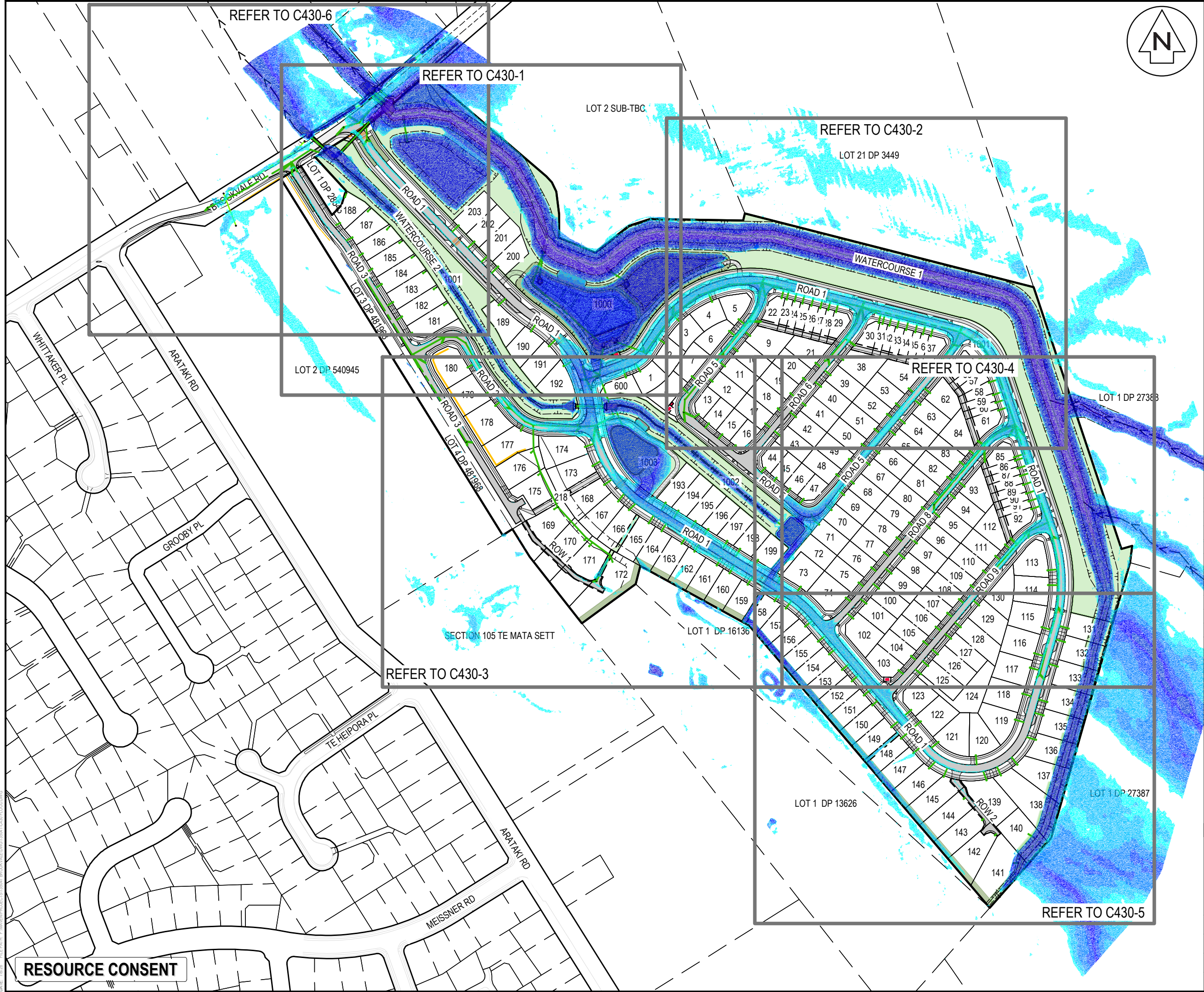




- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 4. ORIGIN OF LEVELS = IT IV SO1837 SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
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2	0.100	0.200	
3	0.200	0.300	
4	0.300	0.400	
5	0.400	0.500	
6	0.500	1.000	
7	1.000	2.000	
8	2.000	3.000	

- LEGEND
- EX BDY ABUTTAL
 - PROP BDY
 - EX STORMWATER
 - PR PUBLIC STORMWATER
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PROP SWCP DOUBLE
 - PR LOT CONNECTION
 - WATERCOURSE
 - PR RAIN GARDEN
 - PR WETLAND
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

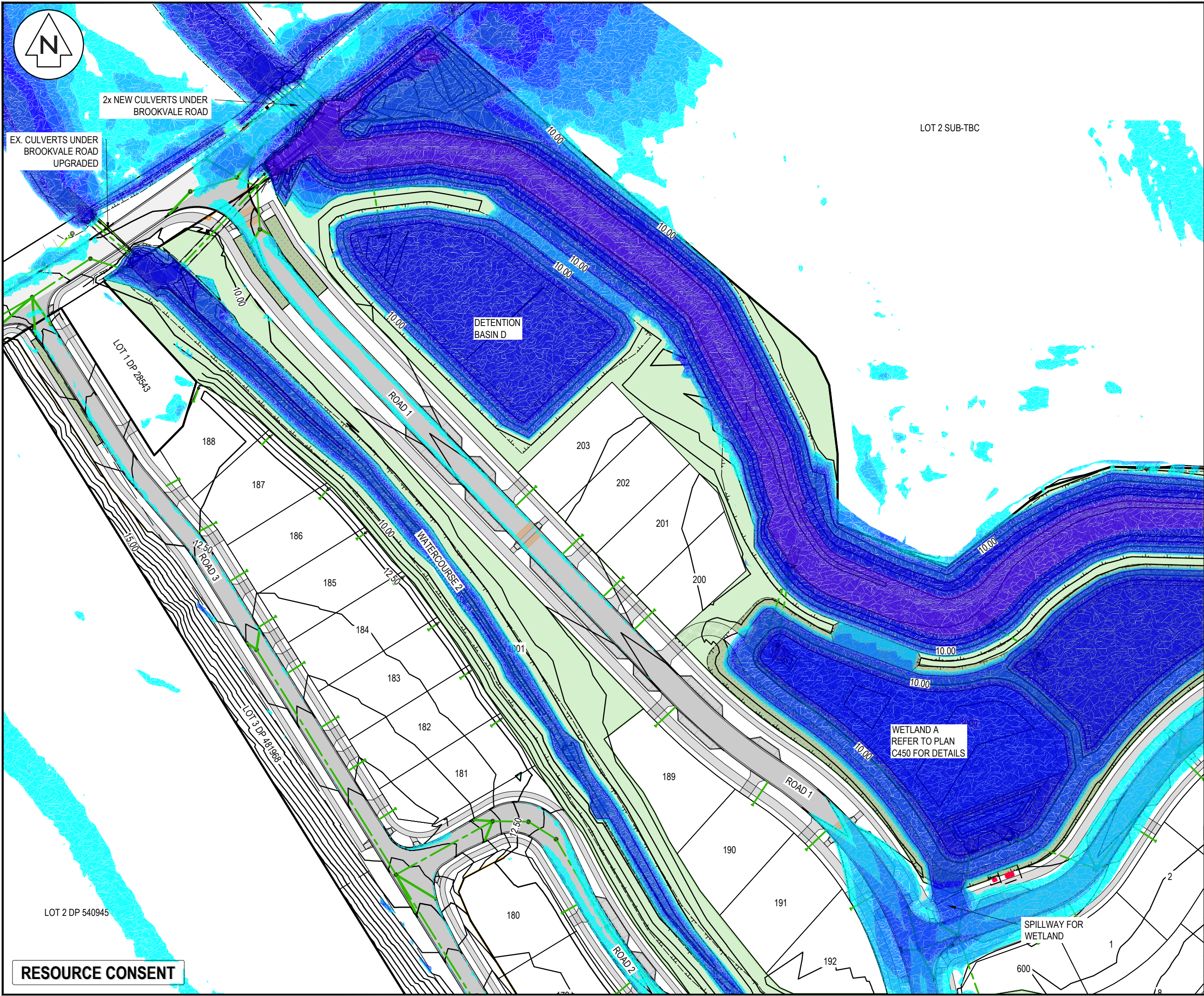
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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041
Scale	1:3000 @ A3
Cad file	135041-C430 FLOOD.DWG
Drawing no.	C430-0
Rev	A

RESOURCE CONSENT



NOTES

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7	1.000	2.000	
8	2.000	3.000	

LEGEND

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- PROP BDY
- EX STORMWATER
- PR PUBLIC STORMWATER
- EX/PROP SWMH
- PROP SWCP SINGLE
- PROP SWCP DOUBLE
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Rev	Description	By	Date
A	SUBSTANTIVE APPLICATION	RH	06/2026

Survey	TECH SP	02/2025
Design	RH	06/2026
Drawn	RH	06/2026
Checked	BB	07/2026

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Project
**BROOKVALE GREEN
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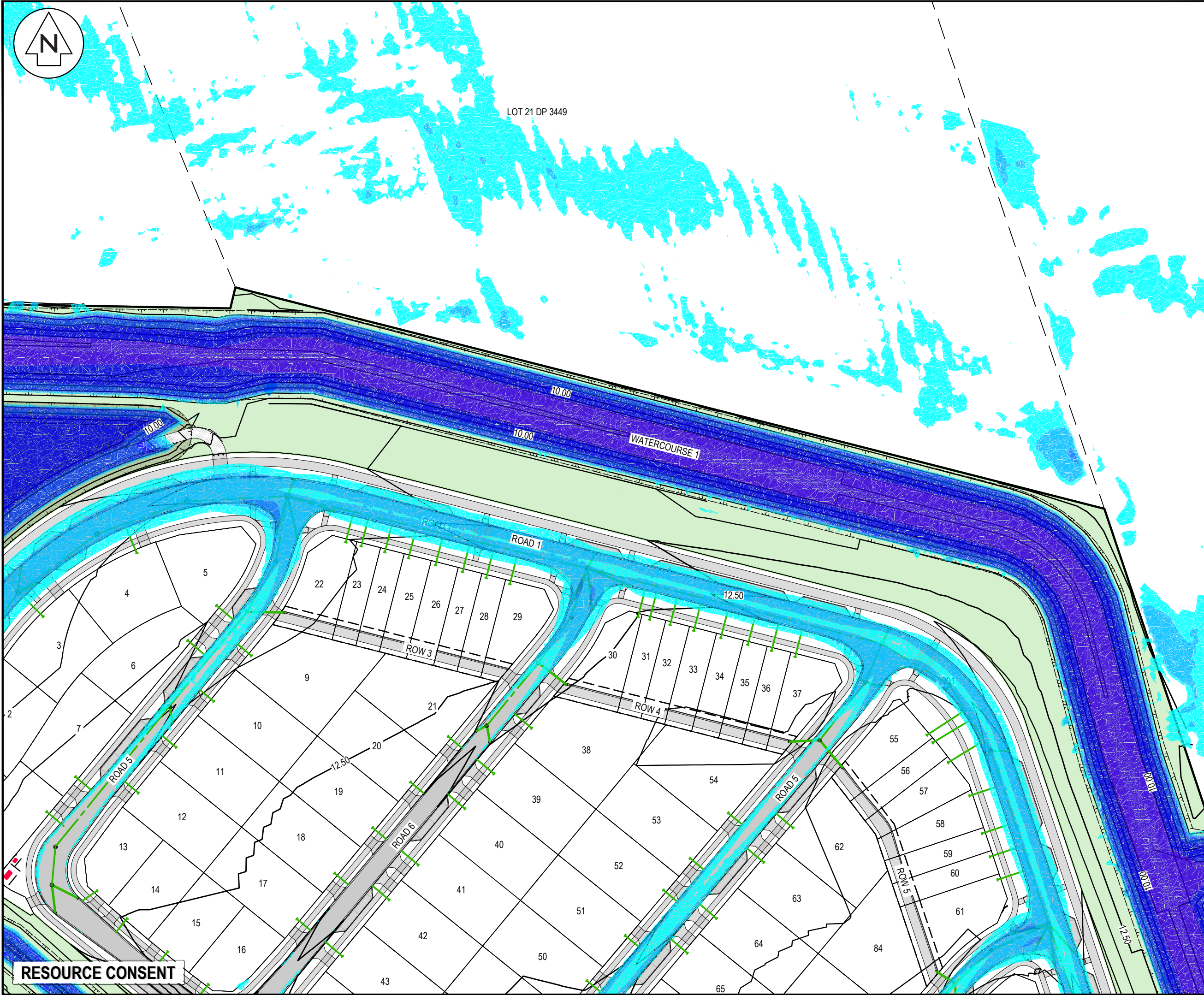
Title
**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C430 FLOOD.DWG
Drawing no.	C430-1

Rev	A
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DATE: 7/2026 FILE PATH: F:\MVEN\PROJECTS\135041 BROOKVALE.DWG\135041-C430 FLOOD.DWG

RESOURCE CONSENT



LOT 21 DP 3449

RESOURCE CONSENT

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
---	EX STORMWATER
---	PR PUBLIC STORMWATER
○	EX/PROP SWMH
□	PROP SWCP SINGLE
□	PROP SWCP DOUBLE
→	PR LOT CONNECTION
→	WATERCOURSE
■	PR RAIN GARDEN
■	PR WETLAND
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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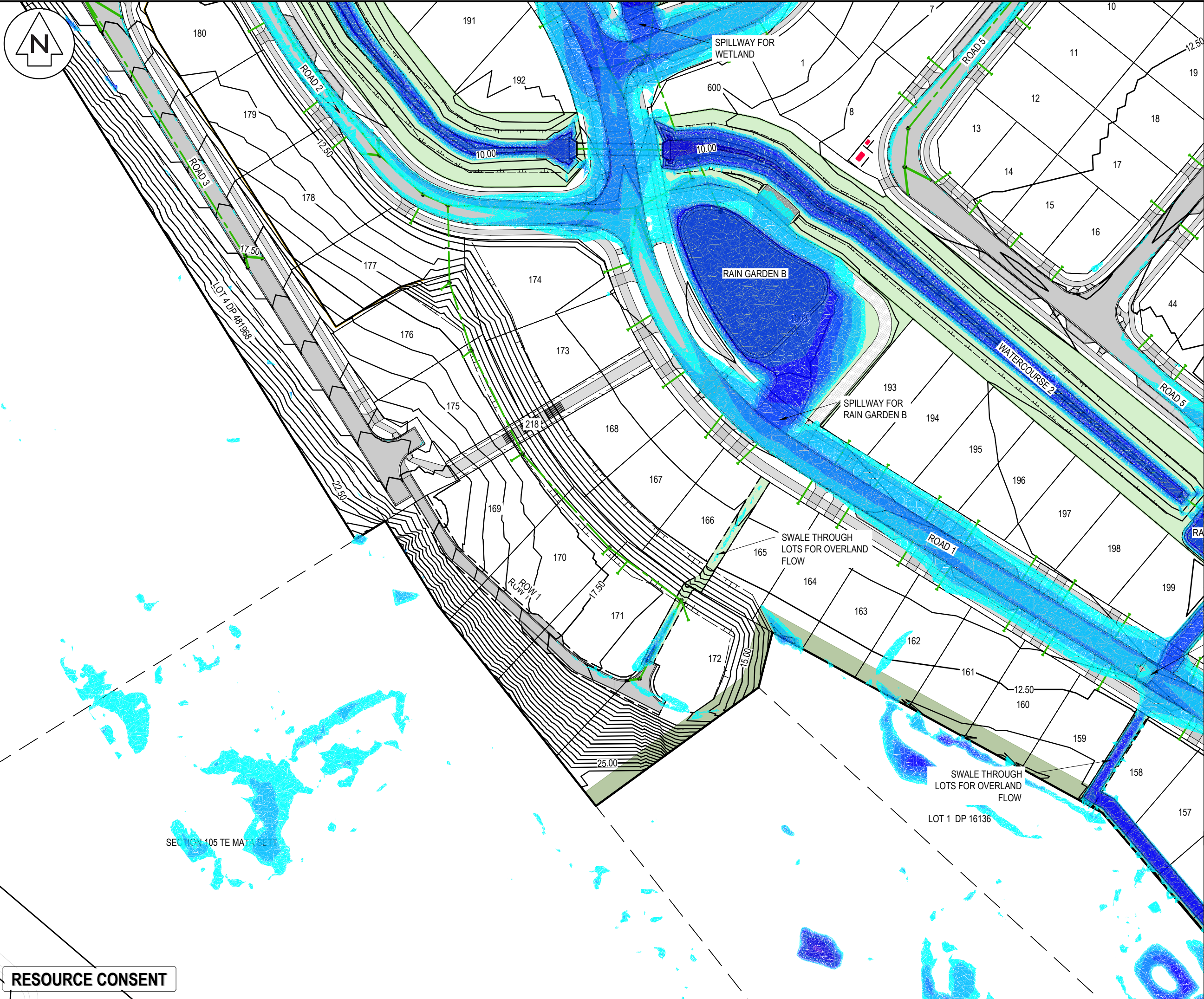
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C430 FLOOD.DWG		
Drawing no.	C430-2	Rev	A

DATE: 7/9/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C430 FLOOD.DWG



NOTES

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6	0.500	1.000	
7	1.000	2.000	
8	2.000	3.000	

LEGEND

- EX BDY ABUTTAL
- PROP BDY
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- PROP SWCP SINGLE
- PROP SWCP DOUBLE
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Rev	Description	By	Date
A	SUBSTANTIVE APPLICATION	RH	06/2026

Survey	TECH SP	02/2025
Design	RH	06/2026
Drawn	RH	06/2026
Checked	BB	07/2026

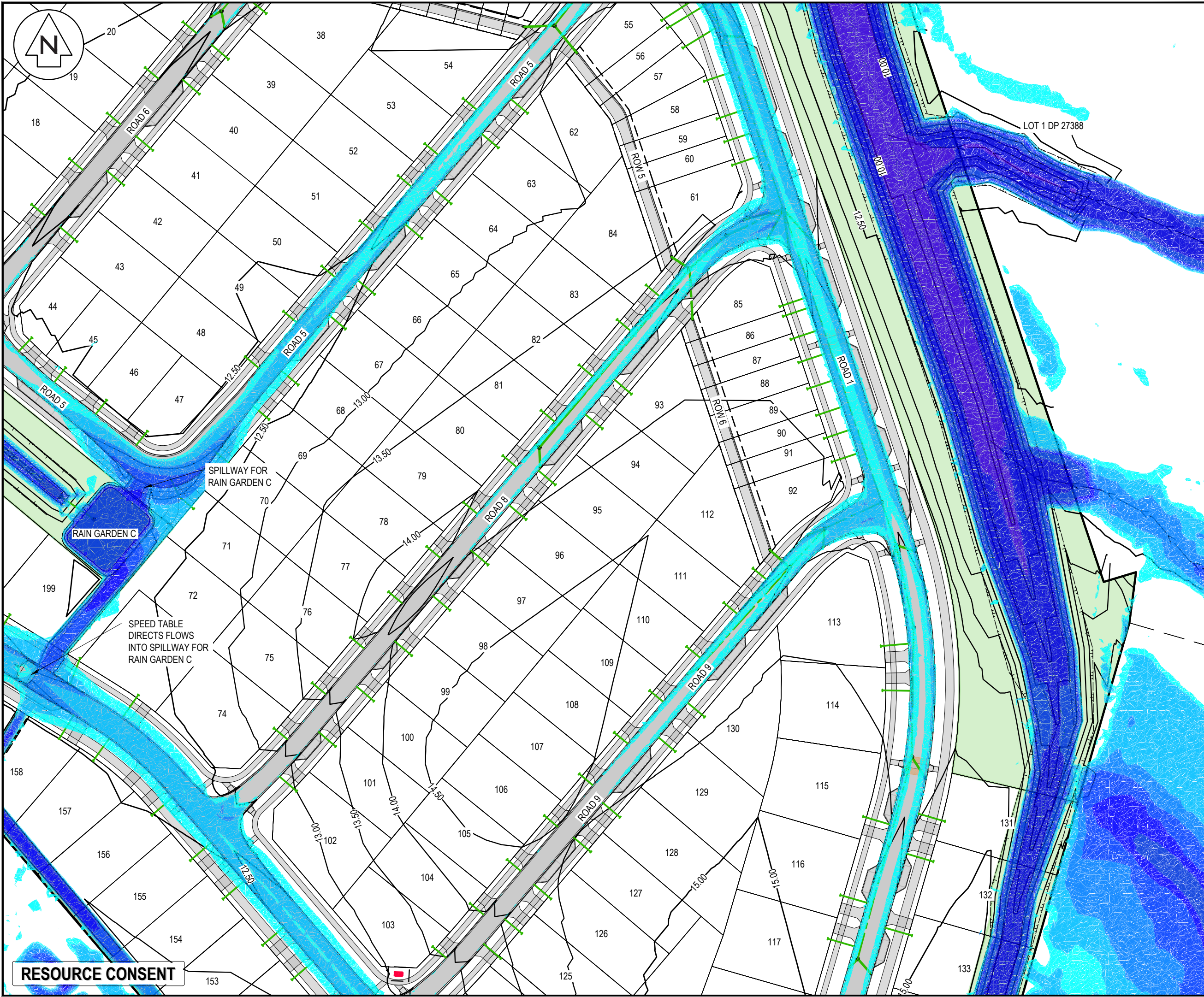
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C430 FLOOD.DWG		
Drawing no.	C430-3	Rev	A

