OR ENCROACHES THE LOT BOUNDARIES.

ENGINEERING APPROVAL

DATE 8/8/23

Notes
1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.

Rev	Description	By	Date
I	EPA RFI	ML	08/2023
H	EPA RFI	JV	03/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	JV	02/2023

	By	Date
Survey	SURVEYWORX	12/21
Design	JV	01/22
Drawn	JV	01/22
Checked	JP	01/22

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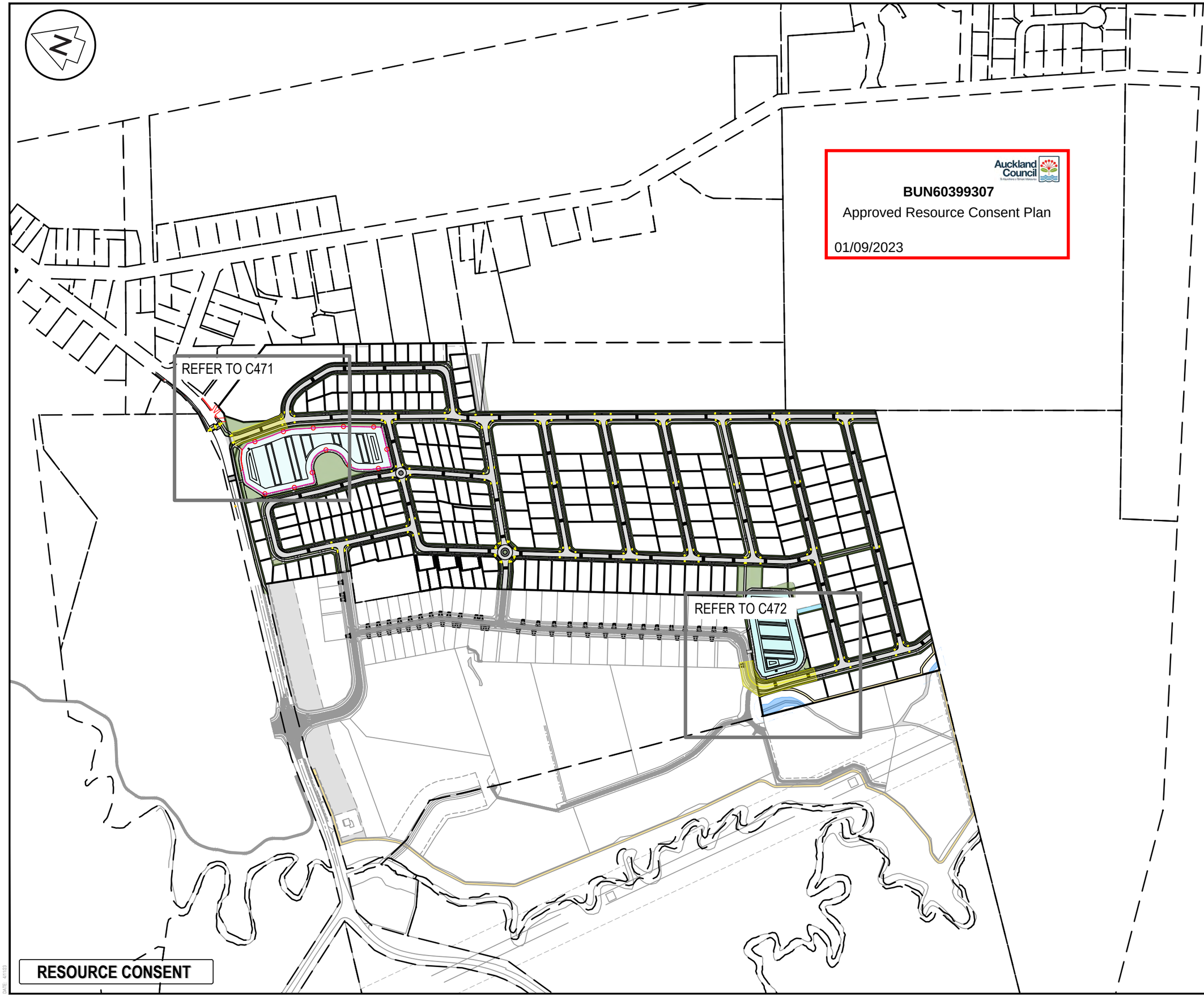
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTOES LTD

Title
PROPOSED MINIMUM FLOOR LEVELS TABLE

Project no.	194006
Scale	-
Cad file	CLEVEDON MFL.DWG
Drawing no.	C466 Rev I



Auckland Council

BUN60399307

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Notes

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2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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4. Pipe bedding: 0 - 10% granular bedding,10 - 20% weak concrete bedding.greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
5. Each connection shall be marked by a 50mmx50mm treated pine stake extending 600mm above ground level with the top painted. This marker post shall be placed alongside a timber marker installed at the time of pipelaying and extending from the connection to 150mm below finished ground level. Connections shall be accurately indicated on "as built" plans.
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

- EX BDY
- PROP BDY
- PROP GPT CATCHMENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED GPT CATCHMENT PLAN OVERVIEW

Project no.	194006		
Scale	1:5000 @ A3		
Cad file	C470- GPT PLANS.DWG		
Drawing no.	C470	Rev	H

RESOURCE CONSENT

DATE: 4/11/23

BUN60399307

Approved Resource Consent Plan

01/09/2023

GPT A CATCHMENT AREA = 1,471m²

Notes

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Legend

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- PROP BDY
- PROP GPT CATCHMENT

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

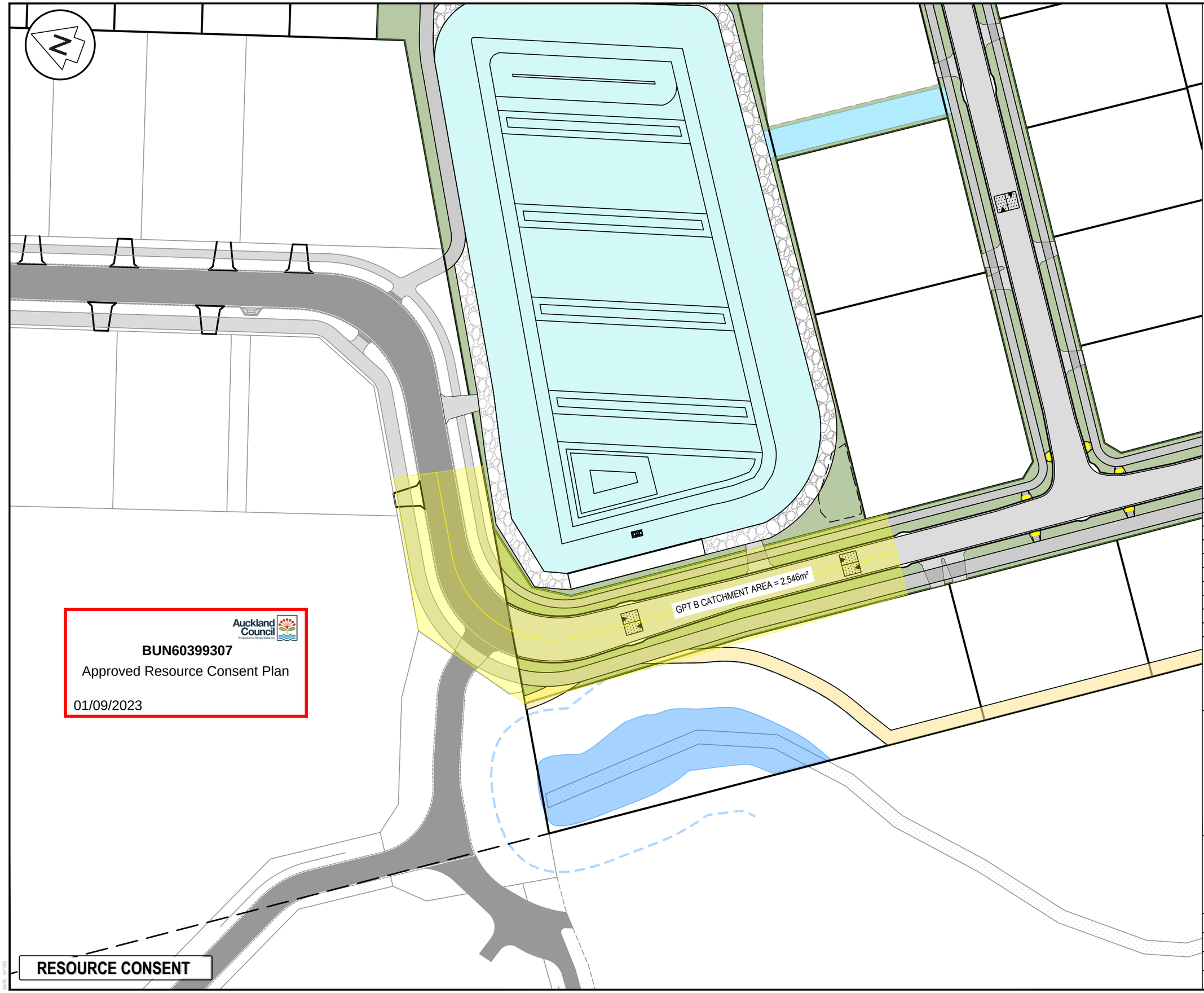
Title

PROPOSED GPT A CATCHMENT PLAN

Project no.	194006		
Scale	1:750 @ A3		
Cad file	C470- GPT PLANS.DWG		
Drawing no.	C471	Rev	H

RESOURCE CONSENT

DATE: 4/1/23



Notes

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Legend

- EX BDY
- PROP BDY
- PROP GPT CATCHMENT

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE: 4/11/23

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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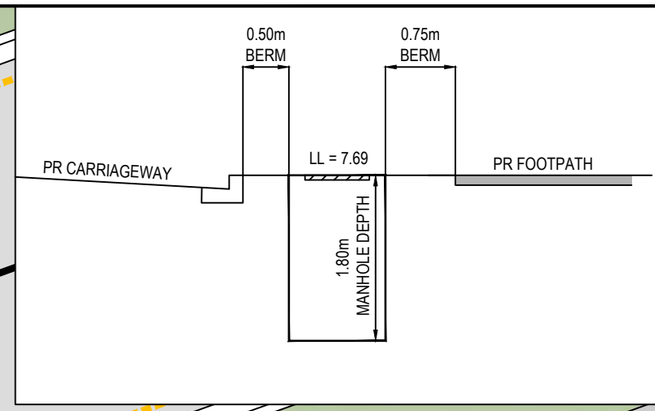
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED GPT B CATCHMENT PLAN

Project no.	194006		
Scale	1:750 @ A3		
Cad file	C470- GPT PLANS.DWG		
Drawing no.	C472	Rev	H



SECTION A-A - PROPOSED GPT MANHOLE

CP 21-1B
LL=7.50
IL=6.16 (out)

225mm RCRRJ @ 1.00%

PROPOSED 1050DN GPT IN MANHOLE 21-1.
REFER TO C482 FOR DETAILS.

PROPOSED PARKING AND SIGN
FOR GPT MAINTENANCE TRUCK

CP 21-1A
LL=7.50
IL=6.17 (out)

225mm RCRRJ @ 2.50%

PROP SWMH 21-1 (GPT)
LL=7.69
IL=6.07 (in)
IL=6.07 (in)
IL=6.07 (out)

225mm RCRRJ @ 0.82%

PR SW OUTLET 7-0
IL=5.93 (out)

PROPOSED RIP RAP

BUN60399307
Approved Resource Consent Plan
01/09/2023

RESOURCE CONSENT

DATE: 4/11/23

Notes

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8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

- EX BDY
- PROP BDY
- PR STORMWATER
- EX/PROP SWMH
- PR SWCP SINGLE
- PR GOBI BLOCKS

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED GPT A PLAN

Project no.	194006		
Scale	1:100 @ A3		
Cad file	C470- GPT PLANS.DWG		
Drawing no.	C473	Rev	H

BUN60399307

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01/09/2023

PROPOSED RIP RAP

PR SW OUTLET 6-0
IL=9.11 (out)

300mm RCRRJ @ 0.40%

PROPOSED 1050DN GPT IN MANHOLE 20-1.
REFER TO C482 FOR DETAILS.

PROPOSED PARKING AND SIGN
FOR GPT MAINTENANCE TRUCK

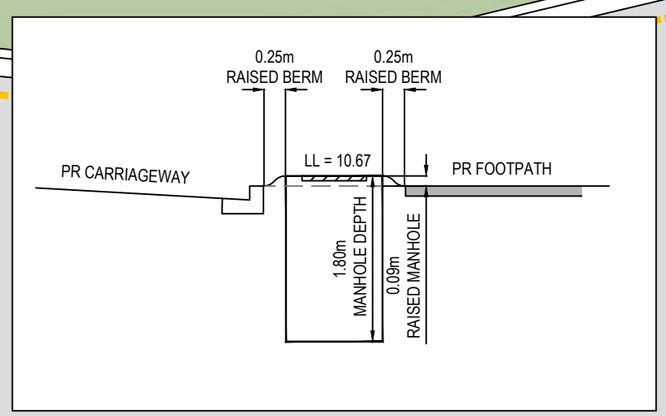
225mm RCRRJ @ 1.00%

CP 20-1B
LL=10.46
IL=9.18 (out)

PROP SWMH 20-1 (GPT)
LL=10.67
IL=9.16 (in)
IL=9.16 (in)
IL=9.16 (out)

225mm RCRRJ @ 1.00%

CP 20-1A
LL=10.46
IL=9.25 (out)



SECTION B-B - PROPOSED RAISED GPT MANHOLE

RESOURCE CONSENT

DATE: 4/11/23

Notes

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4. Pipe bedding: 0 - 10% granular bedding,10 - 20% weak concrete bedding.greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
5. Each connection shall be marked by a 50mmx50mm treated pine stake extending 600mm above ground level with the top painted. This marker post shall be placed alongside a timber marker installed at the time of pipelaying and extending from the connection to 150mm below finished ground level. Connections shall be accurately indicated on "as built" plans.
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All Manholes are to be 1050mmØ unless shown otherwise.
9. All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.

Legend

- EX BDY
- PROP BDY
- PR STORMWATER
- EX/PROP SWMH
- PR SWCP SINGLE
- PR SWCP DOUBLE

Rev	Description	By	Date
H	S92 RFI	ML	04/2023
G	EPA RFI	ML	03/2023
F	EPA RFI	ML	02/2023
E	EPA RFI	ML	09/2022

	By	Date
Survey	SURVEYWORX	12/2021
Design	JV	01/2022
Drawn	JV	01/2022
Checked	JP	01/2022

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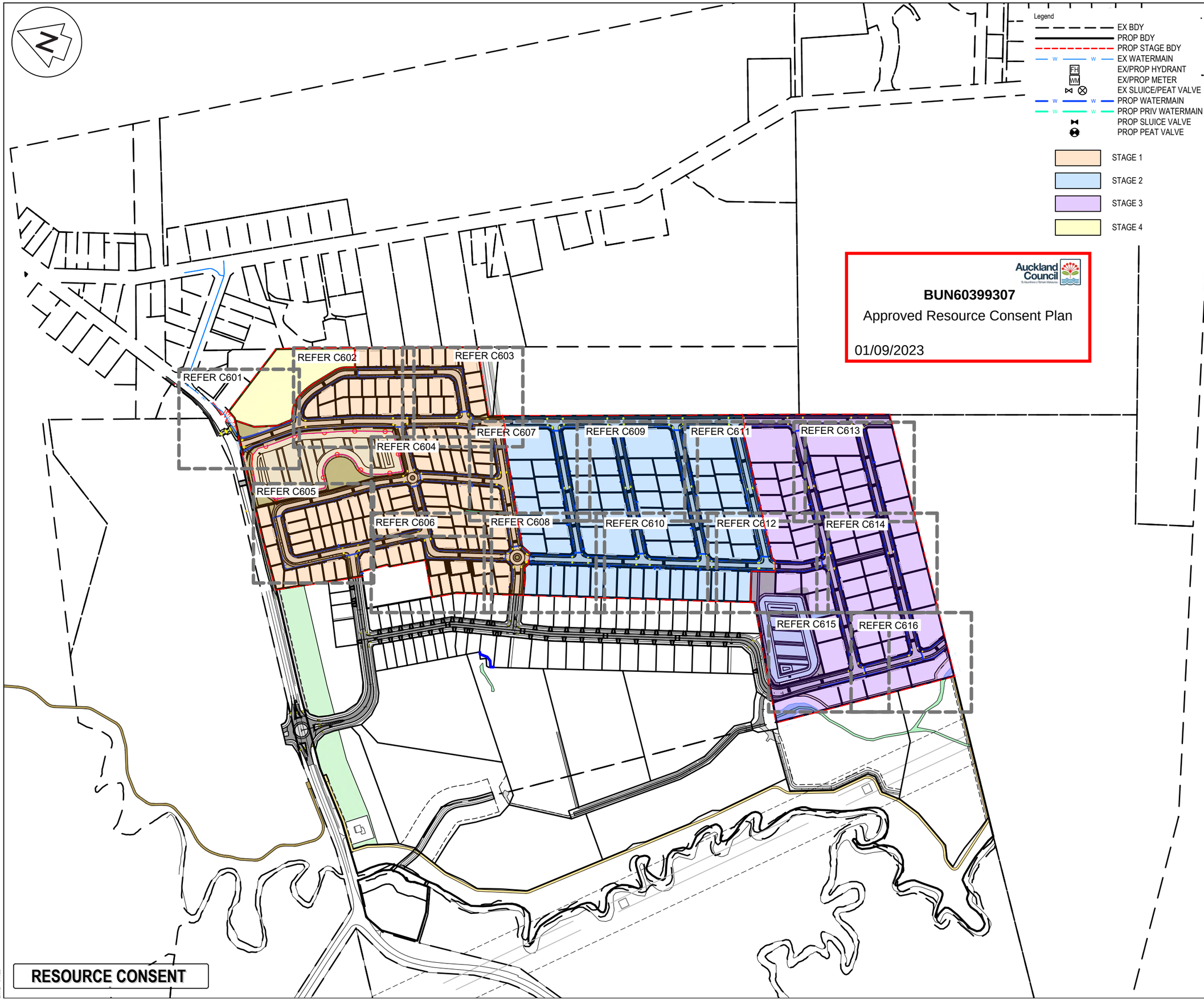
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED GPT B PLAN

Project no.	194006		
Scale	1:100 @ A3		
Cad file	C470- GPT PLANS.DWG		
Drawing no.	C474	Rev	H



Notes

1. All works to be in accordance with Auckland council standards.
2. It is the contractors responsibility to locate any underground services prior to the commencement of works.
3. Minimum cover shall be:
   - Roads, footpaths,crossings: 1000mm
   - Berms 600mm
   - Service connections: 550-650mm
4. Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
5. All uPVC pipe shall be PN12 minimum pressure rated with spignot and socket rubber ring joints.
6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
7. All non-metalic pipes are to have tracer wire fitted to council standards.
8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
11. All valves to be marked with sawcut kerb and blue paint.
12. All flange joints to be protected with denso tape or similar approved by the engineer.
13. As per WSL COP, Clearance to be provided between proposed watermains and Lot Boundaries to enable Installation of Service Leads and Water Meters with Standard Clearances. The clearance to the boundary shall be measured face to face.
14. Standard meter boxes with lockable isolation valves shall be installed on each service lead as per the WS 18 standard drawings. All boxes are to be shown on the plans outside the lot boundaries on the public road reserve.

Rev	Description	By	Date
F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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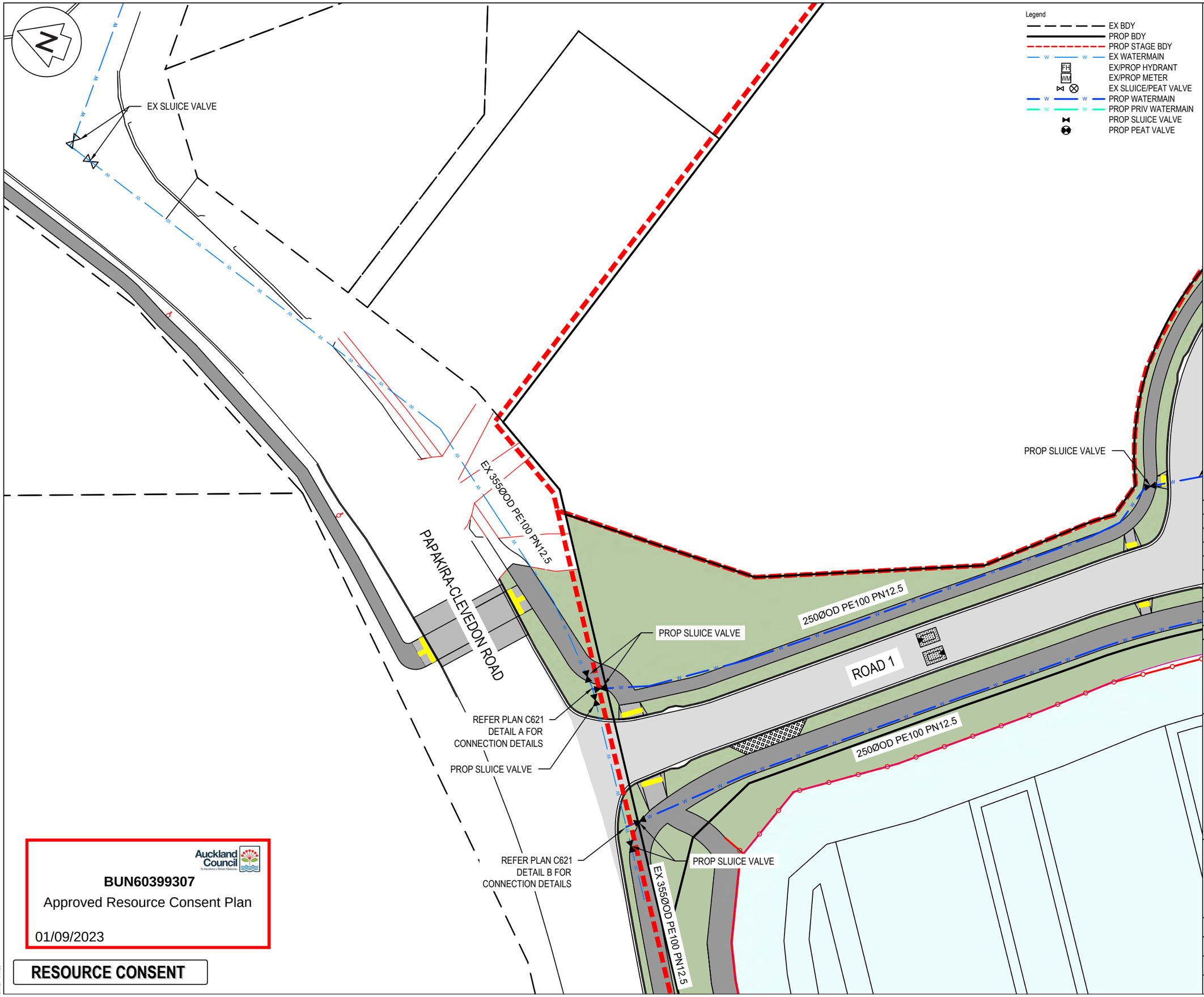
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:5000 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C600	Rev	F



Legend

- EX BDY
- PROP BDY
- PROP STAGE BDY
- EX WATERMAIN
- EX/PROP HYDRANT
- EX/PROP METER
- EX SLUICE/PEAT VALVE
- PROP WATERMAIN
- PROP PRIV WATERMAIN
- PROP SLUICE VALVE
- PROP PEAT VALVE

Notes

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   - Berms 600mm
   - Service connections: 550-650mm
4. Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
5. All uPVC pipe shall be PN12 minimum pressure rated with spignot and socket rubber ring joints.
6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
7. All non-metalic pipes are to have tracer wire fitted to council standards.
8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
11. All valves to be marked with sawcut kerb and blue paint.
12. All flange joints to be protected with denso tape or similar approved by the engineer.
13. As per WSL COP, Clearance to be provided between proposed watermains and Lot Boundaries to enable Installation of Service Leads and Water Meters with Standard Clearances. The clearance to the boundary shall be measured face to face.
14. Standard meter boxes with lockable isolation valves shall be installed on each service lead as per the WS 18 standard drawings. All boxes are to be shown on the plans outside the lot boundaries on the public road reserve.

Rev	Description	By	Date
F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C601	Rev	F

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE: 4/11/23

Auckland Council

BUN60399307

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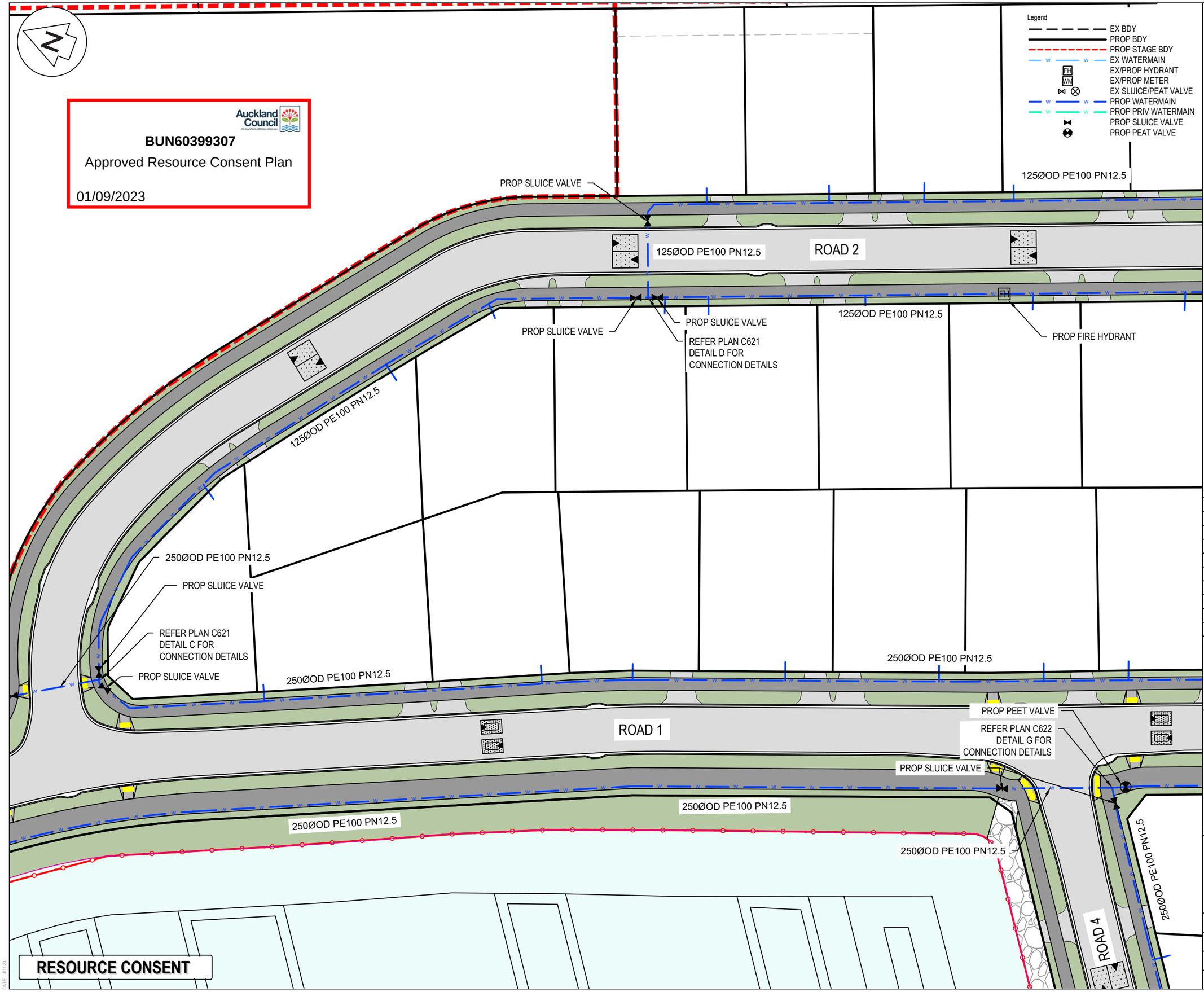
01/09/2023



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8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
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Rev	Description	By	Date
F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project

