

NOTES:

1. THIS DRAWING HAS BEEN PREPARED WITH OPTIONS FOR DISCUSSION AND TO SELECT THE STORMWATER DISCHARGE LAYOUT.
2. DETAILED DESIGN TO BE CARRIED OUT ONCE THE LAYOUT HAS BEEN SELECTED.

LEGEND:



EXISTING CONTOURS SHOWN  
AT 0.5m INTERVALS



EXISTING PUBLIC STORMWATER



PROPOSED PUBLIC STORMWATER



EXISTING PUBLIC WASTEWATER



PROPOSED PUBLIC WASTEWATER



EXISTING OVERLAND FLOW PATH



EXISTING FUEL TRANSMISSION LINE



SITE BOUNDARY



EXISTING EASEMENT BOUNDARY



PROPOSED OVERLAND FLOW PATH

This design and drawing shall only be used for the purpose for which it was supplied and shall not be altered or reproduced without the permission of Envelope Engineering Limited. No liability shall be accepted for unauthorised use of this design and drawing.

REVISIONS:

REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024

PROJECT:

ROKOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:

PROPOSED  
DRAINAGE PLAN  
OPTIONS 1 - 3



DESIGNED: JDP

CHECKED: ADJ

SCALE A1: 1:1000

STATUS: FOR CONSENT

PROJECT No:

1636-02

DRAWN: MJP

PLOT DATE: 18-12-24

SCALE A3: 1:2000

DRAWING No:

400

REVISION:

RC2





- NOTES:
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL & WATERCARE STANDARDS UNLESS DETAILED OTHERWISE.
  2. ALL WASTEWATER PIPES TO BE PVC-U SN16.
  3. ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
  4. ALL CATCHPITS TO BE 675x450mm UNLESS NOTED OTHERWISE. SIZING AND LOCATION TO BE CONFIRMED AT DETAILED DESIGN STAGE.
  5. ALL PRIVATE CATCHPIT LEADS TO BE DN300 RCRRJ CLASS 4 UNLESS NOTED OTHERWISE.
  6. REFER TO SHEETS 430 & 450 FOR DRAINAGE LONGSECTIONS.
  7. REFER TO SHEET 490 FOR STANDARD DRAINAGE DETAILS

LEGEND:

	EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
	EXISTING PUBLIC STORMWATER
	PROPOSED PUBLIC STORMWATER
	EXISTING PUBLIC WASTEWATER
	PROPOSED PUBLIC WASTEWATER
	EXISTING OVERLAND FLOW PATH
	EXISTING FUEL TRANSMISSION LINE
	SITE BOUNDARY
	EXISTING EASEMENT BOUNDARY
	PROPOSED OVERLAND FLOW PATH

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024

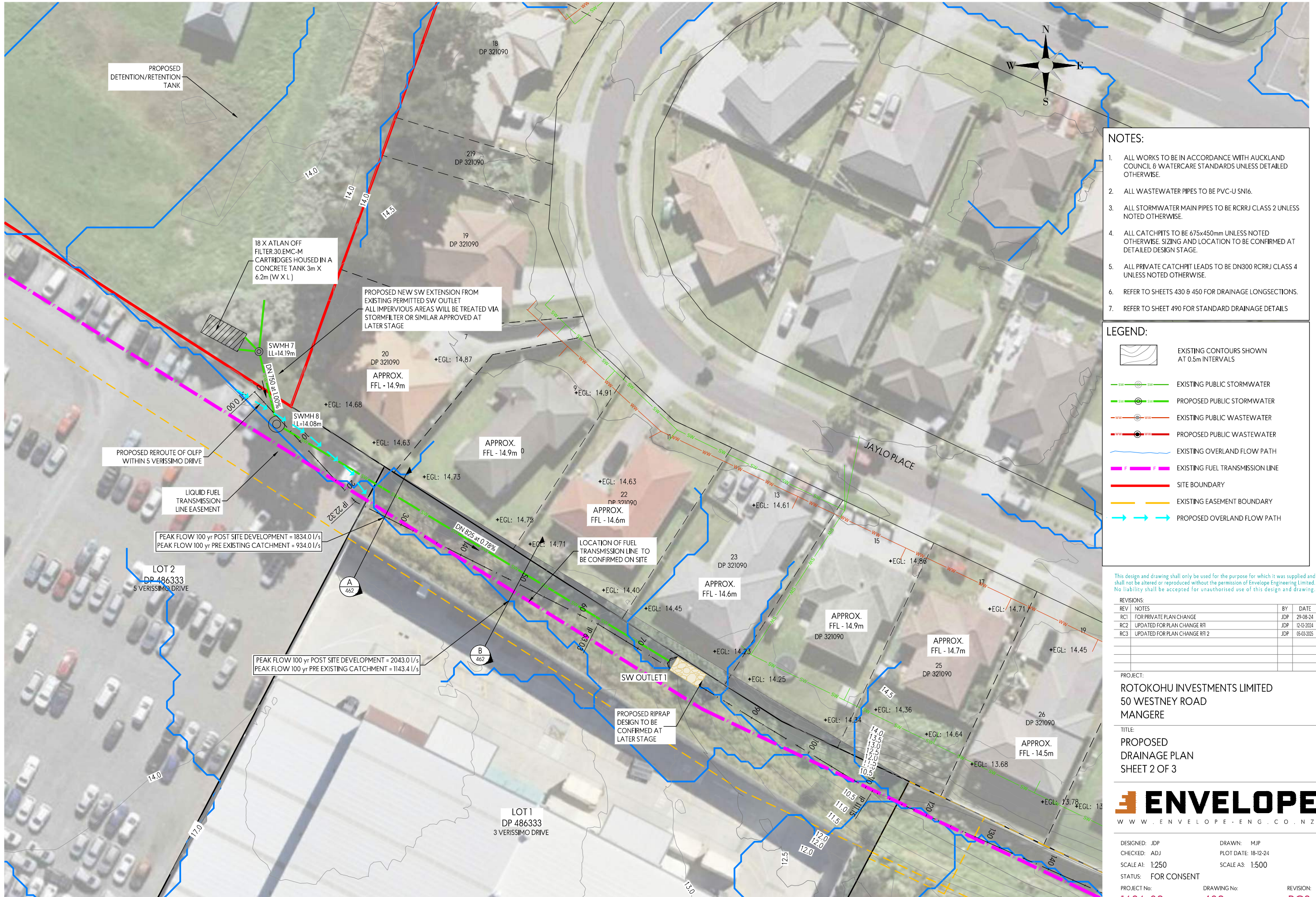
PROJECT:  
ROKOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
DRAINAGE PLAN  
SHEET 1 OF 3