RESOURCE CONSENT



NOTES

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7	1.000	2.000	
8	2.000	3.000	

LEGEND

EX BDY ABUTTAL

PROP BDY

EX STORMWATER

PR PUBLIC STORMWATER

EX/PROP SWMH

PROP SWCP SINGLE

PROP SWCP DOUBLE

PR LOT CONNECTION

WATERCOURSE

PR RAIN GARDEN

PR WETLAND

PR MAJOR CONTOUR

PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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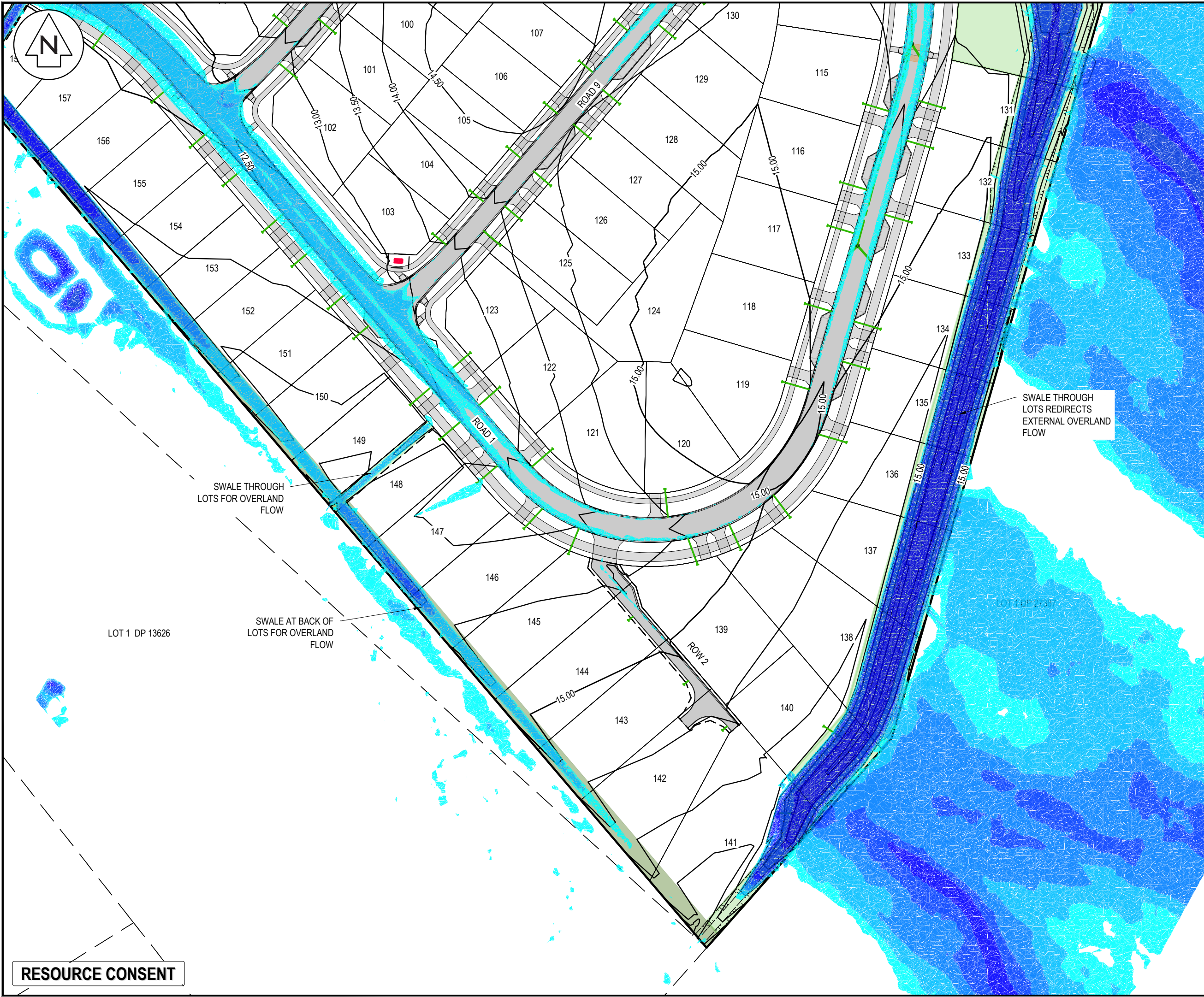
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C430 FLOOD.DWG		
Drawing no.	C430-4	Rev	A

DATE: 7/20/25 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\035041-C430 FLOOD.DWG



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
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○	EX/PROP SWMH
□	PROP SWCP SINGLE
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---	PR RAIN GARDEN
---	PR WETLAND
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A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C430 FLOOD.DWG		
Drawing no.	C430-5	Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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5	0.400	0.500	
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7	1.000	2.000	
8	2.000	3.000	

- LEGEND
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 - PROP BDY
 - EX STORMWATER
 - PR PUBLIC STORMWATER
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PROP SWCP DOUBLE
 - PR LOT CONNECTION
 - WATERCOURSE
 - PR RAIN GARDEN
 - PR WETLAND
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026



Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED 100YR
FLOOD MODEL
PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C430 FLOOD.DWG
Drawing no.	C430-6
Rev	A

2x NEW CULVERTS UNDER
BROOKVALE ROAD

EX. CULVERTS UNDER
BROOKVALE ROAD
UPGRADED

DETENTION
BASIN D

LOT 1 DP 28543

ROAD 1

WATERCOURSE 2

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BROOKVALE RD

ARATAKI RD

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LOT 1 DP 28543

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LOT 1 DP 28543

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LOT 1 DP 28543

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LOT 1 DP 28543



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837/SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
 5. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 6. LEGAL DESCRIPTION : LOT 1 & 2 DP 16311 , LOT 2 DP 7771, LOT 2 DP 529421

- LEGEND
- EX BDY ABUTTAL
 - PROP BDY
 - EX STORMWATER
 - PR PUBLIC STORMWATER
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PROP SWCP DOUBLE
 - PR LOT CONNECTION WATERCOURSE
 - PR RAIN GARDEN
 - PR WETLAND
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR

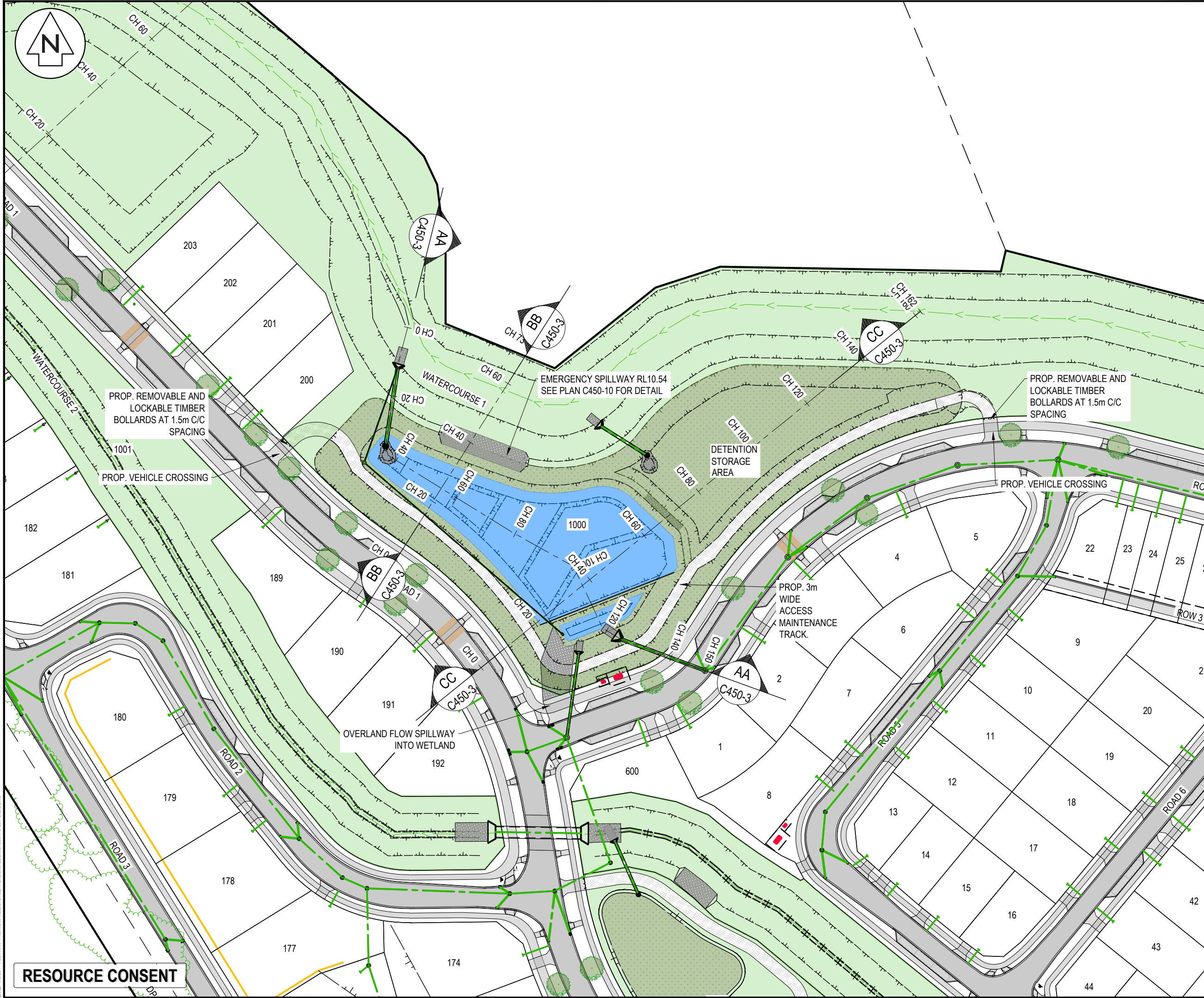
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED STORMWATER
DEVICE OVERVIEW
PLAN**

Project no.	135041
Scale	1:3000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-0
Rev	A



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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5. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
6. 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).
7. 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.
8. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
9. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
10. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
11. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 0.75M.
12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
13. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
---	EX STORMWATER
---	PR PUBLIC STORMWATER
○	EX/PROP SWMH
□	PROP SWCP SINGLE
□	PROP SWCP DOUBLE
→	PR LOT CONNECTION WATERCOURSE
■	PR RAIN GARDEN
■	PR WETLAND
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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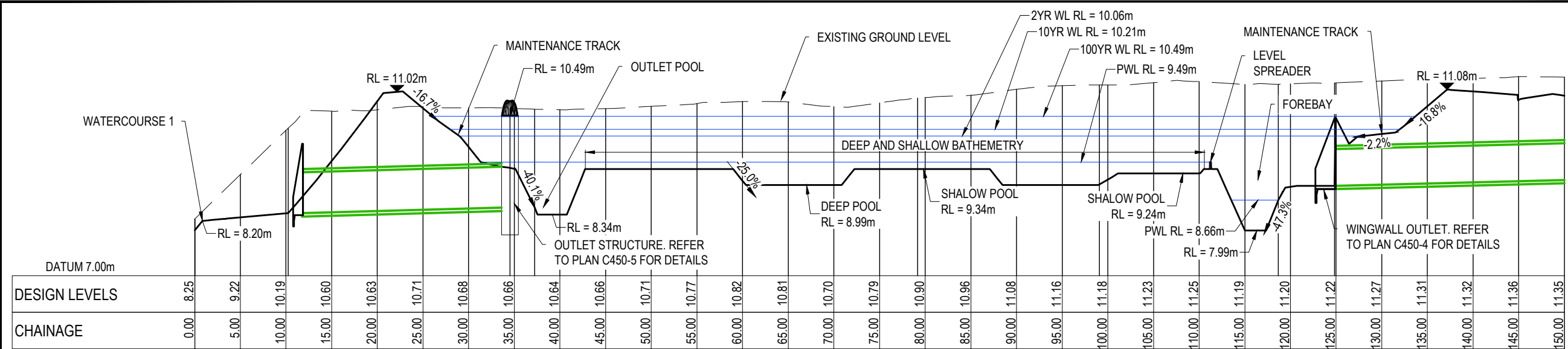
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A**

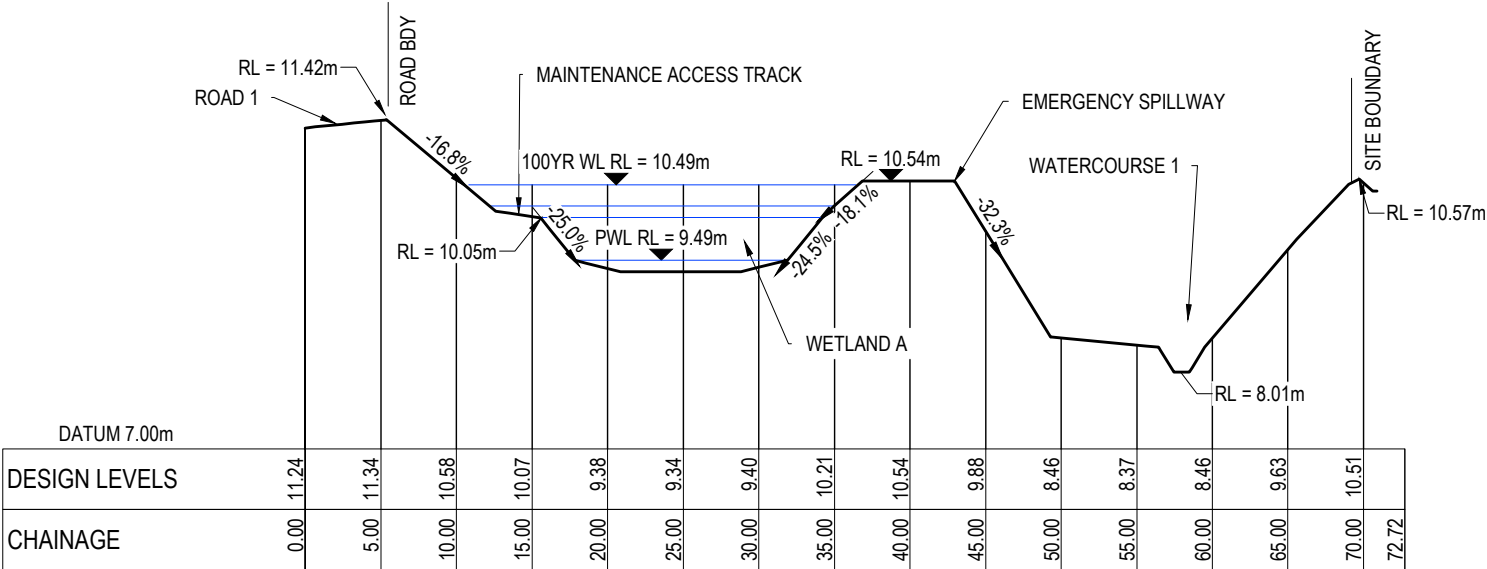
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Scale	1:1000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-1
Rev	A

DATE: 7/20/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG

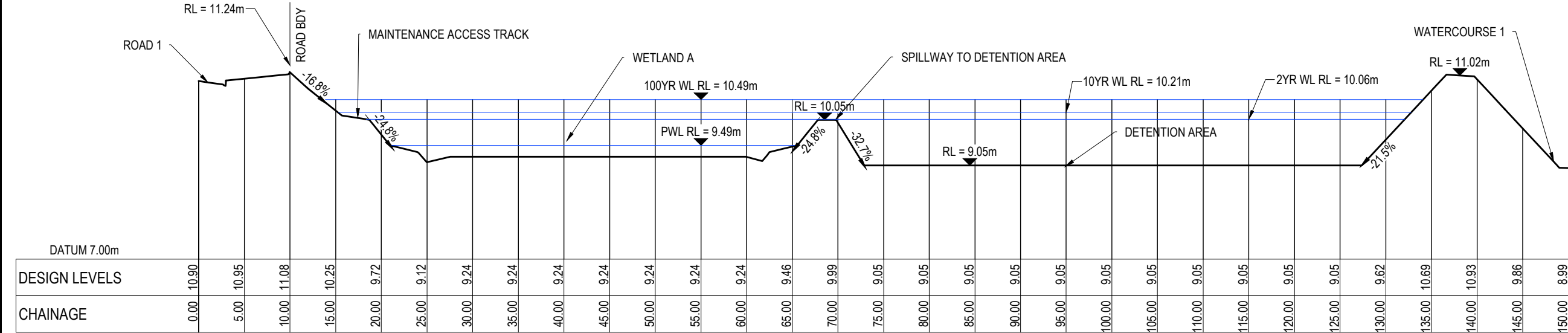
RESOURCE CONSENT



WETLAND A LONG SECTION AA
SCALE: HORI 1:25 VERT 1:5



WETLAND A CROSS SECTION BB
SCALE: HORI 1:25 VERT 1:5



WETLAND A CROSS SECTION CC
SCALE: HORI 1:25 VERT 1:5

LEGEND
--- EX GROUND LEVEL
--- PR GROUND LEVEL

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026



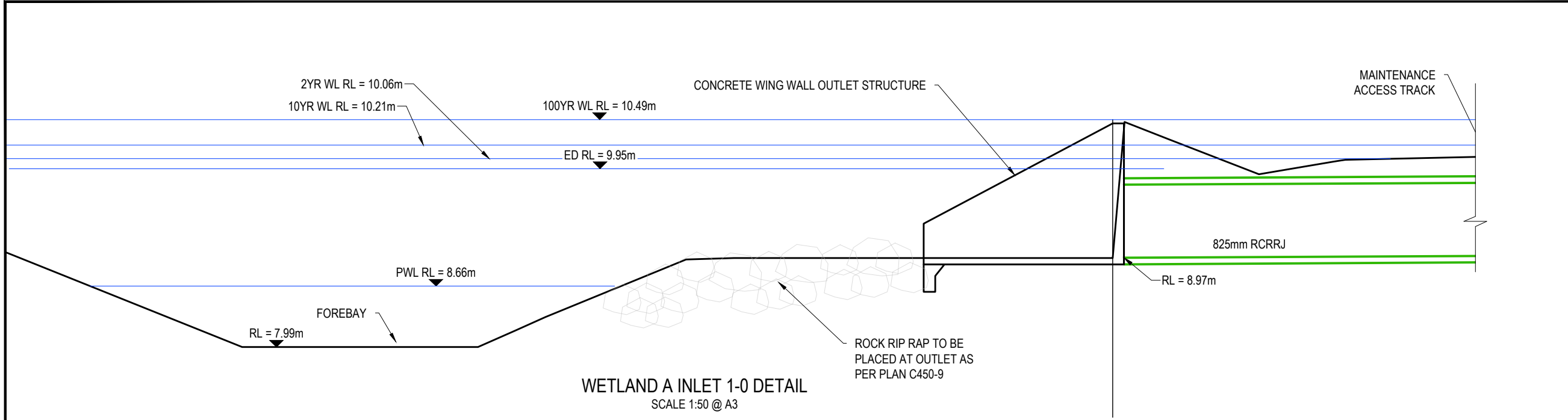
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
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PARTNERS NO. 4 LIMITED**