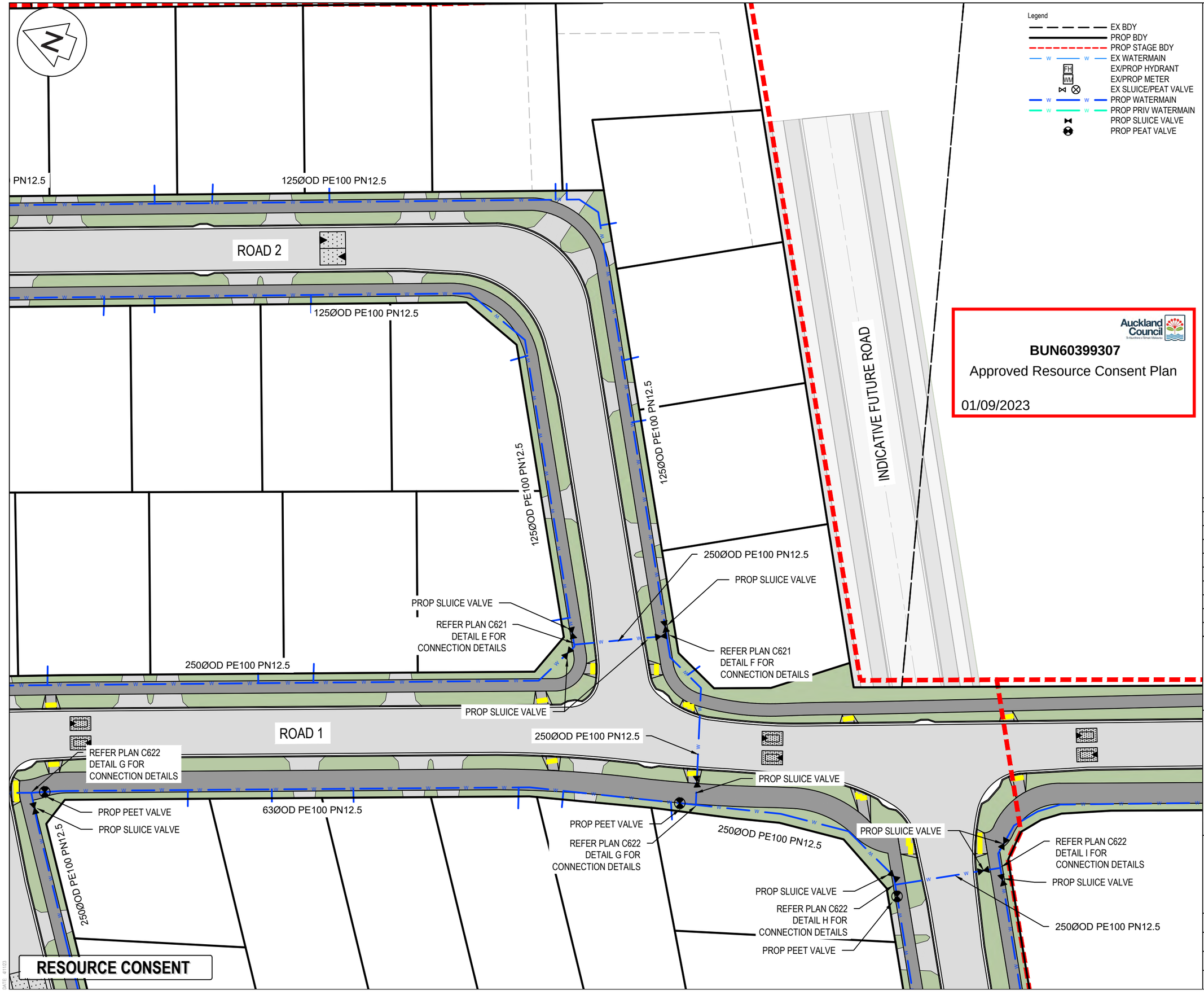
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C602	Rev	F

DATE: 4/11/23



Legend

- EX BDY
- PROP BDY
- PROP STAGE BDY
- EX WATERMAIN
- EX/PROP HYDRANT
- EX/PROP METER
- EX SLUICE/PEAT VALVE
- PROP WATERMAIN
- PROP PRIV WATERMAIN
- PROP SLUICE VALVE
- PROP PEAT VALVE

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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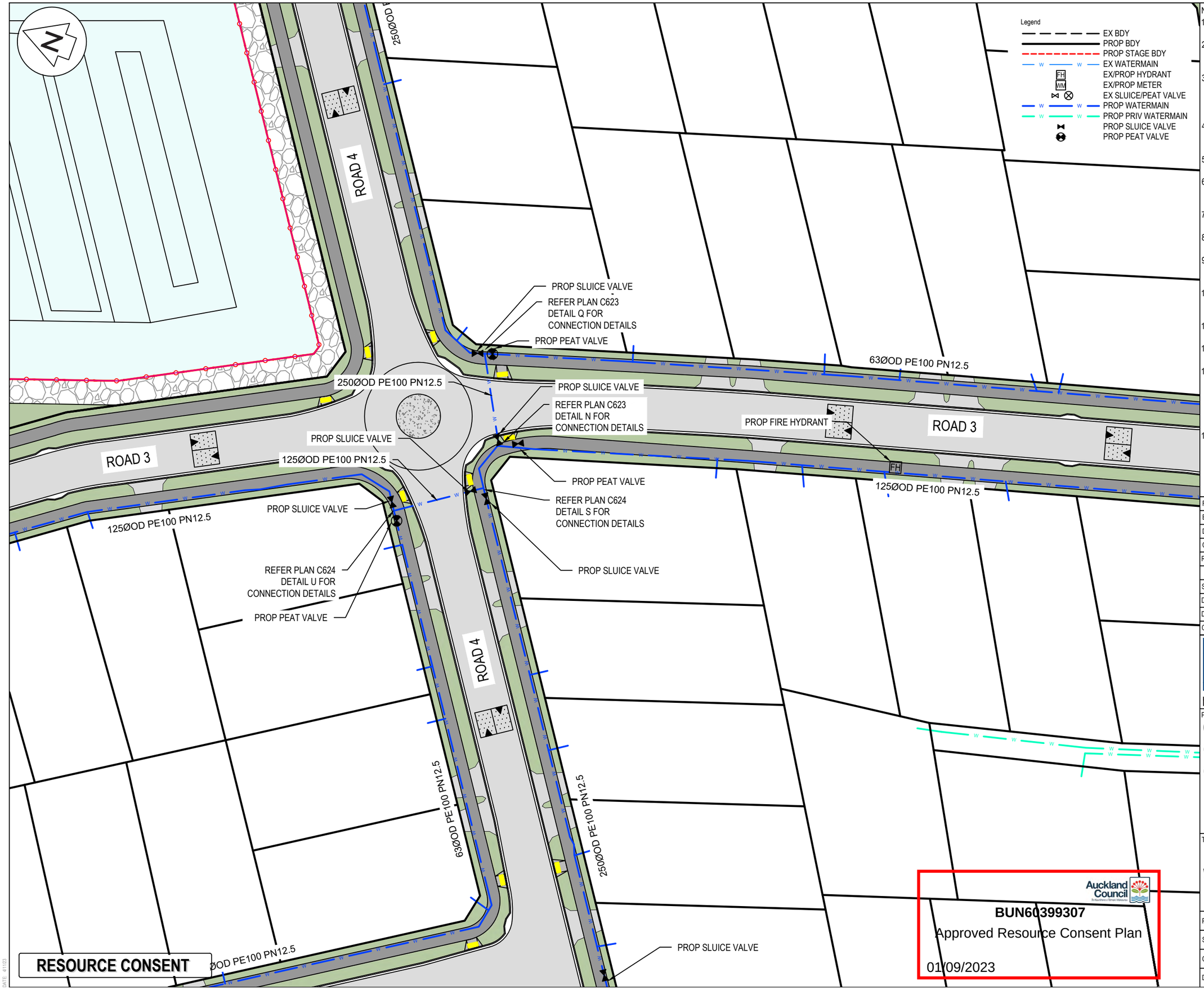
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C603	Rev	F



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Survey	-	-
Design	JV	02/2022
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Title

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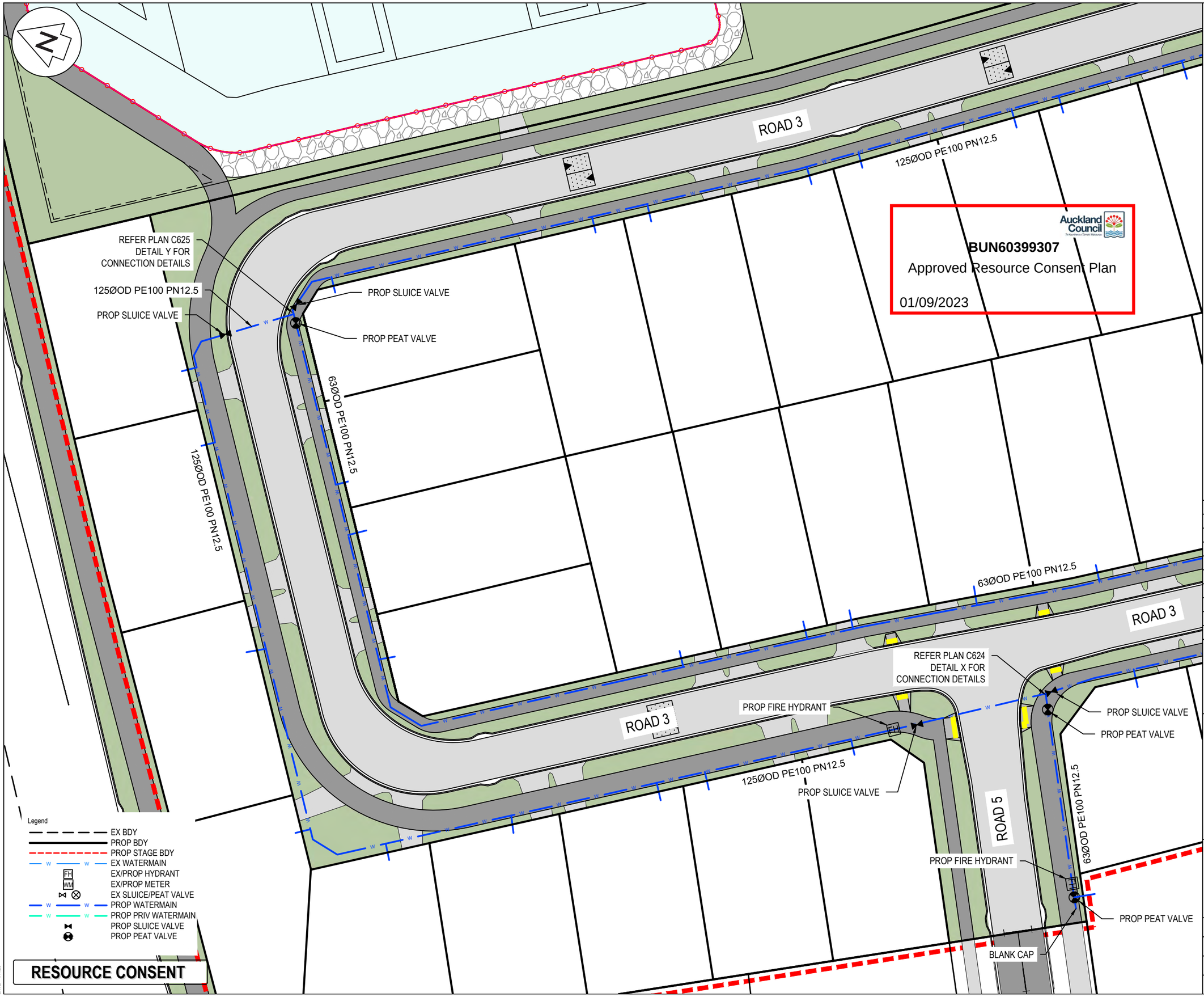
Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C604	Rev	F



Auckland Council

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Drawn	ML	02/2022
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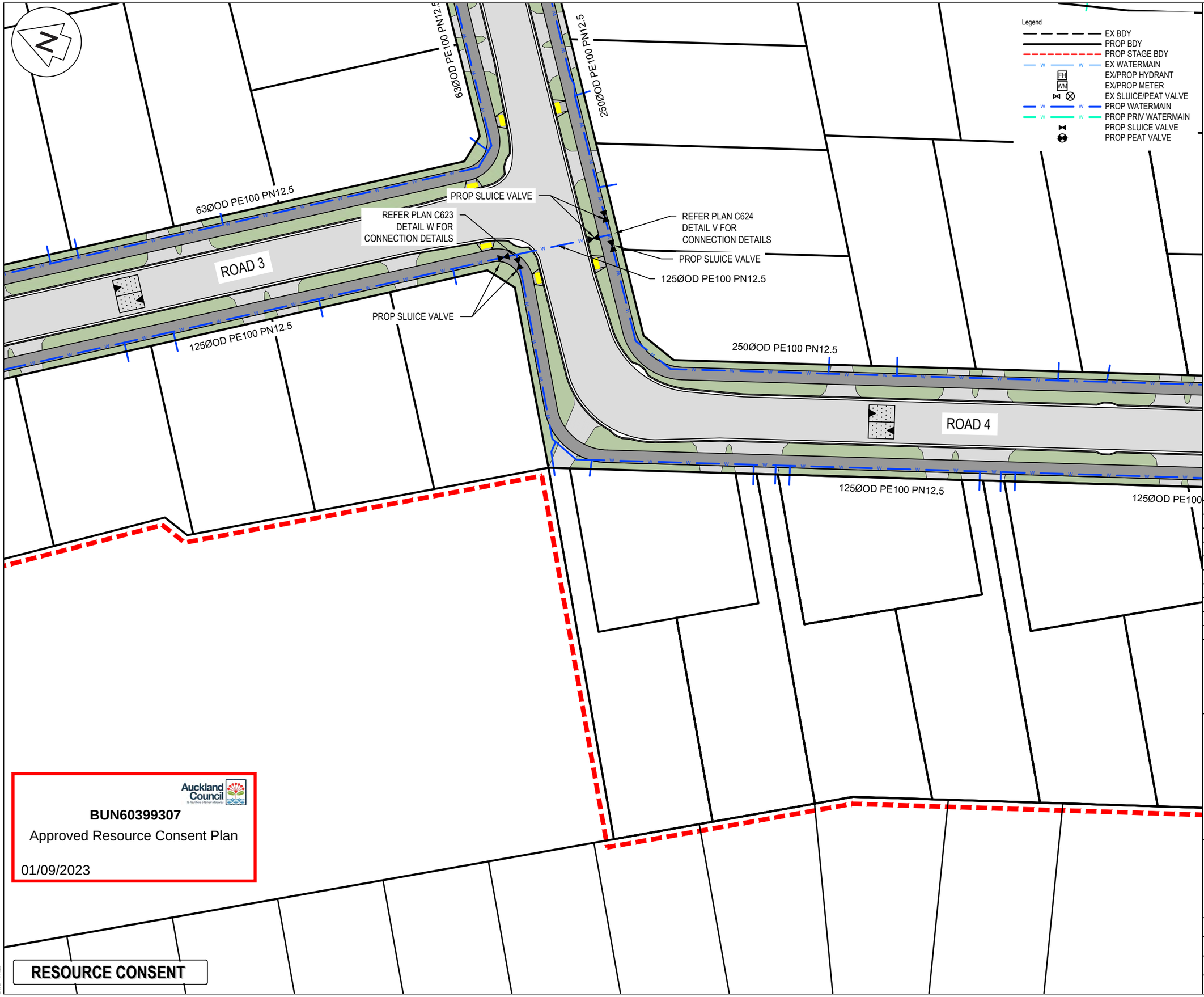
Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C605	Rev	F



Auckland Council

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RESOURCE CONSENT

DATE: 4/11/23

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Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C606	Rev	F

PROP SLUICE VALVE

250ØOD PE100 PN12.5

PROP SLUICE VALVE

REFER PLAN C622
DETAIL H FOR
CONNECTION DETAILS

PROP PEAT VALVE

REFER PLAN C622
DETAIL I FOR
CONNECTION DETAILS

PROP SLUICE VALVE

250ØOD PE100 PN12.5

250ØOD PE100 PN12.5

PROP SLUCIE VALVE

PROP SLUICE VALVE

REFER PLAN C622
DETAIL H FOR
CONNECTION DETAILS

PROP PEAT VALVE

250ØOD PE100 PN12.5

250ØOD PE100 PN12.5

REFER PLAN C622
DETAIL I FOR
CONNECTION DETAILS

PROP SLUICE VALVE

ROAD 6

ROAD 3

ROAD 7

BUN60399307

Approved Resource Consent Plan

01/09/2023

Legend

- EX BDY
- PROP BDY
- PROP STAGE BDY
- EX WATERMAIN
- EX/PROP HYDRANT
- EX/PROP METER
- EX SLUICE/PEAT VALVE
- PROP WATERMAIN
- PROP PRIV WATERMAIN
- PROP SLUICE VALVE
- PROP PEAT VALVE

PROP FIRE HYDRANT

125ØOD PE100 PN12.5

125ØOD PE100 PN12.5

125ØOD PE100 PN12.5

63ØOD PE100 PN12.5

125ØOD PE100 PN12.5

PROP PRIV WATERMAIN

PROP WATER METER

RESOURCE CONSENT

DATE: 4/11/23

Notes

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D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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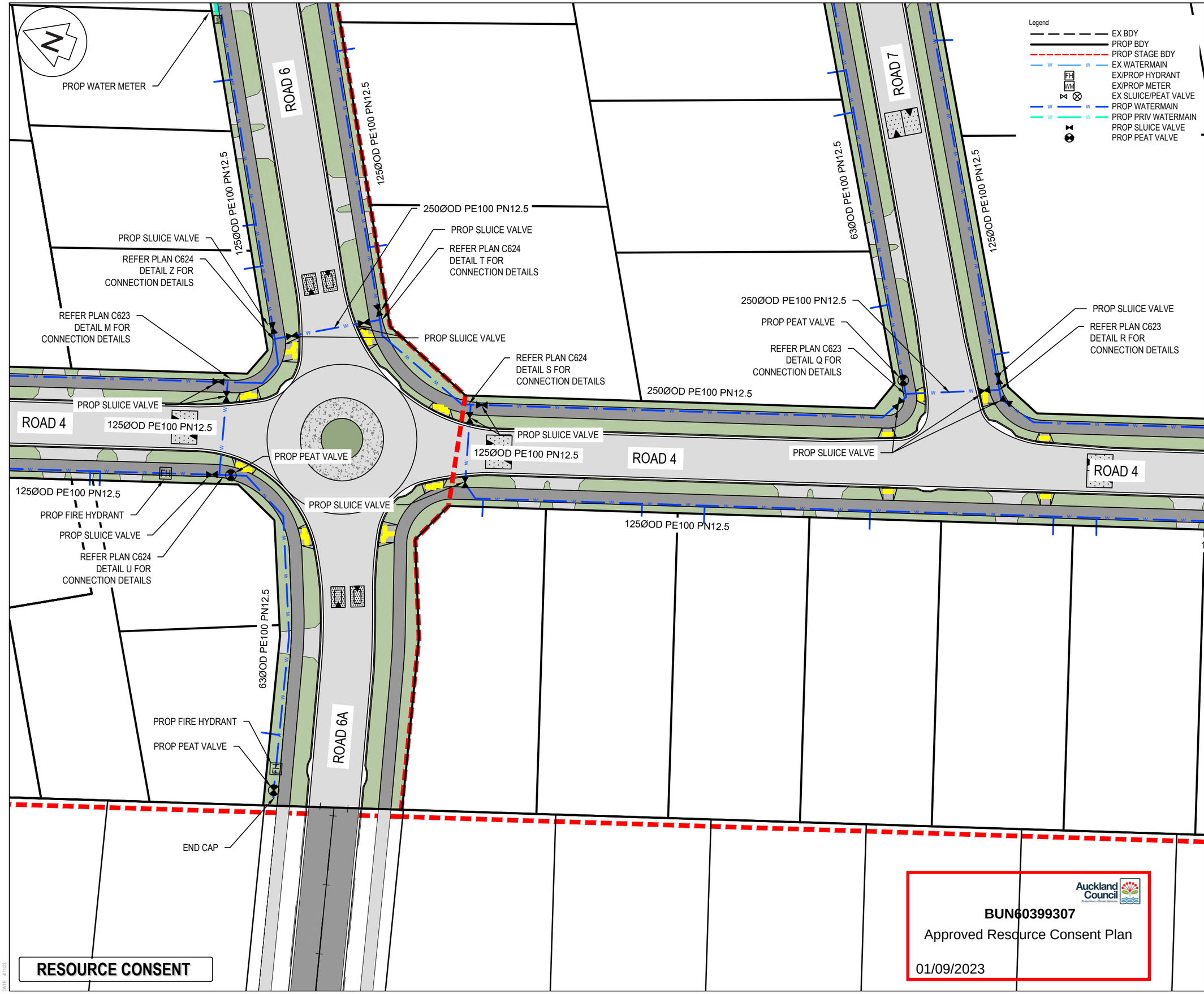
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006
Scale	1:500 @A3
Cad file	C600-WATER SUPPLY.DWG
Drawing no.	C607 Rev F



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Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006
Scale	1:500 @A3
Cad file	C600-WATER SUPPLY.DWG
Drawing no.	C608 Rev F

RESOURCE CONSENT

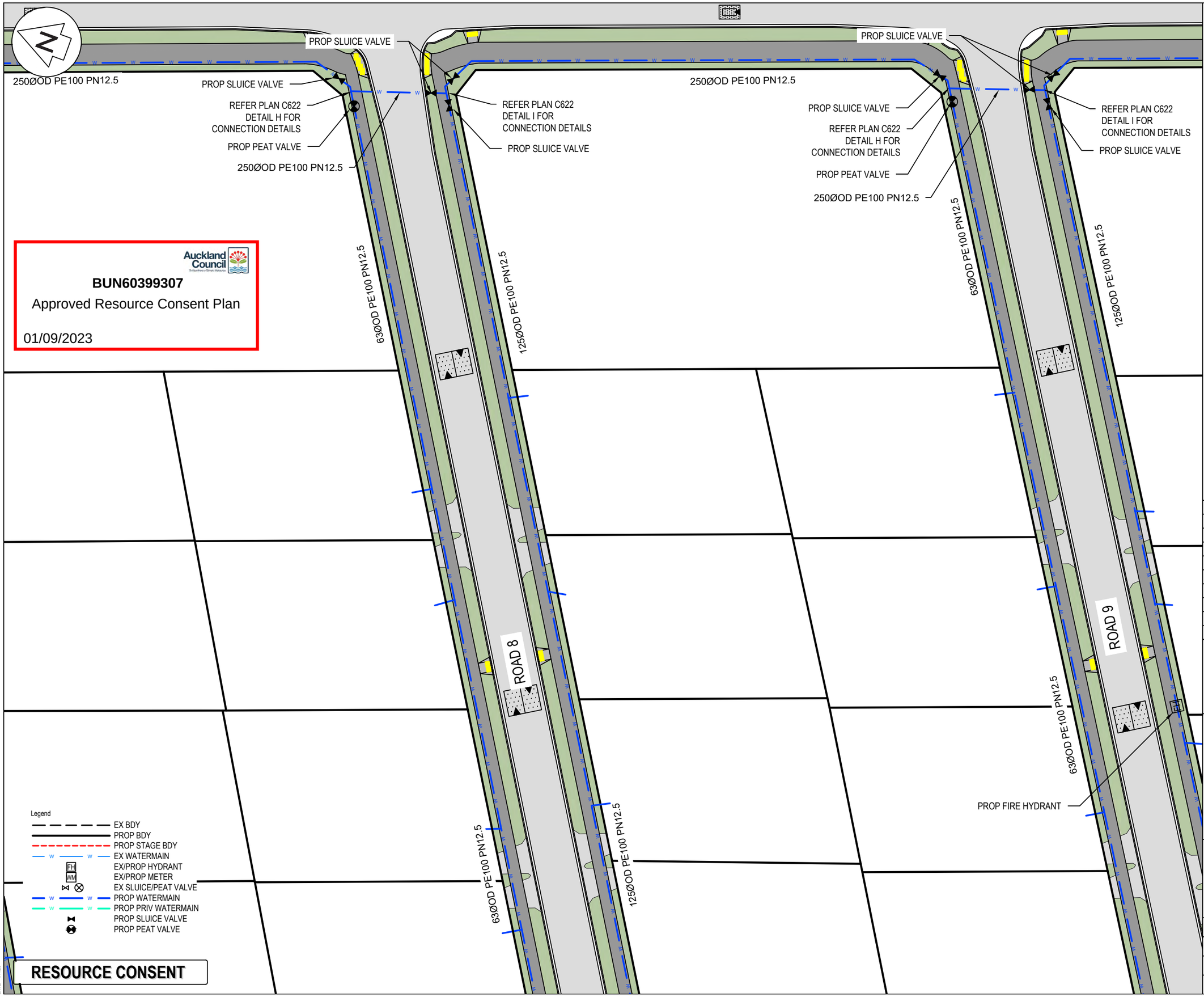
DATE: 4/11/23

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



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Title

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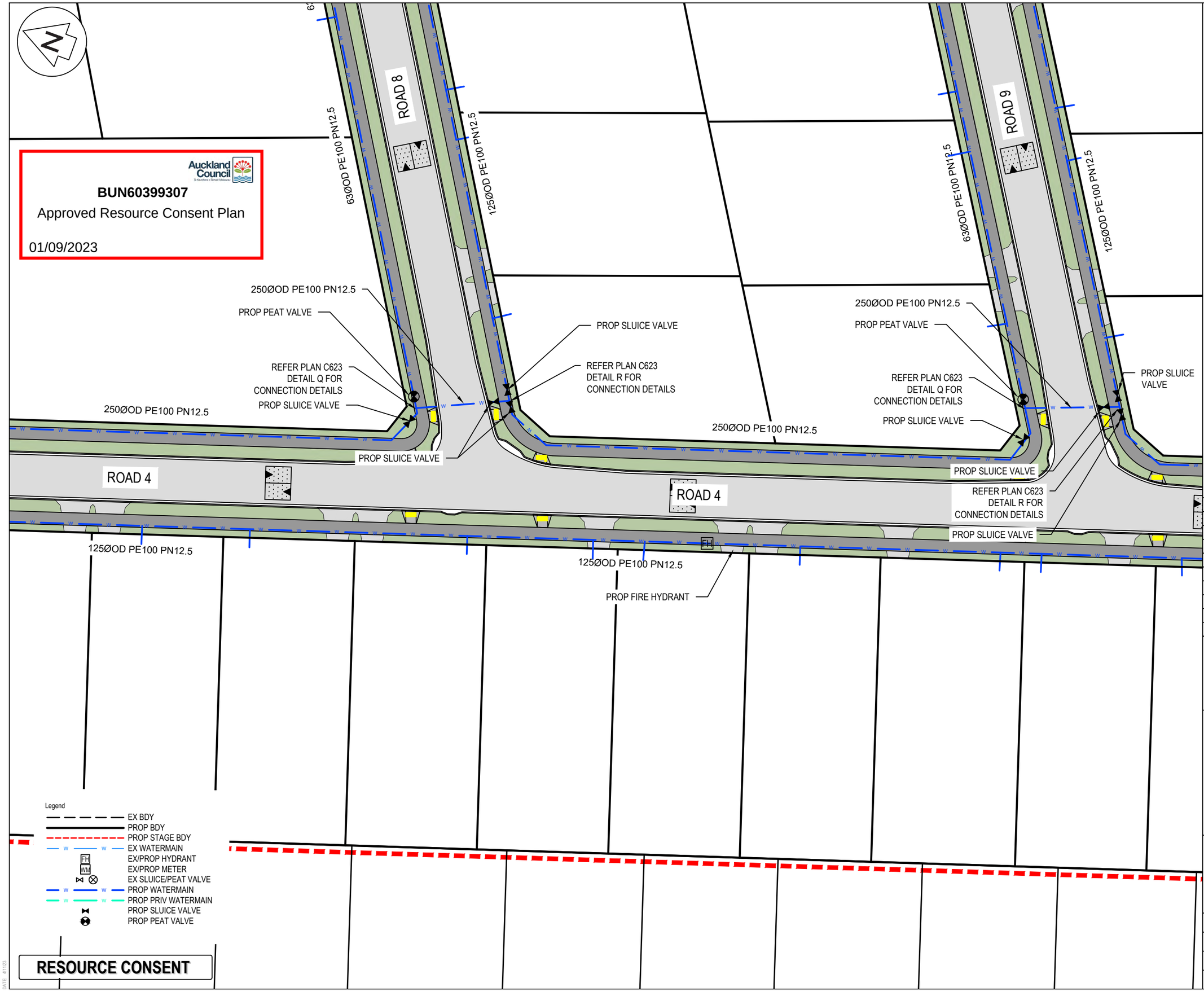
Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C609	Rev	F



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Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C610	Rev	F

PROP SLUICE VALVE

250ØOD PE100 PN12.5

PROP SLUICE VALVE

REFER PLAN C622
DETAIL H FOR
CONNECTION DETAILS

PROP PEAT VALVE

250ØOD PE100 PN12.5

125ØOD PE100 PN12.5

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REFER PLAN C622
DETAIL I FOR
CONNECTION DETAILS

PROP SLUICE VALVE

250ØOD PE100 PN12.5

REFER PLAN C622
DETAIL I FOR
CONNECTION DETAILS

PROP SLUICE VALVE

REFER PLAN C622
DETAIL H FOR
CONNECTION DETAILS

PROP PEAT VALVE

250ØOD PE100 PN12.5

63ØOD PE100 PN12.5

ROAD 11

ROAD 9

PROP FIRE HYDRANT

FH

125ØOD PE100 PN12.5

63ØOD PE100 PN12.5

ROAD 10

125ØOD PE100 PN12.5

63ØOD PE100 PN12.5

RESOURCE CONSENT

DATE 4/11/23

Legend

- EX BDY
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4. Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
5. All uPVC pipe shall be PN12 minimum pressure rated with spignot and socket rubber ring joints.
6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
7. All non-metalic pipes are to have tracer wire fitted to council standards.
8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
11. All valves to be marked with sawcut kerb and blue paint.
12. All flange joints to be protected with denso tape or similar approved by the engineer.
13. As per WSL COP, Clearance to be provided between proposed watermains and Lot Boundaries to enable Installation of Service Leads and Water Meters with Standard Clearances. The clearance to the boundary shall be measured face to face.
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Rev	Description	By	Date
F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006
Scale	1:500 @A3
Cad file	C600-WATER SUPPLY.DWG
Drawing no.	C611 Rev F