DESIGNED: JDP	DRAWN: MJP	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:250	SCALE A3: 1:500	
STATUS: FOR CONSENT		
PROJECT No: 1636-02	DRAWING No: 401	REVISION: RC2





- NOTES:**
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL & WATERCARE STANDARDS UNLESS DETAILED OTHERWISE.
  2. ALL WASTEWATER PIPES TO BE PVC-U SN16.
  3. ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
  4. ALL CATCHPITS TO BE 675x450mm UNLESS NOTED OTHERWISE. SIZING AND LOCATION TO BE CONFIRMED AT DETAILED DESIGN STAGE.
  5. ALL PRIVATE CATCHPIT LEADS TO BE DN300 RCRRJ CLASS 4 UNLESS NOTED OTHERWISE.
  6. REFER TO SHEETS 430 & 450 FOR DRAINAGE LONGSECTIONS.
  7. REFER TO SHEET 490 FOR STANDARD DRAINAGE DETAILS

- LEGEND:**
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
  - EXISTING PUBLIC STORMWATER
  - PROPOSED PUBLIC STORMWATER
  - EXISTING PUBLIC WASTEWATER
  - PROPOSED PUBLIC WASTEWATER
  - EXISTING OVERLAND FLOW PATH
  - EXISTING FUEL TRANSMISSION LINE
  - SITE BOUNDARY
  - EXISTING EASEMENT BOUNDARY
  - PROPOSED OVERLAND FLOW PATH

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REVISIONS:		BY:	DATE:
REV	NOTES		
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE R1	JDP	12-12-2024
RC3	UPDATED FOR PLAN CHANGE R1 2	JDP	05-03-2025

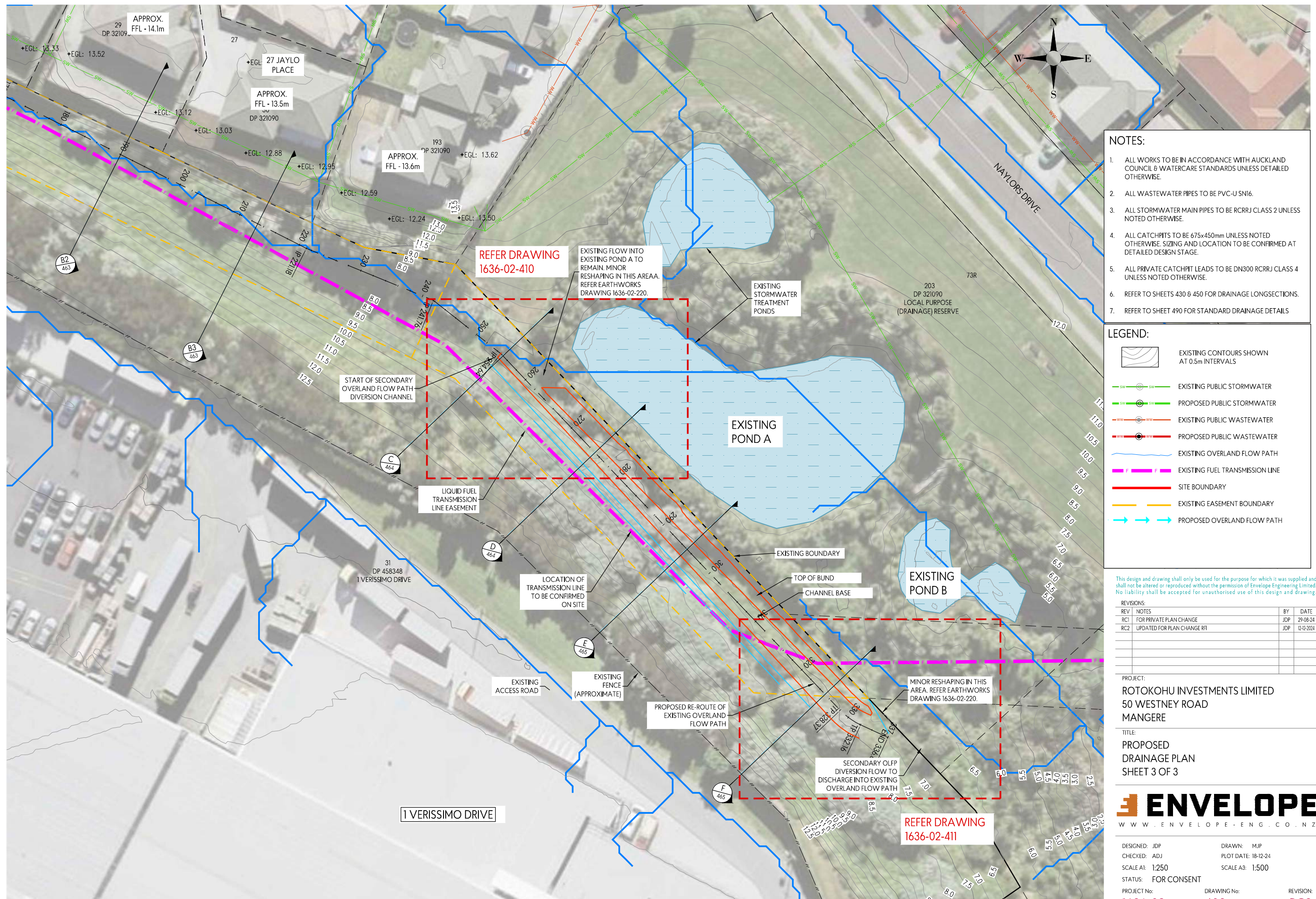
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
DRAINAGE PLAN  
SHEET 2 OF 3

**ENVELOPE**  
WWW.ENVELOPE-ENG.CO.NZ

DESIGNED: JDP	DRAWN: MJP
CHECKED: ADJ	PLOT DATE: 18-12-24
SCALE A1: 1:250	SCALE A3: 1:500
STATUS: FOR CONSENT	
PROJECT No: 1636-02	DRAWING No: 402
	REVISION: RC3














NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL & WATERCARE STANDARDS UNLESS DETAILED OTHERWISE.
2. ALL WASTEWATER PIPES TO BE PVC-U SNI6.
3. ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
4. ALL CATCHPITS TO BE 675x450mm UNLESS NOTED OTHERWISE. SIZING AND LOCATION TO BE CONFIRMED AT DETAILED DESIGN STAGE.
5. ALL PRIVATE CATCHPIP LEADS TO BE DN300 RCRRJ CLASS 4 UNLESS NOTED OTHERWISE.
6. REFER TO SHEETS 430 & 450 FOR DRAINAGE LONGSECTIONS.
7. REFER TO SHEET 490 FOR STANDARD DRAINAGE DETAILS

LEGEND:



EXISTING CONTOURS SHOWN  
AT 0.5m INTERVALS

- |   |                                 |
|---|---------------------------------|
|    | EXISTING PUBLIC STORMWATER      |
|    | PROPOSED PUBLIC STORMWATER      |
|    | EXISTING PUBLIC WASTEWATER      |
|   | PROPOSED PUBLIC WASTEWATER      |
|  | EXISTING OVERLAND FLOW PATH     |
|  | EXISTING FUEL TRANSMISSION LINE |
|  | SITE BOUNDARY                   |
|  | EXISTING EASEMENT BOUNDARY      |
|  | PROPOSED OVERLAND FLOW PATH     |

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REVISIONS:		
REV	NOTES	BY DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP 29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP 12-02-2024

PROJECT:

ROKOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:

PROPOSED  
DRAINAGE PLAN  
SHEET 3 OF 3



DESIGNED: JDP

CHECKED: ADJ

SCALE AI: 1:250

STATUS: FOR CONSENT

PROJECT No:

1636-02

DRAWN: MJP

PLOT DATE: 18-12-24

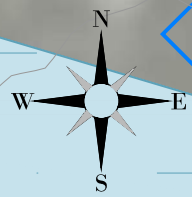
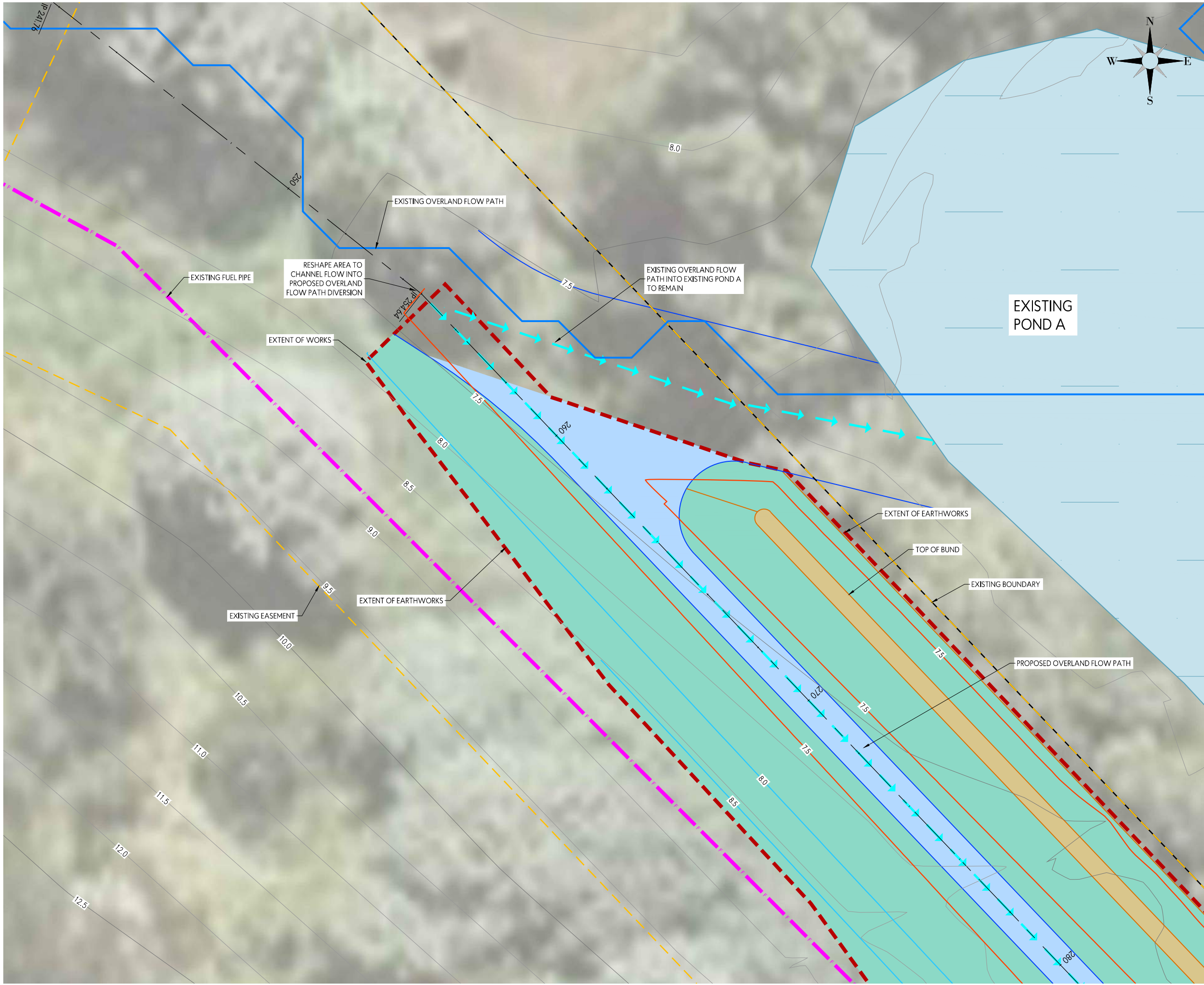
SCALE A3: 1:500