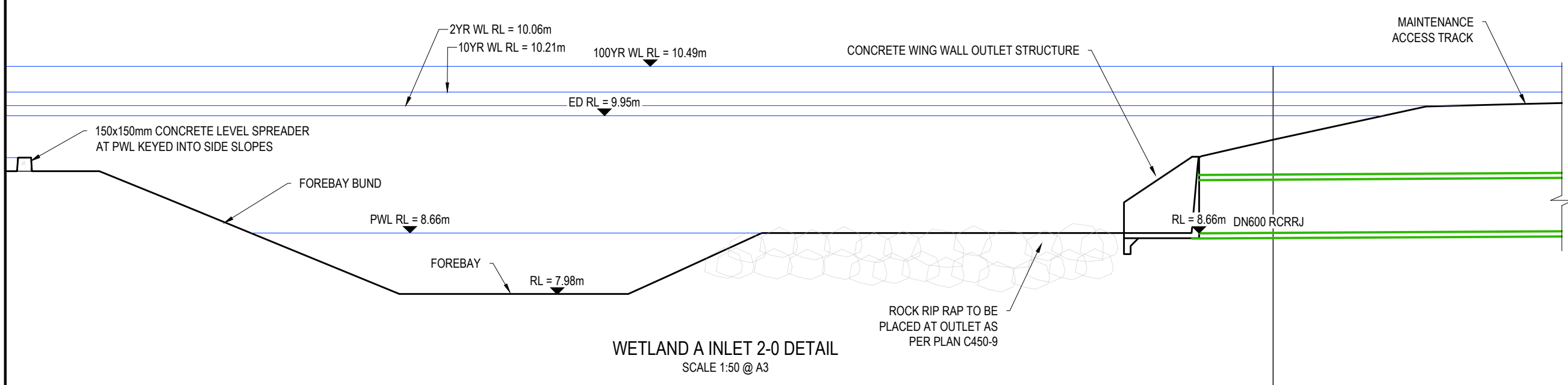
Title
**PROPOSED
WETLAND A
SECTIONS**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-3
Rev	A

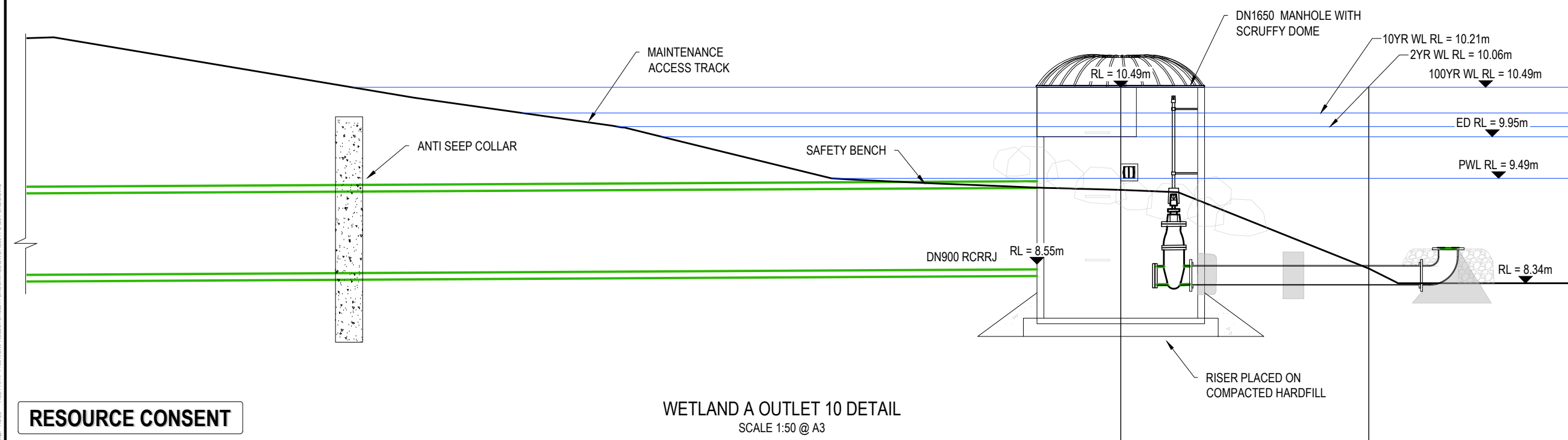
RESOURCE CONSENT



WETLAND A INLET 1-0 DETAIL
SCALE 1:50 @ A3



WETLAND A INLET 2-0 DETAIL
SCALE 1:50 @ A3



WETLAND A OUTLET 10 DETAIL
SCALE 1:50 @ A3

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

M **Maven Associates**
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www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

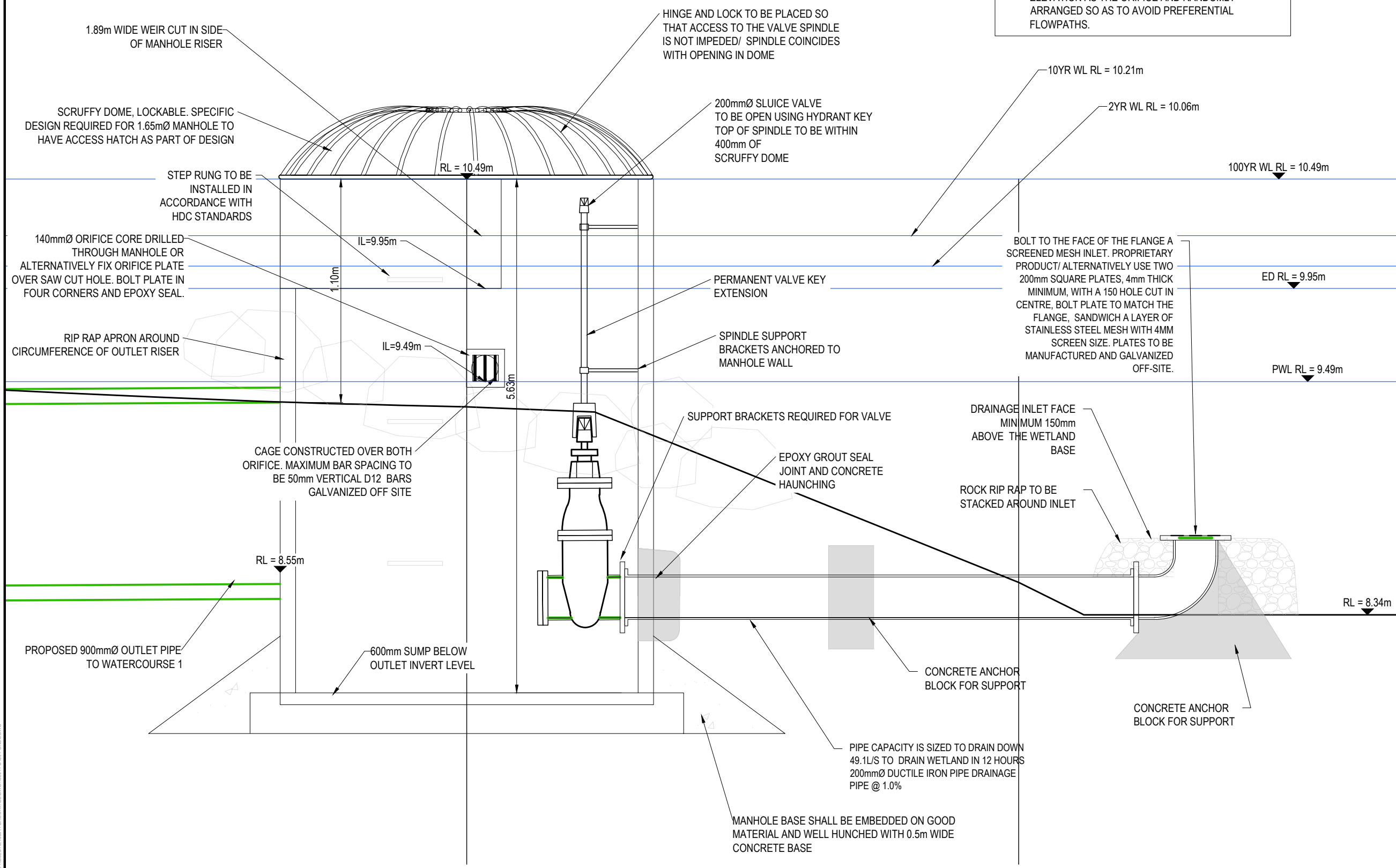
Title
**PROPOSED
WETLAND
OUTLET/INTLET DETAIL**

Project no.	135041
Scale	1:50 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-4
Rev	A

RESOURCE CONSENT

DATE: 7/2/25 FILEPATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C450 POND.DWG

- NOTES:
- OUTLET SURROUND**
- 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 AROUND THE OUTLET MANHOLE, THE TOP OF RIP RAP TO BE THE SAME ELEVATION AS THE ORIFICE AND RANDOMLY ARRANGED SO AS TO AVOID PREFERENTIAL FLOWPATHS.



A	SUBSTANTIVE APPLICATION	RH	06/2026
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Project
**BROOKVALE GREEN
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VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A
OUTLET 10-2 DETAIL**

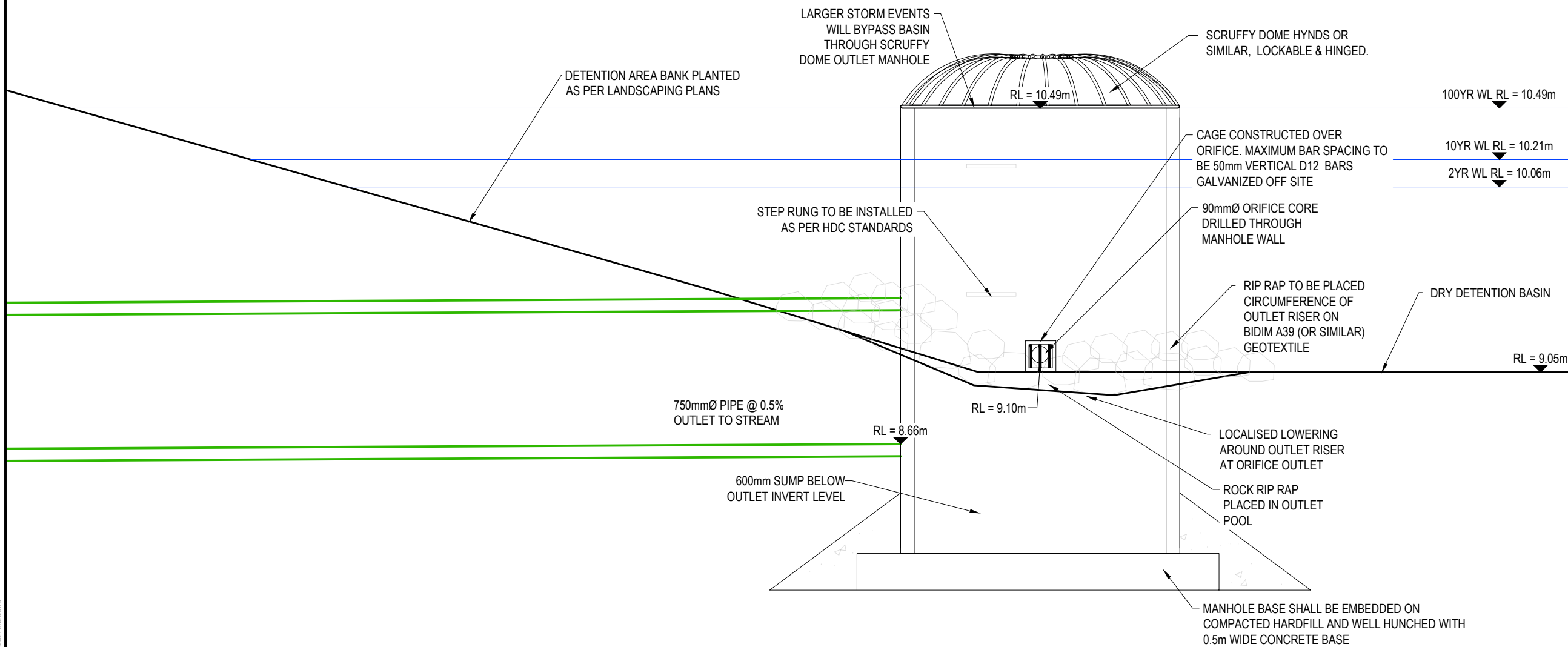
Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-5
Rev	A

WETLAND A OUTLET 10 DETAIL
SCALE 1:20 @ A3

DATE: 7/2/26 FILEPATH: F:\Maven\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG

DATE: 7/9/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C450 POND.DWG

RESOURCE CONSENT



WETLAND A OUTLET 22-2 DETAIL
SCALE 1:20 @ A3

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

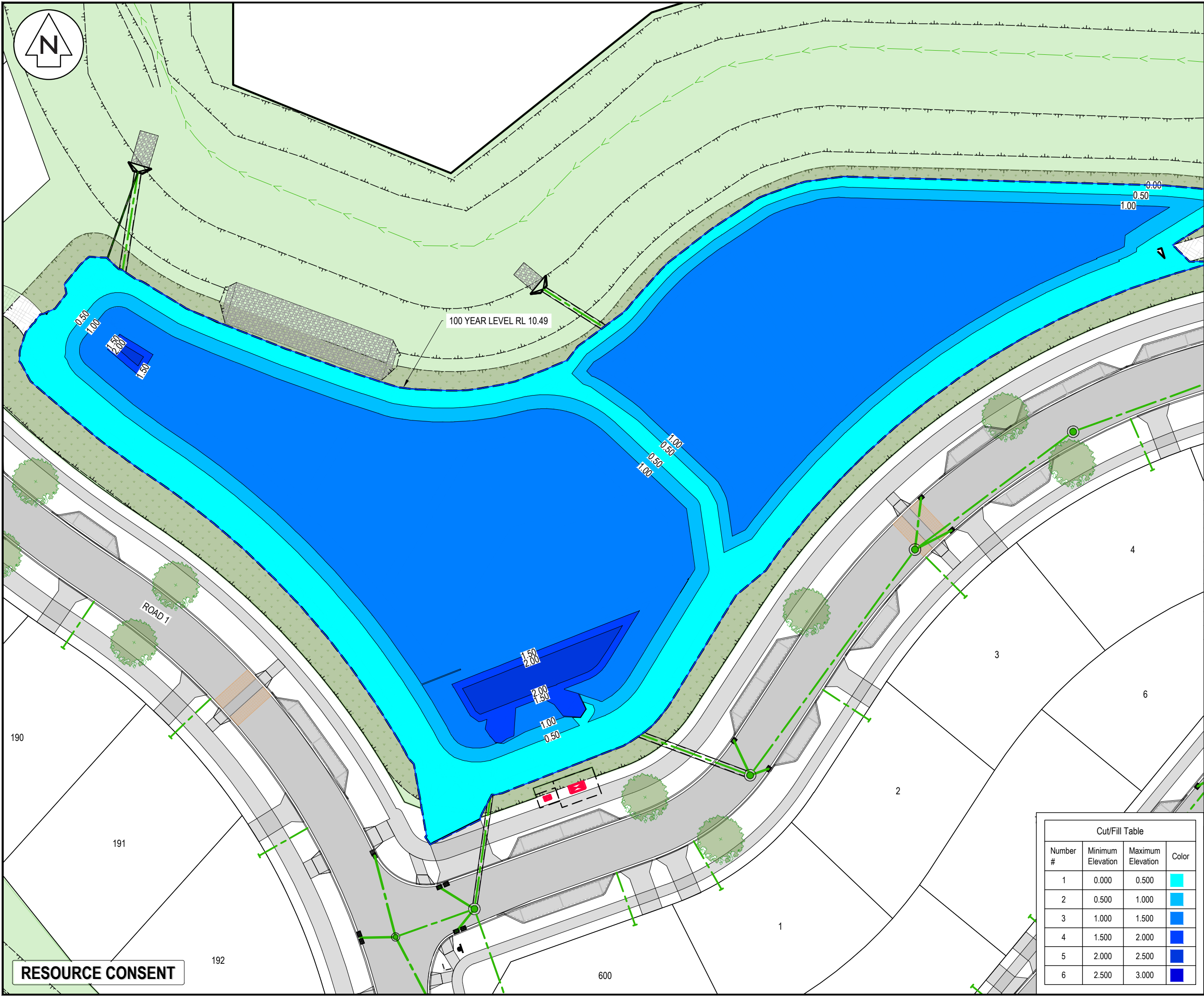


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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A
OUTLET 22-2 DETAIL**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C450 POND.DWG
Drawing no.	C450-6
Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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 4. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
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 12. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY ABUTTAL
 - PROP BDY
 - EX STORMWATER
 - PR PUBLIC STORMWATER
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PROP SWCP DOUBLE
 - PR LOT CONNECTION WATERCOURSE
 - PR RAIN GARDEN
 - PR WETLAND
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A 100YR
STORAGE VOLUME**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-7
Rev	A

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	0.000	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	

DATE: 7/9/26 FILEPATH: F:\MAVEN\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG

RESOURCE CONSENT

STAGE STORAGE TABLE (WETLAND ONLY)				
ELEV	AREA (sq. m)	DEPTH (m)	AVG END INC. VOL. (cu. m)	AVG END TOTAL VOL. (cu. m)
9.500	2,435.03	N/A	N/A	0.00
9.600	2,526.63	0.100	248.08	248.08
9.700	2,617.94	0.100	257.23	505.31
9.800	2,708.95	0.100	266.34	771.66
9.900	2,799.68	0.100	275.43	1047.09
10.000	5,046.45	0.100	392.31	1439.39

PWL

ED

STAGE STORAGE TABLE (COMBINED DETENTION)				
ELEV	AREA (sq. m)	DEPTH (m)	AVG END INC. VOL. (cu. m)	AVG END TOTAL VOL. (cu. m)
9.100	N/A	N/A	N/A	0
9.200	1516.2	0.100	148.68	148.68
9.300	1576.55	0.100	154.64	303.32
9.400	1638.46	0.100	160.75	464.07
9.500	4136.88	0.100	167.02	631.09
9.600	4293.33	0.100	421.51	1052.6
9.700	4450.92	0.100	437.21	1489.81
9.800	4609.64	0.100	453.02	1942.83
9.900	4769.52	0.100	468.96	2411.79
10.000	7086.86	0.100	592.82	3004.61
10.100	5548.51	0.100	529.75	3534.36
10.200	6000.39	0.100	577.45	4111.81
10.300	6195.50	0.100	609.79	4721.6
10.400	6392.49	0.100	629.4	5351
10.500	6605.51	0.100	649.9	6000.09
10.600	6845.53	0.100	672.55	6673.45
10.700	7052.75	0.100	694.91	7368.36
10.800	7240.12	0.100	714.64	8083
10.900	7325.38	0.100	728.27	8811.27
11.000	6833.79	0.100	368.44	9179.71

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Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	07/2026	

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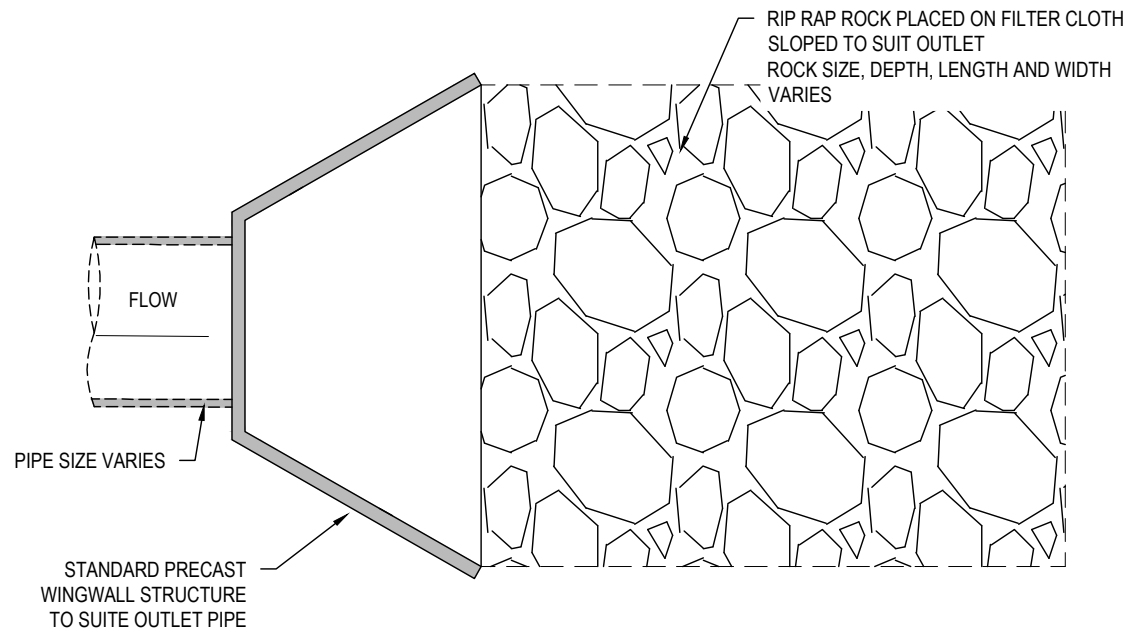
Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