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

63ØOD PE100 PN12.5

ROAD 10

125ØOD PE100 PN12.5

63ØOD PE100 PN12.5

ROAD 11

250ØOD PE100 PN12.5

PROP SLUICE VALVE

PROP PEAT VALVE

REFER PLAN C623
DETAIL Q FOR
CONNECTION DETAILS

PROP SLUICE VALVE

250ØOD PE100 PN12.5

PROP SLUICE VALVE

PROP SLUICE VALVE

REFER PLAN C623
DETAIL R FOR
CONNECTION DETAILS

PROP SLUICE VALVE

250ØOD PE100 PN12.5

PROP PEAT VALVE

REFER PLAN C623
DETAIL Q FOR
CONNECTION DETAILS

PROP SLUICE VALVE

ROAD 4

ROAD 4

125ØOD PE100 PN12.5

125ØOD PE100 PN12.5

REFER PLAN C623
DETAIL P FOR
CONNECTION DETAILS

PROP SLUICE VALVE

Legend

- EX BDY
- PROP BDY
- PROP STAGE BDY
- EX WATERMAIN
- EX/PROP HYDRANT
- EX/PROP METER
- EX SLUICE/PEAT VALVE
- PROP WATERMAIN
- PROP PRIV WATERMAIN
- PROP SLUICE VALVE
- PROP PEAT VALVE

RESOURCE CONSENT

DATE: 4/11/23

Notes

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D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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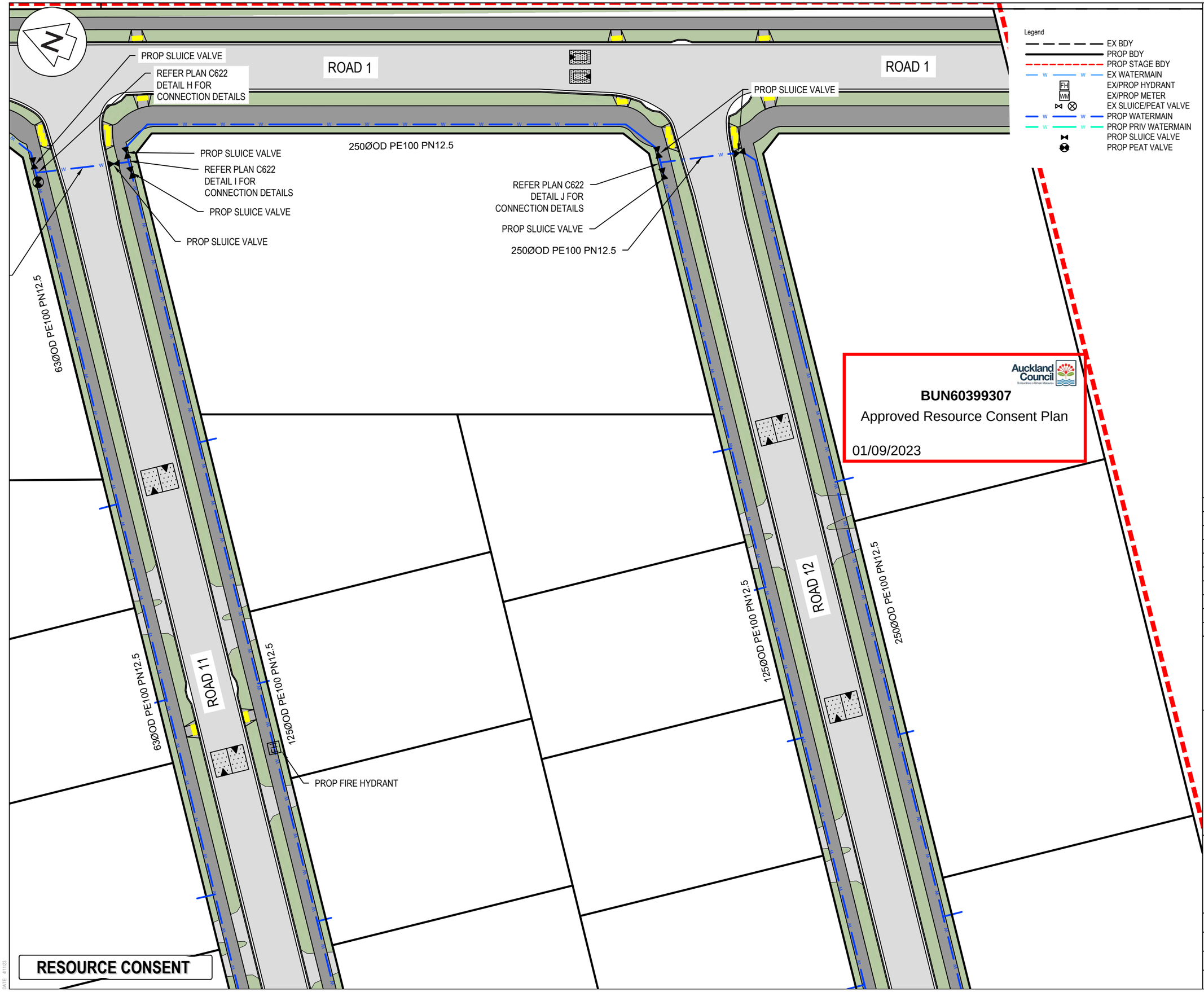
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006
Scale	1:500 @A3
Cad file	C600-WATER SUPPLY.DWG
Drawing no.	C612 Rev F



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	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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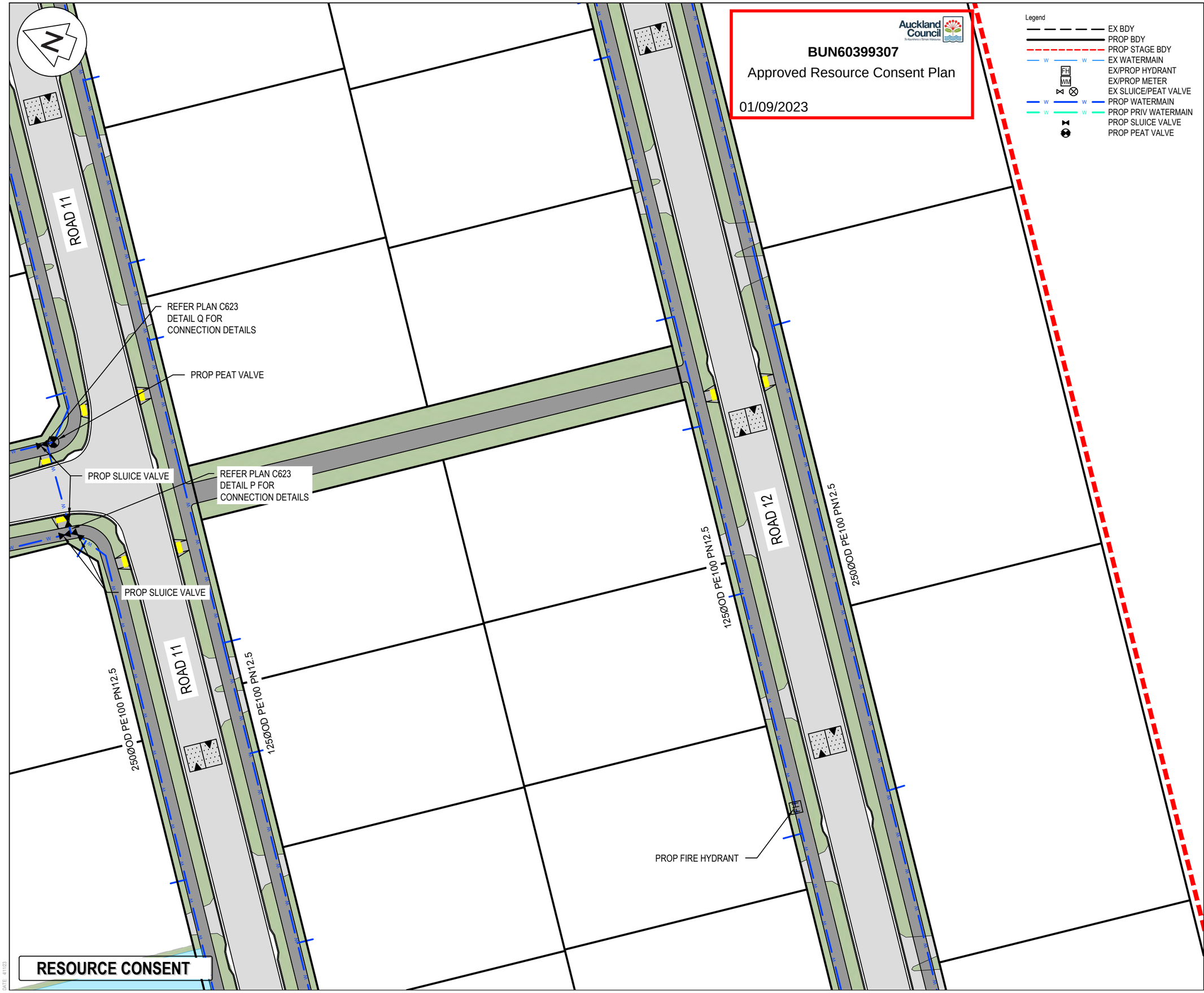
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C613	Rev	F



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Legend

- EX BDY
- PROP BDY
- PROP STAGE BDY
- EX WATERMAIN
- EX/PROP HYDRANT
- EX/PROP METER
- EX SLUICE/PEAT VALVE
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- PROP PRIV WATERMAIN
- PROP SLUICE VALVE
- PROP PEAT VALVE

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Survey	-	-
Design	JV	02/2022
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Checked	JP	02/2022

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Project

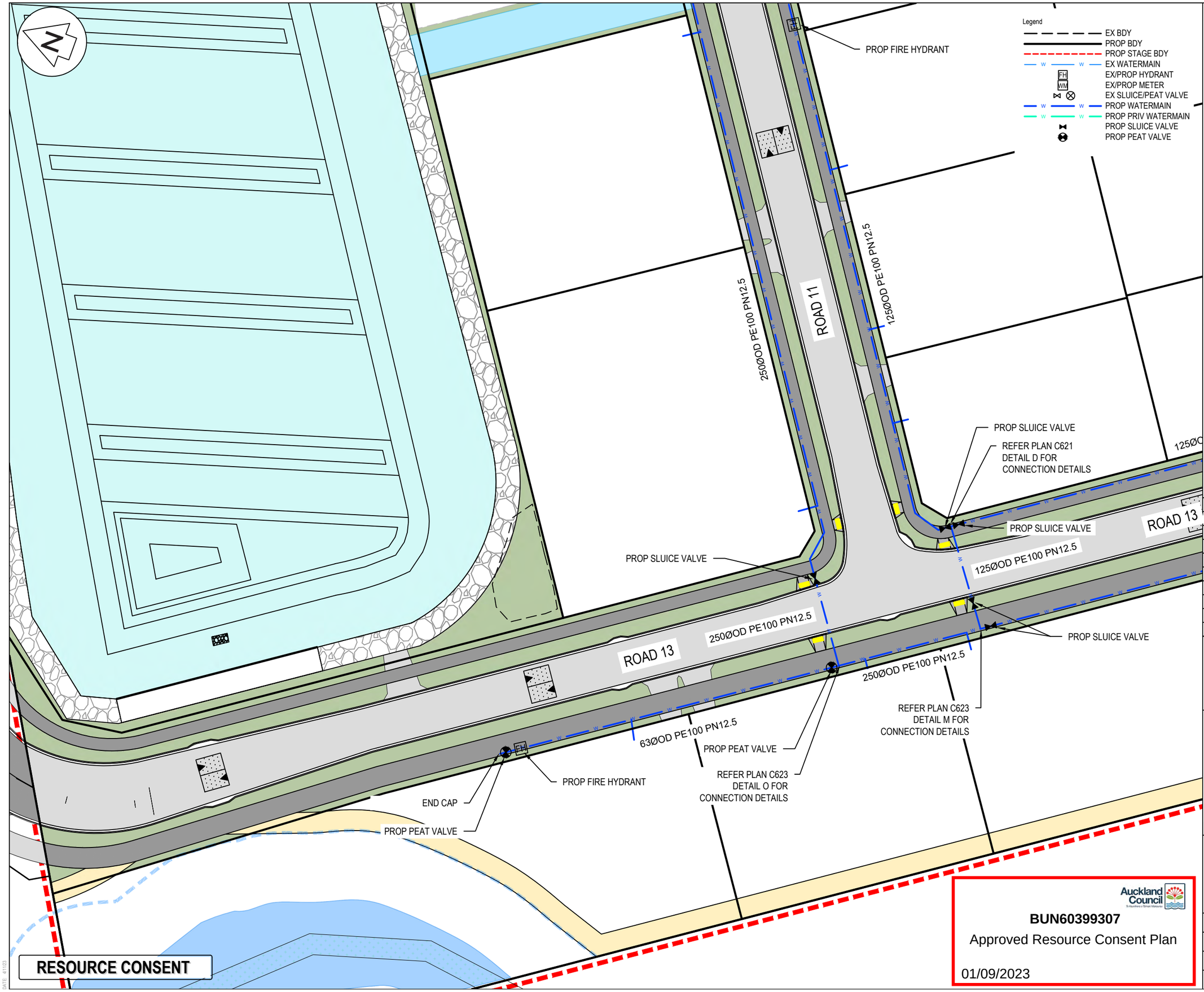
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C614	Rev	F

DATE 4/11/23



RESOURCE CONSENT

DATE 4/11/23

Notes

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Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

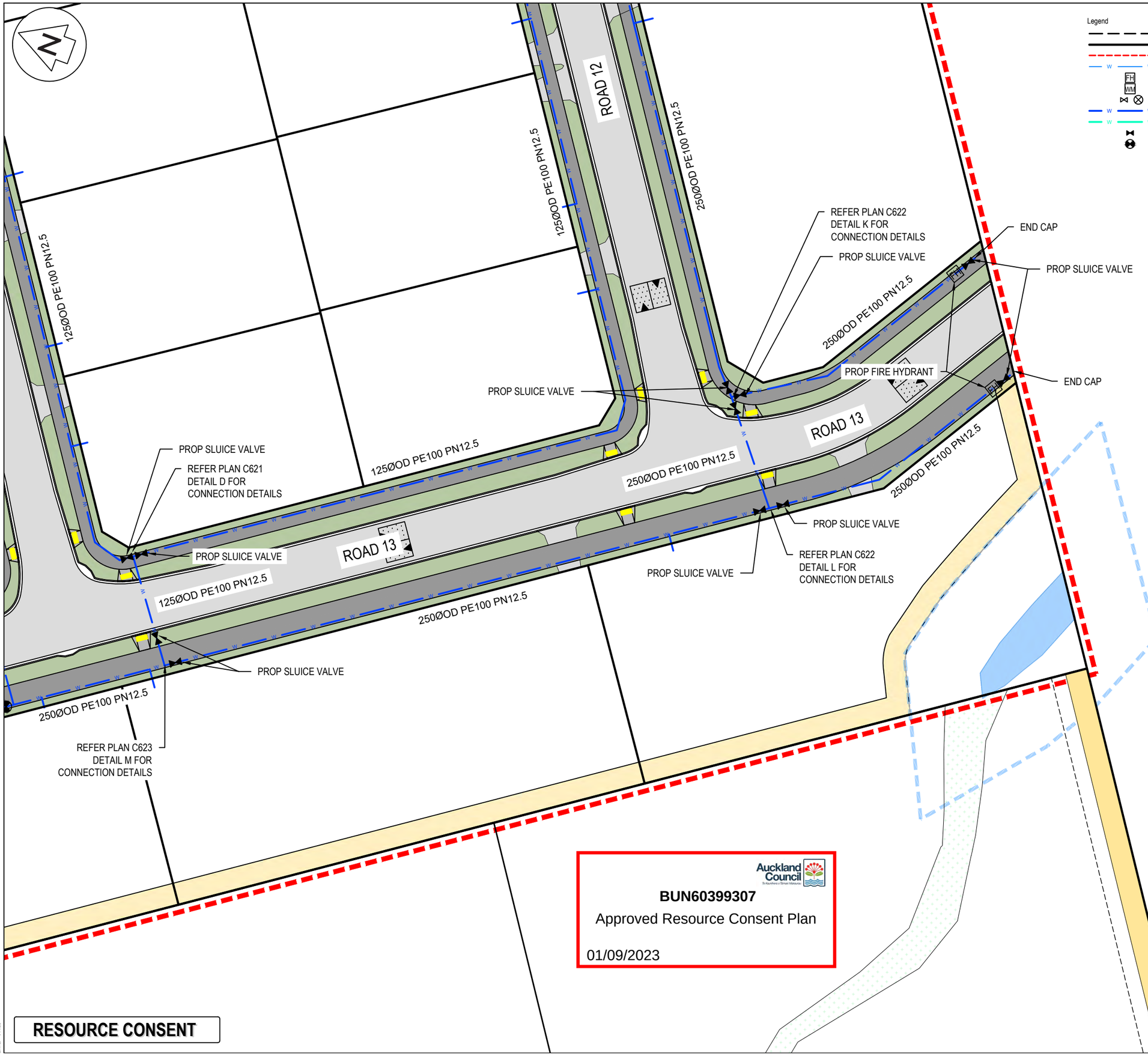
Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C615	Rev	F

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/11/23

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E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY PLAN

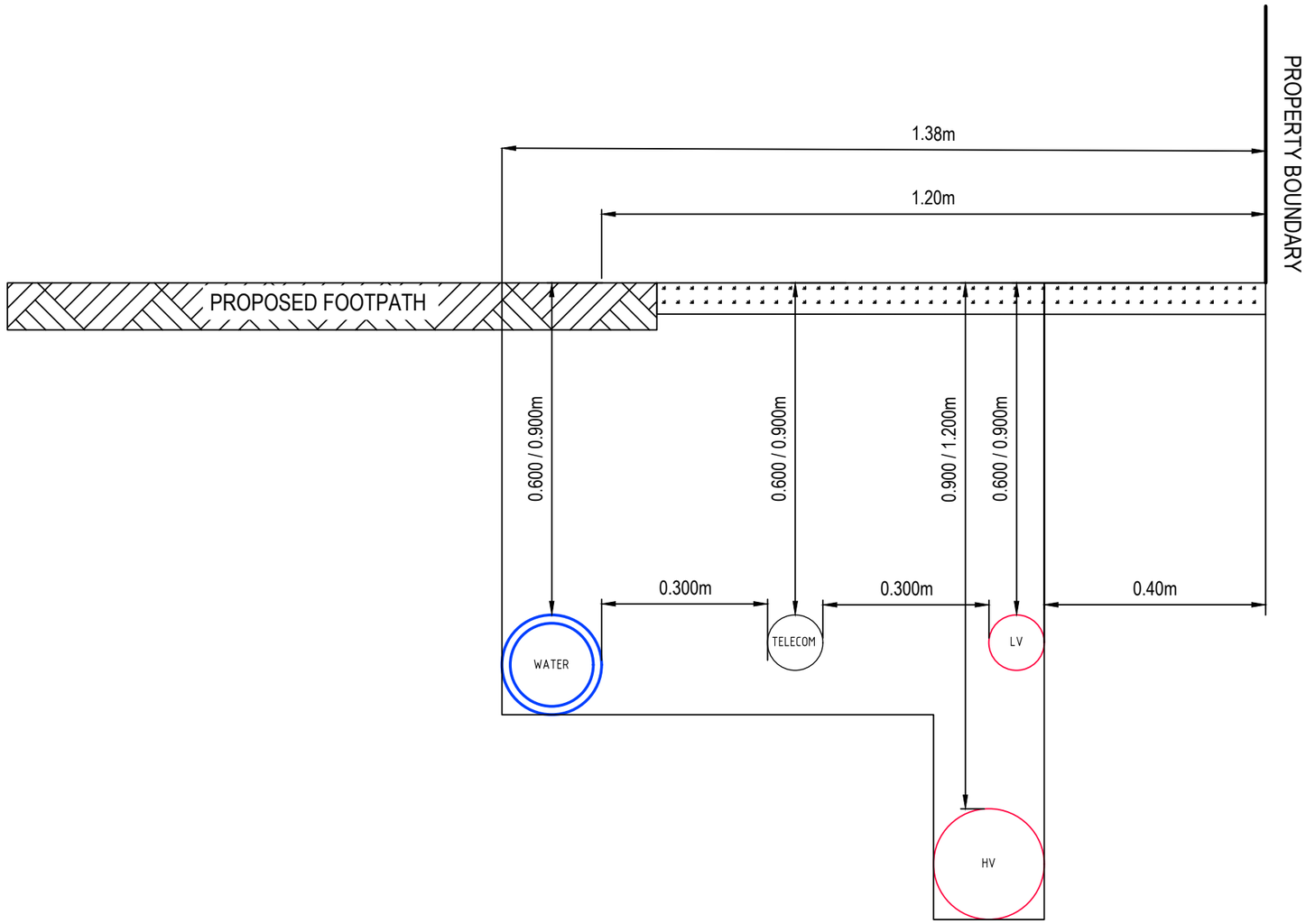
Project no.	194006		
Scale	1:500 @A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C616	Rev	F

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



ALL UTILITIES TO HAVE 600mm COVER IN BERMS AND 900mm COVER IN ROAD CARRIAGEWAYS

PROPOSED SERVICE TRENCH

SCALE: 1:10 @ A3

RESOURCE CONSENT

DATE: 4/1/23

Notes

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	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED WATER SUPPLY SERVICES DETAIL

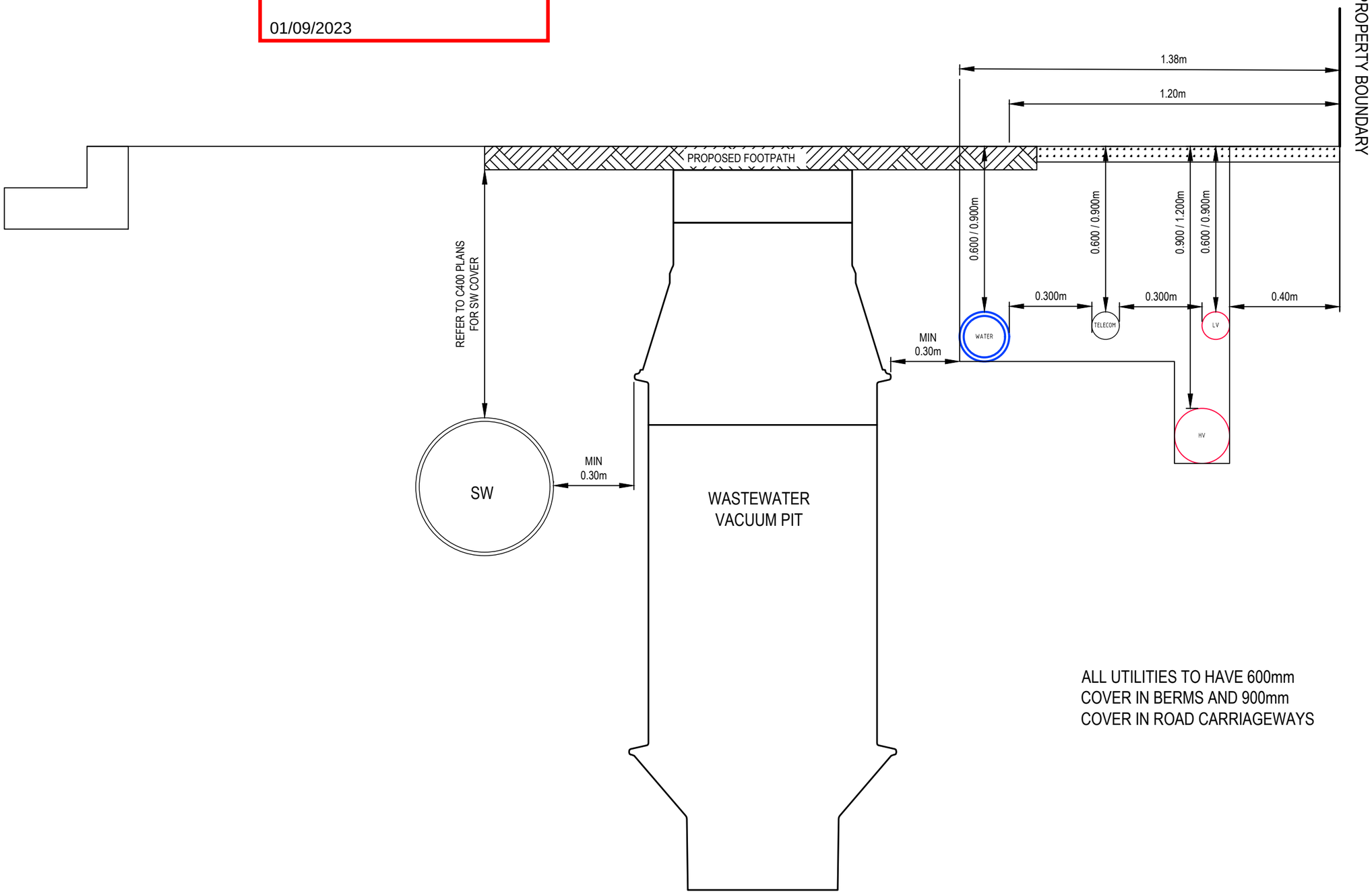
Project no.	194006		
Scale	1:10 @ A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C620A	Rev	F

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



ALL UTILITIES TO HAVE 600mm COVER IN BERMS AND 900mm COVER IN ROAD CARRIAGEWAYS

PROPOSED SERVICE TRENCH WITH WASTEWATER VACUUM PIT

SCALE: 1:15 @ A3

RESOURCE CONSENT

DATE: 4/1/23

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D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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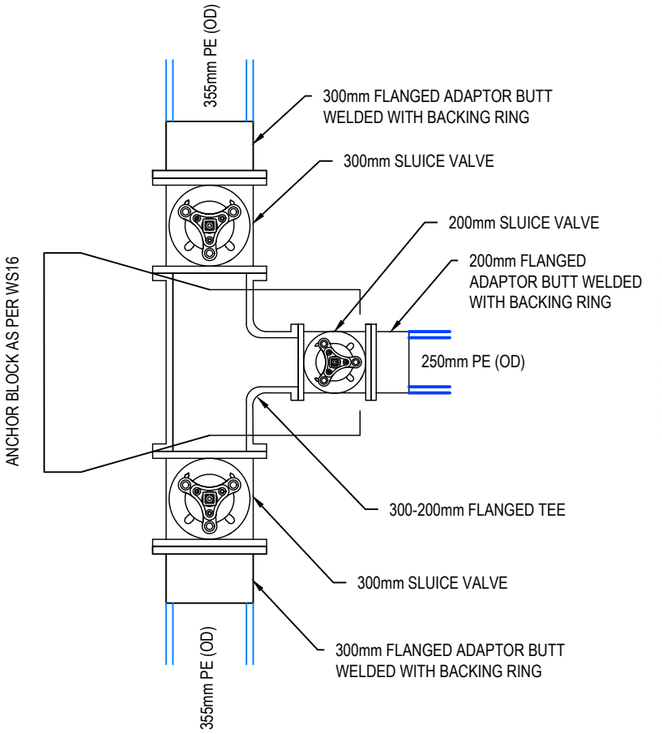
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

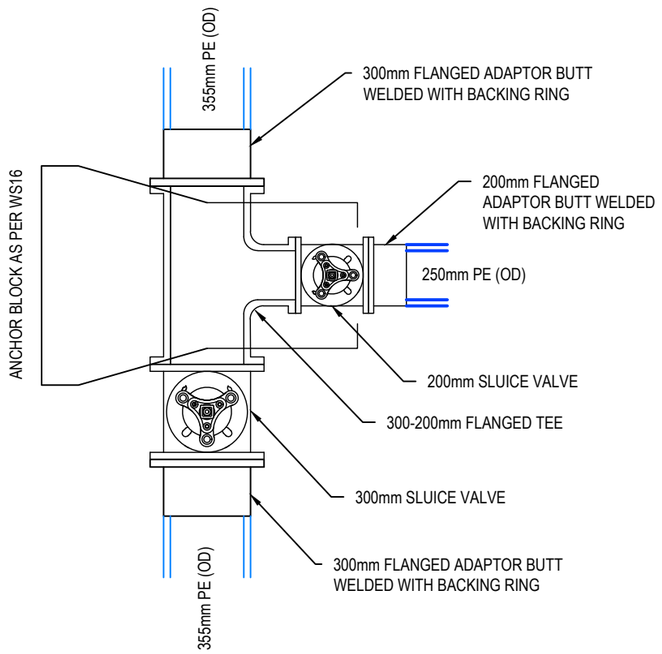
PROPOSED WATER SUPPLY SERVICES DETAIL

Project no.	194006		
Scale	1:15 @ A3		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C620B	Rev	F