1.000

## AWING No

03 RC2





- NOTES:**
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL & WATERCARE STANDARDS UNLESS DETAILED OTHERWISE.
  2. ALL WASTEWATER PIPES TO BE PVC-U SN16.
  3. ALL STORMWATER MAIN PIPES TO BE RCRRJ CLASS 2 UNLESS NOTED OTHERWISE.
  4. ALL CATCHPITS TO BE 675x450mm UNLESS NOTED OTHERWISE. SIZING AND LOCATION TO BE CONFIRMED AT DETAILED DESIGN STAGE.
  5. ALL PRIVATE CATCHPIT LEADS TO BE DN300 RCRRJ CLASS 4 UNLESS NOTED OTHERWISE.
  6. REFER TO SHEETS 430 & 450 FOR DRAINAGE LONGSECTIONS.
  7. REFER TO SHEET 490 FOR STANDARD DRAINAGE DETAILS

- LEGEND:**
- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
  - EXISTING PUBLIC STORMWATER
  - PROPOSED PUBLIC STORMWATER
  - EXISTING PUBLIC WASTEWATER
  - PROPOSED PUBLIC WASTEWATER
  - EXISTING OVERLAND FLOW PATH
  - EXISTING FUEL TRANSMISSION LINE
  - SITE BOUNDARY
  - EXISTING EASEMENT BOUNDARY
  - PROPOSED OVERLAND FLOW PATH

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	18-12-24

PROJECT:  
**ROKOKOHU INVESTMENTS LIMITED**  
**50 WESTNEY ROAD**  
**MANGERE**

TITLE:  
**PROPOSED**  
**DRAINAGE PLAN**  
**DETAILED OLFP INLET**

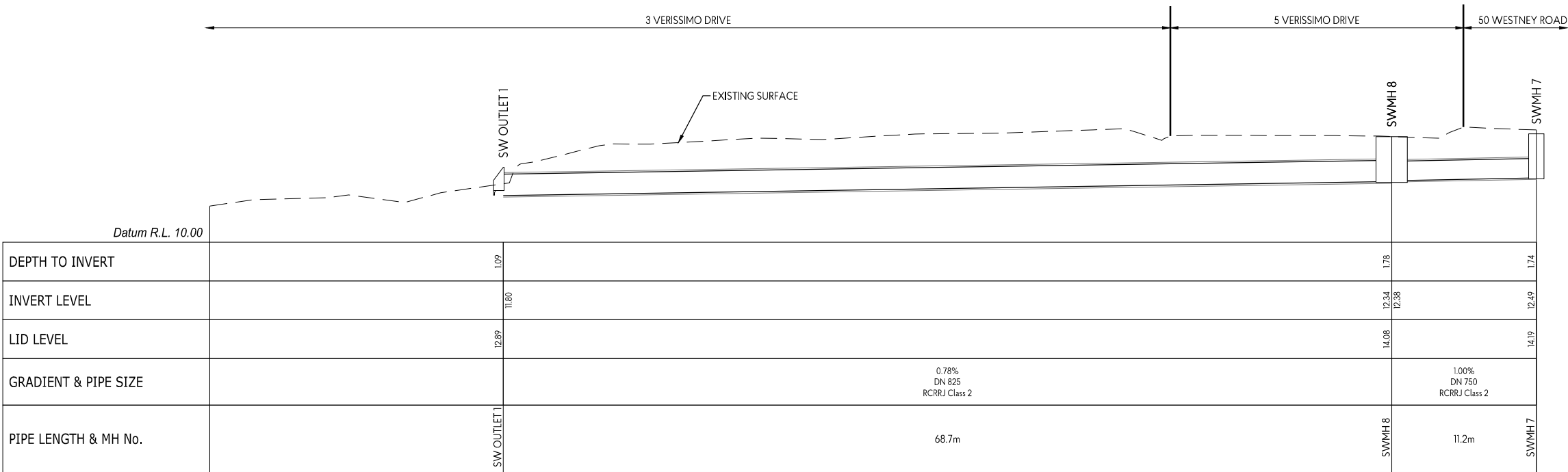


DESIGNED: JDP	DRAWN: SKR	REVISION: <b>RC1</b>
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:50	SCALE A3: 1:100	
STATUS: FOR CONSENT		
PROJECT No: <b>1636-02</b>	DRAWING No: <b>410</b>	









SW OP 1

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024

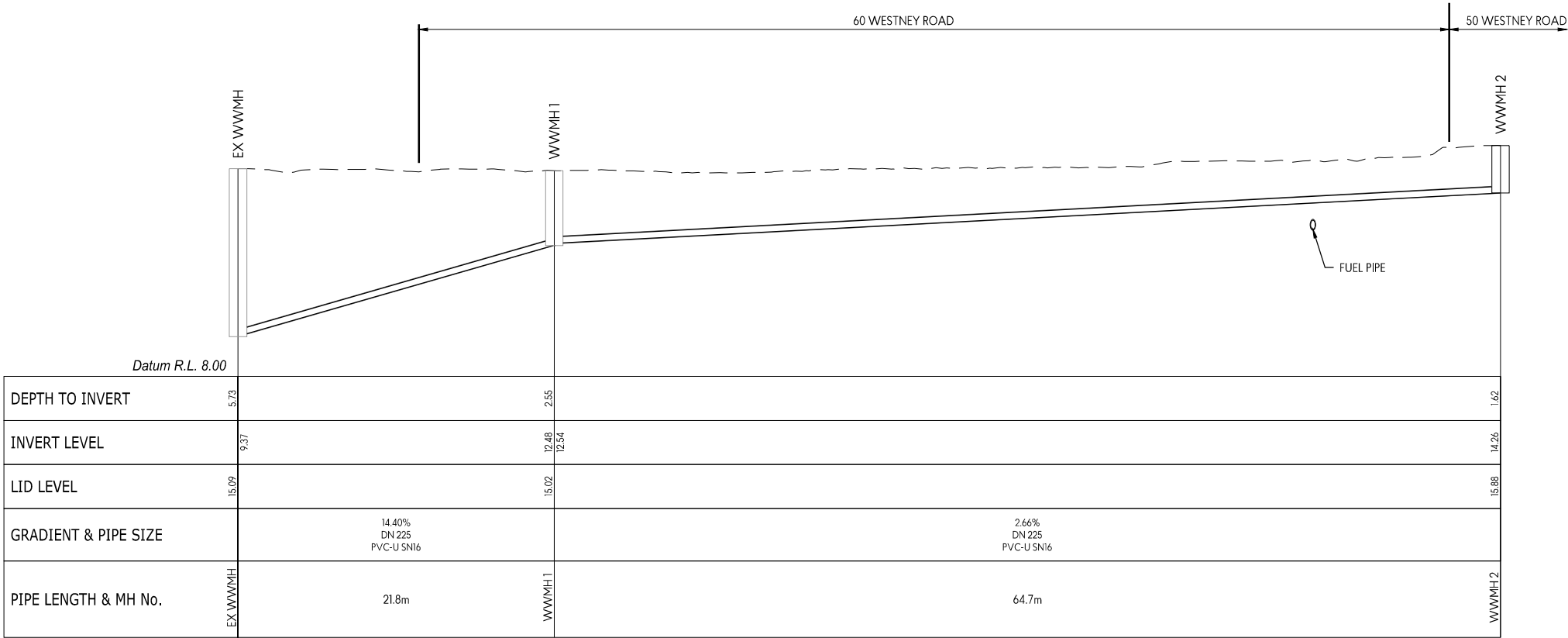
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
STORMWATER LONG SECTION