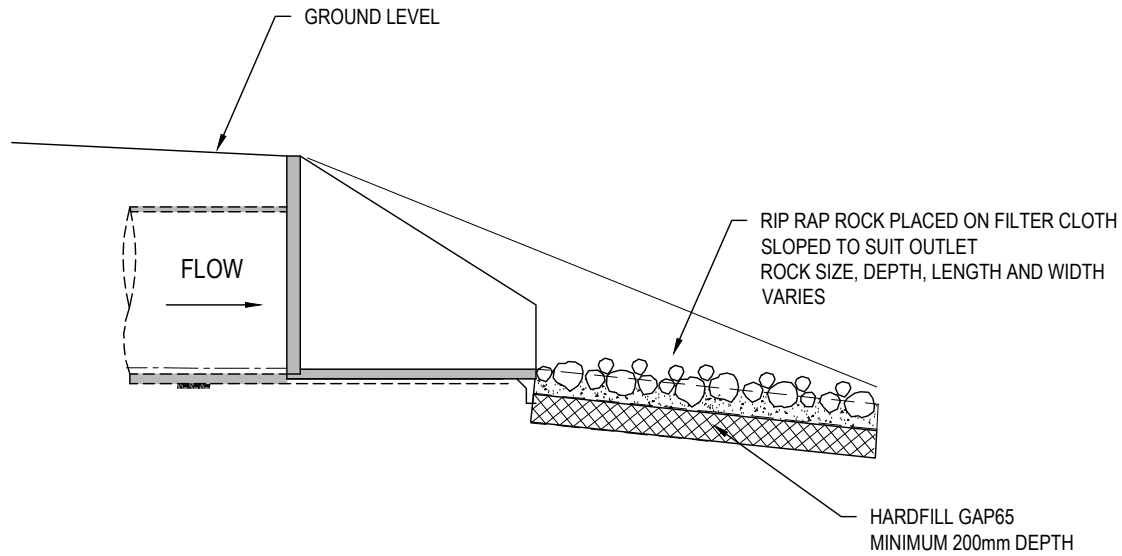
Title

**PROPOSED
WETLAND A
ELEVATION STORAGE**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C450 POND.DWG		
Drawing no.	C450-8	Rev	A



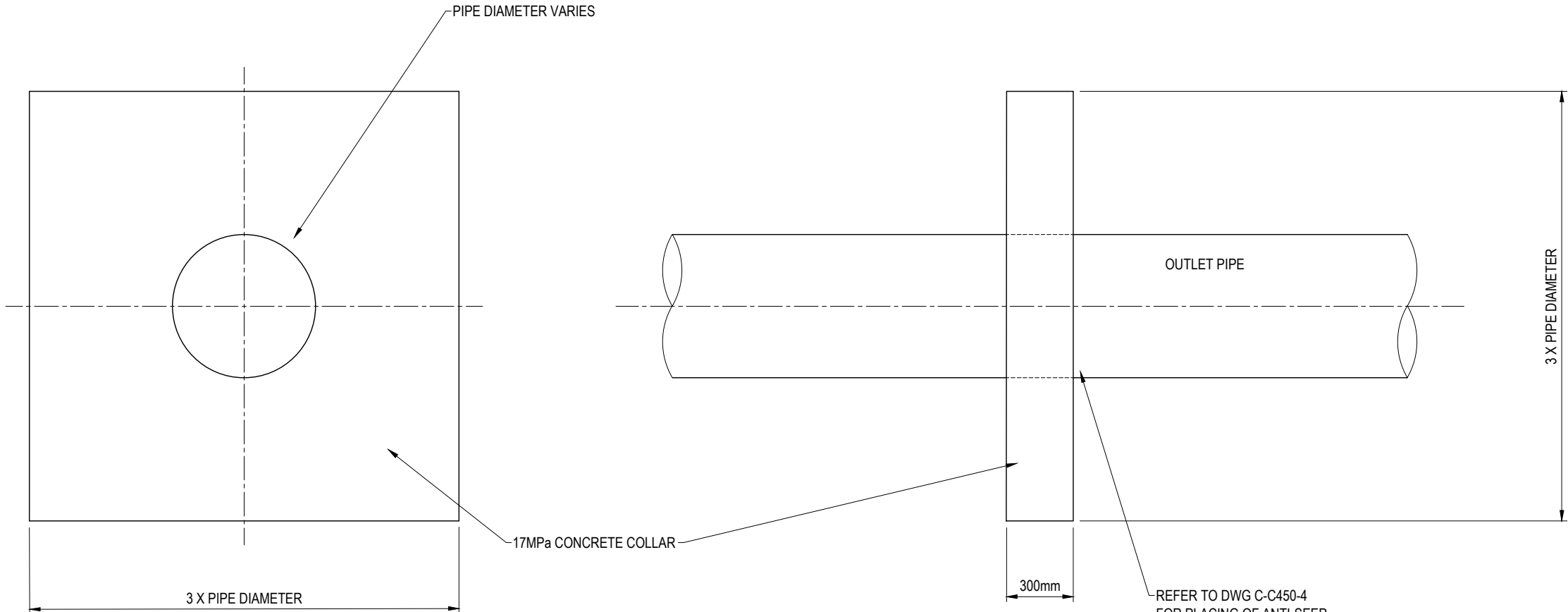
WETLAND A STORMWATER OUTLET STRUCTURE
SCALE: NTS



TYPICAL OUTLET STRUCTURE ELEVATION
SCALE: NTS

NOTES:
ANTI SEEP COLLARS

1. THE OUTLET PIPE SHALL HAVE A WATERTIGHT ANTI-SEEP COLLAR MADE OF 17.5MPa CONCRETE, SURROUNDED WITH CLAY - BENTONITE MIX BACKFILL MATERIAL.
2. THE GROUND SURROUNDING THE COLLAR SHALL BE WELL COMPACTED TO A MINIMUM DRY DENSITY OF 90%.
3. THE COLLAR SHALL EXTEND VERTICALLY INSIDE THE POND BANKS AS DETAILED ON THE DRAWINGS.



RESOURCE CONSENT

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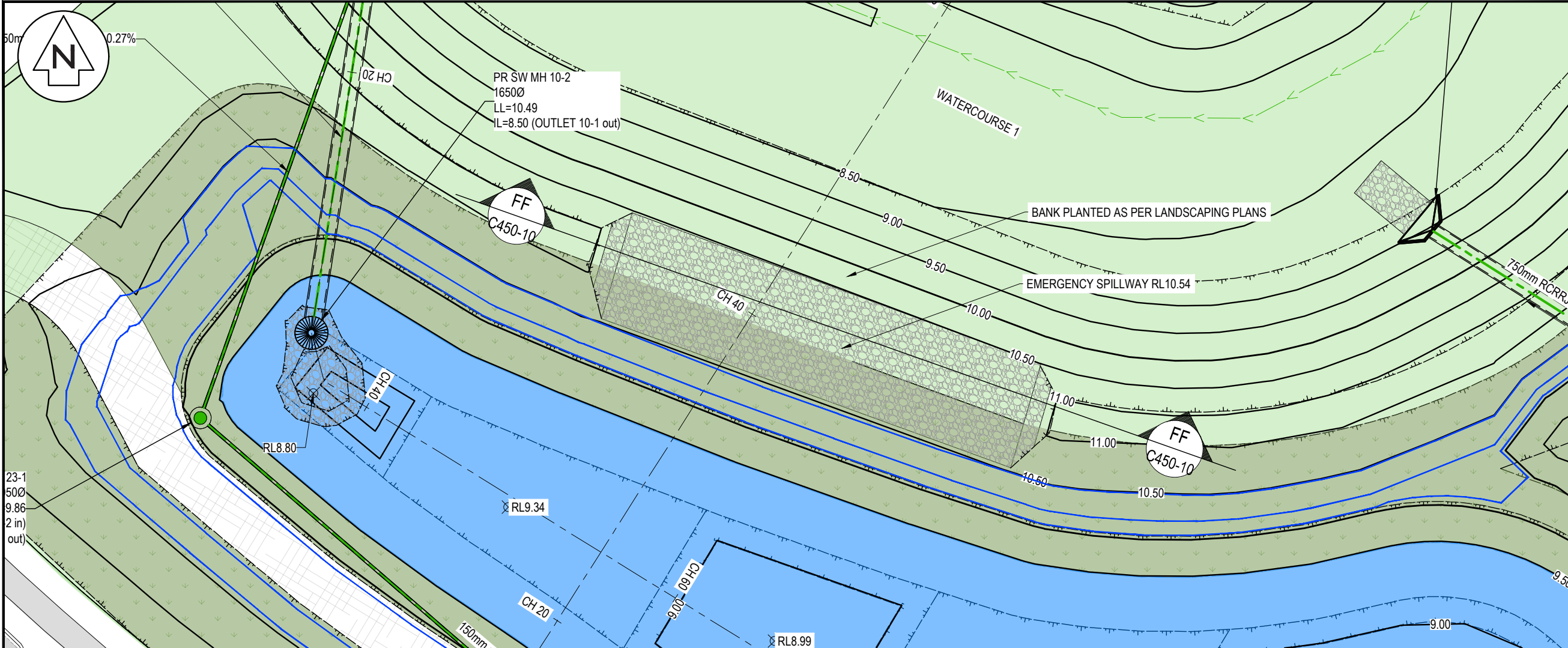
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
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Survey	TECH SP		02/2025
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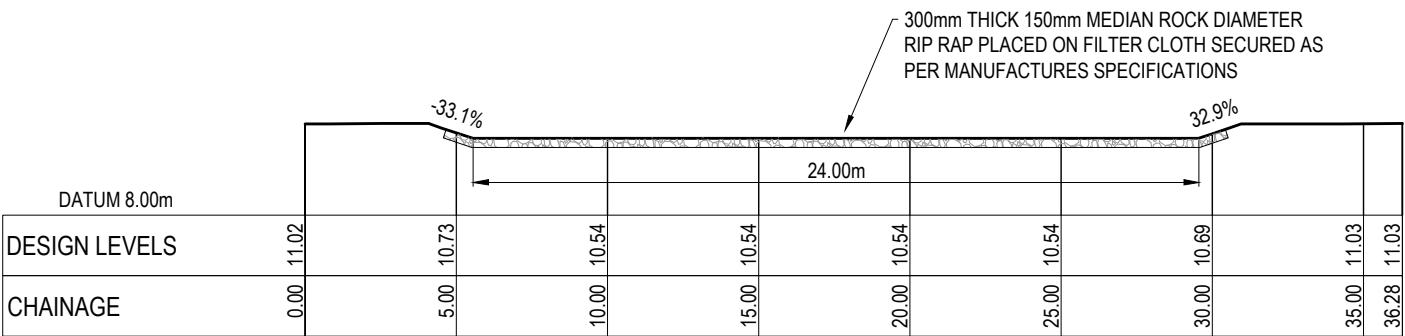
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A
DETAILS**

Project no.	135041
Scale	1:10 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-9
Rev	A



- NOTES
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 - PROP SWCP DOUBLE
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 - PR WETLAND
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A	SUBSTANTIVE APPLICATION	RH	06/2026
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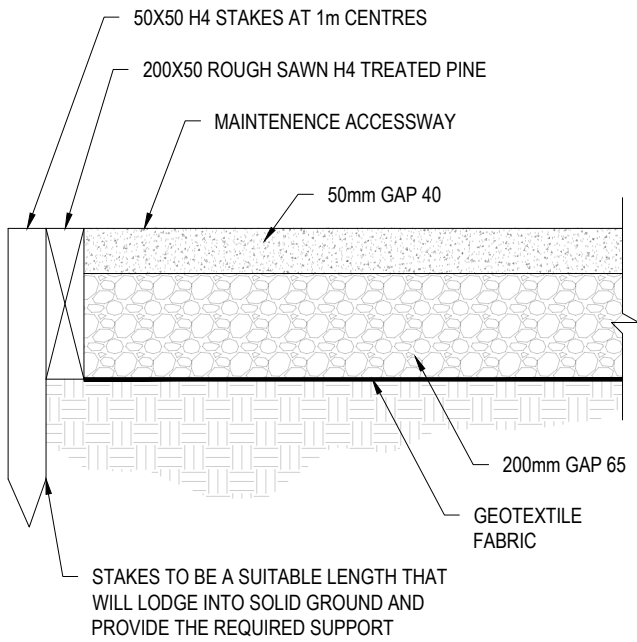


Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WETLAND A
EMERGENCY SPILLWAY**

Project no.	135041
Scale	1:250 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-10
Rev	A

RESOURCE CONSENT



TYPICAL ACCESSWAY CROSS SECTION EE
SCALE: 1:10

- NOTES
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 - PR MINOR CONTOUR

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	By	Date	
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M

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Project

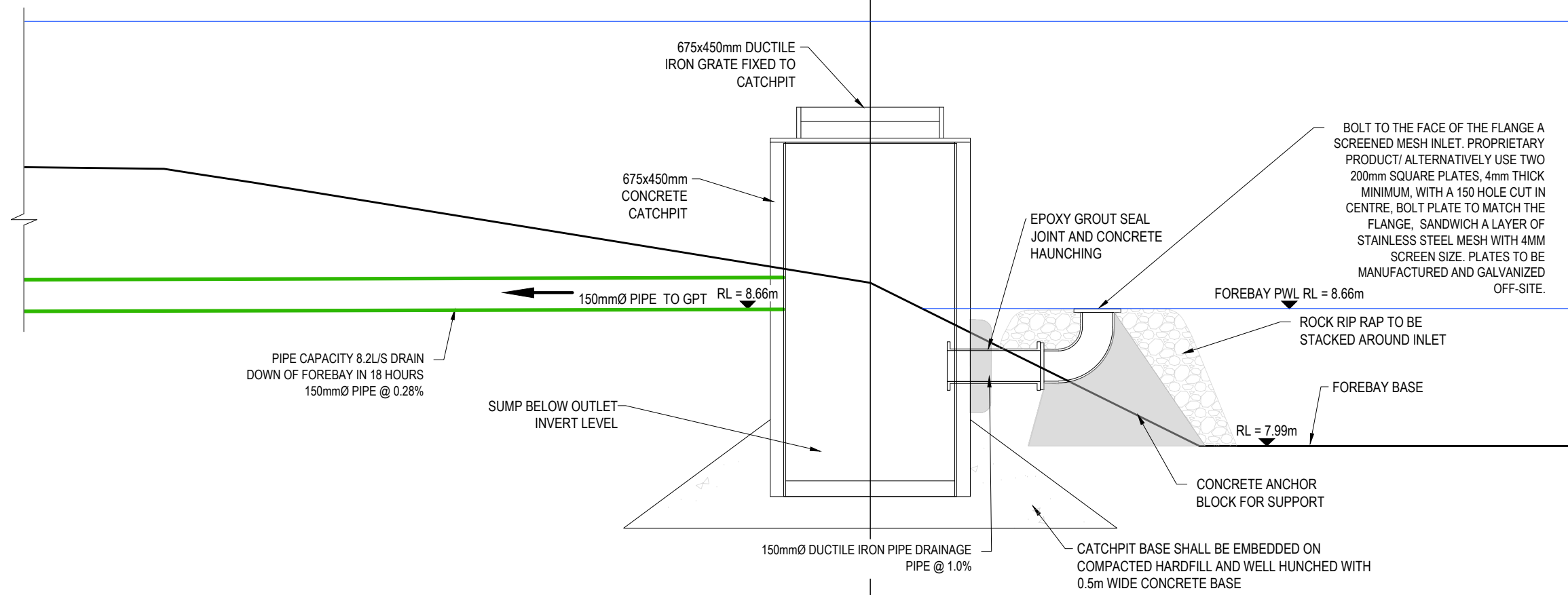
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

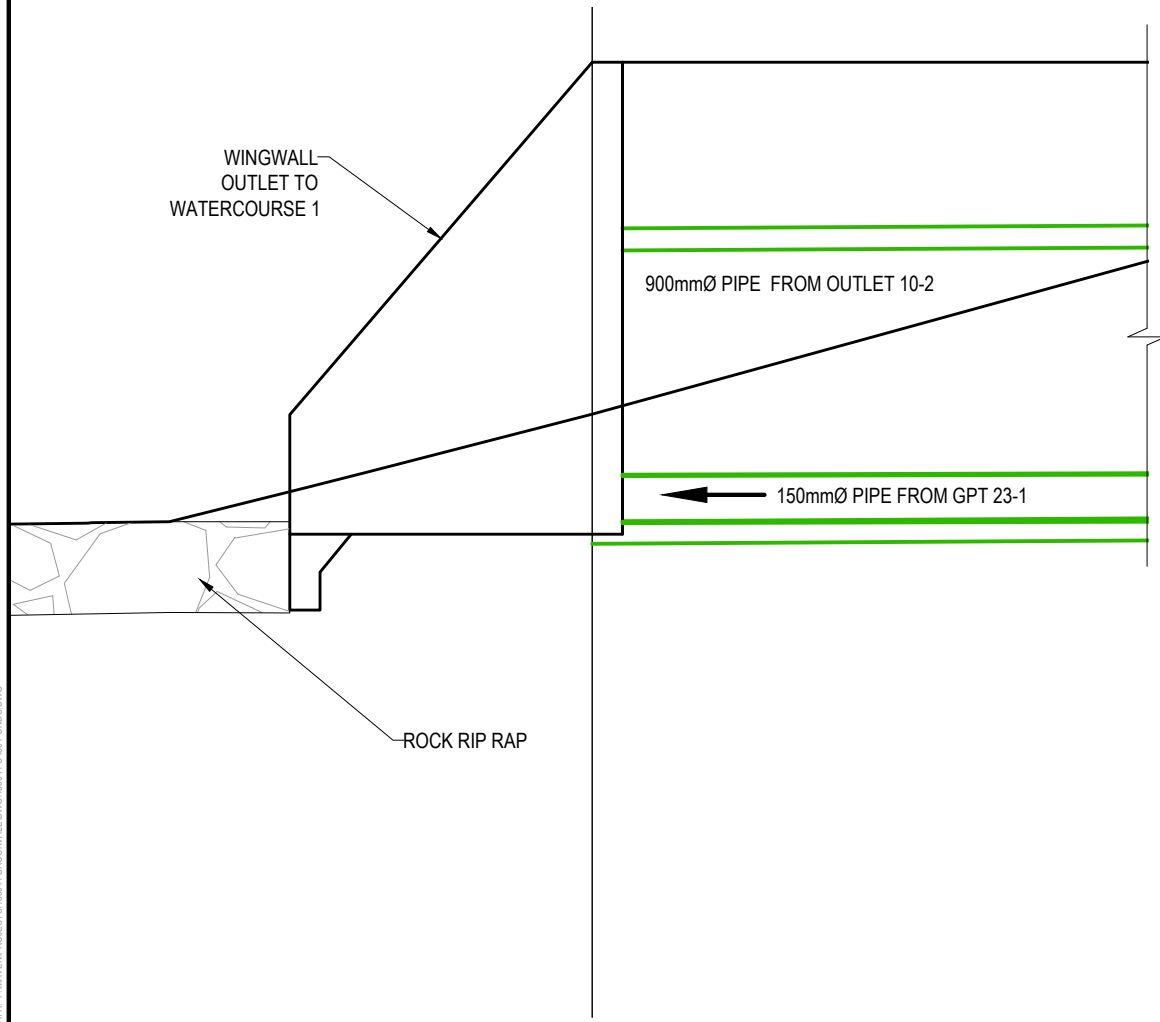
**PROPOSED
MAINTENANCE ACCESS
DETAIL**

Project no.	135041		
Scale	1:10 @ A3		
Cad file	135041-C450 PONDS.DWG		
Drawing no.	C450-11	Rev	A