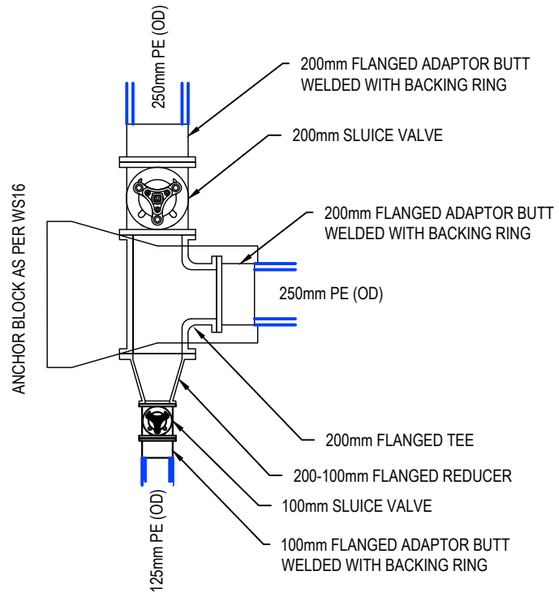
CONNECTION DETAIL A

SCALE: 1:25 @ A3



CONNECTION DETAIL B

SCALE: 1:25 @ A3



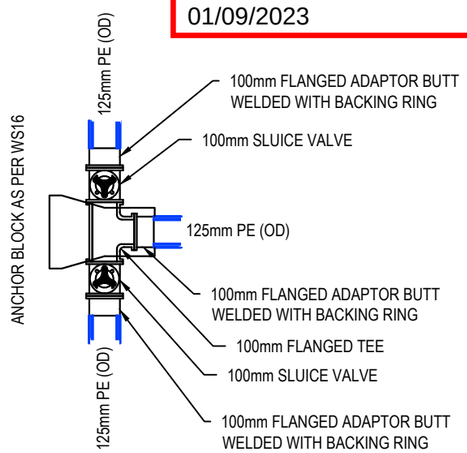
CONNECTION DETAIL C

SCALE: 1:25 @ A3

BUN60399307

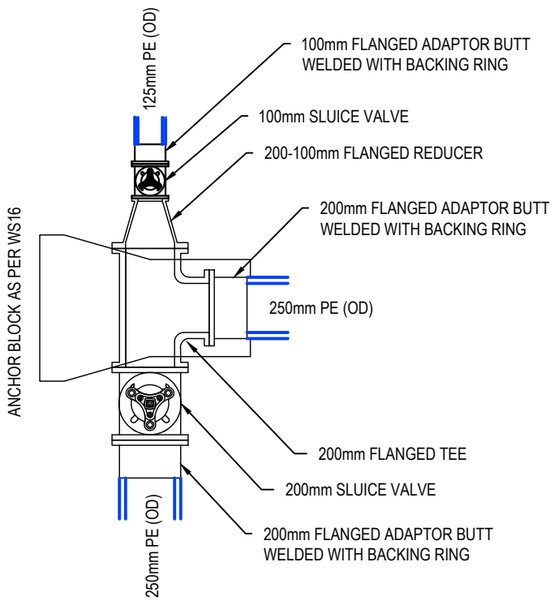
Approved Resource Consent Plan

01/09/2023



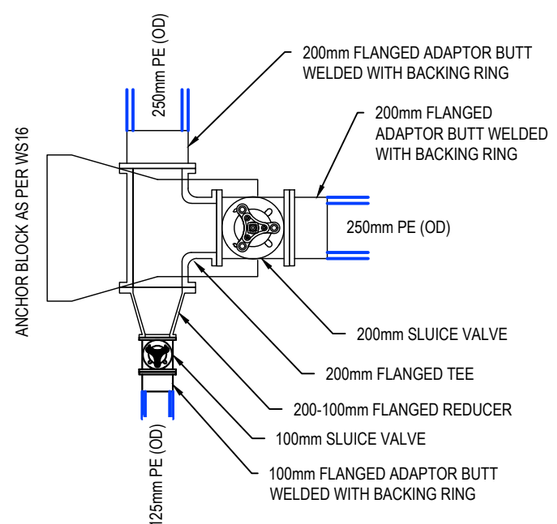
CONNECTION DETAIL D

SCALE: 1:25 @ A3



CONNECTION DETAIL E

SCALE: 1:25 @ A3



CONNECTION DETAIL F

SCALE: 1:25 @ A3

RESOURCE CONSENT

DATE 4/1/23

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8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
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12. All flange joints to be protected with denso tape or similar approved by the engineer.
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Rev	Description	By	Date
F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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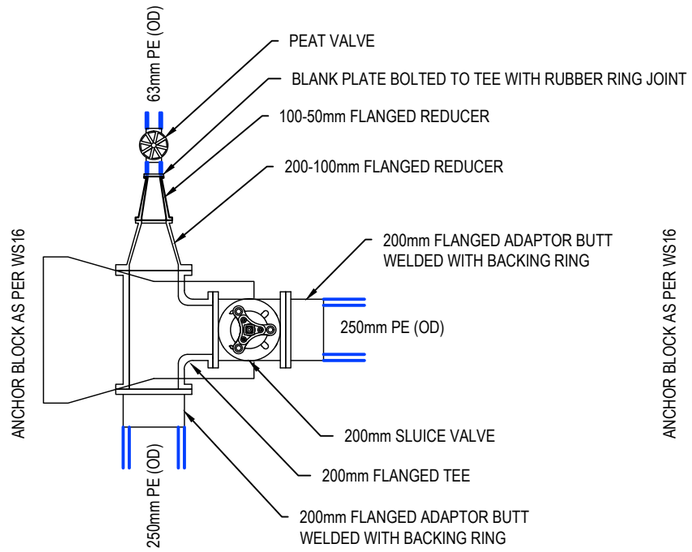
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

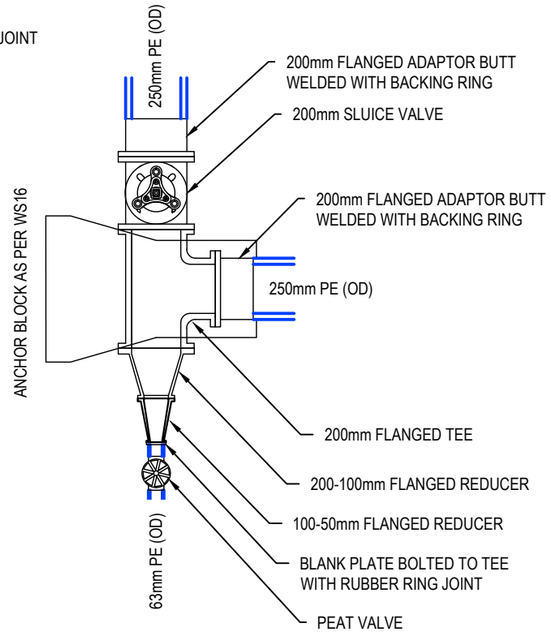
Title

PROPOSED WATER SUPPLY DETAIL

Project no.	194006		
Scale	-		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C621	Rev	F



CONNECTION DETAIL G
SCALE: 1:25 @ A3



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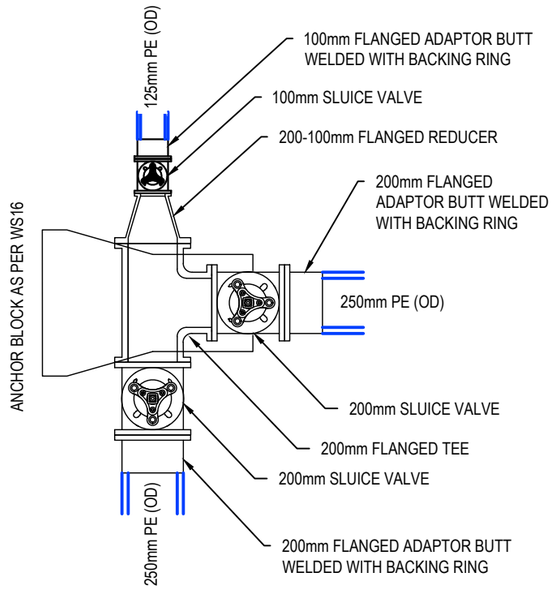

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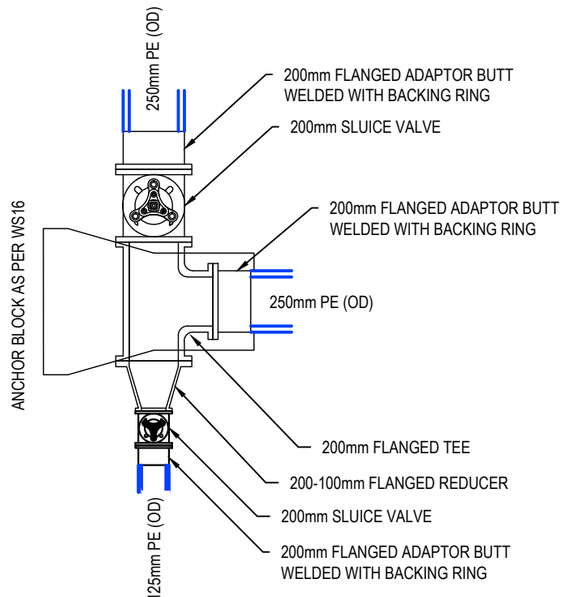

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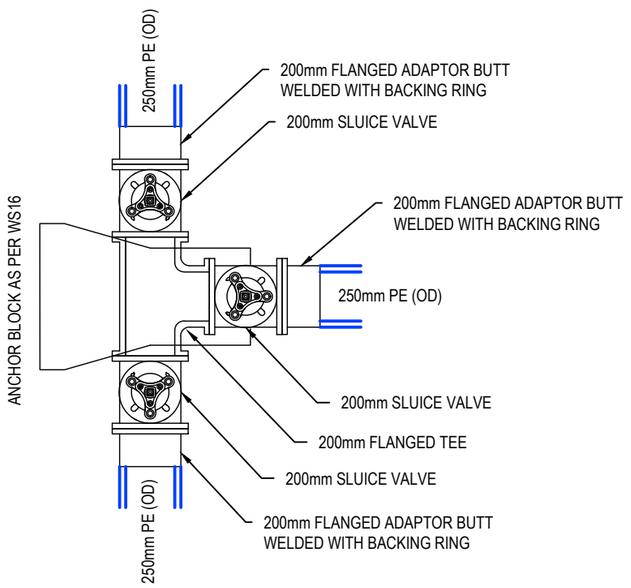

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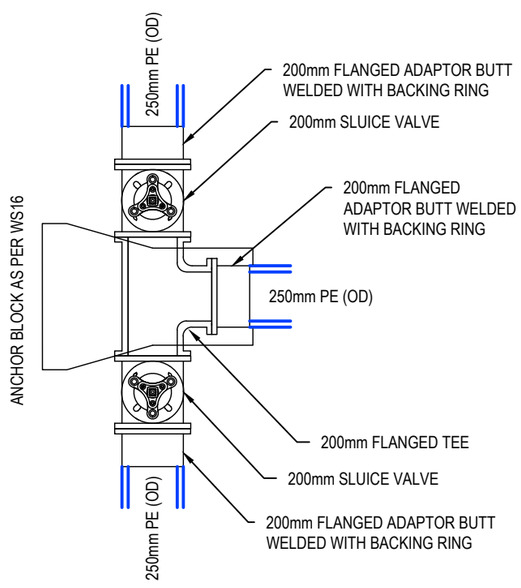

CONNECTION DETAIL L
SCALE: 1:25 @ A3

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

RESOURCE CONSENT

DATE 4/11/23

Notes

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F	S92 RFI	ML	04/2023
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Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WATER SUPPLY DETAIL

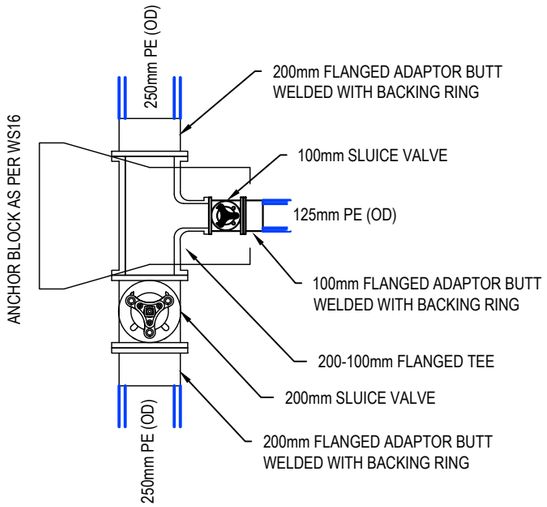
Project no.	194006		
Scale	-		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C622	Rev	F

Auckland Council

BUN60399307

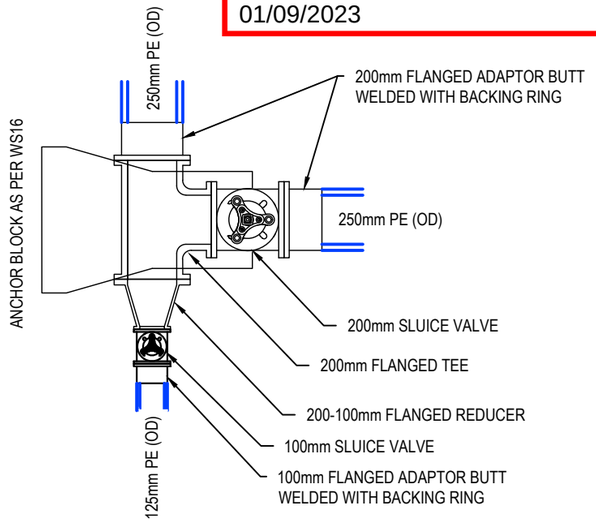
Approved Resource Consent Plan

01/09/2023



CONNECTION DETAIL M

SCALE: 1:25 @ A3



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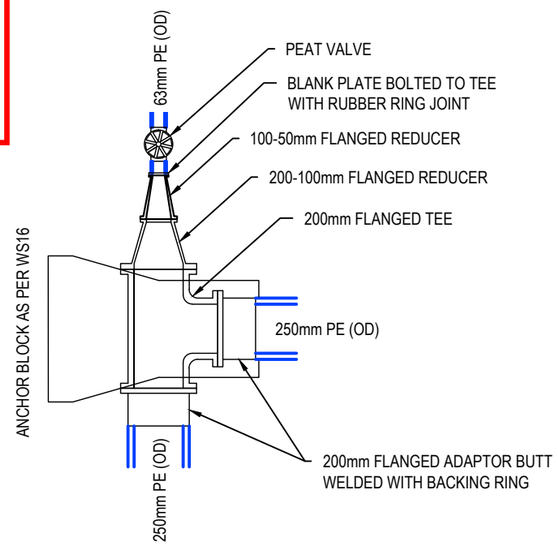
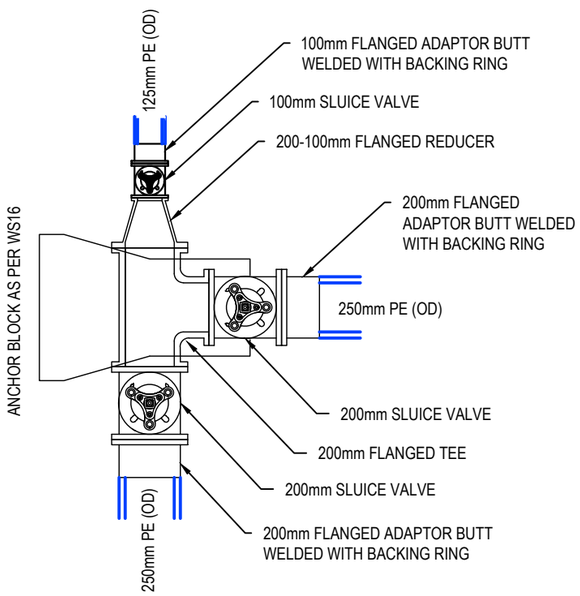


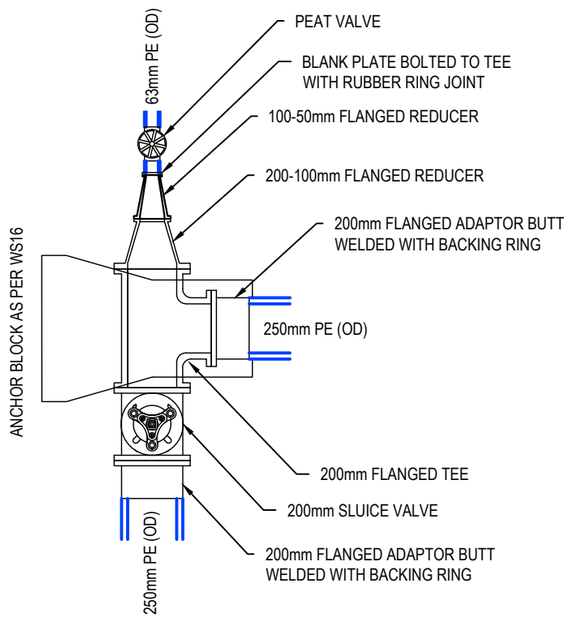
CONNECTION DETAIL O

SCALE: 1:25 @ A3



CONNECTION DETAIL P

SCALE: 1:25 @ A3



CONNECTION DETAIL Q

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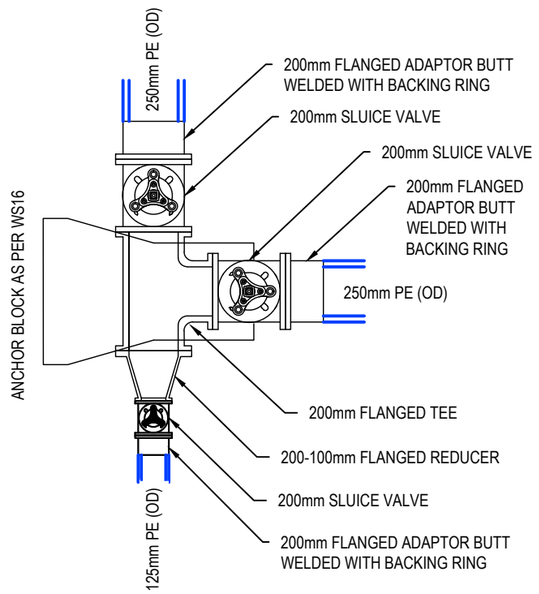

CONNECTION DETAIL R

SCALE: 1:25 @ A3

RESOURCE CONSENT

DATE: 4/1/23

Notes

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Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
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Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

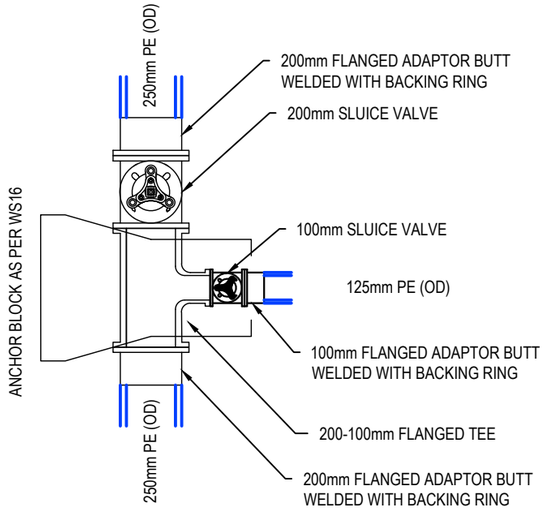
PROPOSED WATER SUPPLY DETAIL

Project no.	194006		
Scale	-		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C623	Rev	F

BUN60399307

Approved Resource Consent Plan

01/09/2023



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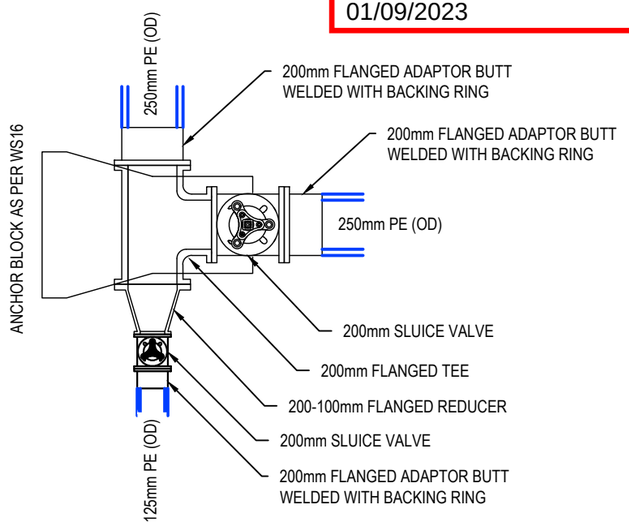

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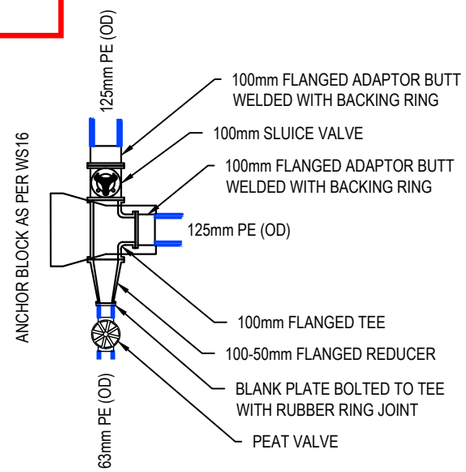
SCALE: 1:25 @ A3



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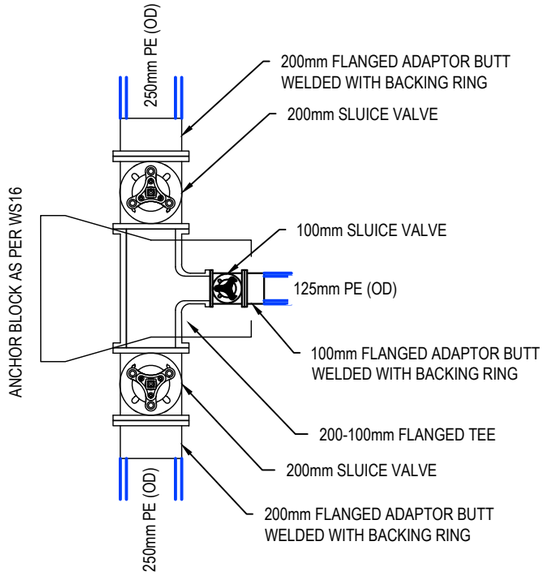

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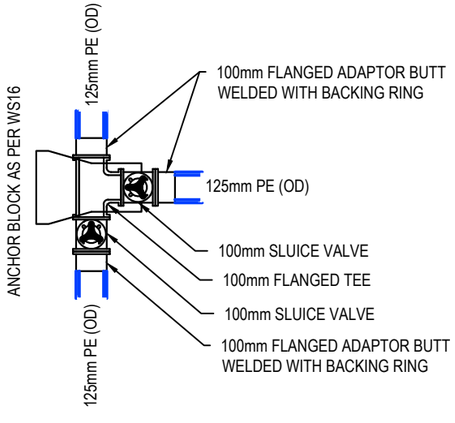

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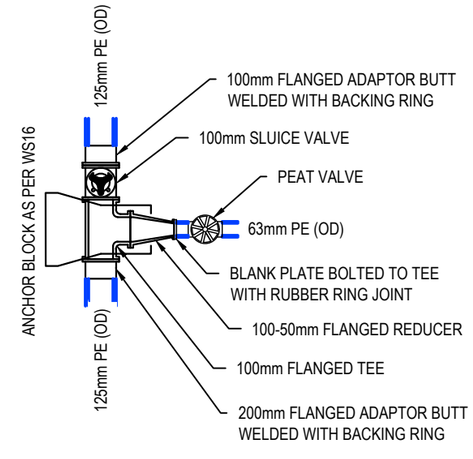

CONNECTION DETAIL X

SCALE: 1:25 @ A3

RESOURCE CONSENT

DATE: 4/11/23

Notes

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F	S92 RFI	ML	04/2023
E	EPA RFI	ML	10/2022
D	EPA	ML	08/2022
C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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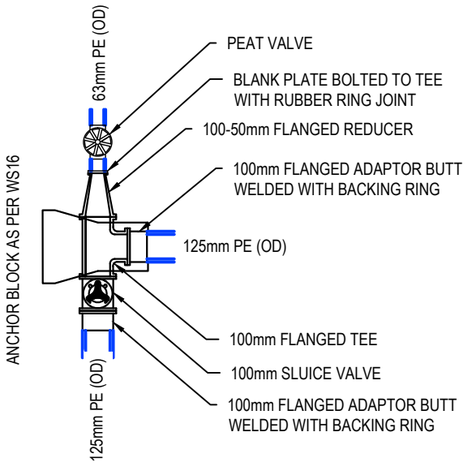
Project

62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

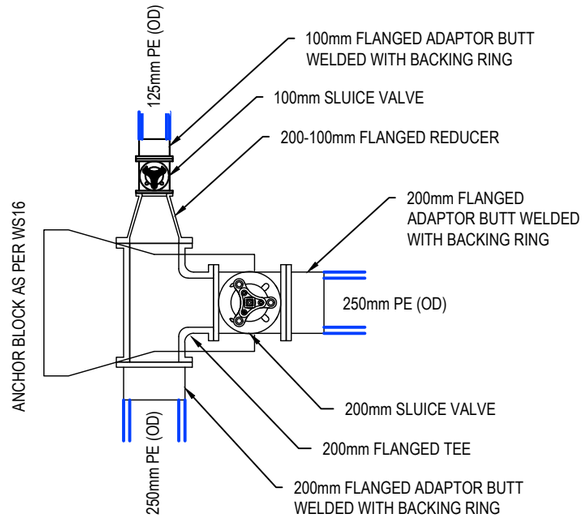
Title

PROPOSED WATER SUPPLY DETAIL

Project no.	194006		
Scale	-		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C624	Rev	F



CONNECTION DETAIL Y
SCALE: 1:25 @ A3



CONNECTION DETAIL Z
SCALE: 1:25 @ A3

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

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C	S92 RFI	ML	07/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	02/2022
Checked	JP	02/2022

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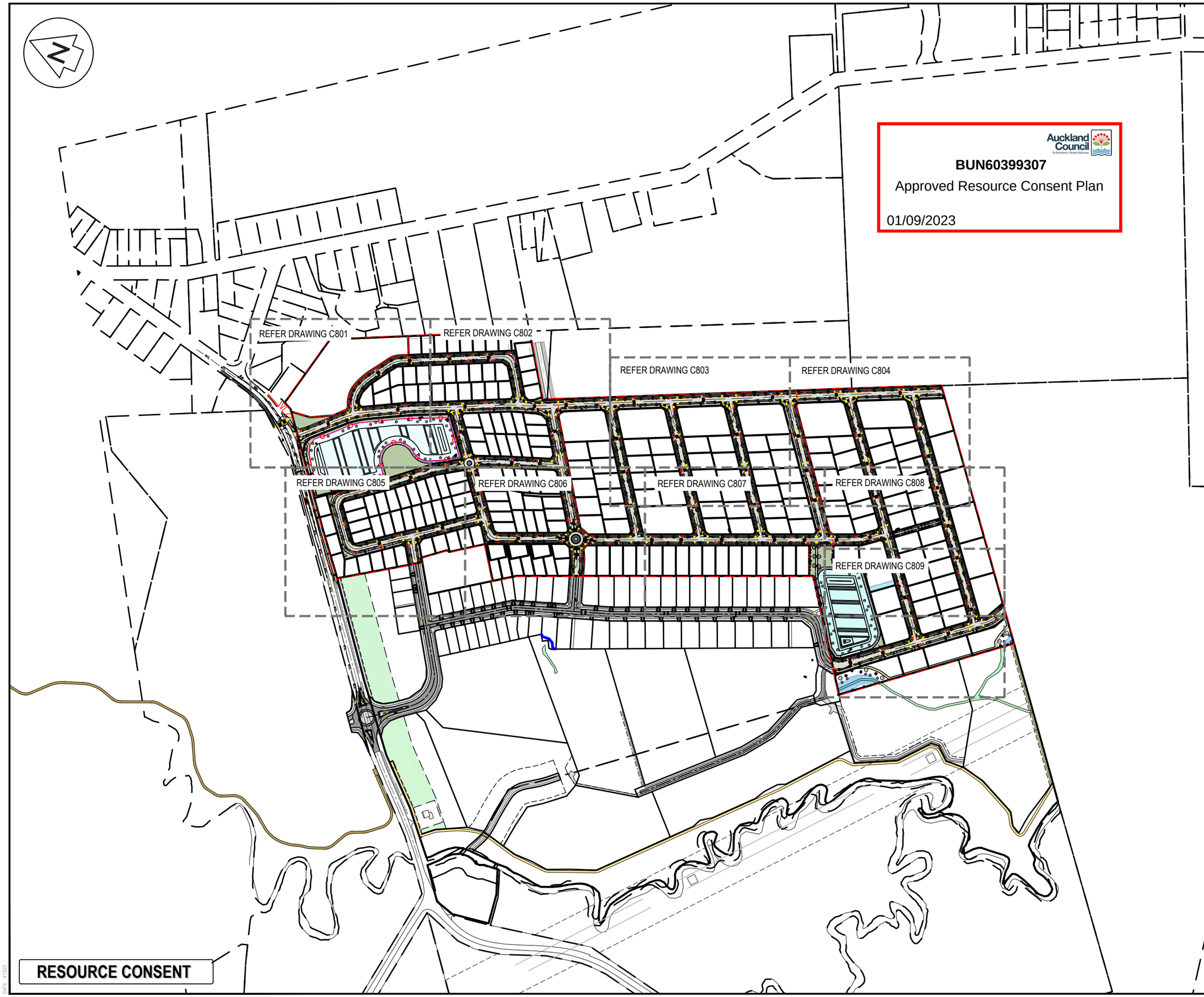
Project
62, 78 & 80 PAPAKURA - CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title
PROPOSED WATER SUPPLY DETAIL