DESIGNED: JDP	DRAWN: MJP
CHECKED: ADJ	PLOT DATE: 18-12-24
SCALE A1: 1:200	SCALE A3: 1:400
STATUS: FOR CONSENT	
PROJECT No: 1636-02	DRAWING No: 430
	REVISION: RC2





WW LINE A (I)

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024

PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
WASTEWATER LONG SECTION



DESIGNED: JDP	DRAWN: MJP	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	1636-02
SCALE A1: 1:200	SCALE A3: 1:400	450
STATUS: FOR CONSENT	DRAWING No:	RC2





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PROJECT:  
 ROTOKOHU INVESTMENTS LIMITED  
 50 WESTNEY ROAD  
 MANGERE



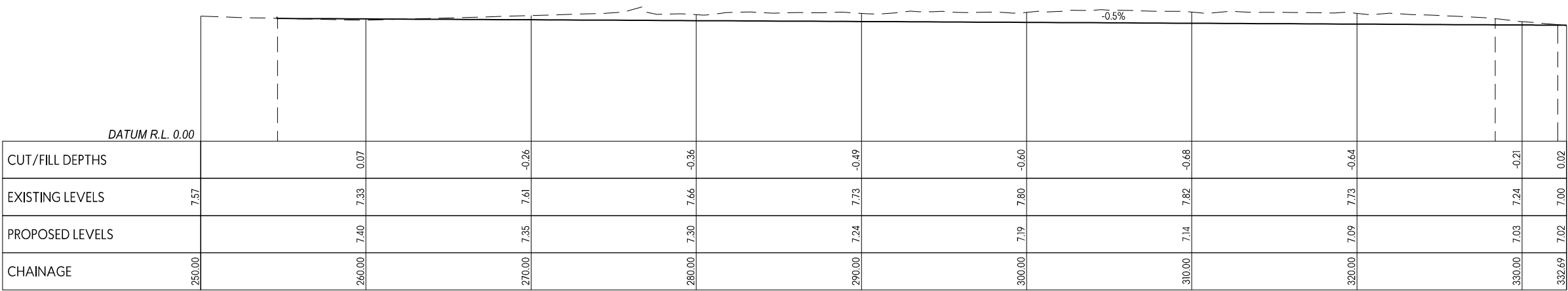
W W W . E N V E L O P E - E N G . C O . N Z

LEGEND:

— — — — — EXISTING GROUND LEVEL

————— PROPOSED GROUND LEVEL





OLFP section  
LONGSECTION BETWEEN 250.00 AND 332.69

LEGEND:

EXISTING GROUND LEVEL

PROPOSED GROUND LEVEL

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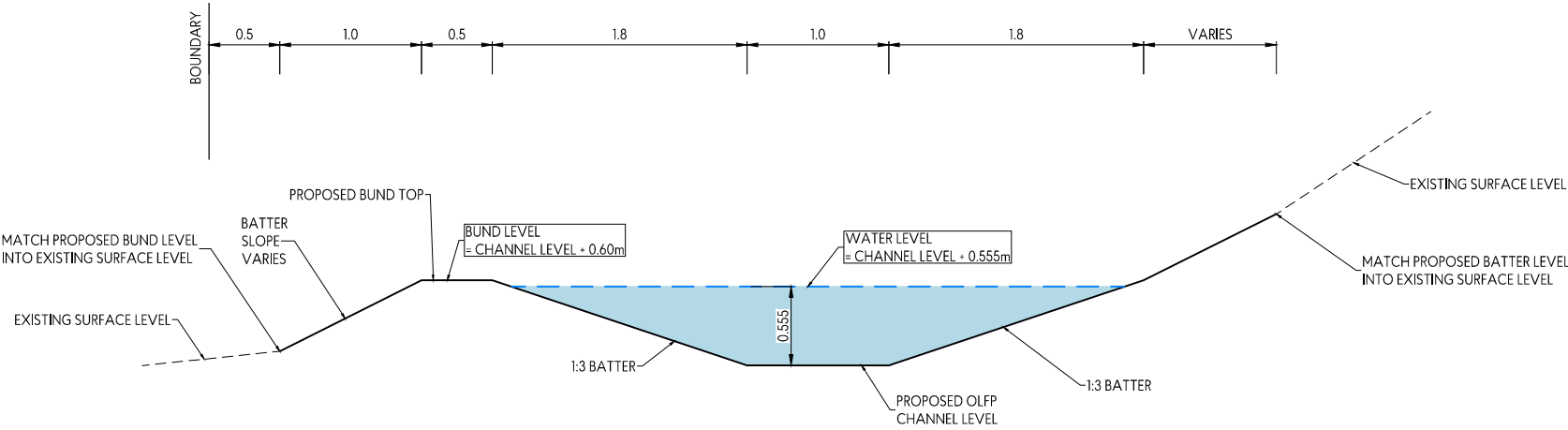
REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024

PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
OVERLAND FLOW PATH  
SECONDARY DIVERSION  
LONGSECTION

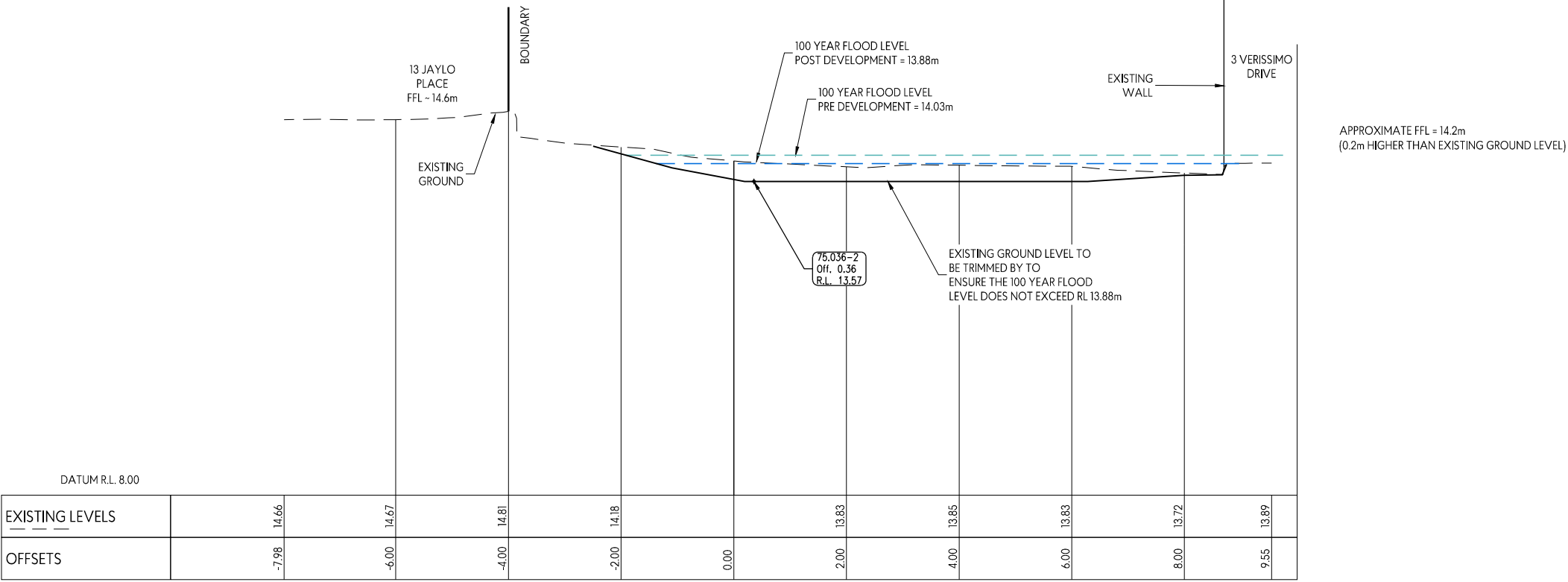


DESIGNED: JDP	DRAWN: SKR	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	1636-02
SCALE A1: 1:150	SCALE A3: 1:300	461
STATUS: FOR CONSENT	PROJECT No:	RC2



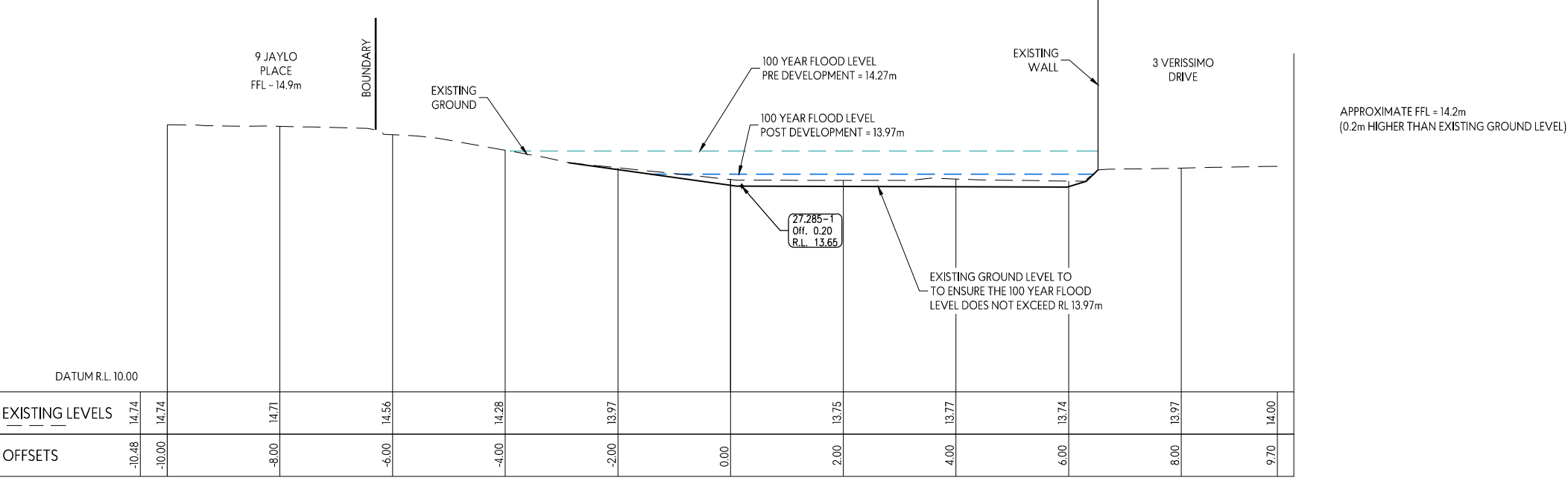
TYPICAL OLFP CROSS SECTION  
SCALE 1:25 @ A1, 1:50 @ A3





OLFP section: CH 49.58

**SECTION B - OVERLAND FLOW PATH**  
**CH: 75.04**  
SCALE 1:50-A1 1:100-A3



OLFP section: CH 27.29

**SECTION A - OVERLAND FLOW PATH**  
**CH: 27.29**  
SCALE 1:50-A1 1:100-A3

**LEGEND:**

- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- - - 100 YEAR FLOOD LEVEL

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REVISIONS:		BY	DATE
REV	NOTES		
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024
RC3	UPDATED FOR PLAN CHANGE RFI	JDP	03-03-2024