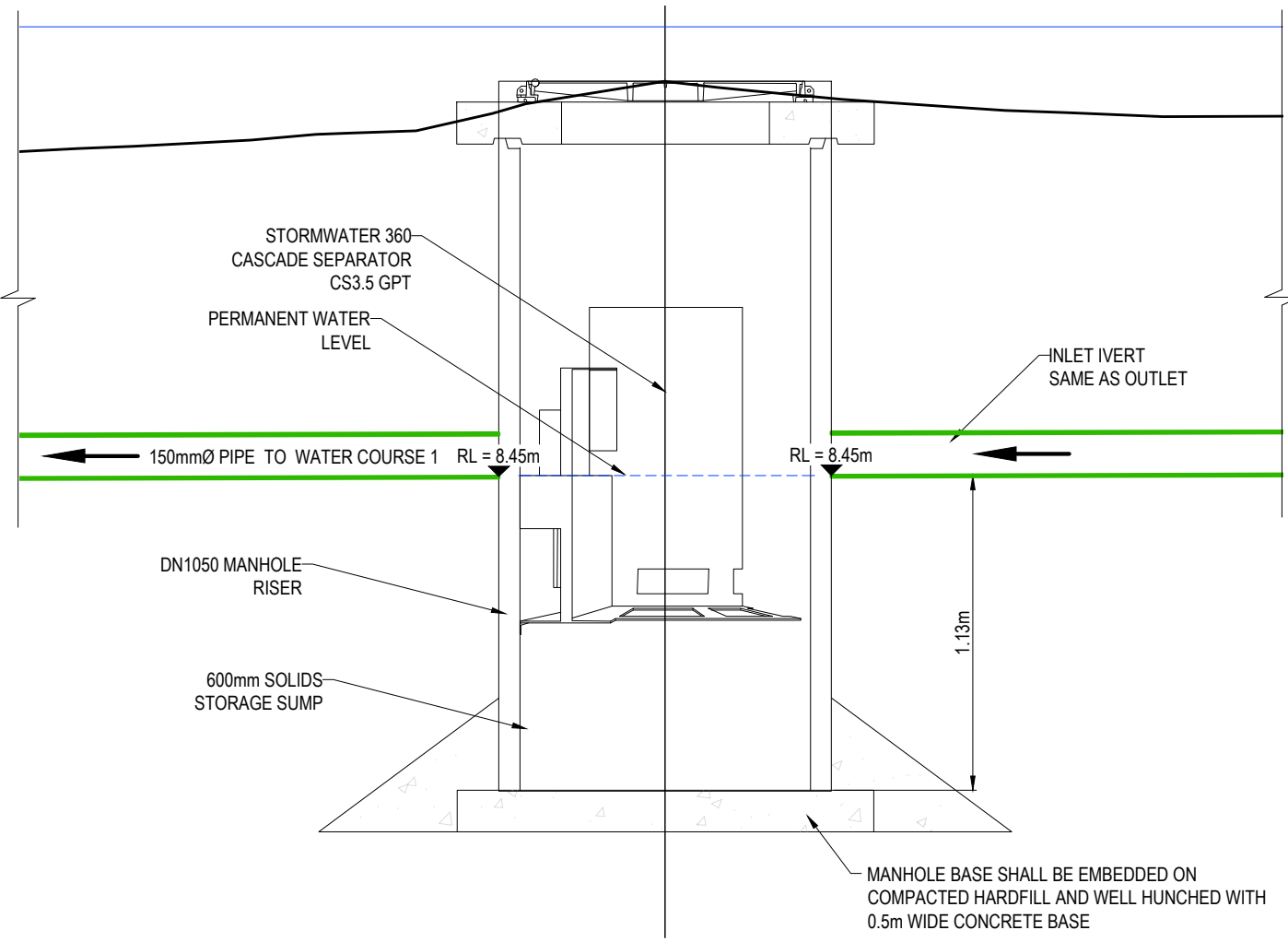
RESOURCE CONSENT



WETLAND A FOREBAY DRAIN
DOWN INLET 23-2 DETAIL
SCALE 1:25 @ A3



WETLAND A OUTLET 10-1 DETAIL
SCALE 1:25 @ A3



WETLAND A GPT 23-1 DETAIL
SCALE 1:25 @ A3

A	SUBSTANTIVE APPLICATION	RH	06/2026
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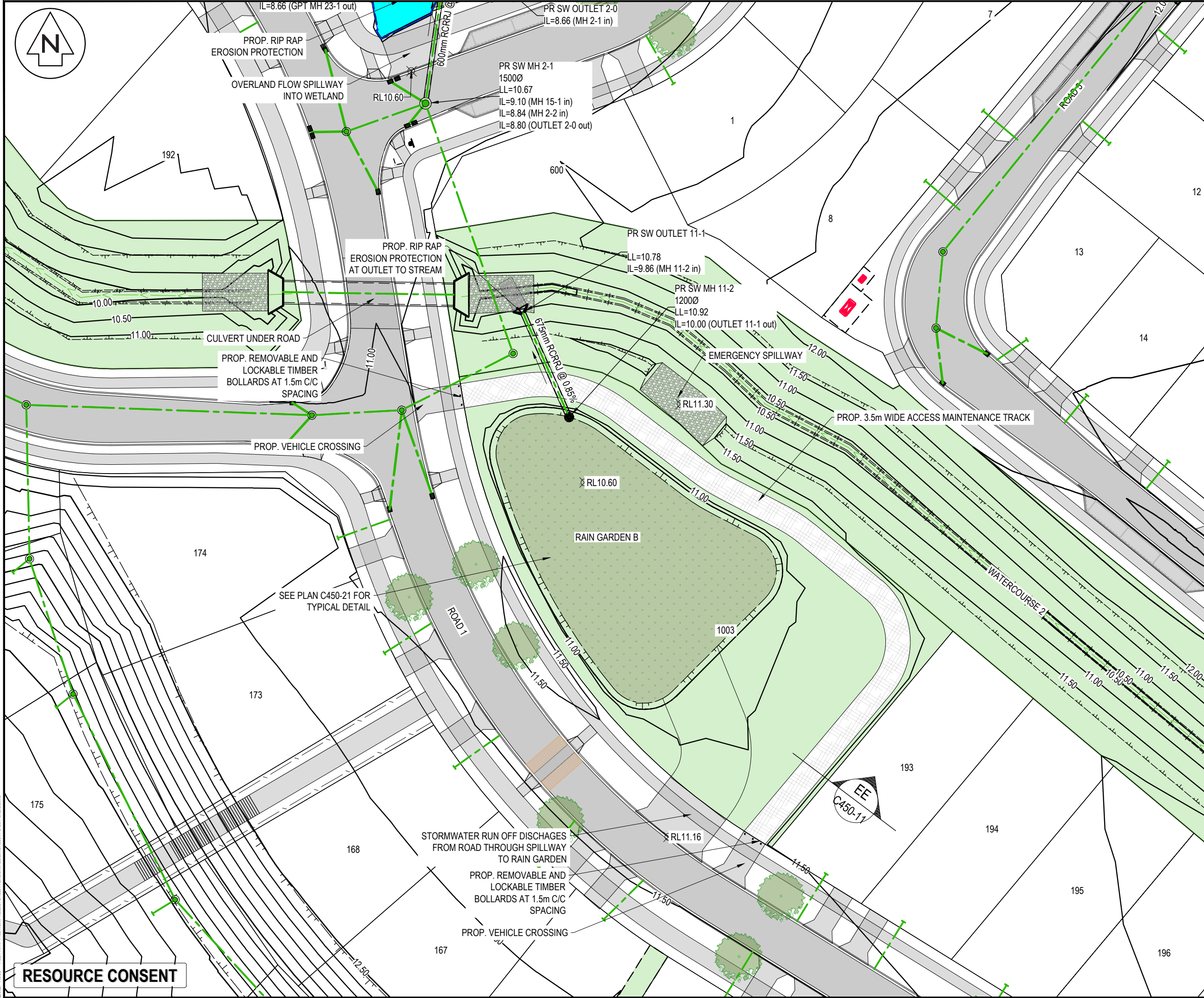
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED WETLAND A
FOREBAY DRAIN DOWN
DETAIL**

Project no.	135041
Scale	1:25 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-12
Rev	A

RESOURCE CONSENT

DATE: 7/9/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG



NOTES

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7. 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.
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9. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
10. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
11. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 0.75M.
12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
13. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
---	EX STORMWATER
---	PR PUBLIC STORMWATER
○	EX/PROP SWMH
○	PROP SWCP SINGLE
○	PROP SWCP DOUBLE
→	PR LOT CONNECTION WATERCOURSE
■	PR RAIN GARDEN
■	PR WETLAND
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

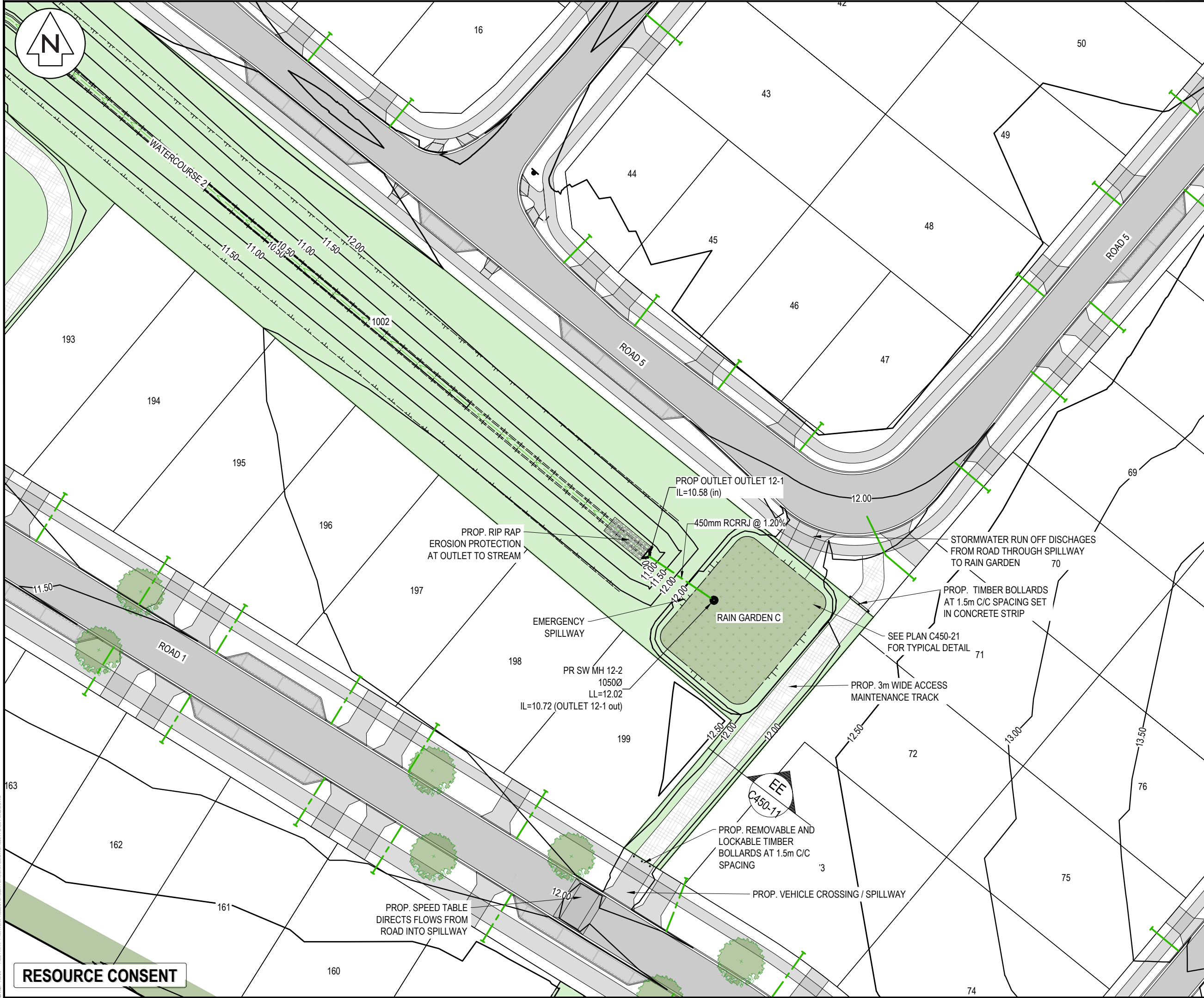
Title

**PROPOSED
RAIN GARDEN B**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C450 PONDS.DWG		
Drawing no.	C450-15	Rev	A

DATE: 7/20/26 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE GREEN\135041-C450 POND.DWG

RESOURCE CONSENT



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
3. ORIGIN OF LEVELS = IT IV SO1837 SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
5. 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).
6. 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.
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10. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 0.75M.
11. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
12. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

---	EX BDY ABUTTAL
---	PROP BDY
---	EX STORMWATER
---	PR PUBLIC STORMWATER
○	EX/PROP SWMH
□	PROP SWCP SINGLE
□	PROP SWCP DOUBLE
→	PR LOT CONNECTION WATERCOURSE
■	PR RAIN GARDEN
■	PR WETLAND
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Auckland 1023

Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

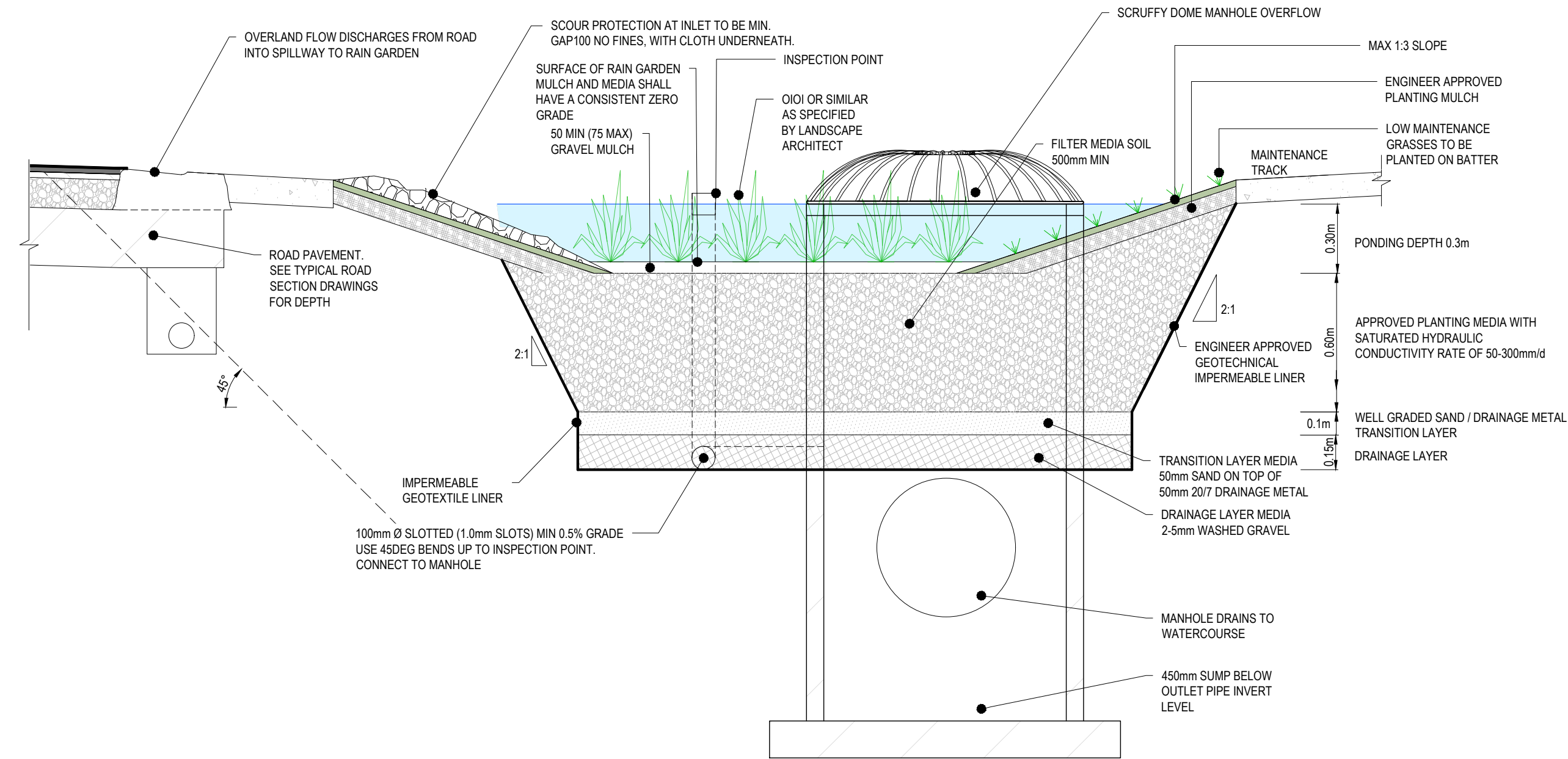
**PROPOSED
RAIN GARDEN C**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C450 PONDS.DWG		
Drawing no.	C450-20	Rev	A

DATE: 7/20/26 FILE PATH: F:\MVEN\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG

RESOURCE CONSENT

DATE: 7/9/25 FILE PATH: F:\Maven\PROJECTS\135041 BROOKVALE.DWG\135041-C450 POND.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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---	EX BDY ABUTTAL
---	PROP BDY
---	EX STORMWATER
---	PR PUBLIC STORMWATER
○	EX/PROP SWMH
○	PROP SWCP SINGLE
○	PROP SWCP DOUBLE
→	PR LOT CONNECTION WATERCOURSE
■	PR RAIN GARDEN
■	PR WETLAND
---	PR MAJOR CONTOUR
---	PR MINOR CONTOUR

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Auckland 1023

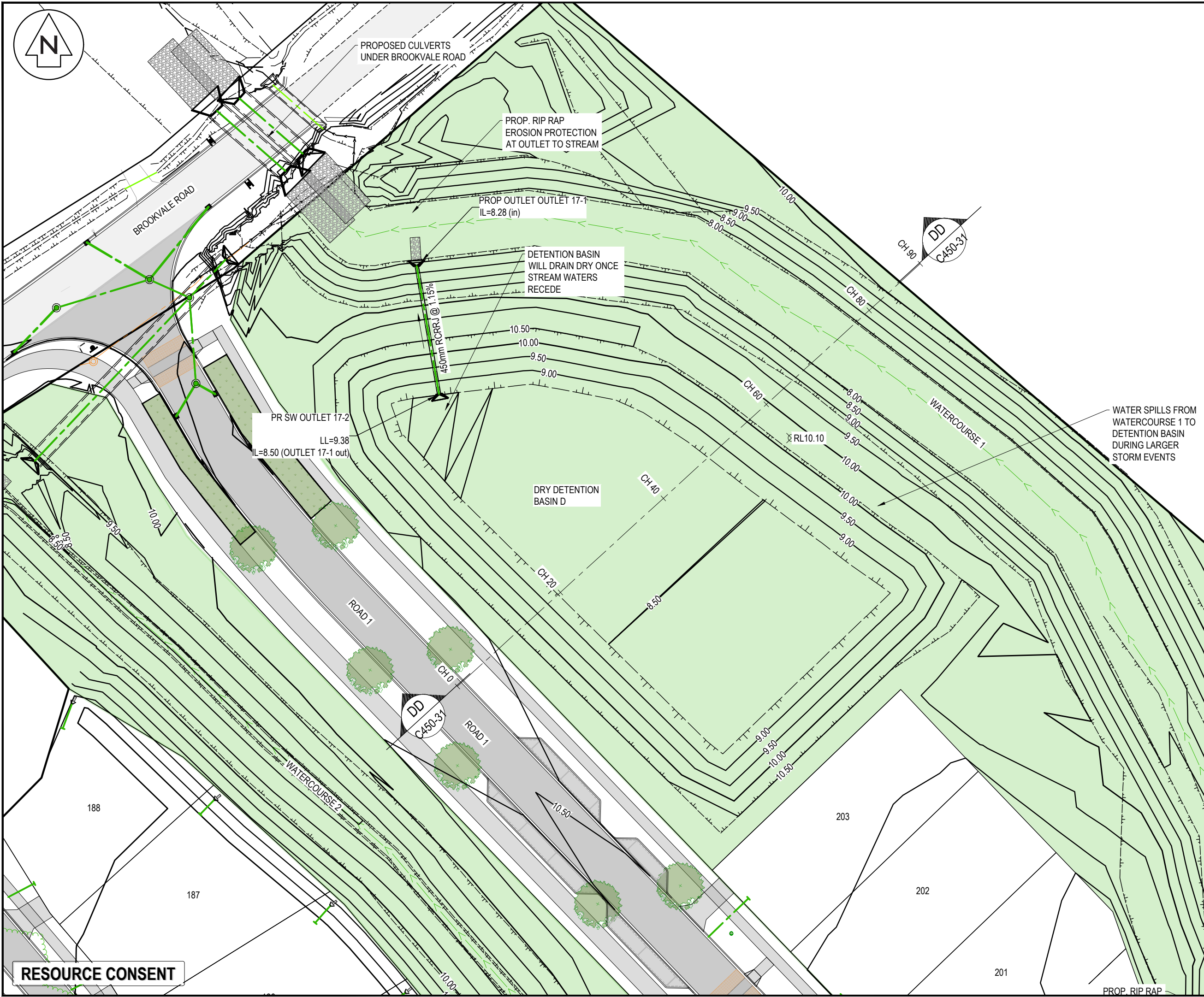
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**TYPICAL
RAIN GARDEN
CROSS SECTION**