Project no.	194006		
Scale	-		
Cad file	C600-WATER SUPPLY.DWG		
Drawing no.	C625	Rev	F

RESOURCE CONSENT

DATE: 4/11/23



Auckland Council

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01/09/2023

Notes

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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

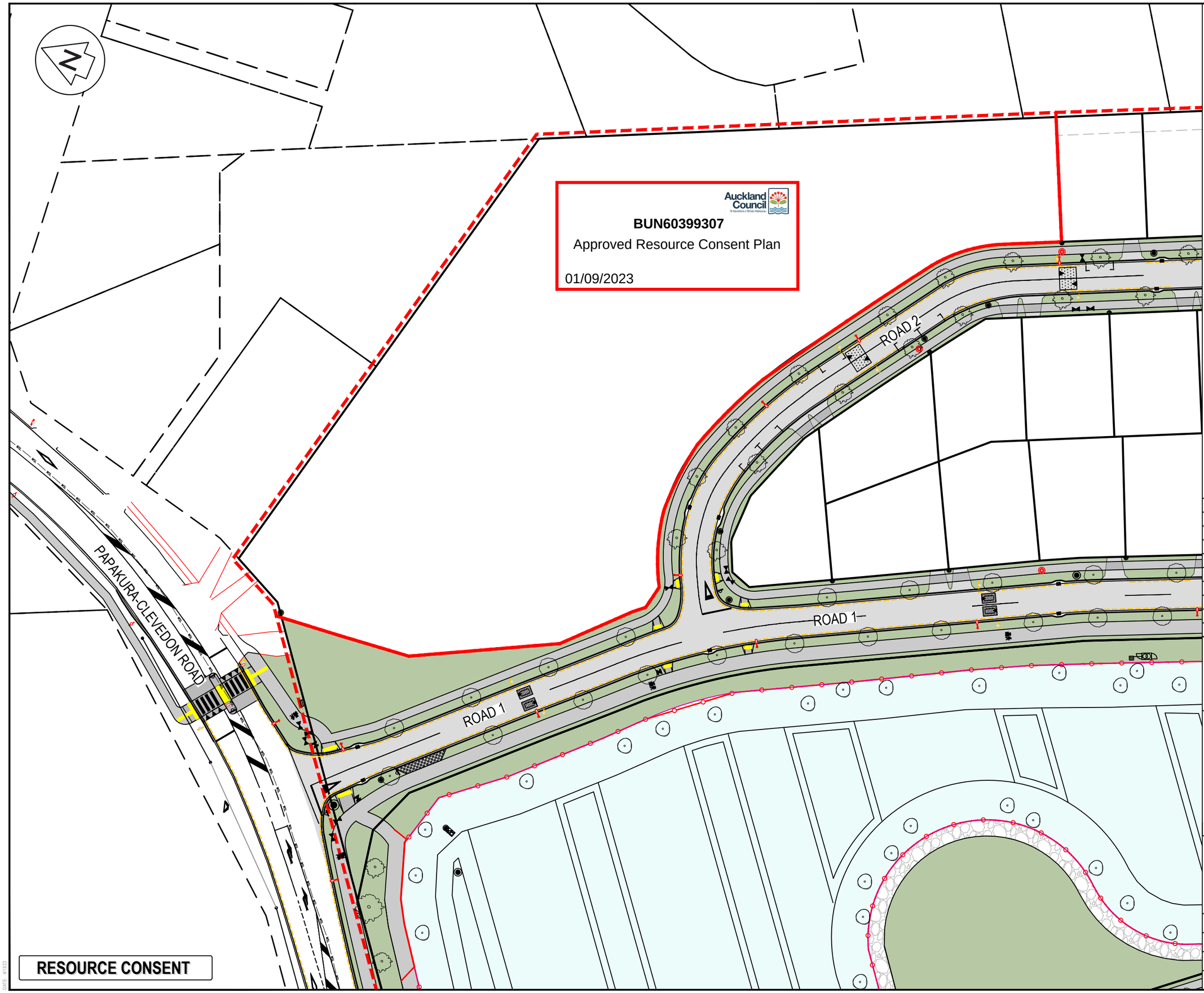
Title

PROPOSED COORDINATION OVERVIEW PLAN

Project no.	194006		
Scale	1:5000@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C800	Rev	C

RESOURCE CONSENT

DATE: 4/10/23



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- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
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B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

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Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C801	Rev	C

DATE 4/10/23

ROAD 2

ROAD 1

ROAD 1

ROAD 4

ROAD 3

ROAD 6

RESOURCE CONSENT

DATE: 4/10/23

Auckland Council

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- EX BDY
- PR BDY
- PR STAGING BDY
- FH EX/PR HYDRANT
- WM EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

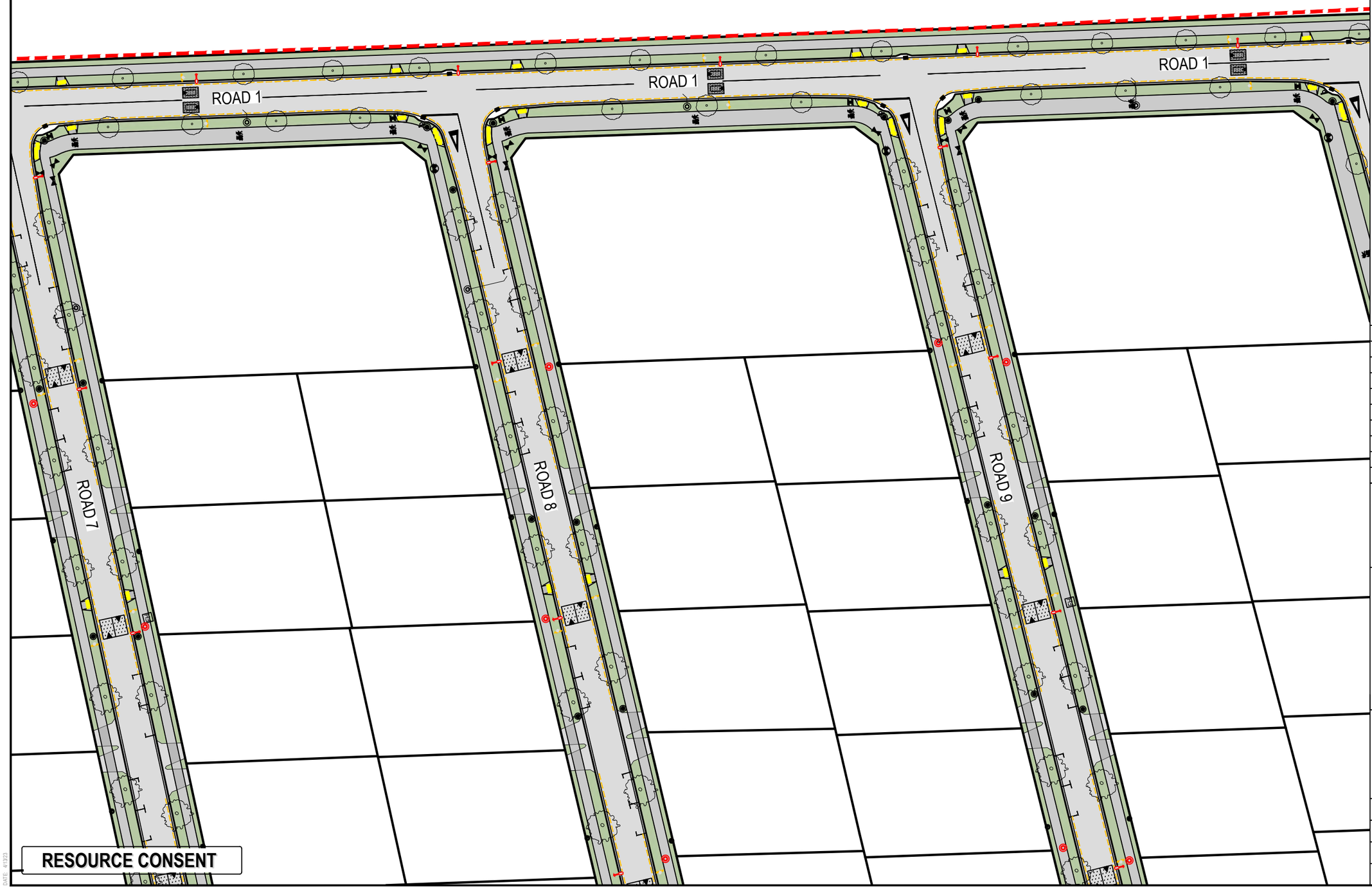
Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C802	Rev	C

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023



RESOURCE CONSENT

DATE: 4/10/23

Notes

1. All works to be in accordance with Auckland council standards.
2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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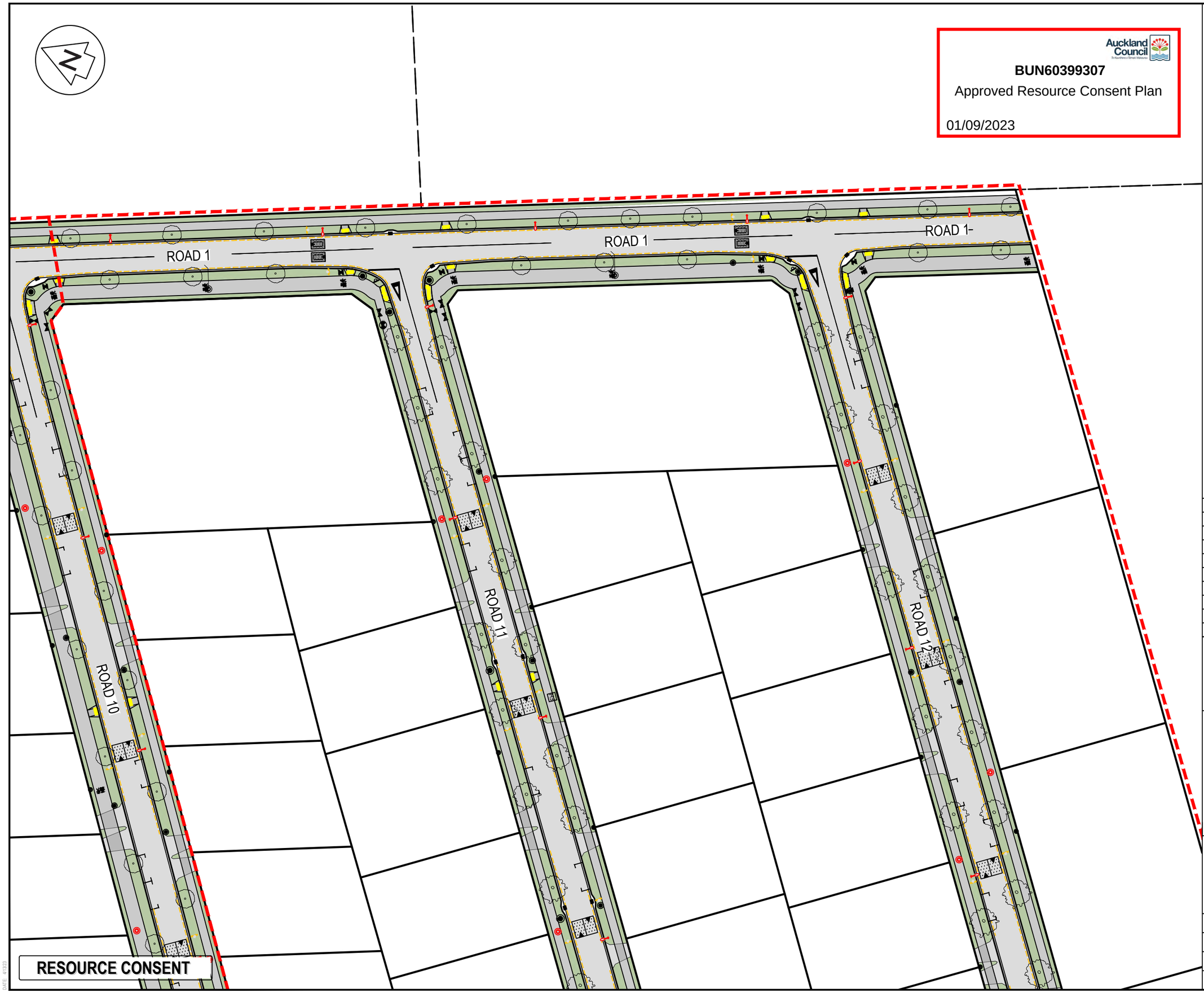
Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C803	Rev	C



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Notes

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2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- FH EX/PR HYDRANT
- WM EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C804	Rev	C

DATE: 4/10/23

ROAD 3

ROAD 3

ROAD 3

ROAD 3

ROAD 5

PAPAKURA-CLEVEDON ROAD

TIE IN TO NEIGHBOR'S ROAD

144 PAPAKURA-CLEVEDON ROAD
LOT 2 DP 142381, LOT 3 DP 142381,
LOT 2 DP 186158

RESOURCE CONSENT

DATE 4/10/23

Notes

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2. Co-ordinates in terms of NZ Geodetic Datum Mt Eden 2000. Levels in terms of the Auckland Vertical Datum 1946.
3. It is the contractors responsibility to locate all services that may be affected by his operations.

Auckland Council

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01/09/2023

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- FH EX/PR HYDRANT
- WM EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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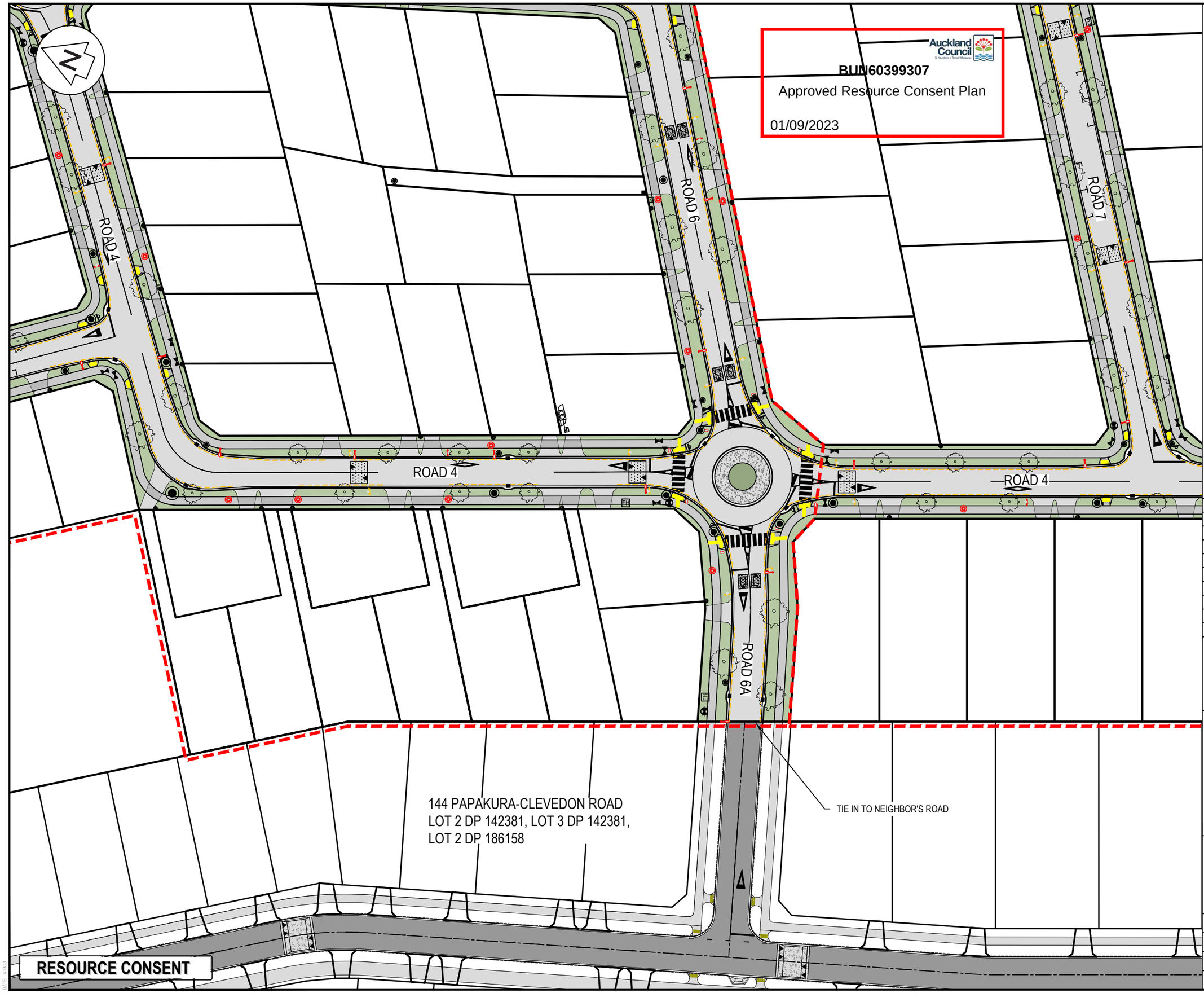
Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C805	Rev	C



Notes

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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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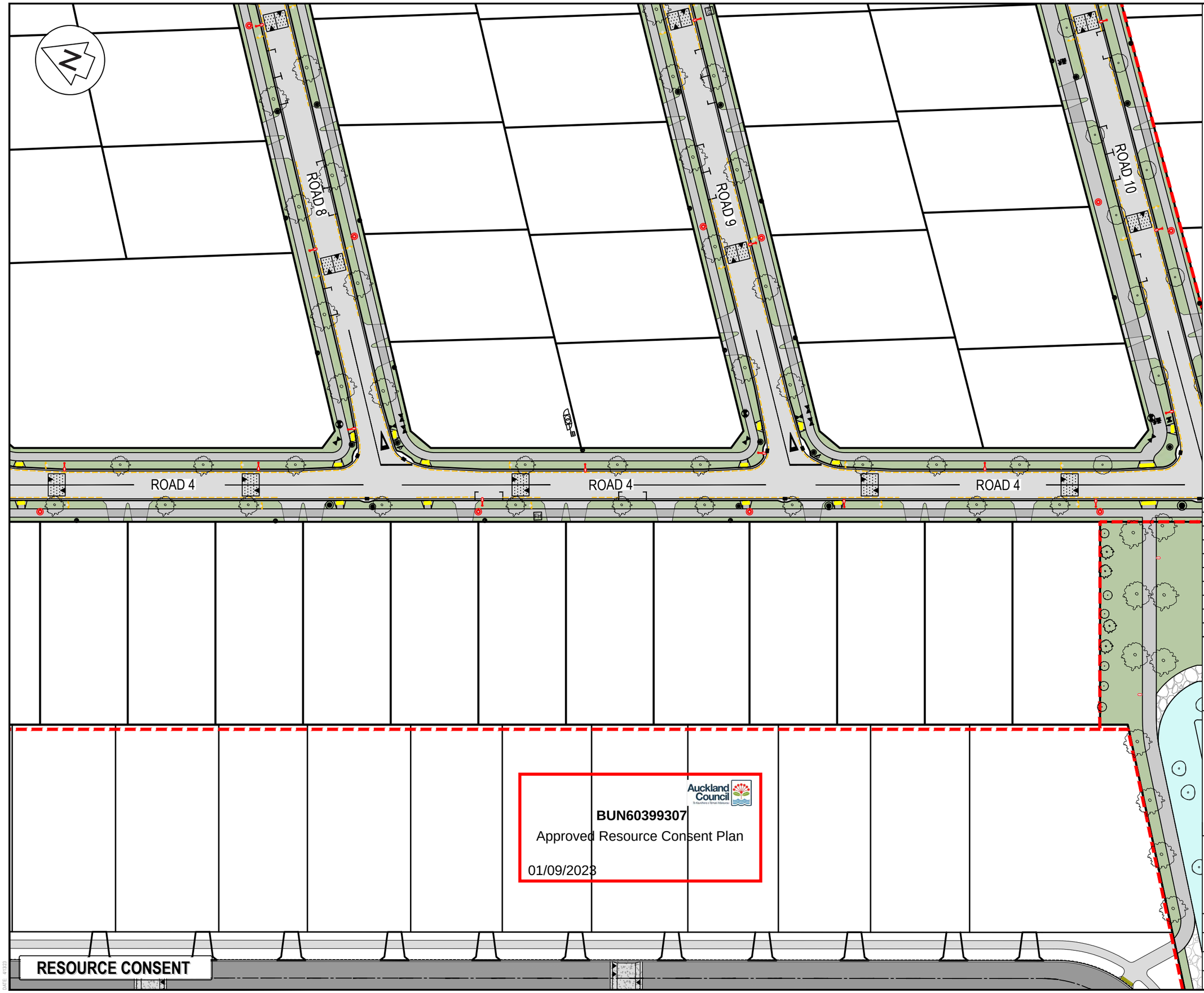
Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006
Scale	1:750@A3
Cad file	C800- COORDINATION PLAN.DWG
Drawing no.	C806
Rev	C



Notes

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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C807	Rev	C

DATE: 01/09/23

ROAD 11

ROAD 11

ROAD 12

ROAD 11

RESOURCE CONSENT

DATE 4/10/23

Notes

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Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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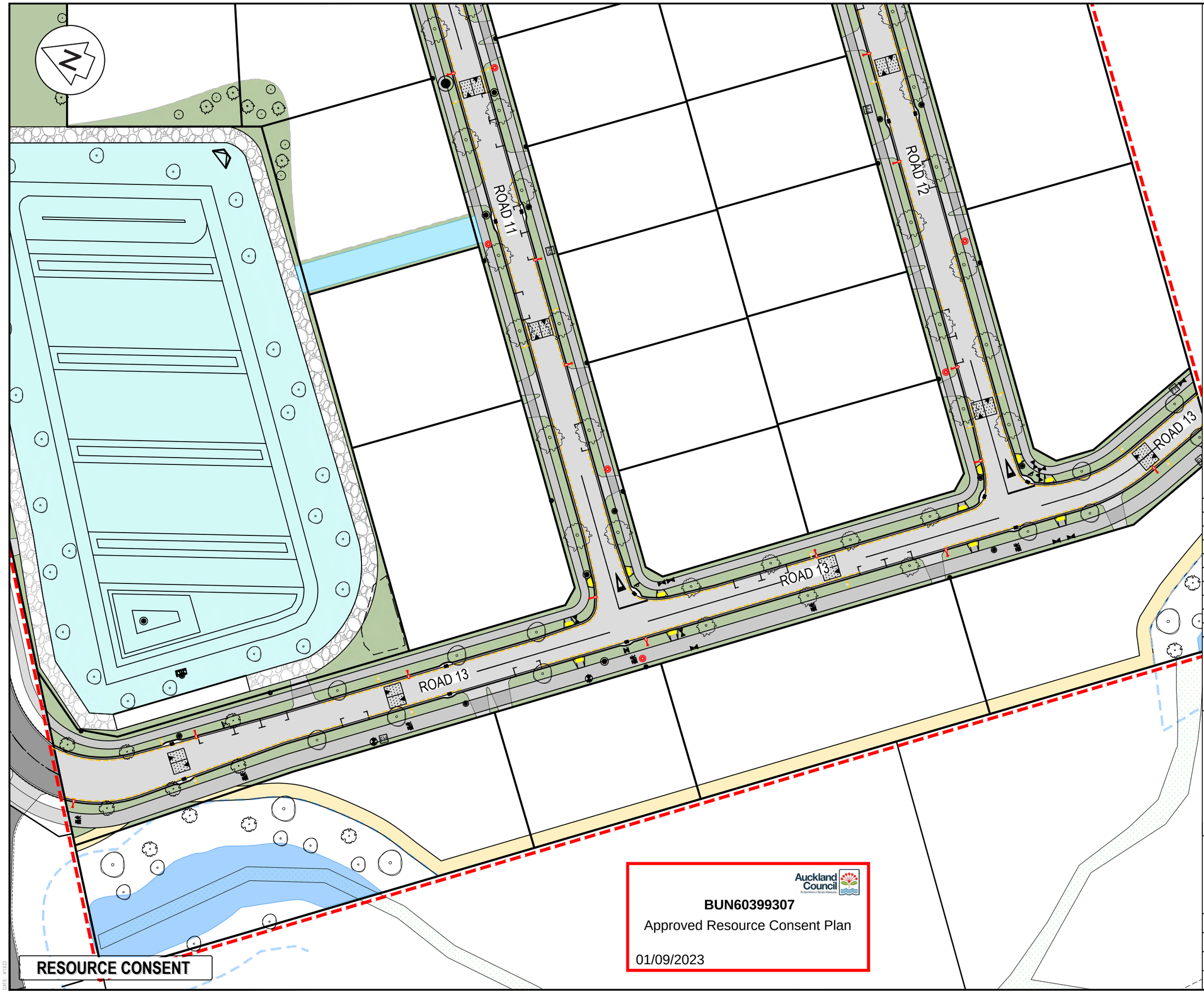
Project

62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C808	Rev	C



Notes

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Legend

- EX BDY
- PR BDY
- PR STAGING BDY
- EX/PR HYDRANT
- EX/PR METER
- EX SLUICE VALVE
- EX PEAT VALVE
- PR SLUICE VALVE
- PR SERVICE PIT
- PR SWITCHGEAR
- PR TRANSFORMER
- PR STREET LIGHT
- PR STREET SIGN
- PR PEAT VALVE
- PR WW VALVE PIT
- EX/PR SWMH
- PR SWCP SINGLE
- PR BERM
- PR CONC FOOTPATH
- PR ASPHALT ROAD
- PR LANDSCAPE

Rev	Description	By	Date
C	S92 RFI	ML	04/2023
B	EPA RFI	ML	02/2023
A	EPA RFI	ML	10/2022

	By	Date
Survey	-	-
Design	JV	02/2022
Drawn	ML	09/2022
Checked	JP	09/2022

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Project

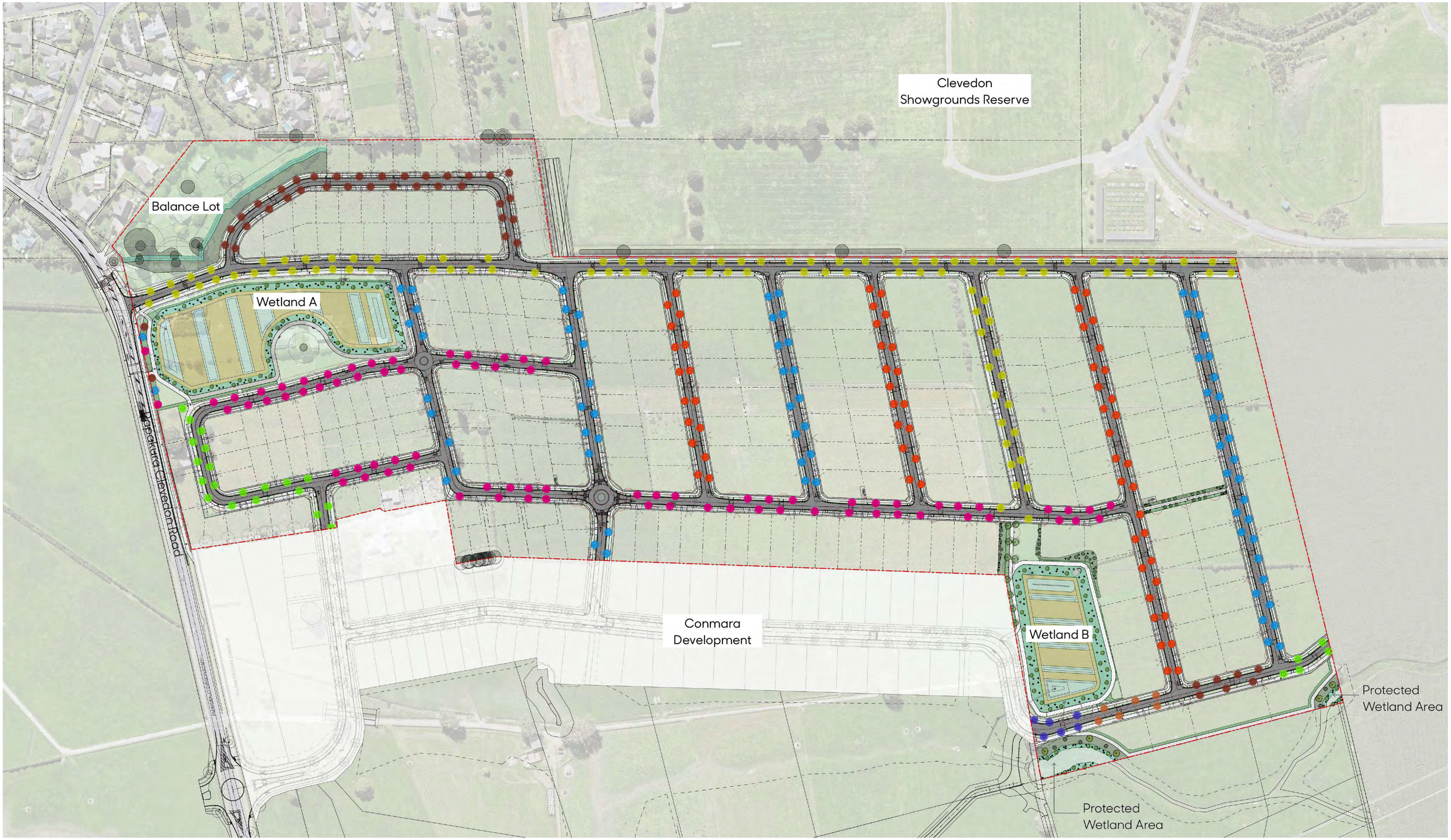
62, 78 & 80 PAPAKURA CLEVEDON ROAD, CLEVEDON, AUCKLAND FOR CLEVEDON PROPERTIES LTD