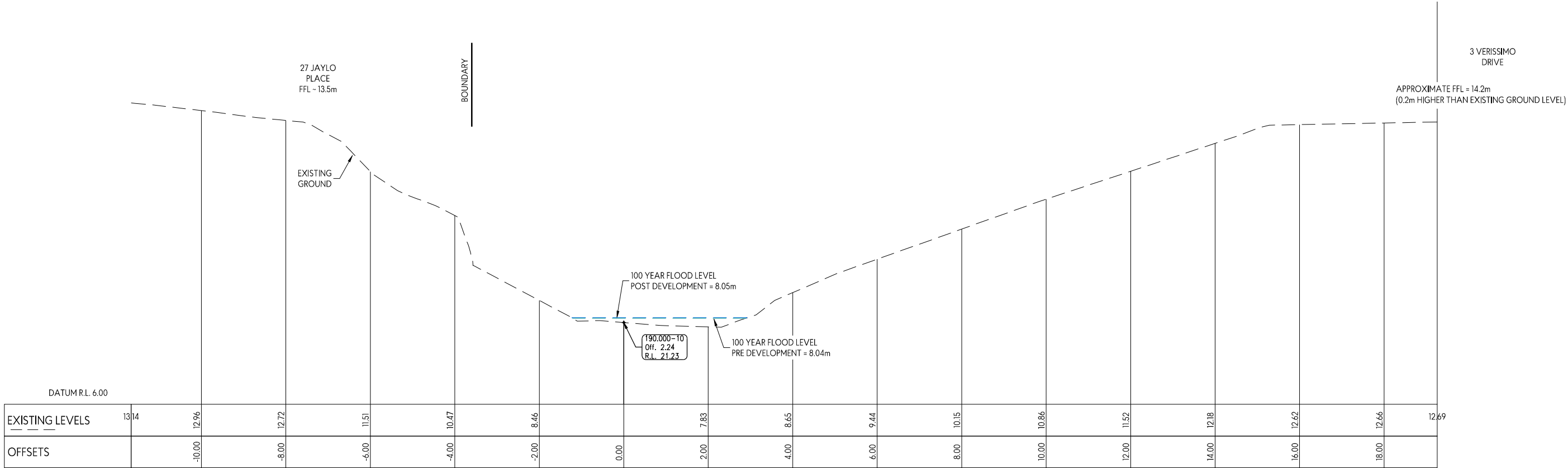
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
OVERLAND FLOW PATH  
SECTIONS - SHEET 1



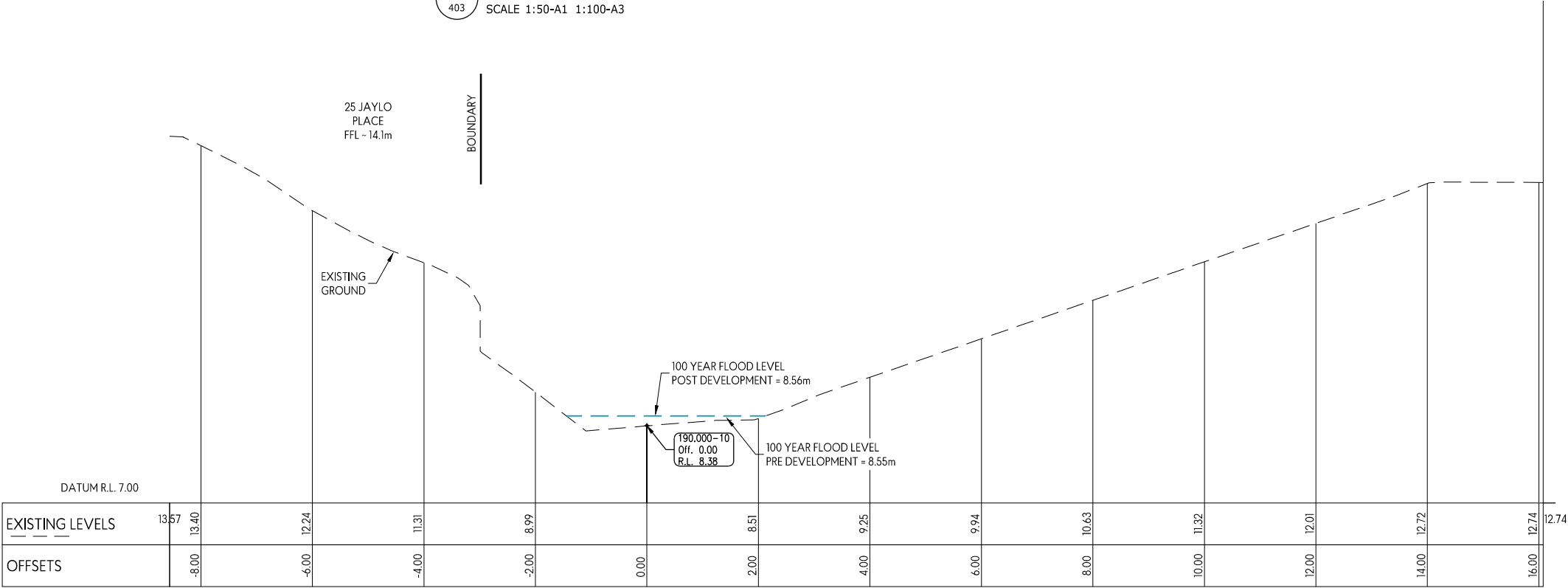
DESIGNED: JDP	DRAWN: MJP	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:50	SCALE A3: 1:100	
STATUS: FOR CONSENT		
PROJECT No: 1636-02	DRAWING No: 462	REVISION: RC3





OLFP section: CH 213.00

**SECTION B3 - OVERLAND FLOW PATH**  
**CH: 213.00**  
SCALE 1:50-A1 1:100-A3



OLFP section: CH 190.00

**SECTION B2 - OVERLAND FLOW PATH**  
**CH: 190.00**  
SCALE 1:50-A1 1:100-A3

**LEGEND:**

- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- - - 100 YEAR FLOOD LEVEL

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	27-02-2025
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	03-03-2025