Project no.	135041
Scale	1:20 @ A3
Cad file	135041-C450 POND.DWG
Drawing no.	C450-21
Rev	A

RESOURCE CONSENT

RAIN GARDEN TYPICAL CROSS SECTION
C450-20 SCALE 1:20 @ A3



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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- LEGEND
- EX BDY ABUTTAL
 - PROP BDY
 - EX STORMWATER
 - PR PUBLIC STORMWATER
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PROP SWCP DOUBLE
 - PR LOT CONNECTION WATERCOURSE
 - PR RAIN GARDEN
 - PR WETLAND
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR

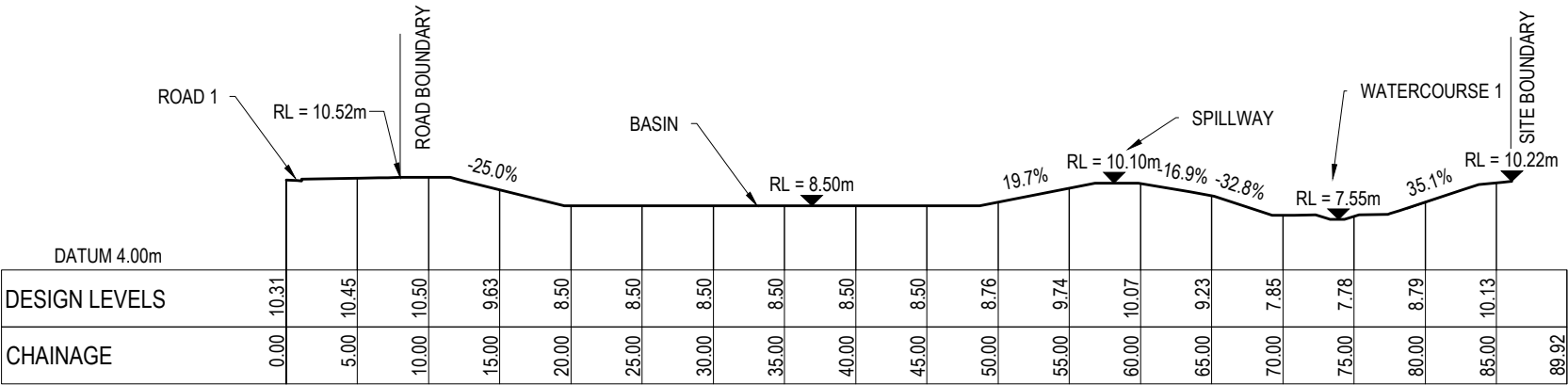
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
DETENTION BASIN D**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C450 PONDS.DWG
Drawing no.	C450-30
Rev	A



DRY BASIN D LONG SECTION DD
SCALE: HORI 1:25 VERT 1:25

LEGEND
--- EX GROUND LEVEL
--- PR GROUND LEVEL

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	07/2026	

M

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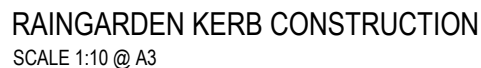
Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

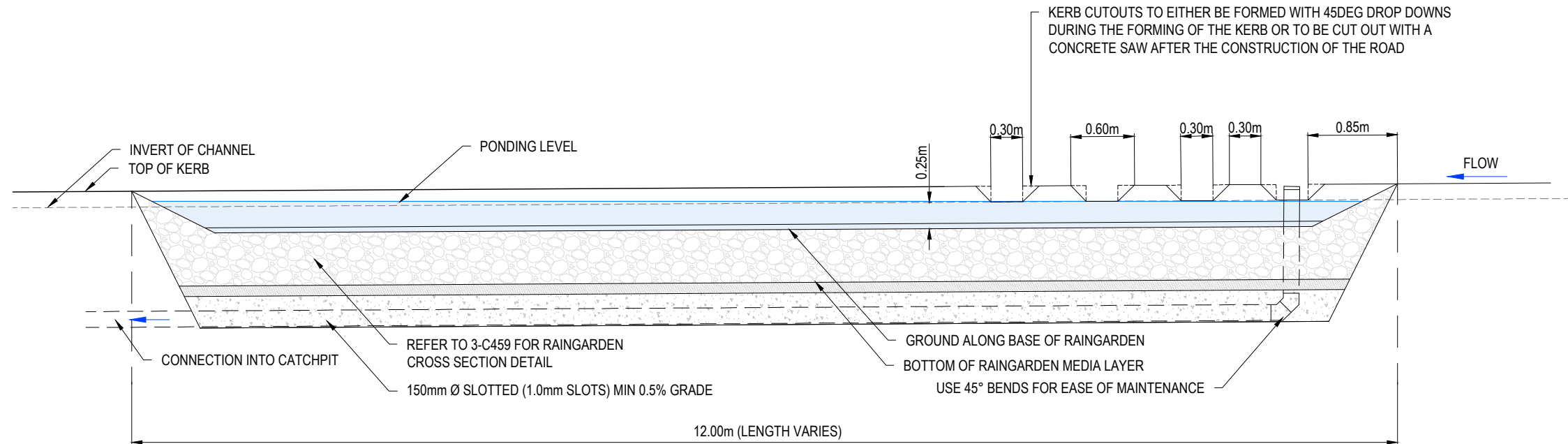
Title
**PROPOSED
DRY BASIN D
SECTION**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C450 PONDS.DWG		
Drawing no.	C450-31	Rev	A

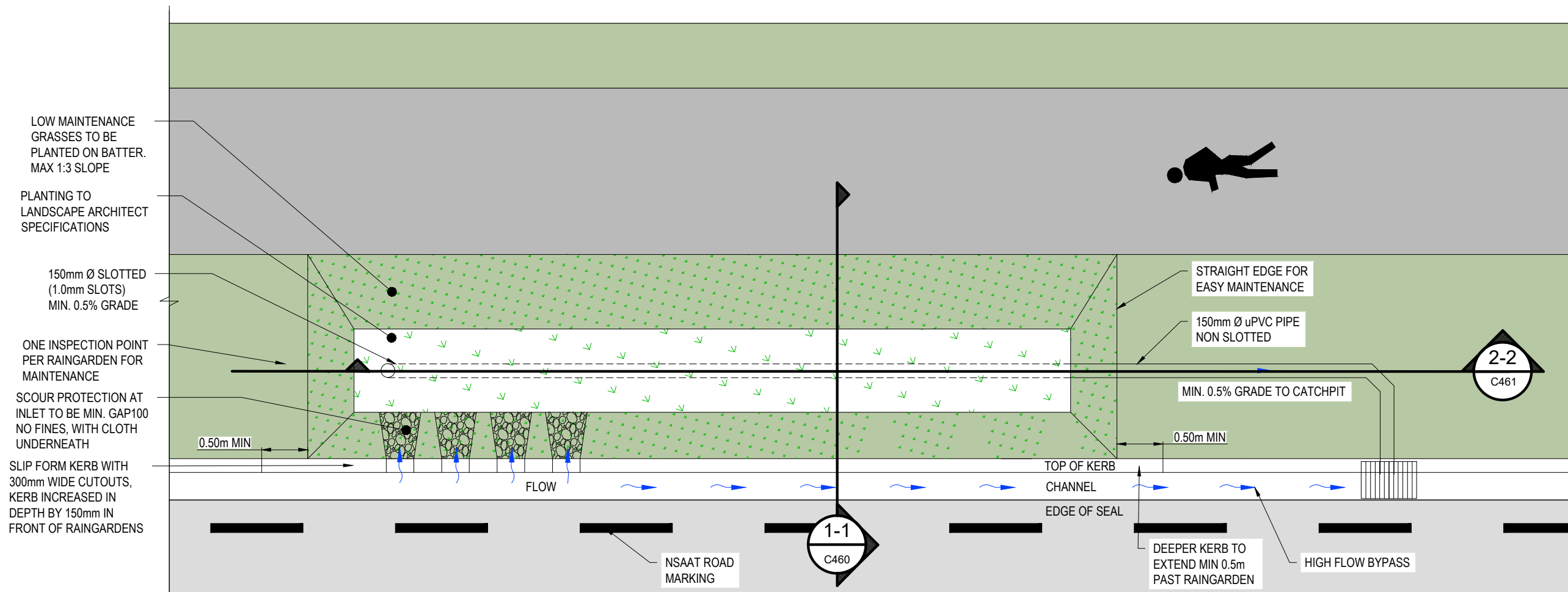
RESOURCE CONSENT



Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C460	Rev	A



TYPICAL RAIN GARDEN LONG SECTION
SCALE 1:50 @ A3



TYPICAL RAIN GARDEN LAYOUT PLAN
SCALE 1:50 @ A3

RESOURCE CONSENT

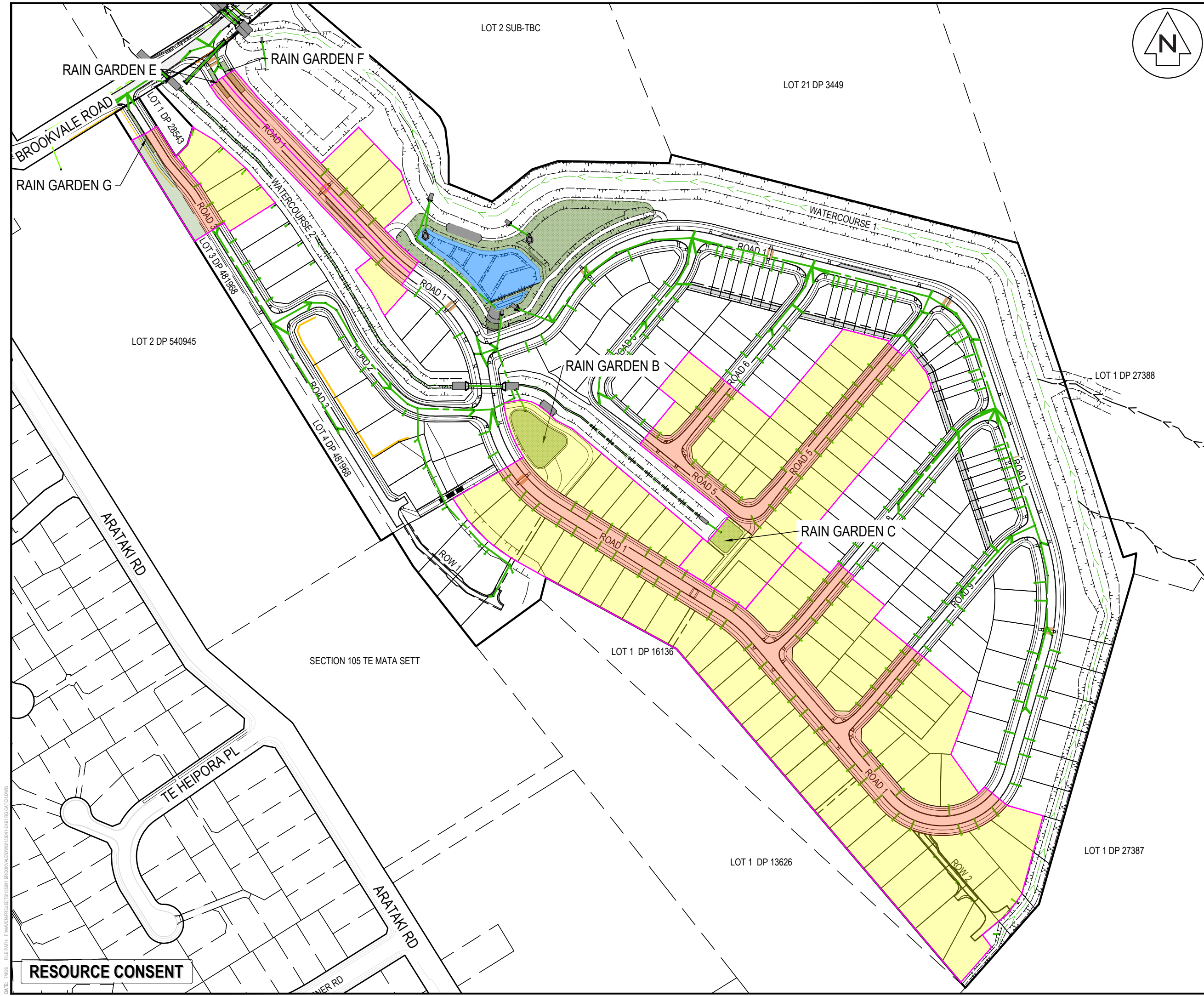
A	SUBSTANTIVE APPLICATION	BB	06/2025
Ref	Revisions	By	Date
Survey			
Design	RH		05/2026
Drawn	RH		05/2026
Checked	BB		06/2026

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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**RAIN GARDEN
LONGITUDINAL
DESIGN DETAILS**

Project no.	135041
Scale	AS SHOWN
Cad file	135041-460 RG DETAILS
Drawing no.	C461
Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837/SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.

LEGEND

	EX BDY
	PROP BDY
	EX STORMWATER
	PR STORMWATER
	EX/PROP SWMH
	PROP SWCP SINGLE
	PROP SWCP DOUBLE
	PR LOT CONNECTION
	PR WETLAND
	WATERCOURSE
	RAIN GARDEN CATCHMENTS

A		SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date	
Survey	TECH SP		02/2025	
Design	RH		06/2026	
Drawn	RH		06/2026	
Checked	BB		07/2026	



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Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

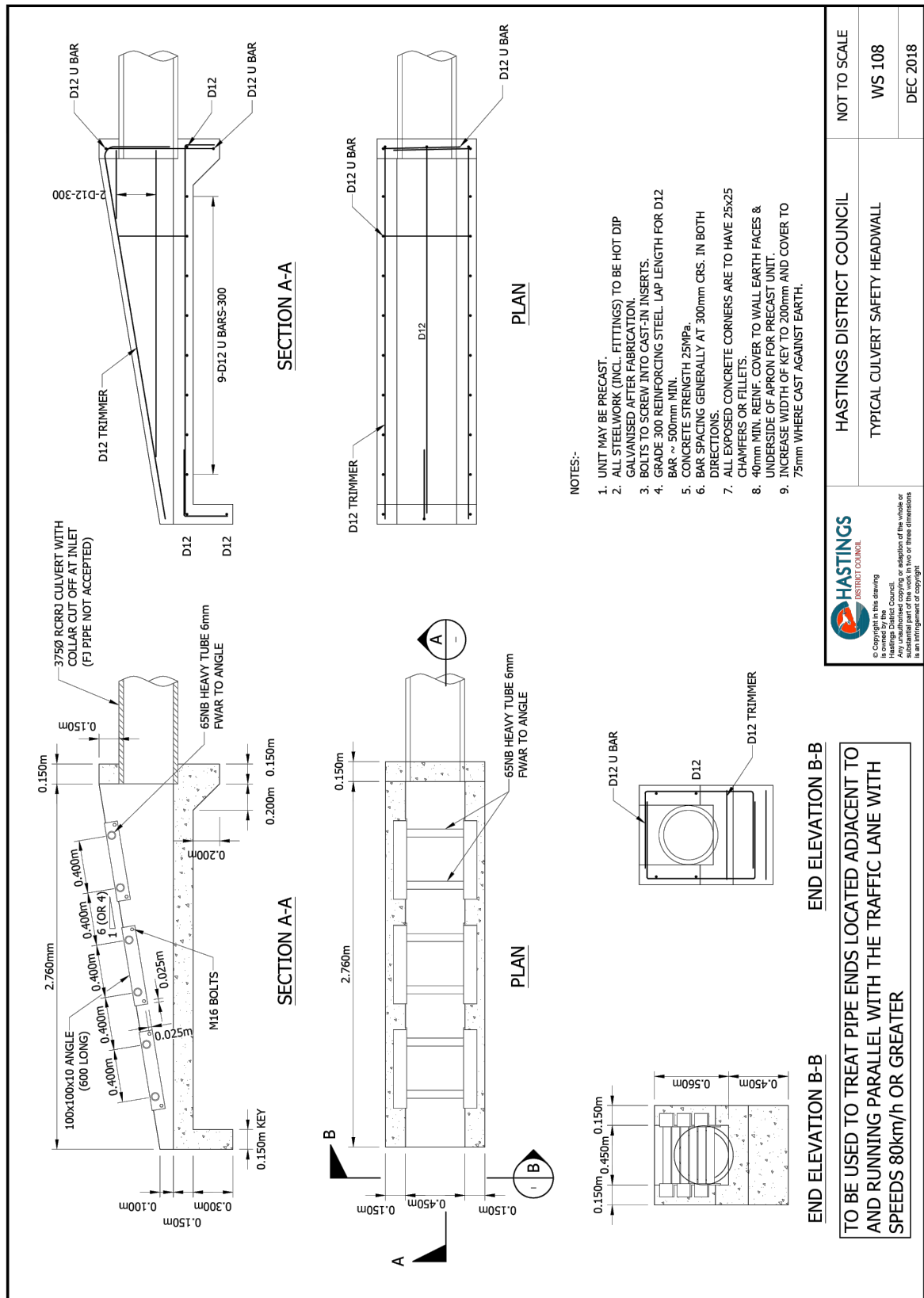
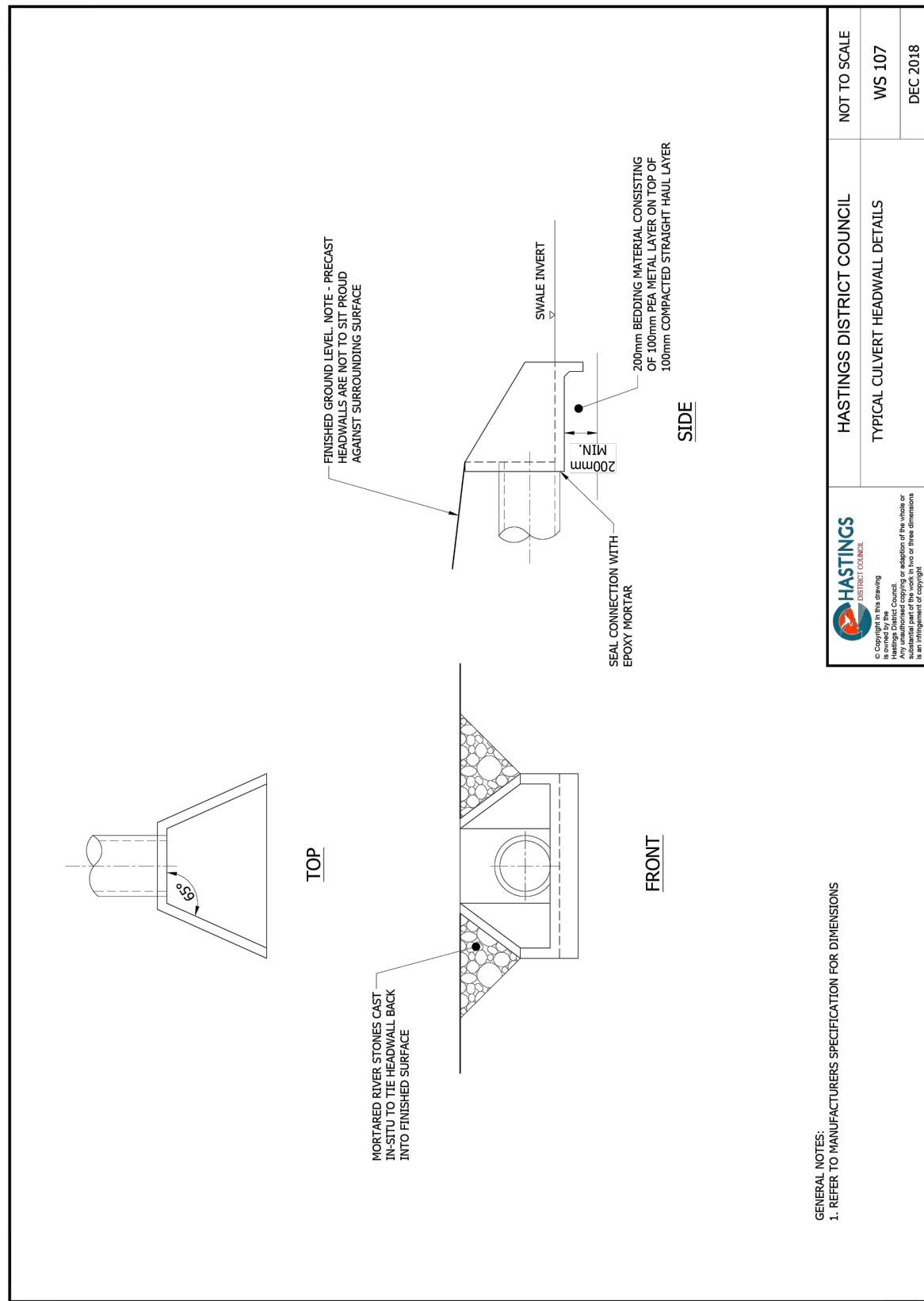
Title