Title

PROPOSED COORDINATION PLAN

Project no.	194006		
Scale	1:750@A3		
Cad file	C800- COORDINATION PLAN.DWG		
Drawing no.	C809	Rev	C

DATE 4/10/23



- Dysoxylum spectabile
- Carpinus betulus 'Fastigiata'
- Acer saccharum
- Beilschmiedia taraire
- Alectryon excelsus
- Nyssa sylvatica
- Vitex lucens
- Phyllocladus trichomanoides
- Existing tree to retain
- Existing tree to remove
- Indicative lighting location

Auckland Council

BUN60399307

Approved Resource Consent Plan

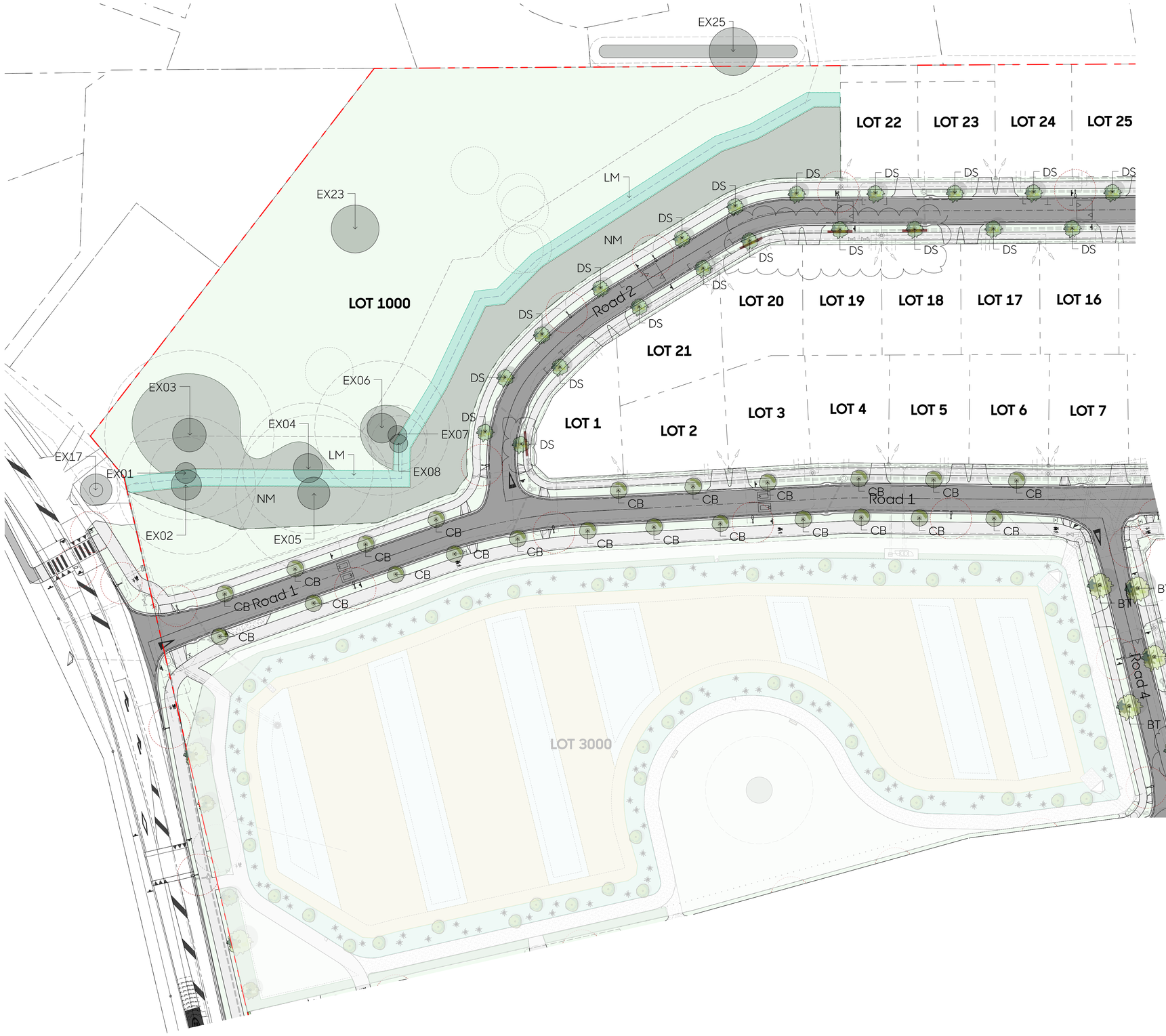
01/09/2023

Client	Project	Drawing	Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/08 Master Landscape Plan	1:1500@A1 1:3000@A3	13/04/23	TX
				Issue	Checked
				F	MB

greenwood associates

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
CB	*Carpinus betulus 'Fastigiata'*	upright europen hornbeam	95	marked	22	12	4
BT	*Beilschmiedia taraire*	taraire	95	marked	5	8	6
DS	*Dysoxylum spectabile*	kohekohe	95	marked	20	7	4
EX	Exsiting tree to retain						
LM	**Wetland Littoral Zone Plangting Mix**						
30%	*Carex virgata*	swamp sedge	3	0.75	345	1	0.8
15%	*Machaerina juncea*	tussock swamp twig rush	3	0.75	172	1	1
15%	*Juncus pallidus*	wiwi	3	1	129	1.5	1.5
15%	*Carex secta*	purei	3	1	129	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	129	3	2
10%	*Cyperus ustulatus*	giant umbrella sedge	3	0.75	115	1	1
NM	**Native Planting Mix**						
25%	*Phormium cookianum*	wharariki	3	1	547	1.5	1.5
15%	*Carex secta*	purei	3	1	328	1.5	1.5
15%	*Muehlenbeckia astonii*	pohuehue	3	1	328	2	1.5
10%	*Austroderia fulvida*	toetoe	3	1	219	1.5	1.5
10%	*Hebe stricta*	koromiko	3	1	219	4	2.5
10%	*Cordyline australis*	ti kouka	3	1	219	10	2
5%	*Leptospermum scoparium*	manuka	3	1	109	4	3
5%	*Coprosma robusta*	karamu	3	1	109	5	4
5%	*Phormium tenax*	harakeke	3	1	109	3	2

ALL STREET TREE STEMS TO BE MIN 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.



BUN60399307
Approved Resource Consent Plan
01/09/2023

6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.

Beilschmiedia taraire

Carpinus betulus 'Fastigiata'

Dysoxylum spectabile

Client	Project	Drawing		Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/09 Street Tree Plan Part 1	N	1:500@A1 1:1000@A3	29/05/23 Issue F	TX Checked MB

greenwood associates

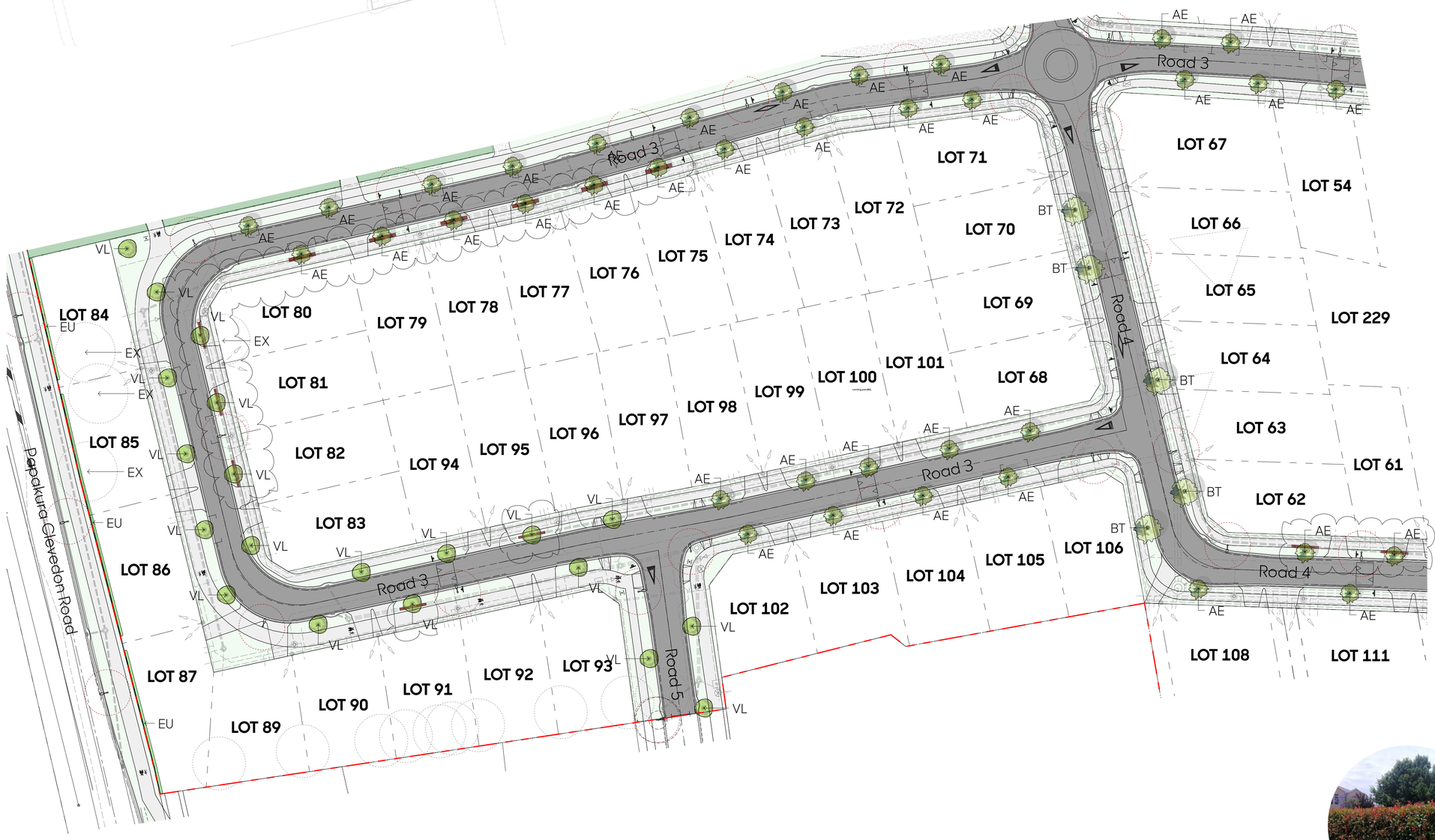
BUN60399307

Approved Resource Consent Plan

01/09/2023

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
VL	*Vitex lucens*	pūriri	95	marked	21	8	4
BT	*Beilschmiedia taraire*	taraire	95	marked	5	8	6
AE	*Alectryon excelsus*	tītoki	95	marked	34	6	4
EU	*Eugenia ventenati*	lilily pilly	40	1	113	5	2

ALL STREET TREE STEMS TO BE MIN. 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN. 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.



6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.

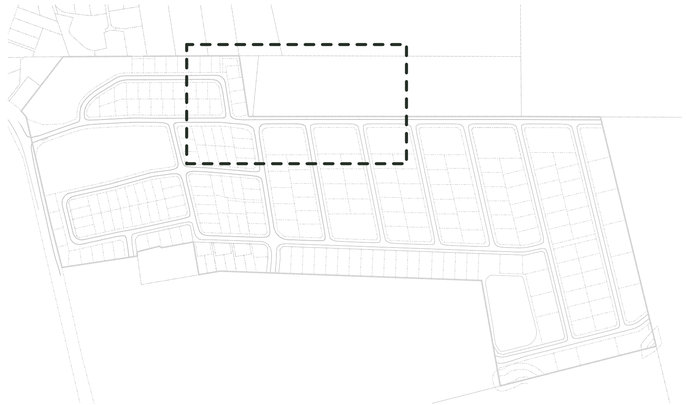
Eugenia ventenati

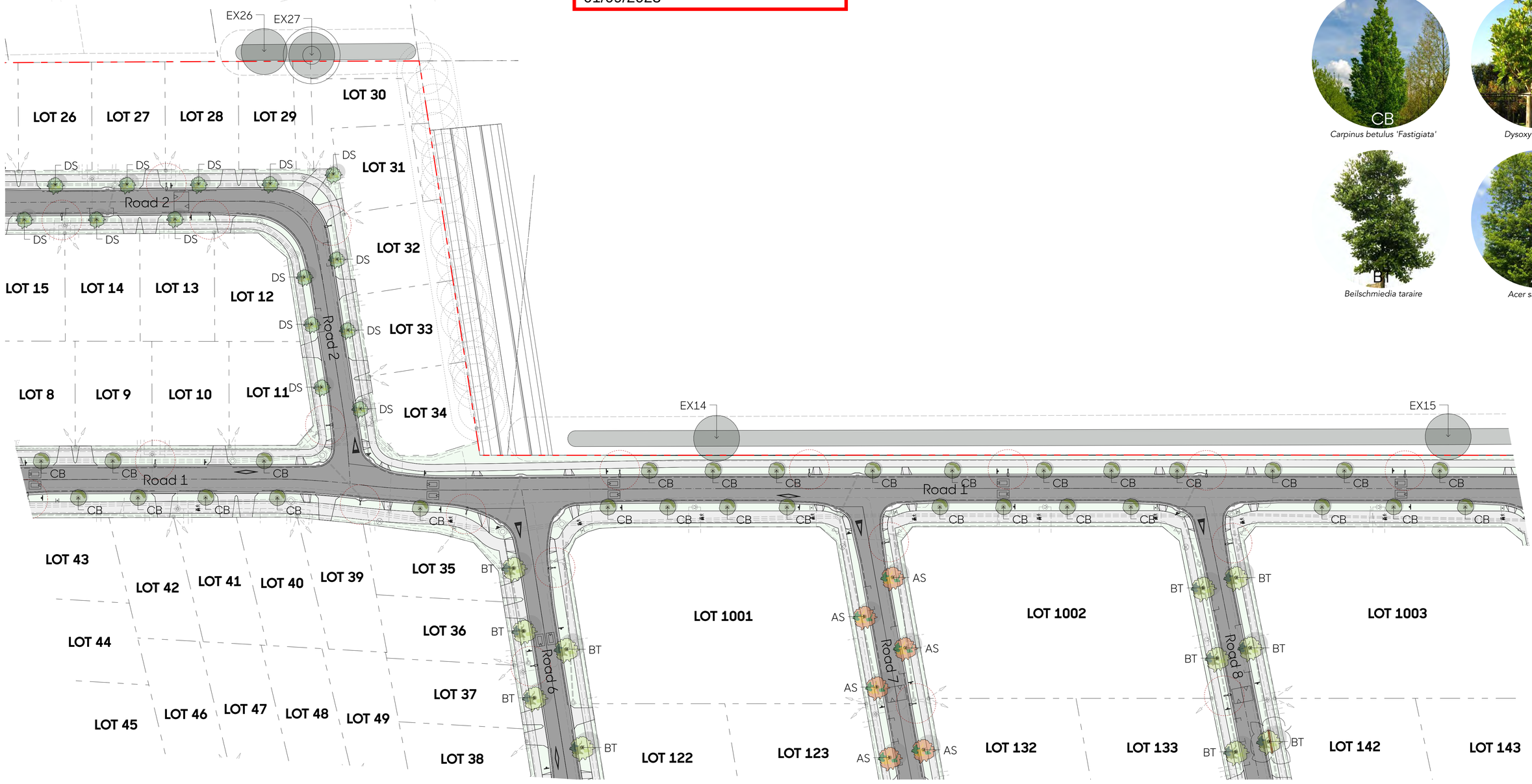
Vitex lucens

Alectryon excelsus

Client	Project	Drawing	Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/10 Street Tree Plan Part 2	1:500@A1 1:1000@A3	29/05/23	TX
			Issue	Checked	
			F	MB	

greenwood associates





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Approved Resource Consent Plan

01/09/2023

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
CB	*Carpinus betulus 'Fastigiata'*	upright europen hornbeam	95	marked	30	12	4
DS	*Dysoxylum spectabile*	kohekohe	95	marked	14	7	4
BT	*Beilschmiedia taraire*	taraire	95	marked	11	8	6
AS	*Acer saccharum*	sugar maple	95	marked	6	10	6
EX.	Exsiting tree to retain						

ALL STREET TREE STEMS TO BE MIN 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.

6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.

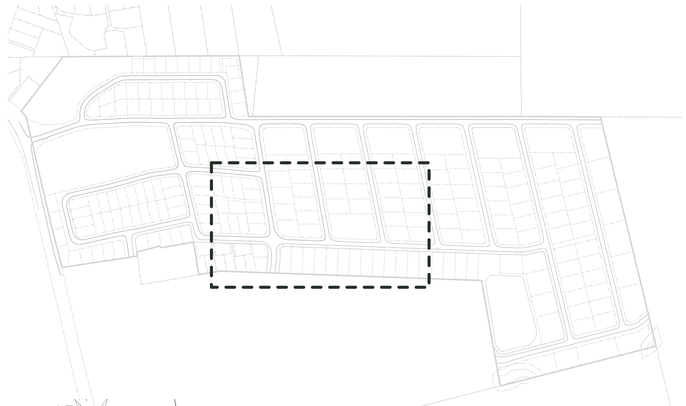
Carpinus betulus 'Fastigiata'

Dysoxylum spectabile

Beilschmiedia taraire

Acer saccharinum

Client Clevedon Properties Ltd	Project 62-80 Papakura Clevedon Road, Clevedon, Auckland	Drawing 220214/11 Street Tree Plan Part 3	Scale 1:500@A1 1:1000@A3	Issue Date 29/05/23 Issue F	Drawn TX Checked MB	greenwood associates



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Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
AE	*Alectryon excelsus*	titoki	95	marked	27	6	4
BT	*Beilschmiedia taraire*	taraire	95	marked	19	8	6
AS	*Acer saccharum*	sugar maple	95	marked	10	10	6

ALL STREET TREE STEMS TO BE MIN 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.

6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.

Alectryon excelsus

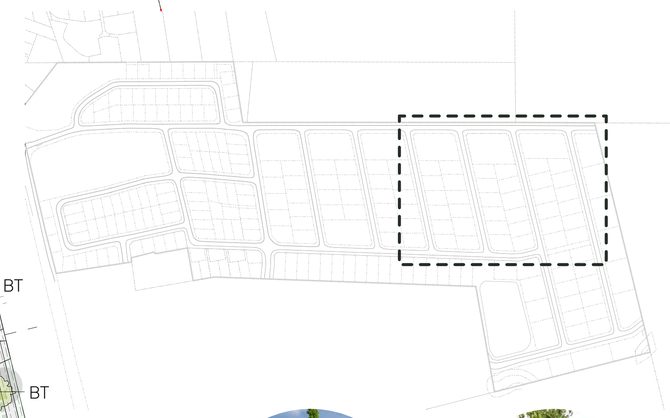
Acer saccharinum

Beilschmiedia taraire

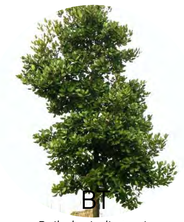
Client	Project	Drawing		Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/12 Street Tree Plan Part 4	N	1:500@A1 1:1000@A3	29/05/23 Issue F	TX Checked MB

greenwood associates

6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.



Carpinus betulus 'Fastigiata'



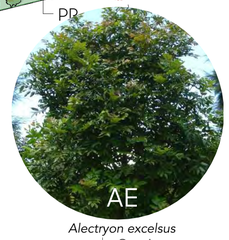
Beilschmiedia taraire

Acer saccharinum

Plagianthus regius

Cordyline australis

Pseudopanax crassifolius



Alectryon excelsus

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
CB	*Carpinus betulus 'Fastigiata'*	upright europen hornbeam	95	marked	47	12	4
BT	*Beilschmiedia taraire*	taraire	95	marked	18	8	6
AE	*Alectryon excelsus*	titoki	95	marked	13	6	4
AS	*Acer saccharum*	sugar maple	95	marked	36	10	6
PR	*Plagianthus regius*	manatu	95	marked	12	12	4
CA	*Cordyline australis*	ti kouka	40	marked	12	10	2
PC	*Pseudopanax crassifolius*	horoeka	40	marked	8	12	3
EX	Exsiting tree to retain						
PM	**Pathway Planting Mix**						
20%	*Lomandra longifolia 'Evergreen Baby'*	lomandra	3	0.6	192	0.4	0.4
20%	*Phormium 'Black Rage'*	black flax	3	0.6	192	0.6	0.8
15%	*Chionochloa flavicans*	dwarf toe toe	3	0.6	144	1	1
15%	*Phormium cookianum 'Emerald Gem'*	dwarf mountain flax	3	0.6	144	0.8	0.8
15%	*Dietes grandiflora*	wild iris	3	0.6	144	1	0.6
15%	*Muehlenbeckia axillaris*	pohuehue	3	0.6	144	0.1	1

ALL STREET TREE STEMS TO BE MIN 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/13 Street Tree Plan Part 5

Scale
1:500@A1
1:1000@A3

Issue Date
29/05/23

Issue
F

Drawn
TX

Checked
MB

greenwood associates

Auckland Council

BUN60399307

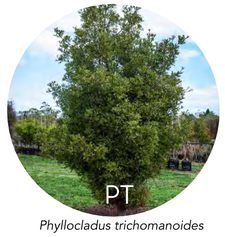
Approved Resource Consent Plan

01/09/2023

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
VL	*Vitex lucens*	pūriri	95	marked	5	8	4
DS	*Dysoxylum spectabile*	kohekohe	95	marked	7	7	4
NS	*Nyssa sylvatica*	black tupelo	95	marked	6	10	4
BT	*Beilschmiedia taraire*	taraire	95	marked	12	8	6
AS	*Acer saccharum*	sugar maple	95	marked	12	10	6
PT	*Phyllocladus trichomanoides*	tānekaha	95	marked	6	12	4

ALL STREET TREE STEMS TO BE MIN 2M FROM VEHICLE CORSSINGS, MANHOLES, DRAINAGE, UNDERGROUND SERVICES SURFACE OPENINGS.
ALL STREET TREE STEMS TO BE MIN 3M FROM LOW VOLTAGE POWER POLES.
ALL STREET TREE STEMS TO BE MIN 5M FROM STREET LIGHTS, STREET SIGNS & HIGH VOLTAGE POLES, TRANSFORMERS AND TRANSFORMER POLES.

6m long (3m either side of the centre of the tree pit) polythene root barrier to be implemented, running parallel, on top of RCRRJ SW pipeline, where top of stormwater pipeline is between 650mm-950mm of the base of the tree pits. The root barrier is to be 200mm min. wider than the diameter of the pipeline. Refer to PD-06/07.



Phyllocladus trichomanoides

Vitex lucens

Nyssa sylvatica

Beilschmiedia taraire

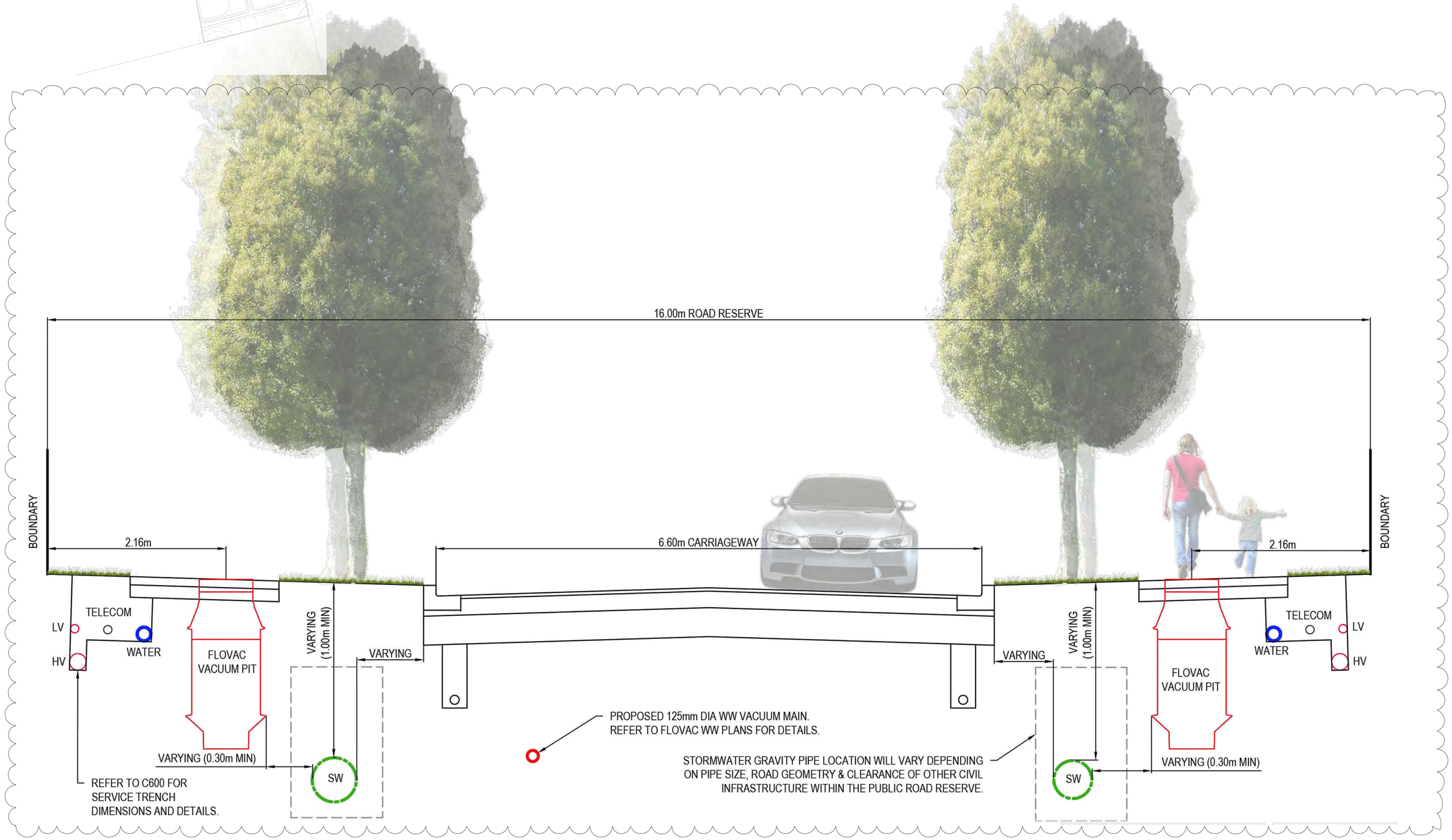
Dysoxylum spectabile

Acer saccharinum

Client	Project	Drawing	Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/14 Street Tree Plan Part 6	1:500@A1 1:1000@A3	29/05/23	TX
			Issue	Checked	
			F	MB	

greenwood associates

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023

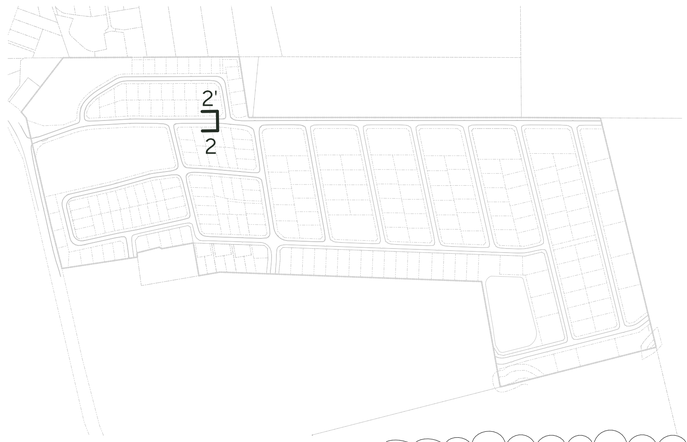


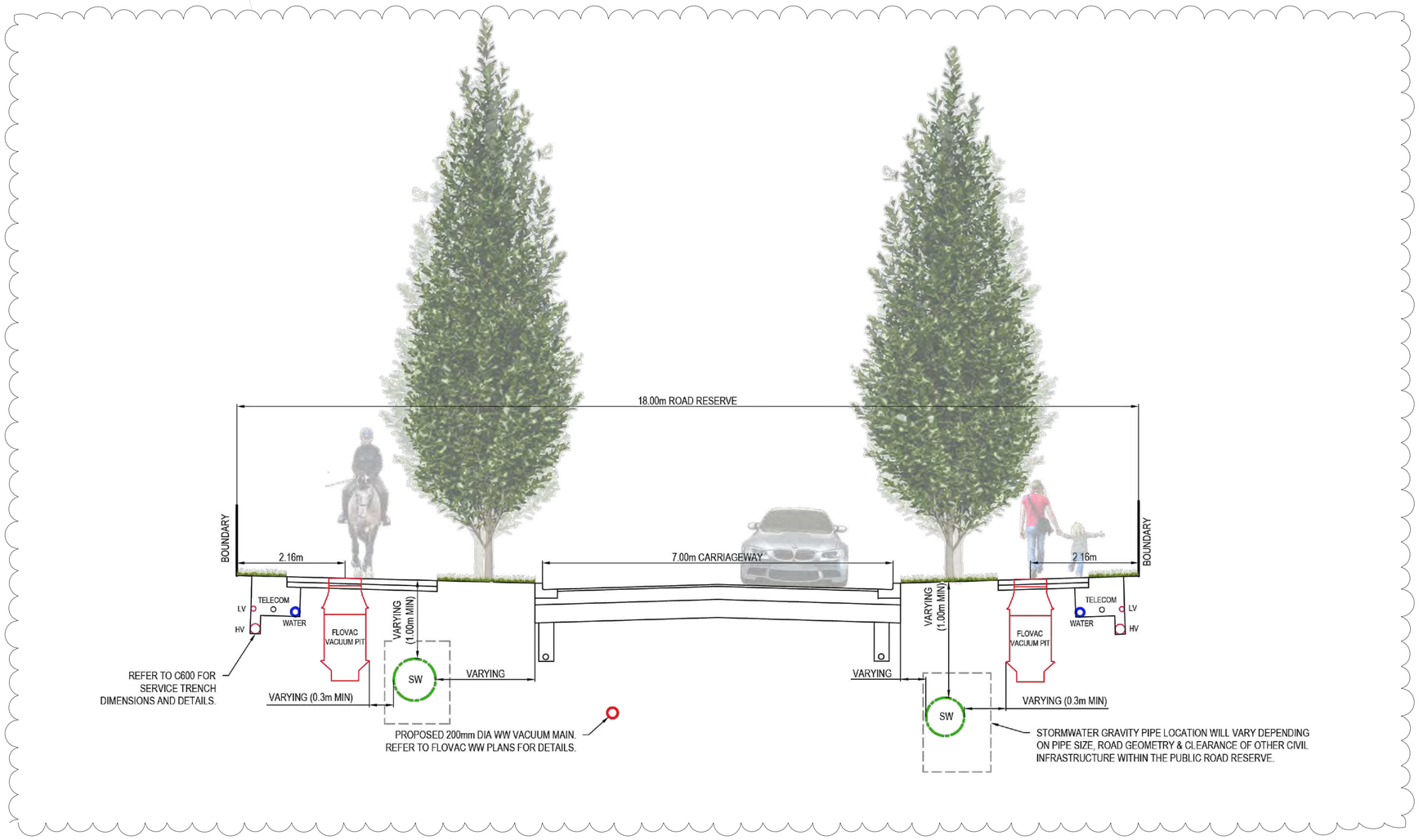
SE-01: TYPICAL LOCAL ROAD SECTION 1-1' 1:25 @ A1, 1:50 @ A3

Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/15 Typical Street Section 1-1'	29/05/23	TX
			Issue	Checked
			F	MB

greenwood associates

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023



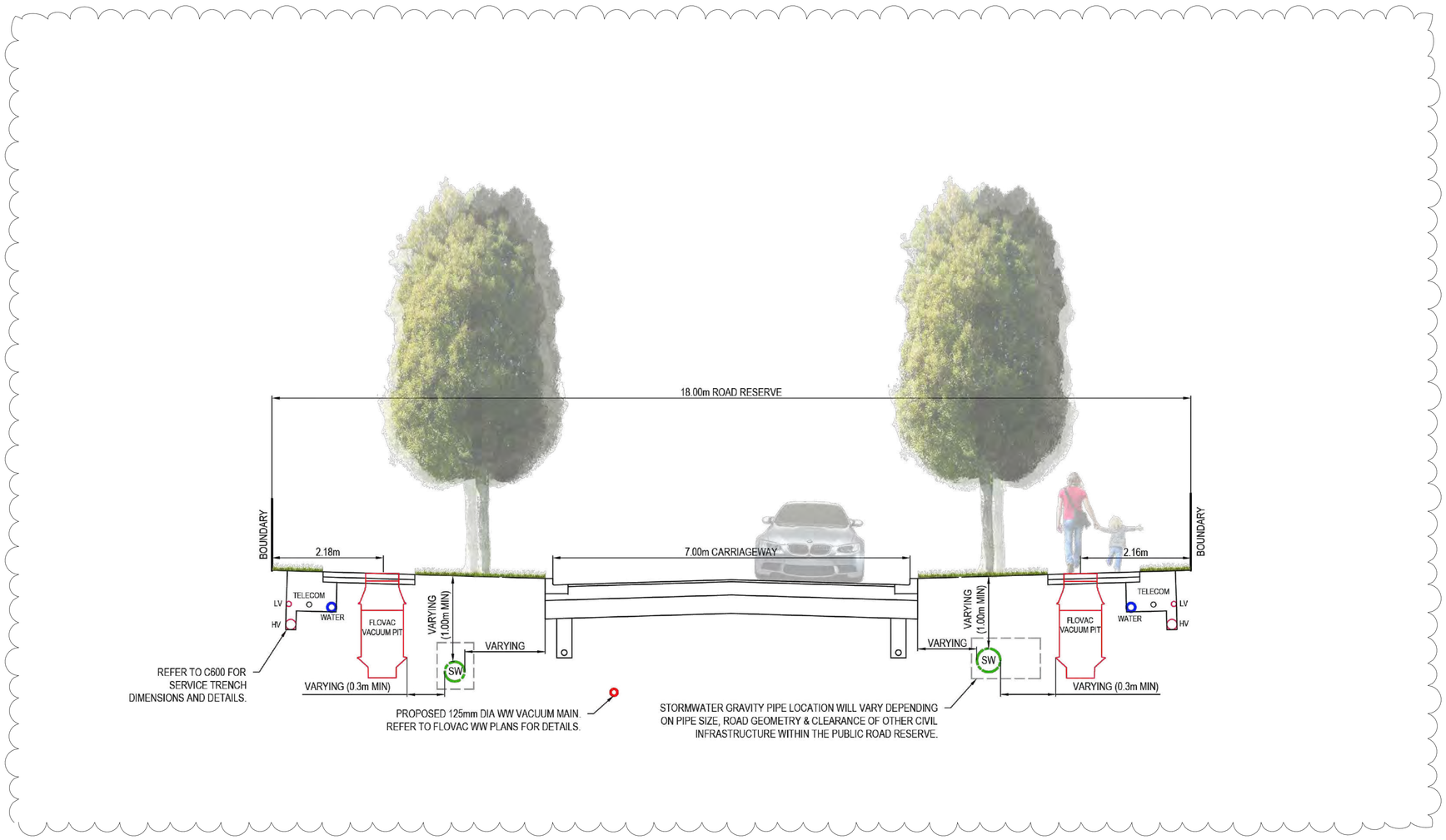


SE-02: TYPICAL LOCAL ROAD SECTION 2-2' 1:50 @ A1, 1:100 @ A3

Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/16 Typical Street Section 2-2'	29/05/23	TX
			Issue	Checked
			F	MB

greenwood associates

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023



SE-03: TYPICAL LOCAL ROAD SECTION 3-3' 1:50 @ A1, 1:100 @ A3

Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/17 Typical Street Section 3-3'	29/05/23	TX
			Issue	Checked
			F	MB

greenwood associates

Dysoxylum spectabile

Beilschmiedia taraire

Alectryon excelsus

Cordyline australis

Melicytus ramiflorus

Gravel path

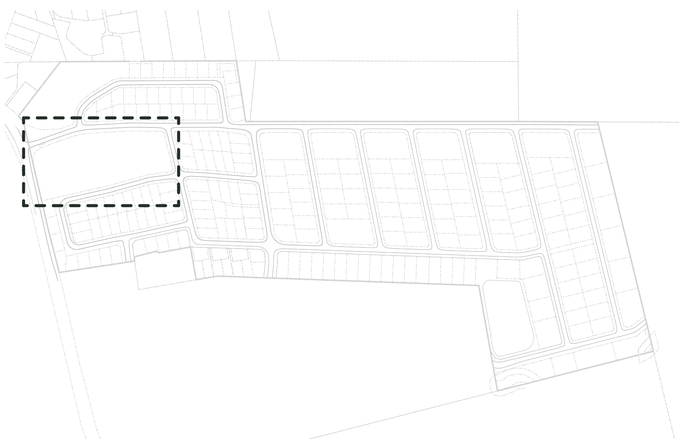
Open aluminium fence

Standard concrete

Lawn

Hardwood bench seat

Bollard



Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
DS	*Dysoxylum spectabile*	kohekohe	95	marked	2	7	4
BT	*Beilschmiedia taraire*	taraire	95	marked	2	8	6
AE	*Alectryon excelsus*	titoki	95	marked	2	6	4
CA	*Cordyline australis*	ti kouka	40	marked	111	10	2
MR	*Melicytus ramiflorus*	mahoe	40	marked	46	6	3
EX	Exsiting tree to retain						
EM	**Wetland Emergent Zone Plangting Mix**						
25%	*Eleocharis acuta*	common spike rush	3	0.75	3262	0.6	0.6
25%	*Machaerina rubiginosa*	orange nut sedge	3	0.75	3262	1	1
25%	*Machaerina teretifolia*	pakihi rush	3	0.75	3262	1	1
25%	*Bolboschoenus fluviatilis*	kukuraho	3	1	1835	1.5	1.5
LM	**Wetland Littoral Zone Plangting Mix**						
30%	*Carex virgata*	swamp sedge	3	0.75	1766	1	0.8
15%	*Machaerina juncea*	tussock swamp twig rush	3	0.75	883	1	1
15%	*Juncus pallidus*	wiwi	3	1	497	1.5	1.5
15%	*Carex secta*	purei	3	1	497	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	497	3	2
10%	*Cyperus ustulatus*	giant umbrella sedge	3	0.75	589	1	1
NM	**Native Planting Mix**						
25%	*Phormium cookianum*	whaririki	3	1	495	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	297	3	2
15%	*Muehlenbeckia astonii*	pohuehue	3	1	297	2	1.5
10%	*Carex secta*	purei	3	1	198	1.5	1.5
10%	*Austroderia fulvida*	toetoe	3	1	198	1.5	1.5
10%	*Hebe stricta*	koromiko	3	1	198	4	2.5
5%	*Cordyline australis*	ti kouka	3	1	99	10	2
5%	*Leptospermum scoparium*	manuka	3	1	99	4	3
5%	*Coprosma robusta*	karamu	3	1	99	5	4
PM	**Pathway Planting Mix**						
20%	*Lomandra longifolia 'Evergreen Baby'*	lomandra	3	0.6	562	0.4	0.4
20%	*Phormium 'Black Rage'*	black flax	3	0.6	562	0.6	0.8
15%	*Chionochloa flavicans*	dwarf toe toe	3	0.6	421	1	1
15%	*Phormium cookianum 'Emerald Gem'*	dwarf mountain flax	3	0.6	421	0.8	0.8
15%	*Dietes grandiflora*	wild iris	3	0.6	421	1	0.6
15%	*Muehlenbeckia axillaris*	pohuehue	3	0.6	421	0.1	1

Code	Name	Specification
SC	Standard concrete	Standard aggregate, broom finish
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BE	Hardwood bench seat	Fel Group Te Mata Bench, hardwood slats, corten frame surface mounted
BO	Bollard	Fel Group 140 Pine Square Bollard, sawtooth, plant mounted
OF	Open aluminium fence	1.2m high, Boundaryline 'DuraPanel Titan' open aluminium fence, black powder coat finish
GA	Gate for maintenance	Gate to match fence intersecting, lockable, self-closing hinges, child proof latch, discourages climbing

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/18 Wetland A Plan

Scale
1:350@A1
1:700@A3

Issue Date
13/04/23

Issue
F

Drawn
TX

Checked
MB

greenwood associates

Pyrus calleryana 'Aristocrat'

Plagianthus regius

Cordyline australis

Pseudopanax crassifolius

Melicytus ramiflorus

Gravel path

Standard concrete

Lawn

BE

Hardwood bench seat

Bollard

Auckland Council

BUN60399307

Approved Resource Consent Plan

01/09/2023

Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
PA	*Pyrus calleryana 'Aristocrat'*	flowering pear	95	marked	10	8	5
PR	*Plagianthus regius*	manatu	95	marked	12	12	4
CA	*Cordyline australis*	ti kouka	40	marked	77	10	2
PC	*Pseudopanax crassifolius*	horoeka	40	marked	15	12	3
MR	*Melicytus ramiflorus*	mahoe	40	marked	26	6	3
EM	**Wetland Emergent Zone Plangting Mix**						
25%	*Eleocharis acuta*	common spike rush	3	0.75	1590	0.6	0.6
25%	*Machaerina rubiginosa*	orange nut sedge	3	0.75	1590	1	1
25%	*Machaerina teretifolia*	pakihi rush	3	0.75	1590	1	1
25%	*Bolboschoenus fluviatilis*	kukuraho	3	1	894	1.5	1.5
LM	**Wetland Littoral Zone Plangting Mix**						
30%	*Carex virgata*	swamp sedge	3	0.75	1670	1	0.8
15%	*Machaerina juncea*	tussock swamp twig rush	3	0.75	835	1	1
15%	*Juncus pallidus*	wiwi	3	1	470	1.5	1.5
15%	*Carex secta*	purei	3	1	470	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	470	3	2
10%	*Cyperus ustulatus*	giant umbrella sedge	3	0.75	557	1	1
NM	**Native Planting Mix**						
25%	*Phormium cookianum*	whaririki	3	1	103	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	62	3	2
15%	*Muehlenbeckia astonii*	pohuehue	3	1	62	2	1.5
10%	*Carex secta*	purei	3	1	41	1.5	1.5
10%	*Austroderia fulvida*	toetoe	3	1	41	1.5	1.5
10%	*Hebe stricta*	koromiko	3	1	41	4	2.5
5%	*Cordyline australis*	ti kouka	3	1	21	10	2
5%	*Leptospermum scoparium*	manuka	3	1	21	4	3
5%	*Coprosma robusta*	karamu	3	1	21	5	4
PM	**Pathway Planting Mix**						
20%	*Lomandra longifolia 'Evergreen Baby'*	lomandra	3	0.6	210	0.4	0.4
20%	*Phormium 'Black Rage'*	black flax	3	0.6	210	0.6	0.8
15%	*Chionochloa flavicans*	dwarf toe toe	3	0.6	157	1	1
15%	*Phormium cookianum 'Emerald Gem'*	dwarf mountain flax	3	0.6	157	0.8	0.8
15%	*Dietes grandiflora*	wild iris	3	0.6	157	1	0.6
15%	*Muehlenbeckia axillaris*	pohuehue	3	0.6	157	0.1	1

Code	Name	Specification
SC	Standard concrete	Standard aggregate, broom finish
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BE	Hardwood bench seat	Fel Group Te Mata Bench, hardwood slats, corten frame surface mounted
BO	Bollard	Fel Group 140 Pine Square Bollard, sawtooth, plant mounted

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/19 Wetland B Plan

N

Scale
1:350@A1
1:700@A3

Issue Date
13/04/23

Issue
F

Drawn
TX

Checked
MB

greenwood associates

Auckland Council
BUN60399307
Approved Resource Consent Plan
01/09/2023

Bridle trail within the site

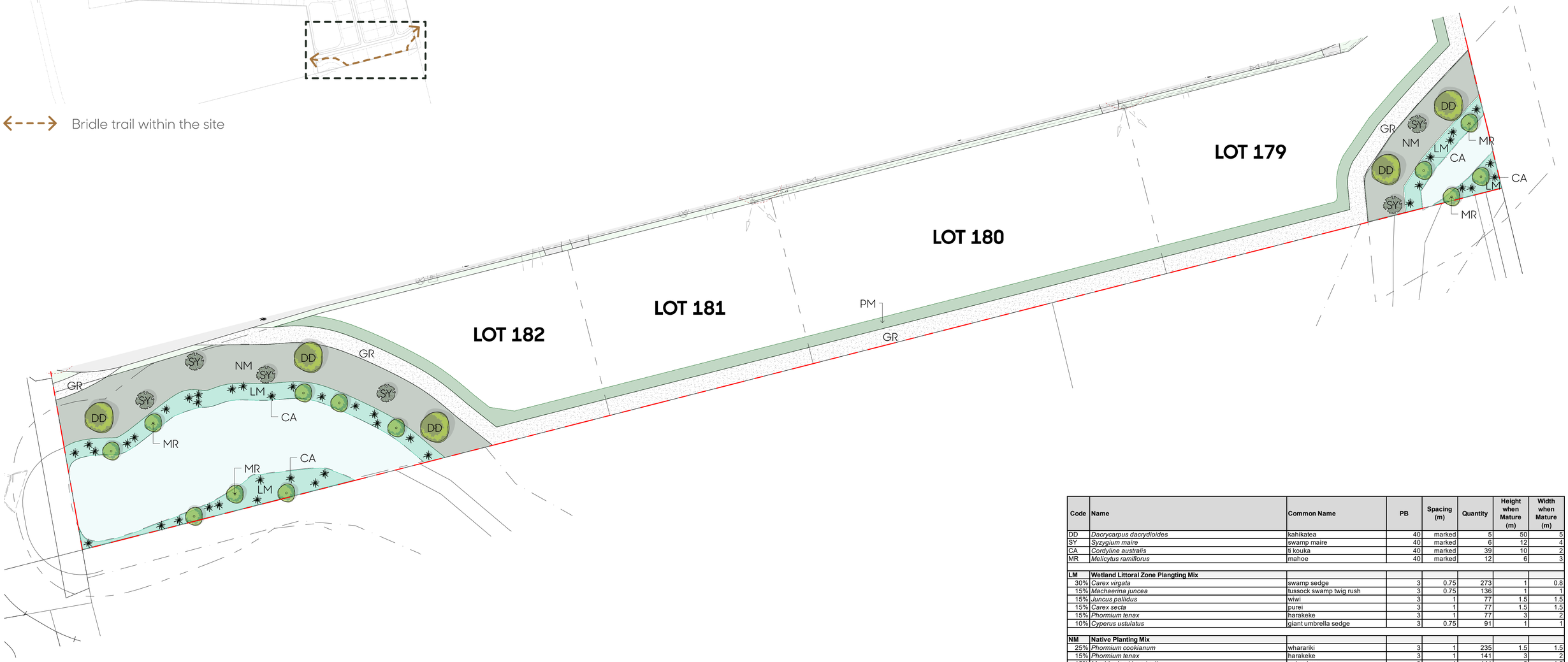
Dacrycarpus dacrydioides

Syzygium maire

Cordyline australis

Melicytus ramiflorus

Gravel path



Code	Name	Common Name	PB	Spacing (m)	Quantity	Height when Mature (m)	Width when Mature (m)
DD	*Dacrycarpus dacrydioides*	kahikatea	40	marked	5	50	5
SY	*Syzygium maire*	swamp maire	40	marked	6	12	4
CA	*Cordyline australis*	ti kouka	40	marked	39	10	2
MR	*Melicytus ramiflorus*	mahoe	40	marked	12	6	3
LM	**Wetland Littoral Zone Plangting Mix**						
30%	*Carex virgata*	swamp sedge	3	0.75	273	1	0.8
15%	*Machaerina juncea*	tussock swamp twig rush	3	0.75	136	1	1
15%	*Juncus pallidus*	wiwi	3	1	77	1.5	1.5
15%	*Carex secta*	purei	3	1	77	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	77	3	2
10%	*Cyperus ustulatus*	giant umbrella sedge	3	0.75	91	1	1
NM	**Native Planting Mix**						
25%	*Phormium cookianum*	wharariki	3	1	235	1.5	1.5
15%	*Phormium tenax*	harakeke	3	1	141	3	2
15%	*Muehlenbeckia astonii*	pohuehue	3	1	141	2	1.5
10%	*Carex secta*	purei	3	1	94	1.5	1.5
10%	*Austroderia fulvida*	toetoe	3	1	94	1.5	1.5
10%	*Hebe stricta*	koromiko	3	1	94	4	2.5
5%	*Cordyline australis*	ti kouka	3	1	47	10	2
5%	*Leptospermum scoparium*	manuka	3	1	47	4	3
5%	*Coprosma robusta*	karamu	3	1	47	5	4
PM	**Pathway Planting Mix**						
20%	*Lomandra longifolia 'Evergreen Baby'*	lomandra	3	0.6	164	0.4	0.4
20%	*Phormium 'Black Rage'*	black flax	3	0.6	164	0.6	0.8
15%	*Chionochloa flavicans*	dwarf toe toe	3	0.6	123	1	1
15%	*Phormium cookianum 'Emerald Gem'*	dwarf mountain flax	3	0.6	123	0.8	0.8
15%	*Dietes grandiflora*	wild iris	3	0.6	123	1	0.6
15%	*Muehlenbeckia axillaris*	pohuehue	3	0.6	123	0.1	1
Code	**Name**	**Specification**					
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface					

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/20 Protected Wetland Plan

N

Scale
1:350@A1
1:700@A3

Issue Date
15/06/23

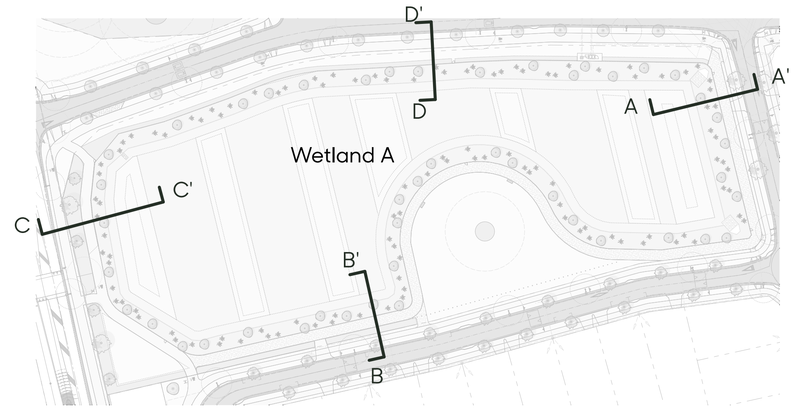
Issue
F

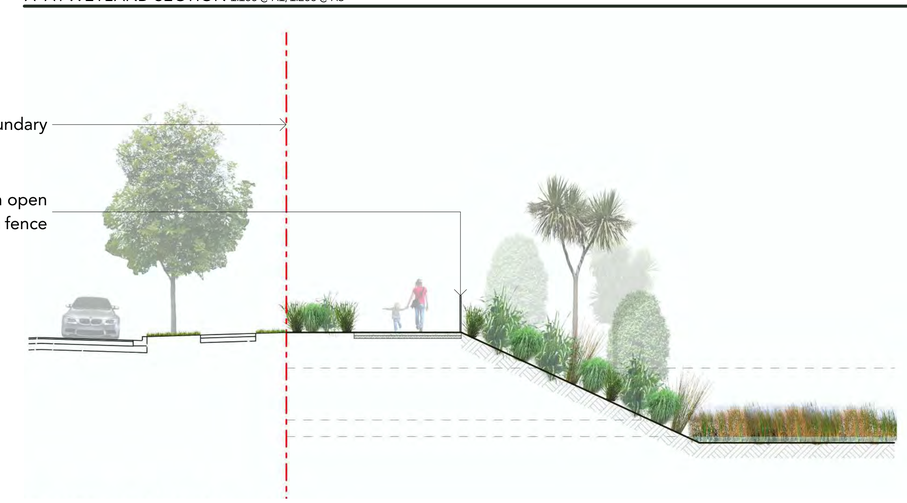
Drawn
TX

Checked
MB

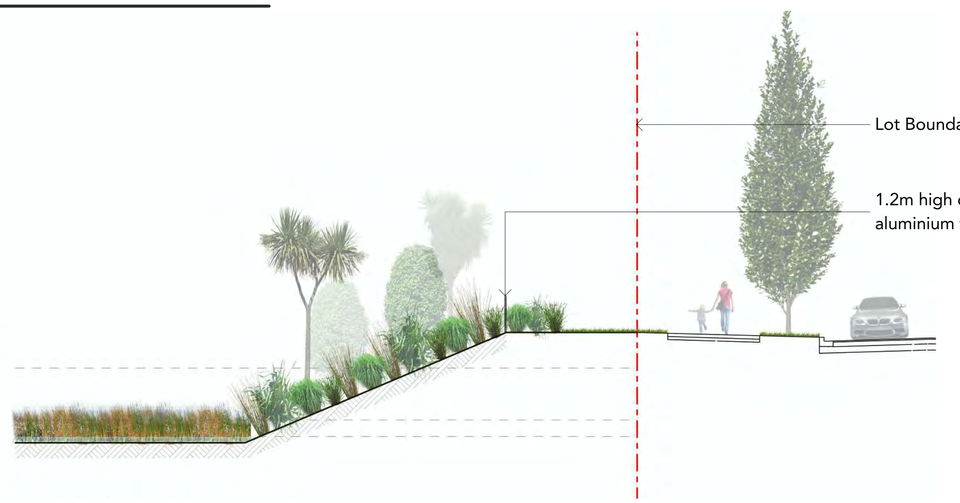
greenwood associates

A-A': WETLAND SECTION 1:100 @ A1, 1:200 @ A3

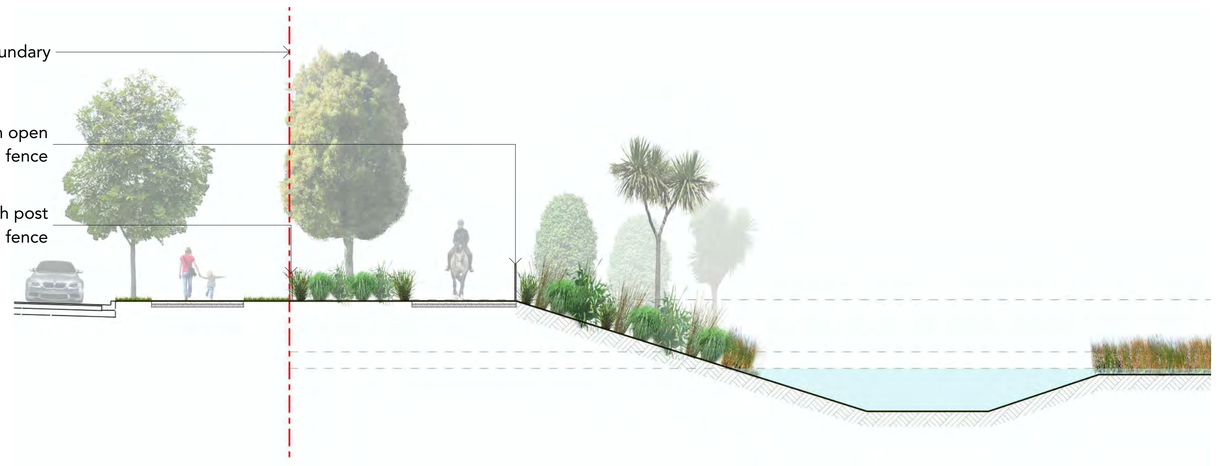




B-B': WETLAND SECTION 1:100 @ A1, 1:200 @ A3



D-D': WETLAND SECTION 1:100 @ A1, 1:200 @ A3



C-C': WETLAND SECTION 1:100 @ A1, 1:200 @ A3

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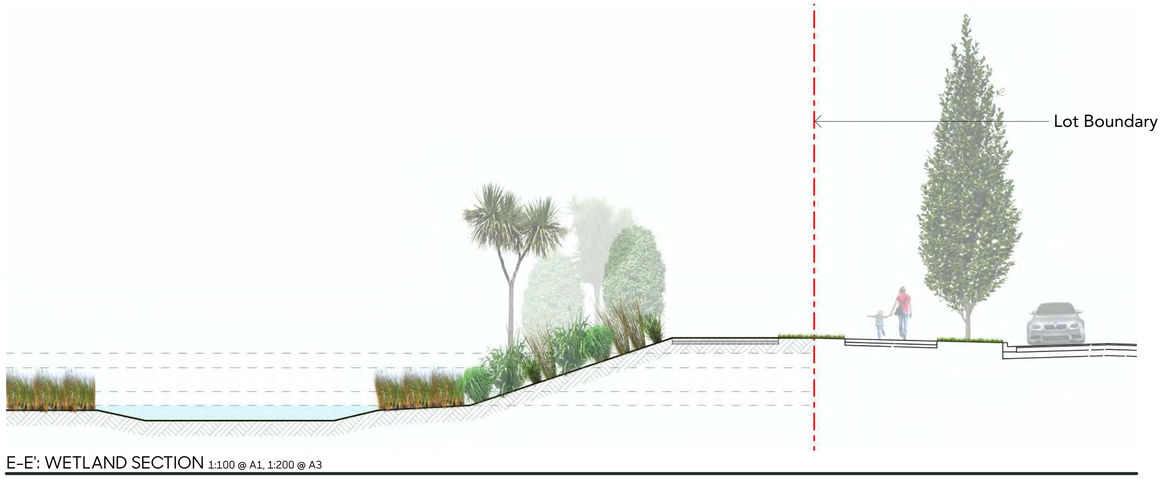
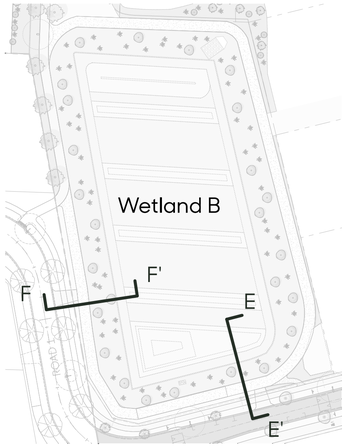
Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/21 Wetland A Sections	13/04/23	TX
			Issue	Checked
			F	MB

greenwood associates

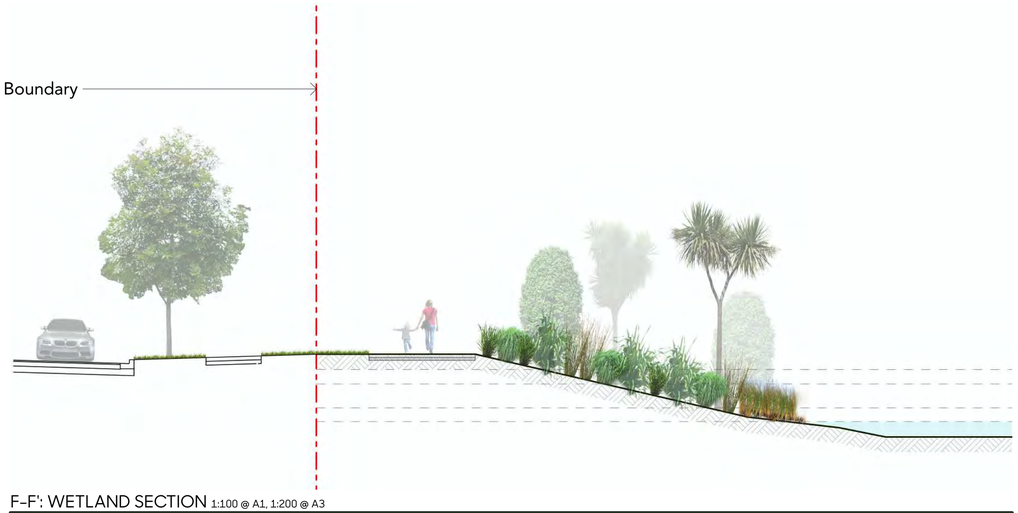
100 YEAR WATER VOLUME - RL= 10.70m
10 YEAR WATER VOLUME - RL= 10.23m
STREAM PROTECTION VOLUME - RL= 9.45m
PERMANENT WATER VOLUME - RL= 9.00m