**PROPOSED
RAIN GARDEN
CATCHMENT PLAN**

Project no.	135041		
Scale	1:2500 @ A3		
Cad file	135041-C461 RG CATCH.DWG		
Drawing no.	C461-1	Rev	A

DATE: 7/2026 FILEPATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C461 RG CATCH.DWG

RESOURCE CONSENT



A	SUBSTANTIVE APPLICATION		BB 06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	



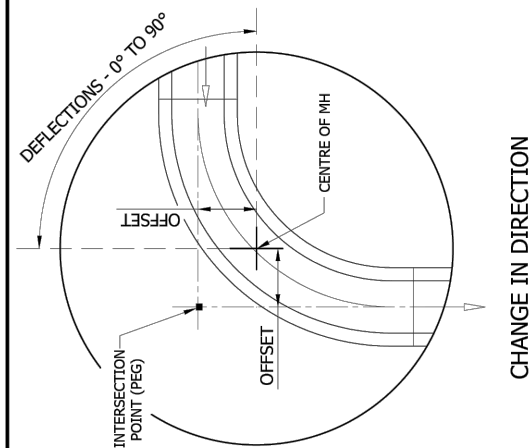
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5 Owens Road, Epsom
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

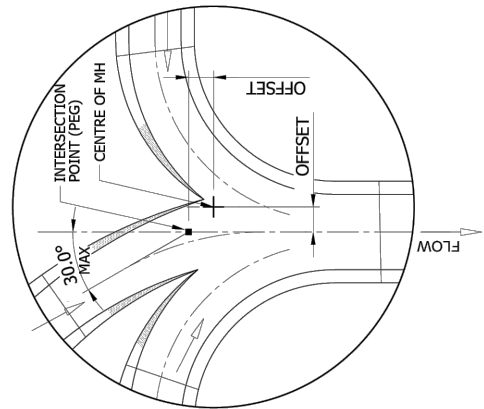
Title

**STORMWATER
STANDARD DETAIL
PLAN**

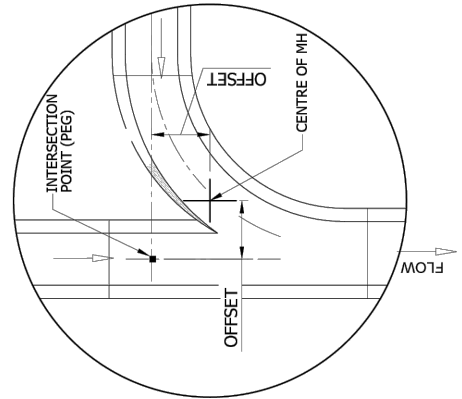
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Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C490-1	Rev	A



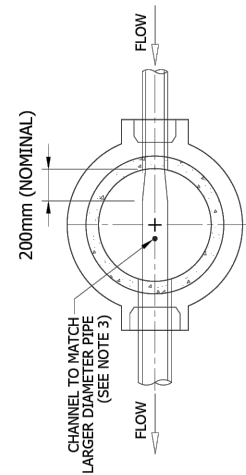
CHANGE IN DIRECTION



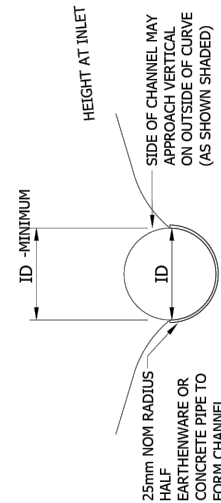
MULTIPLE INCOMING PIPES



STRAIGHT THROUGH & 90° INLET



CHANGE IN DIAMETER

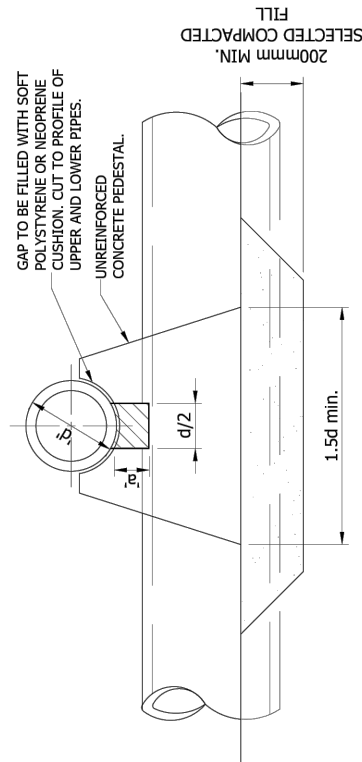


TYPICAL CHANNEL DETAILS

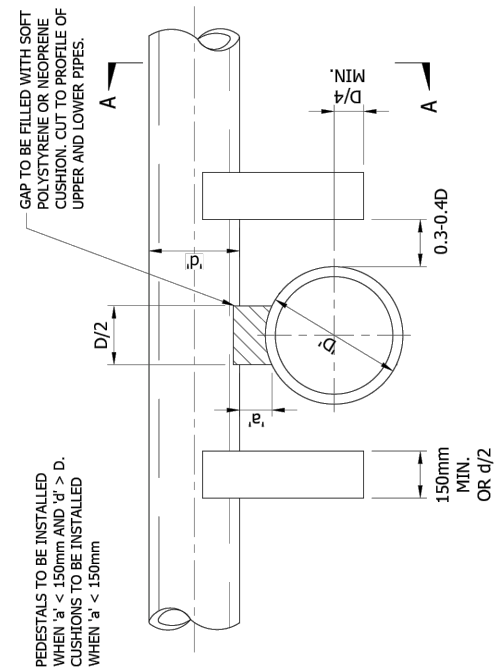
NOTE:
BENCHING WITHIN MANHOLES IS REQUIRED FOR ALL
STORMWATER APPLICATIONS UNLESS OTHERWISE
APPROVED BY HASTINGS DISTRICT COUNCIL

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. PROVIDE ROUNDED NOSING ON INLET AND OUTLET PIPE TO PREVENT DAMAGE TO JETTING EQUIPMENT AND CCTV GUIDES AND CABLES
3. CONSTRUCTION MAY BE A COMBINATION OF PRECAST AND IN-SITU TO SUIT APPLICATION
4. WHERE NECESSARY PULL MANHOLE OFF CENTRELINE OF STORMWATER / SEWER (MAX 200mm) TO IMPROVE FLOW AND ACCESSIBILITY PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - ALL TANGENT POINTS TO BE CONTAINED WITHIN MANHOLE;
 - SUFFICIENT WORK AREA AVAILABLE.
 - MAINTENANCE EQUIPMENT CAN BE USED IN ALL MAINS.
 - OFFSET AS SPECIFIED



SECTION A-A



ELEVATION

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	CLOSE PIPE CROSSING SUPPORT DETAIL	WS 206
		DEC 2018

A	SUBSTANTIVE APPLICATION		BB 06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	



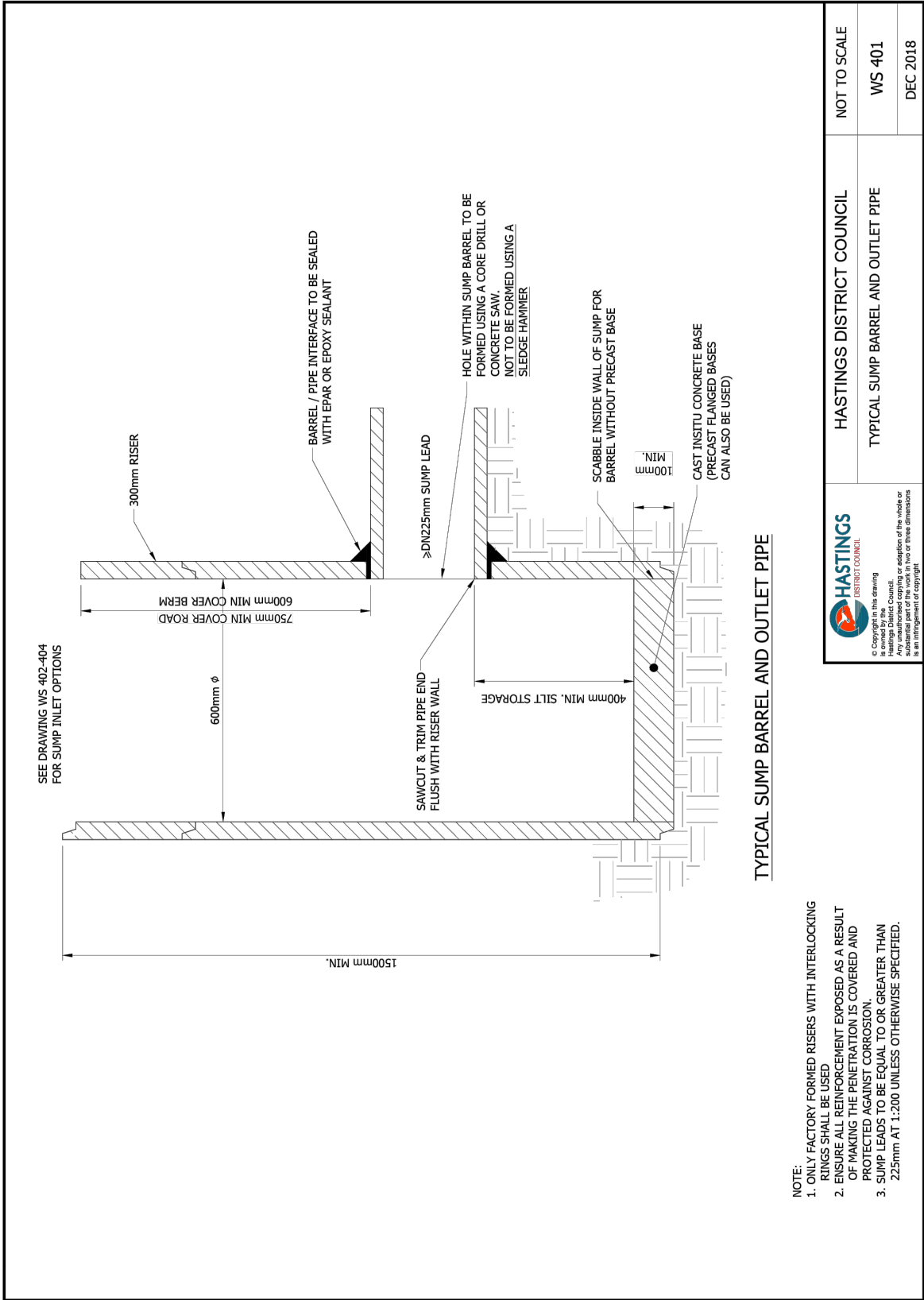
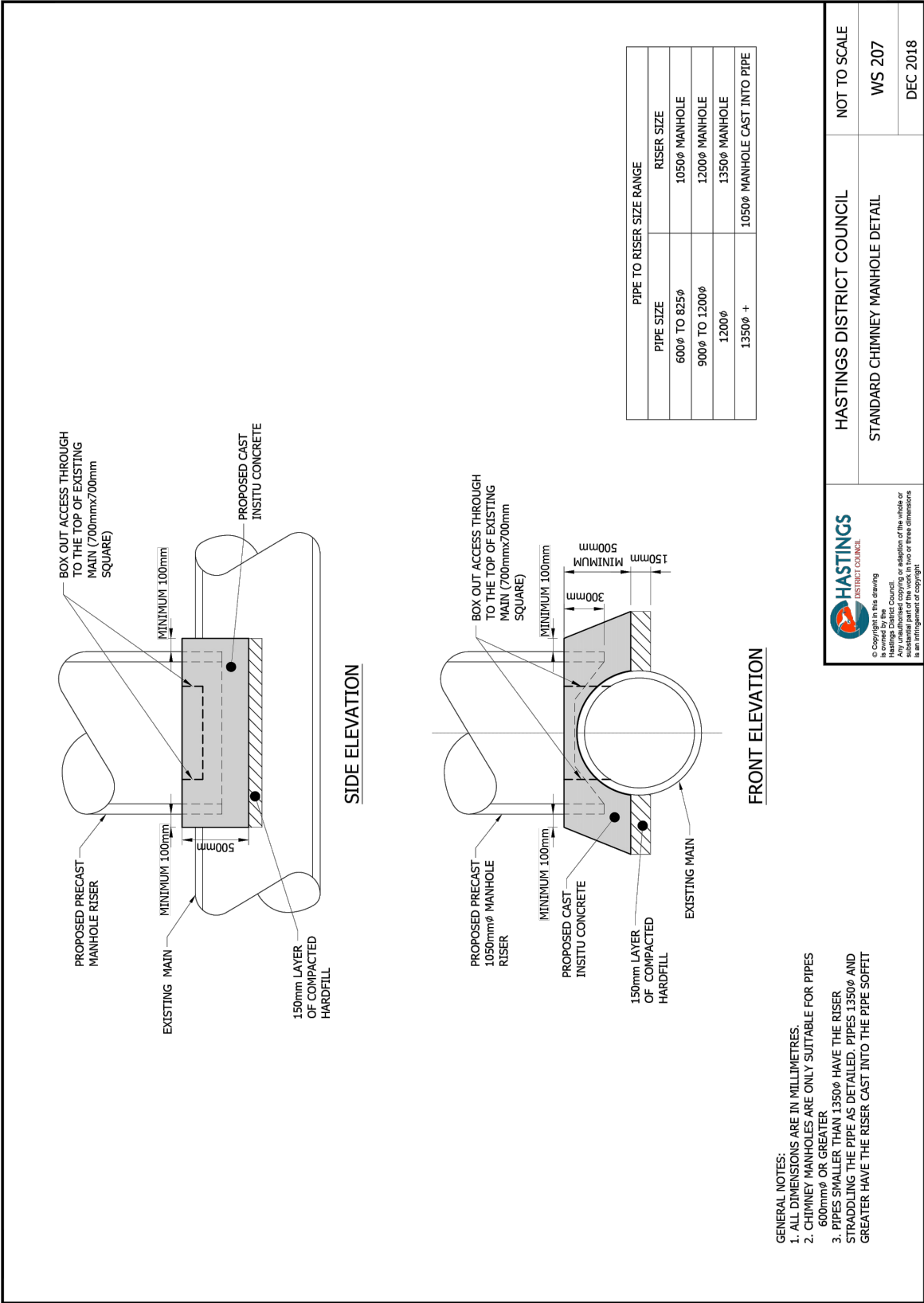
Maven Associates
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5 Owens Road, Epsom
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

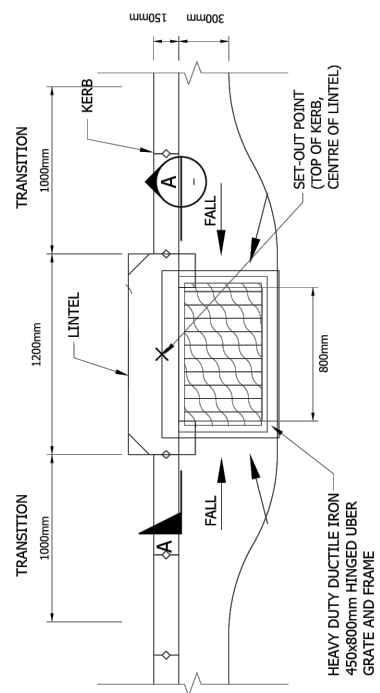
Title

**STORMWATER
STANDARD DETAIL
PLAN**

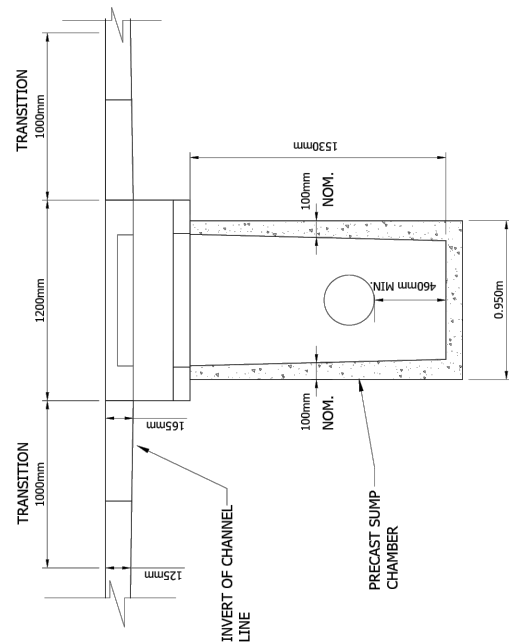
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Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C490-3	Rev	A



A	SUBSTANTIVE APPLICATION	BB	06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	
M A E N Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023			
Project BROOKVALE GREEN HAVELOCK NORTH FOR VERMONT STREET PARTNERS NO. 4 LIMITED			
Title STORMWATER STANDARD DETAIL PLAN			
Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C490-4	Rev	A



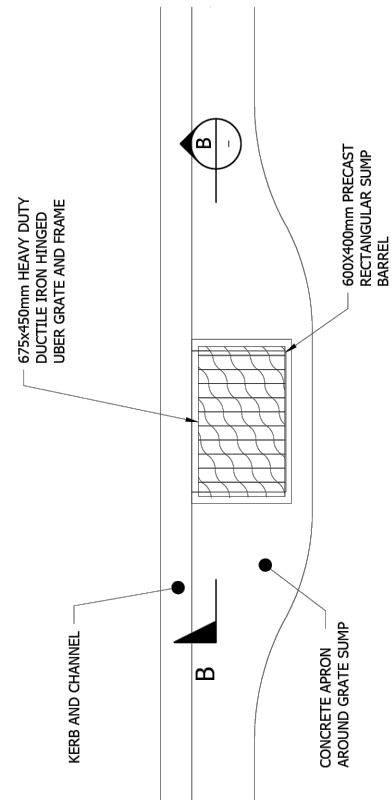
**PLAN - TYPICAL HIGH CAPACITY GRATE SUMP WITH
BACK ENTRY LINTEL**



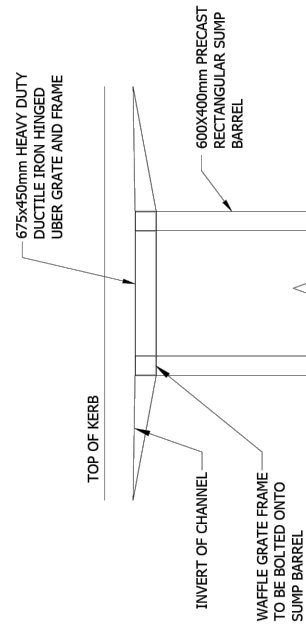
SECTION A-A

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE WS 401 FOR PIPE CONNECTIONS AND MINIMUM SUMP DEPTHS
3. TRANSITION LENGTH MAY VARY