E-E': WETLAND SECTION 1:100 @ A1, 1:200 @ A3



100 YEAR WATER VOLUME - RL= 10.70m
10 YEAR WATER VOLUME - RL= 10.23m
STREAM PROTECTION VOLUME - RL= 9.45m
PERMANENT WATER VOLUME - RL= 9.00m



F-F': WETLAND SECTION 1:100 @ A1, 1:200 @ A3

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Client	Project	Drawing	Issue Date	Drawn	
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/22 Wetland B Sections	13/04/23	TX	greenwood associates
			Issue	Checked	
			F	MB	

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EM Wetland Emergent Zone Plangting Mix

Eleocharis acuta

Machaerina rubiginosa

Machaerina teretifolia

Bolboschoenus fluviatilis

RM Raingarden Plangting Mix

Phormium cookianum

Carex virgata

Apodasmia similis

LM Wetland Littoral Zone Plangting Mix

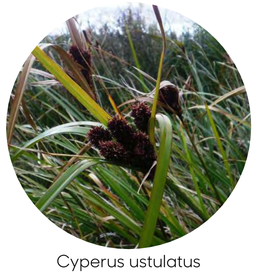
Carex virgata

Machaerina juncea

Juncus pallidus

Carex secta

Phormium tenax


Cyperus ustulatus

NM Native Planting Mix

Phormium cookianum

Phormium tenax

Muehlenbeckia astonii

Carex secta

Austroderia fulvida

Hebe stricta

Cordyline australis

Leptospermum scoparium

Coprosma robusta

PM Pathway Planting Mix

Lomandra longifolia ' Evergreen Baby'

Phormium 'Black Rage'

Chionochloa flavicans

Phormium cookianum 'Emerald Gem'

Dietes grandiflora

Muehlenbeckia axillaris

Client Clevedon Properties Ltd	Project 62-80 Papakura Clevedon Road, Clevedon, Auckland	Drawing 220214/23 Street & Wetland Planting Palette	Issue Date 21/09/22 Issue F	Drawn TX Checked MB	greenwood associates

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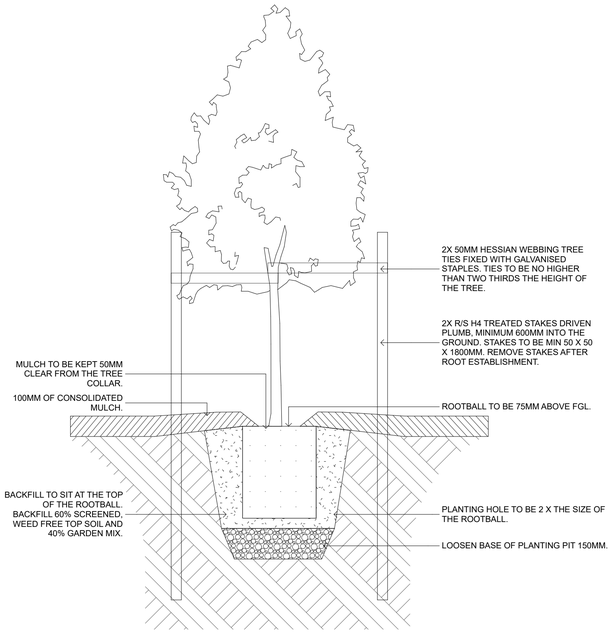
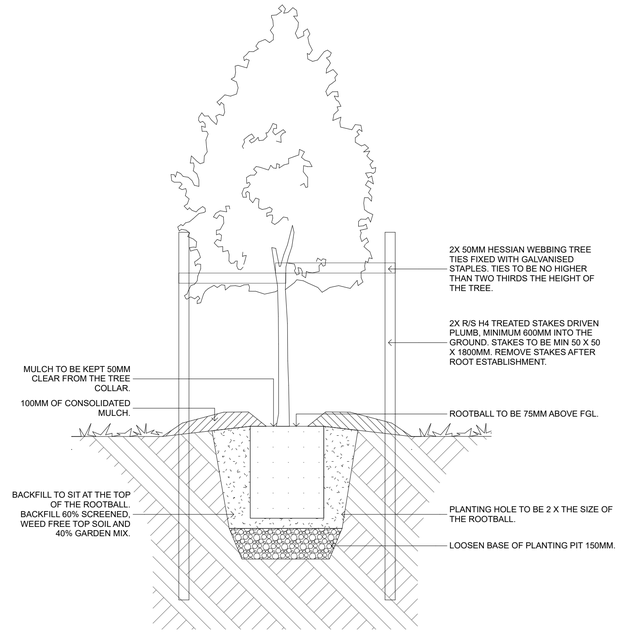
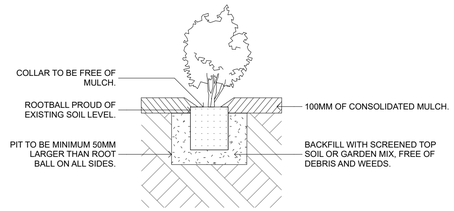
01/09/2023



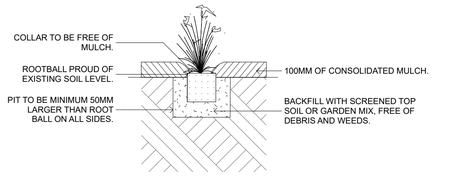
PD-01: TREE IN GARDEN 1:15 @ A1, 1:30 @ A3



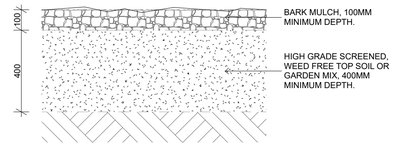
PD-02: TREE IN LAWN 1:15 @ A1, 1:30 @ A3



PD-03: SHRUB IN GARDEN 1:15 @ A1, 1:30 @ A3

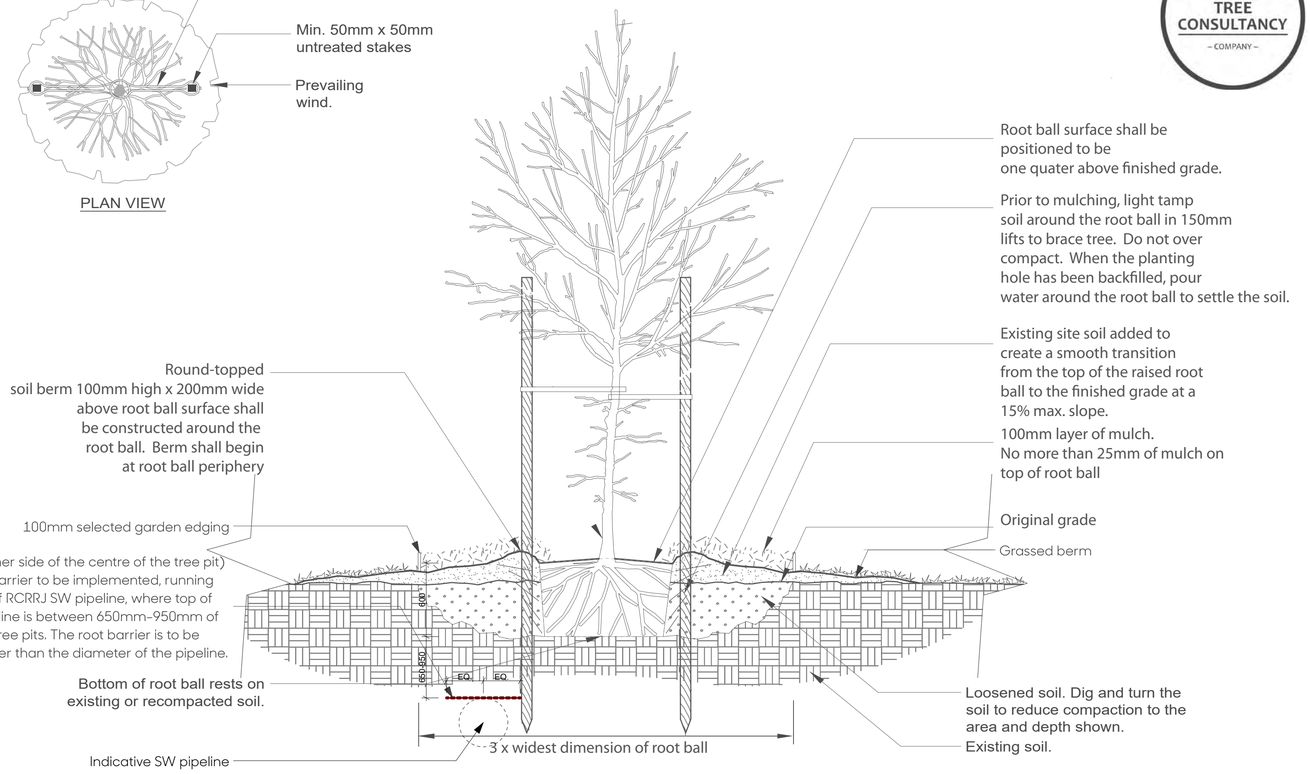


PD-04: GRASSES IN GARDEN 1:15 @ A1, 1:30 @ A3

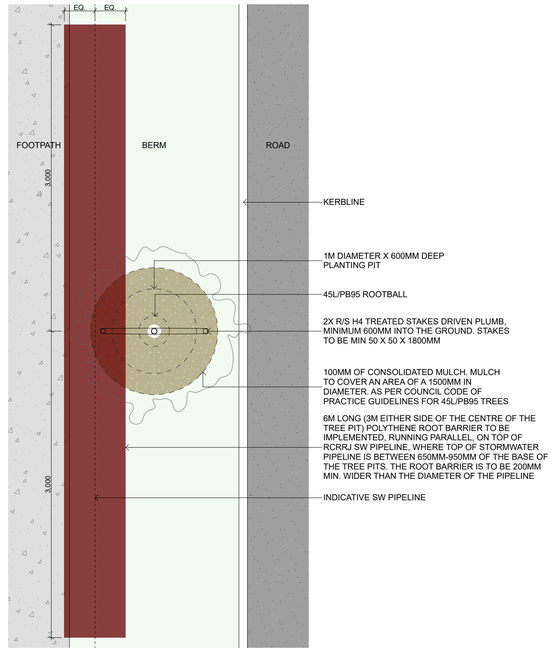


PD-05: GARDEN BEDS 1:15 @ A1, 1:30 @ A3

PLAN VIEW



PD-06: TREE IN ROAD BERM NTS, supplied by The Tree Consultancy Company



PD-07: TREE ROOT BARRIER 1:30 @ A1, 1:60 @ A3

Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/24 Planting Detail	29/05/23	TX
			Issue	Checked
			F	MB

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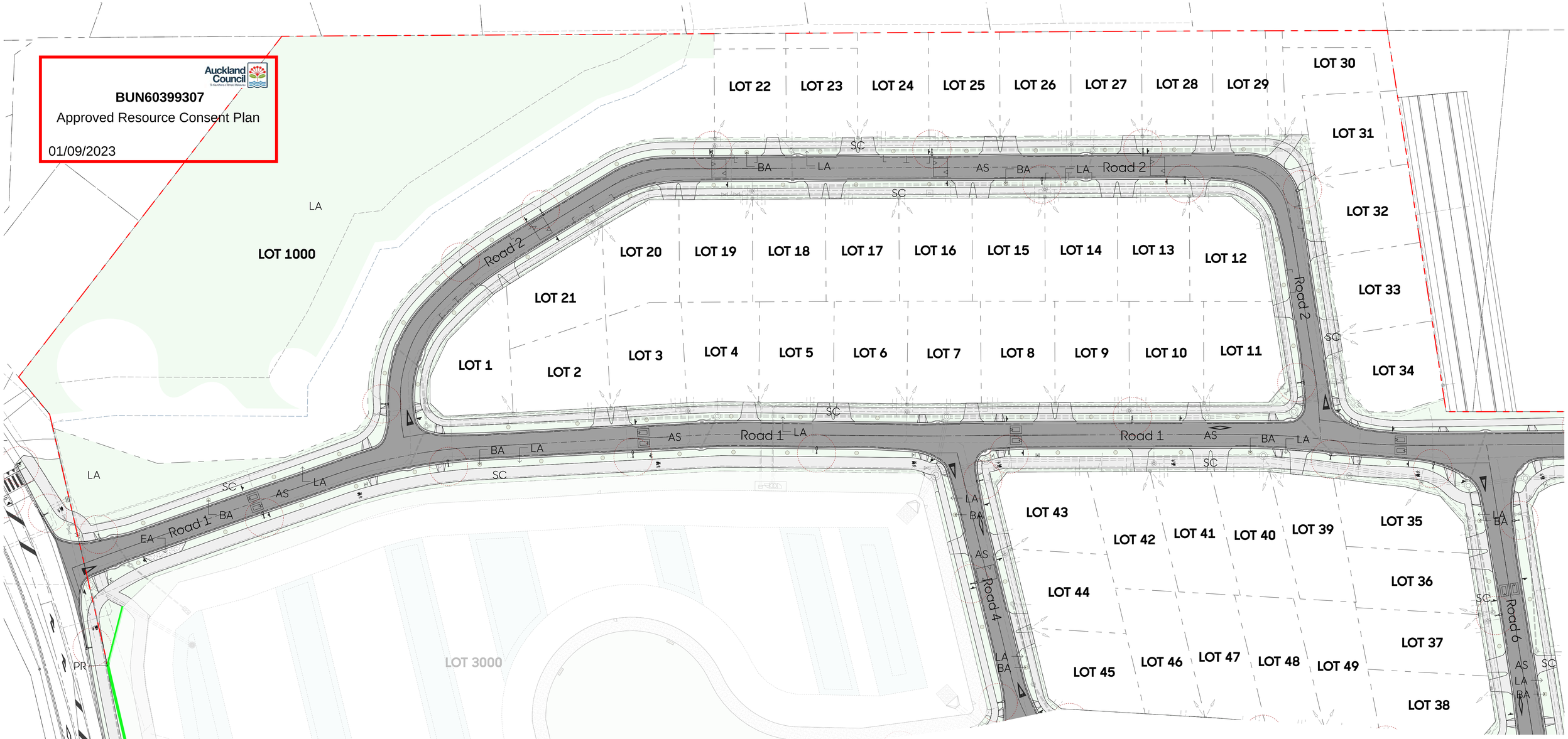
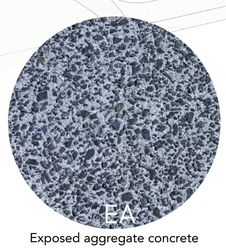
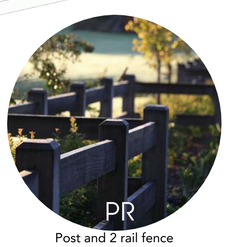




Exposed aggregate concrete



Post and 2 rail fence

Bark

Lawn

Standard concrete

Asphalt

Code	Name	Specification
AS	Asphalt	Hot mix asphalt cement
SC	Standard concrete	Standard aggregate, broom finish
EA	Exposed aggregate concrete	Standard aggregate, exposed
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BA	Bark	Arbor chip contained by 100mm high flexible garden edging, galvanised finish
PR	Post and 2 rail fence	900mm high, Boundaryline post and rail 2-rail, signature 115, black stained
EX	Exisiting fence to retain	

Client Clevedon Properties Ltd	Project 62-80 Papakura Clevedon Road, Clevedon, Auckland	Drawing 220214/25 Street Hardscape Plan Part 1	N	Scale 1:500@A1 1:1000@A3	Issue Date 13/04/23 Issue F	Drawn TX Checked MB

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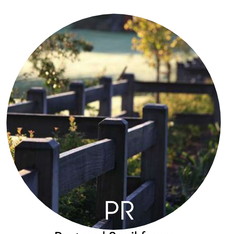
Standard concrete

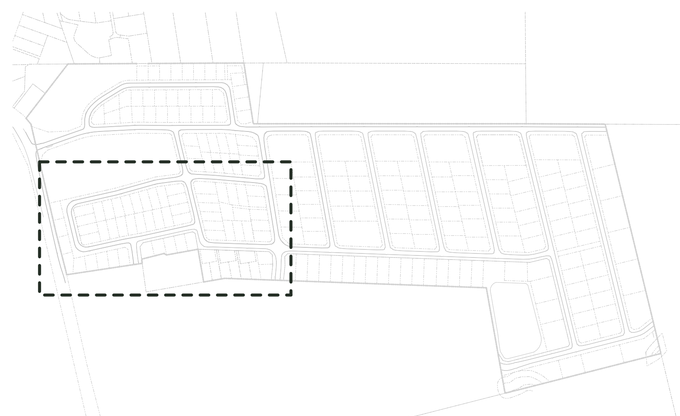
Asphalt



Post and 2 rail fence

Bark

Lawn



Code	Name	Specification
AS	Asphalt	Hot mix asphalt cement
SC	Standard concrete	Standard aggregate, broom finish
EA	Exposed aggregate concrete	Standard aggregate, exposed
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BA	Bark	Arbor chip contained by 100mm high flexible garden edging, galvanised finish
PR	Post and 2 rail fence	900mm high, Boundaryline post and rail 2-rail, signature 115, black stained
EX	Exisiting fence to retain	

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/26 Street Hardscape Plan Part 2

Scale
1:500@A1
1:1000@A3

Issue Date
13/04/23

Issue
F

Drawn
TX

Checked
MB

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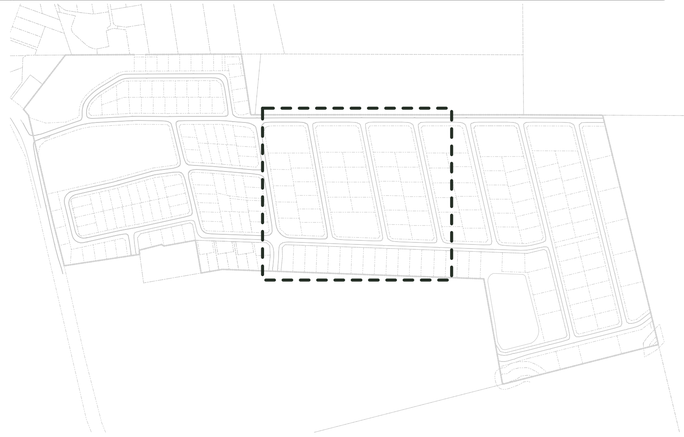
Code	Name	Specification
AS	Asphalt	Hot mix asphalt cement
SC	Standard concrete	Standard aggregate, broom finish
EA	Exposed aggregate concrete	Standard aggregate, exposed
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BA	Bark	Arbor chip contained by 100mm high flexible garden edging, galvanised finish
PR	Post and 2 rail fence	900mm high, Boundaryline post and rail 2-rail, signature 115, black stained
EX	Exisiting fence to retain	



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Client	Project	Drawing		Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/27 Street Hardscape Plan Part 3	N	1:500@A1 1:1000@A3	13/04/23 Issue F	TX Checked MB

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Code	Name	Specification
AS	Asphalt	Hot mix asphalt cement
SC	Standard concrete	Standard aggregate, broom finish
EA	Exposed aggregate concrete	Standard aggregate, exposed
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BA	Bark	Arbor chip contained by 100mm high flexible garden edging, galvanised finish
PR	Post and 2 rail fence	900mm high, Boundaryline post and rail 2-rail, signature 115, black stained
EX	Exisiting fence to retain	

Client	Project	Drawing	Scale	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/28 Street Hardscape Plan Part 4	1:500@A1 1:1000@A3	13/04/23 Issue F	TX Checked MB

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Bark

Lawn

Gravel path

Standard concrete

Asphalt

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01/09/2023

Code	Name	Specification
AS	Asphalt	Hot mix asphalt cement
SC	Standard concrete	Standard aggregate, broom finish
EA	Exposed aggregate concrete	Standard aggregate, exposed
GR	Gravel path with timber edging	50mm WAP7 over 250mm compacted GAP65 with 300x25 H4 timber edging flush with surface
LA	Lawn	PGG Wrightson Duraturf Kerbside, sow 40g/m² (3.5kg/100m²)
BA	Bark	Arbor chip contained by 100mm high flexible garden edging, galvanised finish
PR	Post and 2 rail fence	900mm high, Boundaryline post and rail 2-rail, signature 115, black stained
EX	Exisiting fence to retain	

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/29 Street Hardscape Plan Part 5

Scale
1:500@A1
1:1000@A3

Issue Date
13/04/23

Issue
F

Drawn
TX

Checked
MB

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Specimen tree/Screening shrub options for private lot frontages

Sophora microphylla

Metrosideros excelsa 'Mistral'

Alectryon excelsus

Prunus 'Awanui'

Magnolia grandiflora 'Little Gem'

Prunus 'Falling Snow'

Pyrus salicifolia 'Pendula'

Michelia gracipes

Meryta sinclairii

Hedging options for private lot frontages

Ficus 'Tuffi'

Eugenia ventenati

Michelia figo

Murraya paniculata

Viburnum odoratissimum 'Dense Fence'

Camelia transkonensis

Callistemon viminalis slim

Corokia 'Geenty's Green'

Corokia 'Frosted Chocolate'

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01/09/2023

Client	Project	Drawing	Issue Date	Drawn
Clevedon Properties Ltd	62-80 Papakura Clevedon Road, Clevedon, Auckland	220214/30 Lot Frontages Planting Strategy	21/09/22	TX
			Issue	Checked
			F	MB

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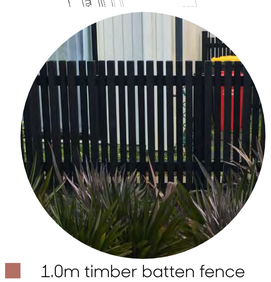
01/09/2023

- Max 1m high fencing within Five (5) metre extent from the boundary of a legal road, stained/painted finish
- # 0.9m high post and 2 rail fence, stained/painted finish
- Existing fence to retain
- # 1.2m high timber batten fence, stained/painted finish
- # 1.2m high open aluminium fence, black powder coated
- # 1.6m high visually permeable fence, stained/painted finish
- 1.8m high closed board timber fence, stained/painted finish
- 1.8m high open aluminium fence, black powder coated

# Denotes fencing to be installed by developer, all other fencing by purchasers.

1.0m closed board fence



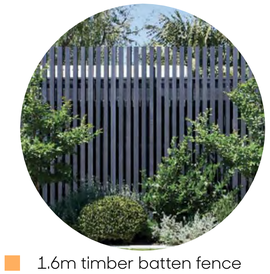
1.0m timber batten fence

1.0m timber picket fence

0.9m post and 2 rail fence

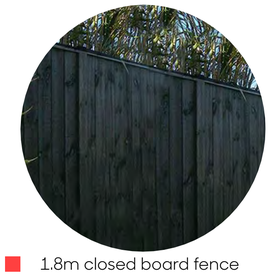
1.2m open aluminium fence

1.6m open aluminium fence
1.8m open aluminium fence



1.6m timber batten fence
1.2m timber batten fence

1.6m timber horizontal slatted fence



1.8m closed board fence

NOTE:

1. The lot Owner will be bound by a fencing covenant within the meaning of section 2 of the Fencing Act 1978 in that neither the Developer nor a Relevant Authority is liable to erect or maintain to pay for or contribute towards the costs of any dividing fence or boundary fence or part thereof between the Lot and any adjoining land owned by the Developer or the Relevant Authority.
2. Any front boundary fence situated on a Residential Lot within five (5) metres of a legal road boundary will be limited to a maximum height of one (1) metre.
3. Notwithstanding clause 1, were any Lot has two adjoining road boundaries, the lot Owner will construct a landscaped fence along one of those boundaries to a maximum height of 1.8 metres provided the adjoining road boundary fence complies with clause 1 above.
4. The height of any fence which is situated more than five (5) metres from the boundary of a legal road for a Lot will be a landscaped fence and at a height subject to the Lot over which the right of way lies.
5. Fences must be a style commensurate with the design standards of the Development and subject always to the Developer's right of approval.
6. Any Lot which has the use of a right of way over another Lot will be required to contribute towards the cost of a boundary fence along the right of way in equal shares with other Lot Owners who share the right of way (if any) and any Lot Owners who own the Lot over which the right of way lies.

Client
Clevedon Properties Ltd

Project
62-80 Papakura Clevedon Road, Clevedon, Auckland

Drawing
220214/31 Lot Frontages Fencing Strategy

Scale
1:1500@A1
1:3000@A3

Issue Date
28/06/23

Issue
F

Drawn
TX

Checked
MB

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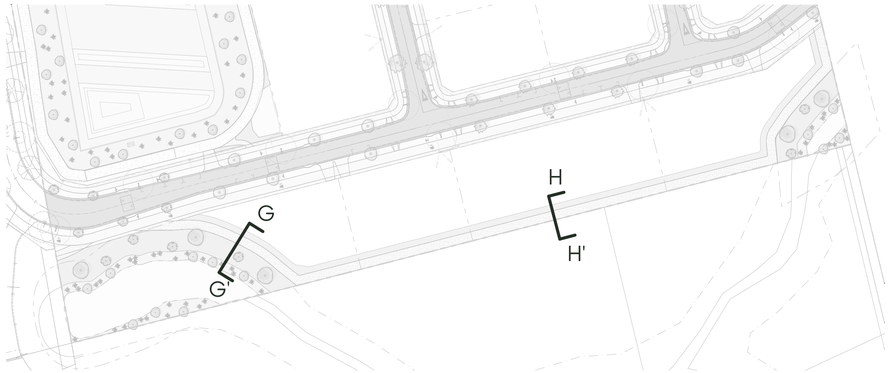
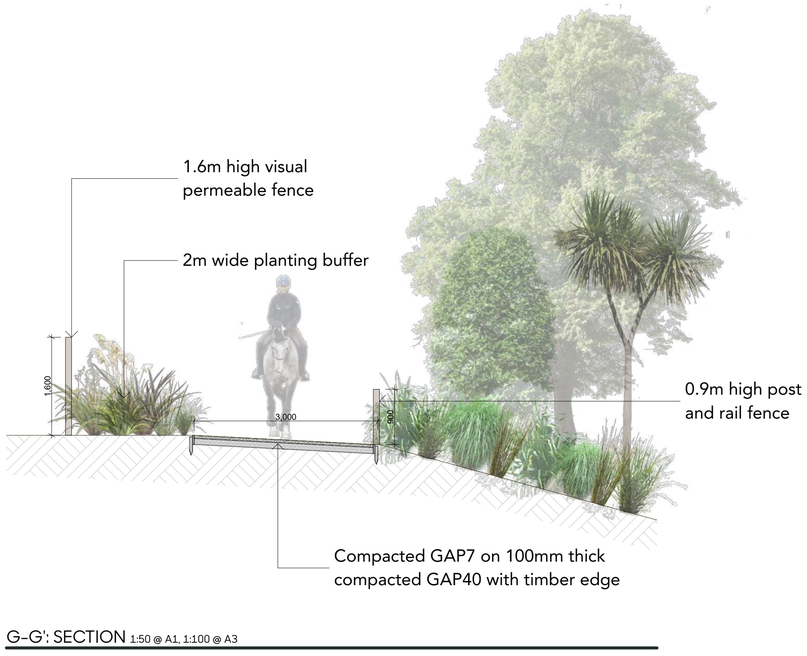
01/09/2023





G-G': SECTION 1:50 @ A1, 1:100 @ A3

H-H': SECTION 1:50 @ A1, 1:100 @ A3

Client Clevedon Properties Ltd	Project 62-80 Papakura Clevedon Road, Clevedon, Auckland	Drawing 220214/32 Bridle Trail Cross Sections	Issue Date 16/06/23 Issue F	Drawn TX Checked MB	greenwood associates	