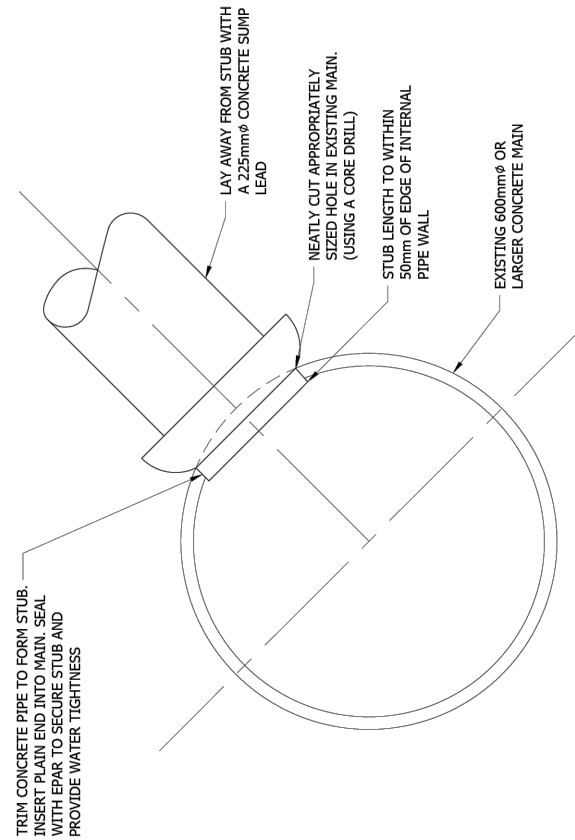


PLAN - STANDARD
UBER SUMP GRATE



SECTION B-B

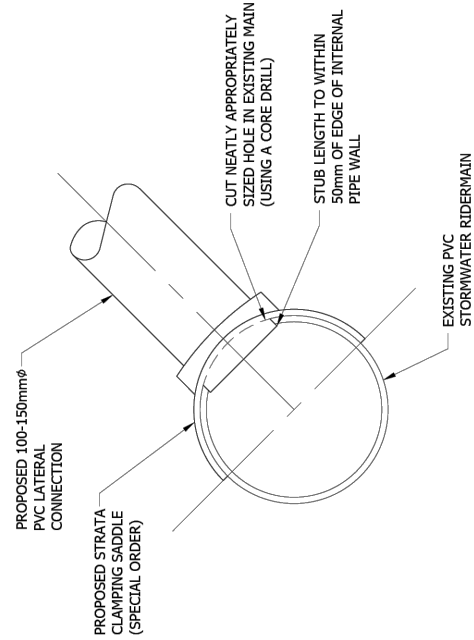
 HASTINGS DISTRICT COUNCIL	HASTINGS DISTRICT COUNCIL		NOT TO SCALE
	GRATE SUMP LID DETAIL STANDARD AND HIGH CAPACITY		WS 403 DEC 2018



TYPICAL SUMP DETAIL - CONCRETE PIPES
(TRUNK S/W MAIN)

GENERAL NOTES:

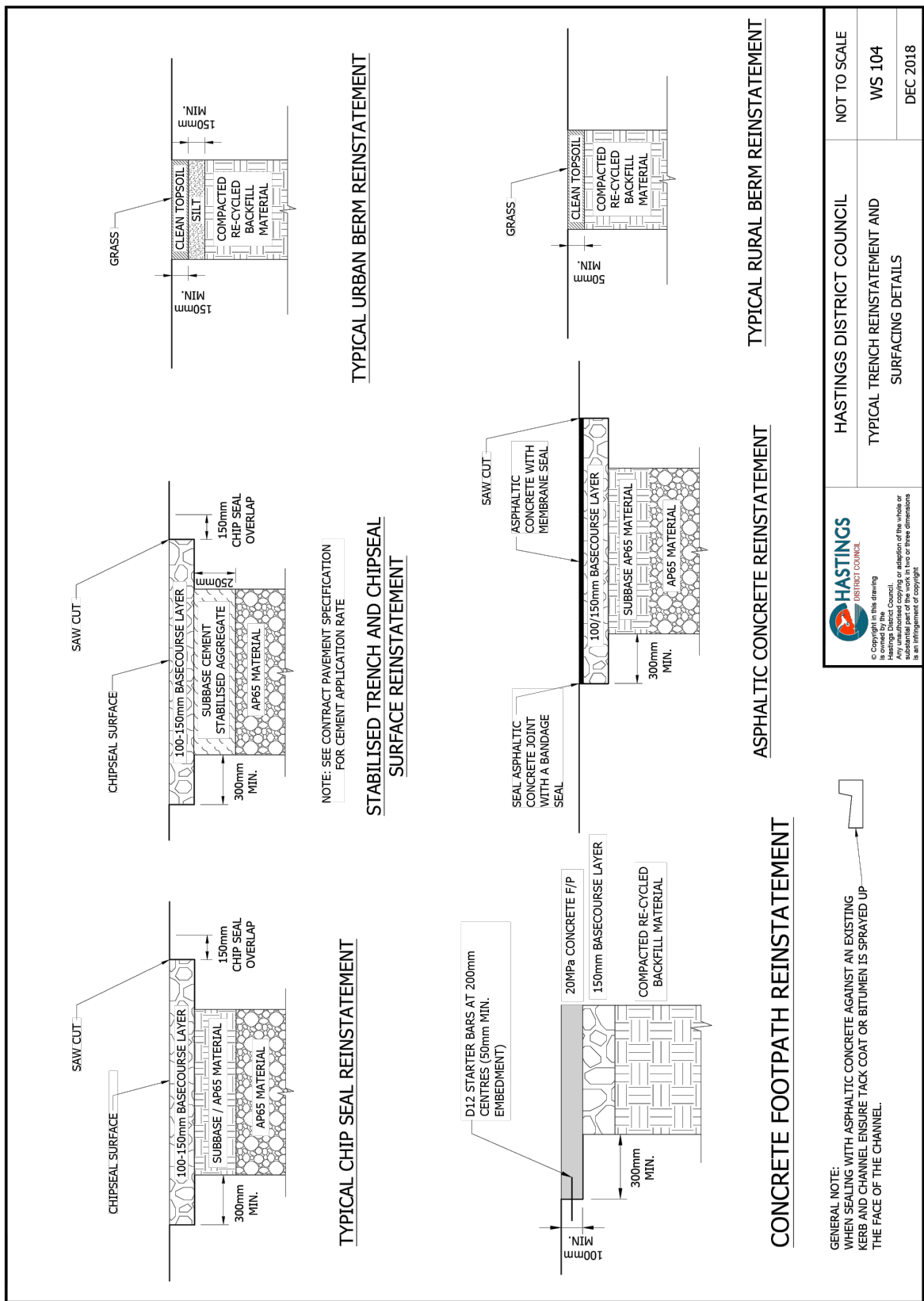
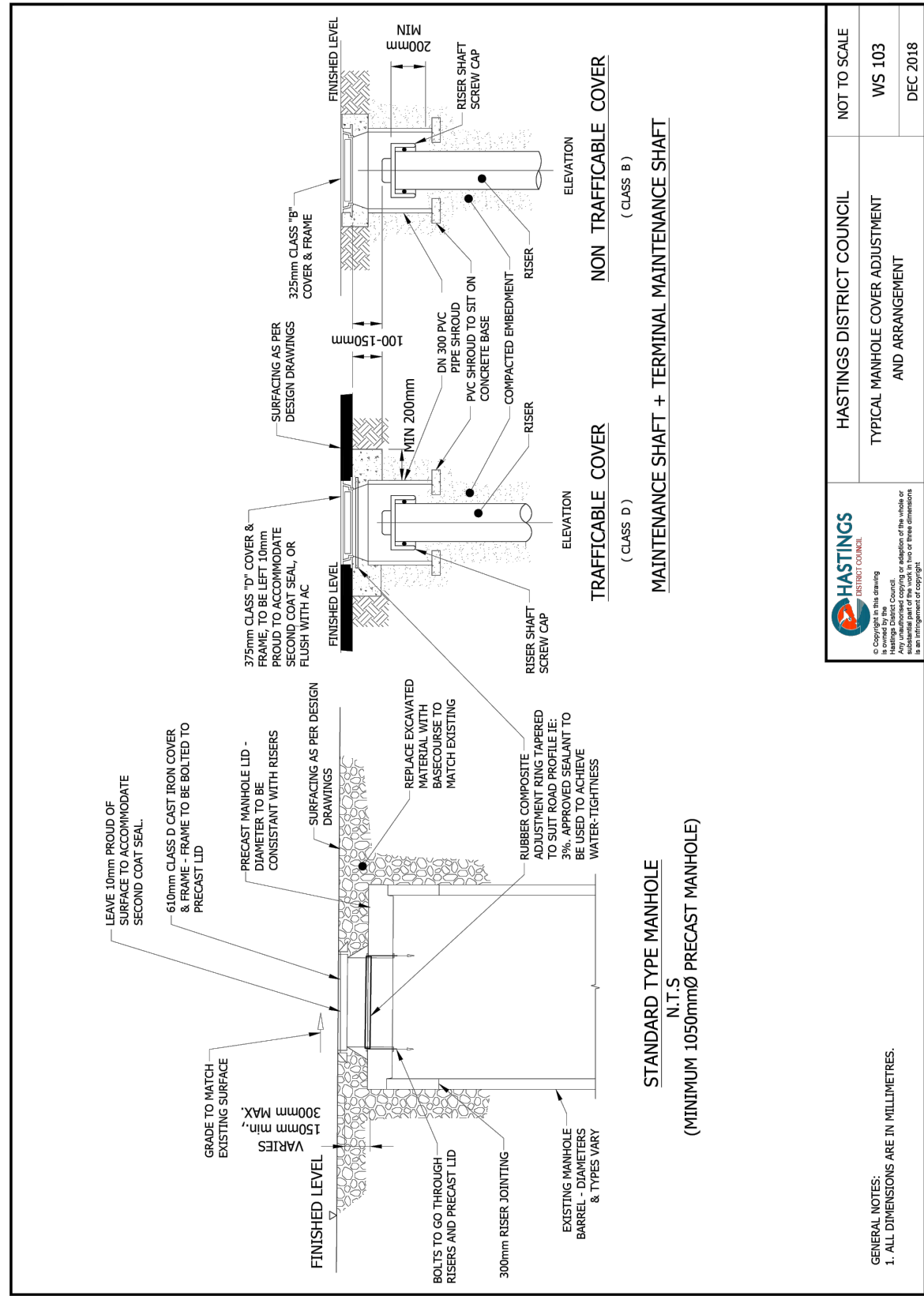
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DIRECT CONNECTIONS TO EXISTING STORMWATER MAINS ARE TO ONLY BE MADE ON MAINS THAT ARE 600mm ϕ OR GREATER
3. ENSURE ALL REINFORCEMENT EXPOSED AS A RESULT OF MAKING PENETRATION IS COVERED AND PROTECTED AGAINST CORROSION
4. OTHER DIRECT CONNECTIONS BY APPROVAL AND SPECIFIC DESIGN ONLY



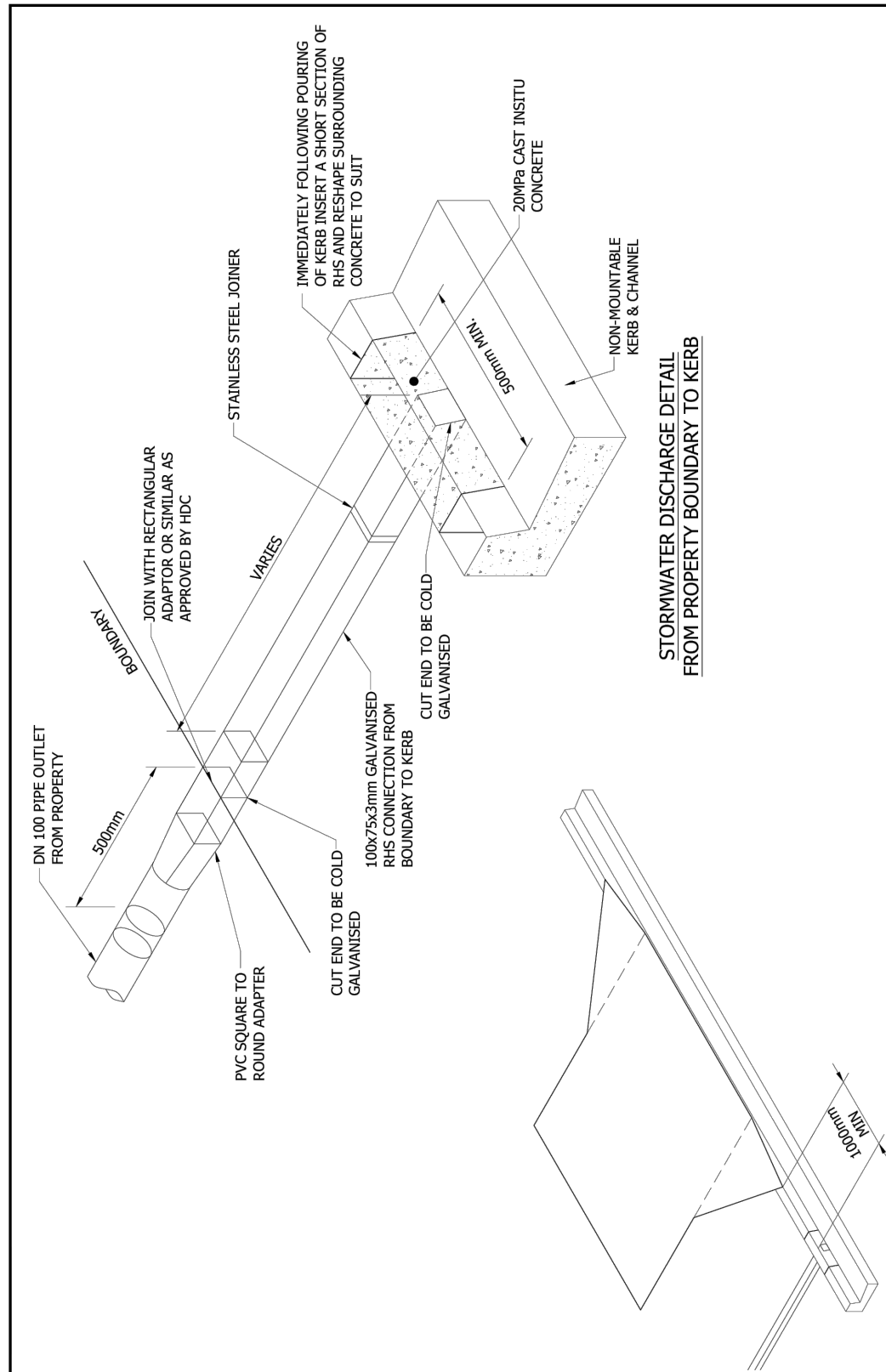
TYPICAL LATERAL DETAIL - PVC PIPE
(STORMWATER RIDERMAIN)

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	DIRECT SUMP/LATERAL CONNECTION	WS 407
		DEC 2018

A	SUBSTANTIVE APPLICATION	BB	06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	
		Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023	
Project			
BROOKVALE GREEN HAVELOCK NORTH FOR VERMONT STREET PARTNERS NO. 4 LIMITED			
Title			
STORMWATER STANDARD DETAIL PLAN			
Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C490-5	Rev	A



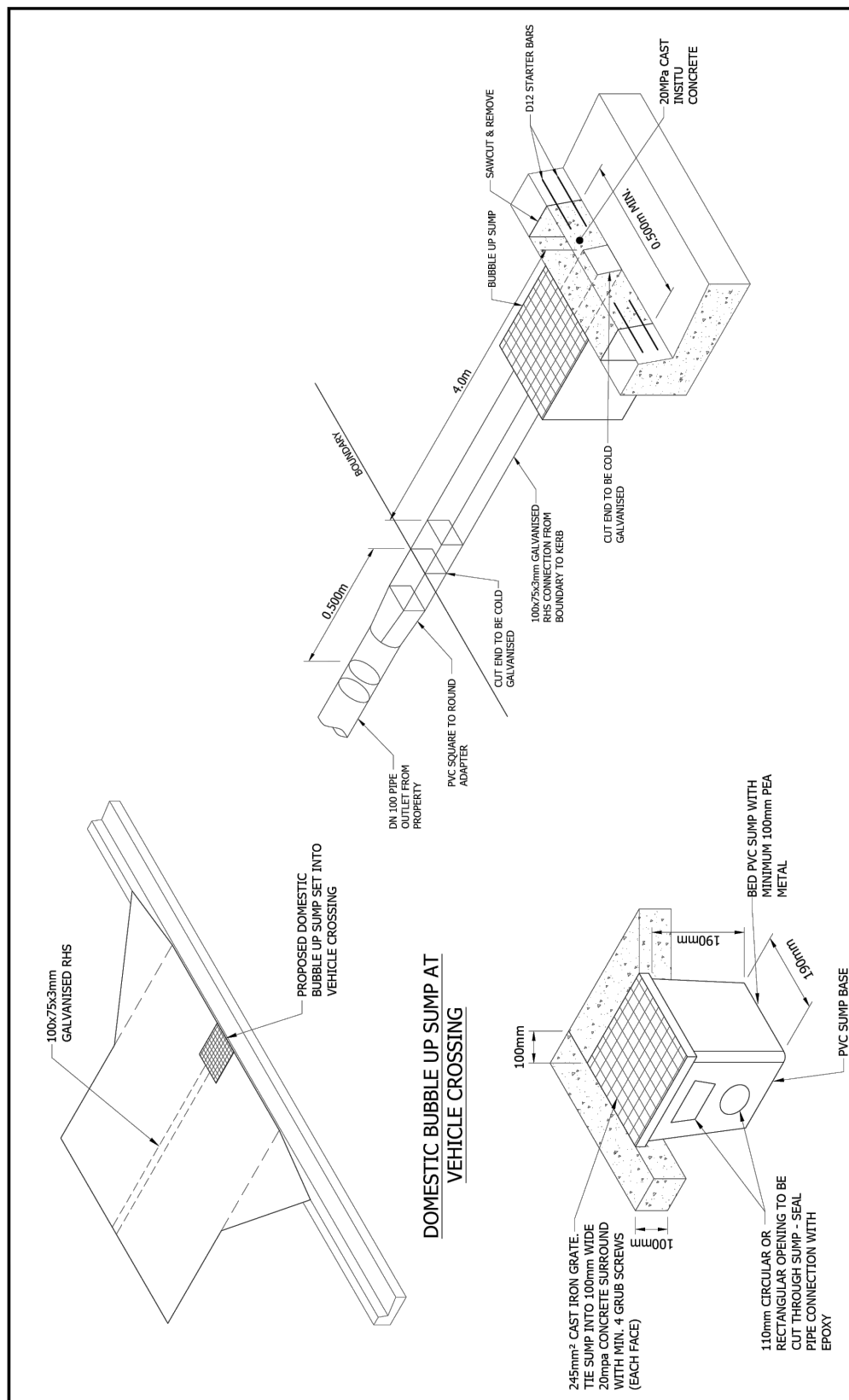
A	SUBSTANTIVE APPLICATION			BB	06/2025
Ref	Revisions			By	Date
	By			Date	
Survey					
Design	RH			06/2026	
Drawn	RH			06/2026	
Checked	BB			06/2026	
 Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023					
Project					
BROOKVALE GREEN					
HAVELOCK NORTH					
FOR					
VERMONT STREET					
PARTNERS NO. 4 LIMITED					
Title					
STORMWATER					
STANDARD DETAIL					
PLAN					
Project no.		135041			
Scale		AS SHOWN			
Cad file		135041-460 RG DETAILS			
Drawing no.		C490-6			Rev A



STORMWATER DISCHARGE TO KERB AT
VEHICLE CROSSING - ISOMETRIC VIEW



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	STORMWATER PROPERTY DISCHARGE TO KERB	WS 105
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DOMESTIC BUBBLE UP SUMP

GENERAL NOTE:
THIS DETAIL IS ONLY TO BE USED WHERE DISCHARGE TO KERB BEYOND VEHICLE CROSSING IS NOT PRACTICAL



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	DOMESTIC PROPERTY DISCHARGE BUBBLE UP SUMP	WS 106 DEC 2018

A	SUBSTANTIVE APPLICATION			BB	06/2025
Ref	Revisions			By	Date
	By			Date	
Survey					
Design	RH			06/2026	
Drawn	RH			06/2026	
Checked	BB			06/2026	
 Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023					
Project					
BROOKVALE GREEN					
HAVELOCK NORTH					
FOR					
VERMONT STREET					
PARTNERS NO. 4 LIMITED					
Title					
STORMWATER					
STANDARD DETAIL					
PLAN					
Project no.		135041			
Scale		AS SHOWN			
Cad file		135041-460 RG DETAILS			
Drawing no.		C490-7			Rev A