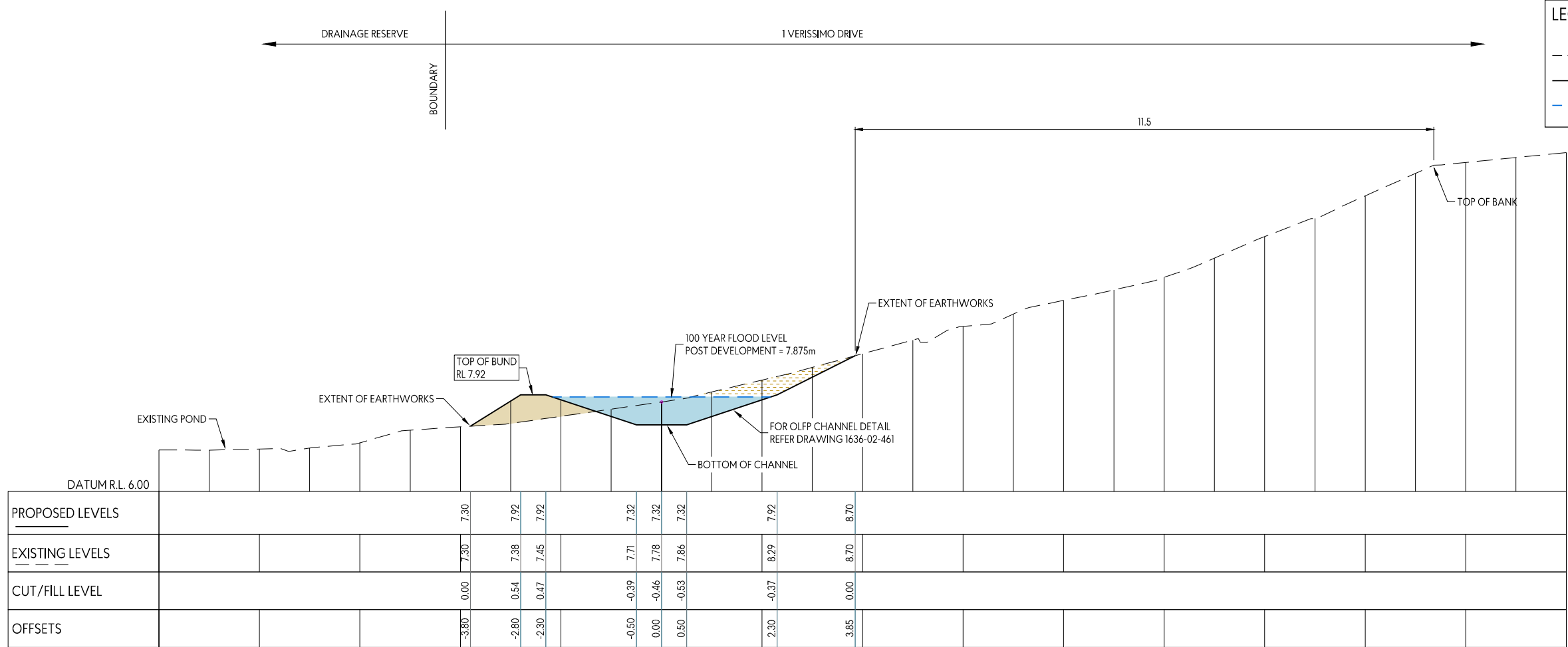
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
OVERLAND FLOW PATH  
SECTIONS - SHEET 1



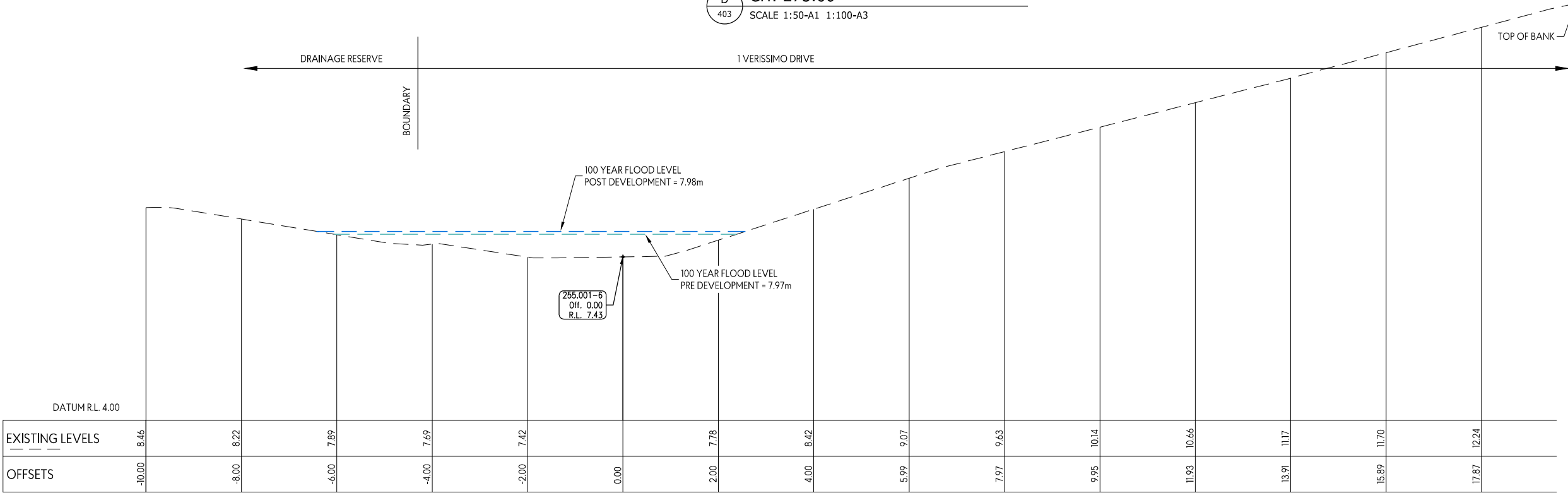
DESIGNED: JDP	DRAWN: MJP	REVISION: <b>RC2</b>
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:50	SCALE A3: 1:100	
STATUS: FOR CONSENT		
PROJECT No: <b>1636-02</b>	DRAWING No: <b>463</b>	





OLFP section: CH 275.00

SECTION D - OVERLAND FLOW PATH  
CH: 275.00  
SCALE 1:50-A1 1:100-A3



OLFP section: CH 255.00

SECTION C - OVERLAND FLOW PATH  
CH: 255.00  
SCALE 1:50-A1 1:100-A3

LEGEND:

- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- - - 100 YEAR FLOOD LEVEL

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	12-12-2024
RC3	UPDATED FOR PLAN CHANGE RFI	JDP	03-03-2025

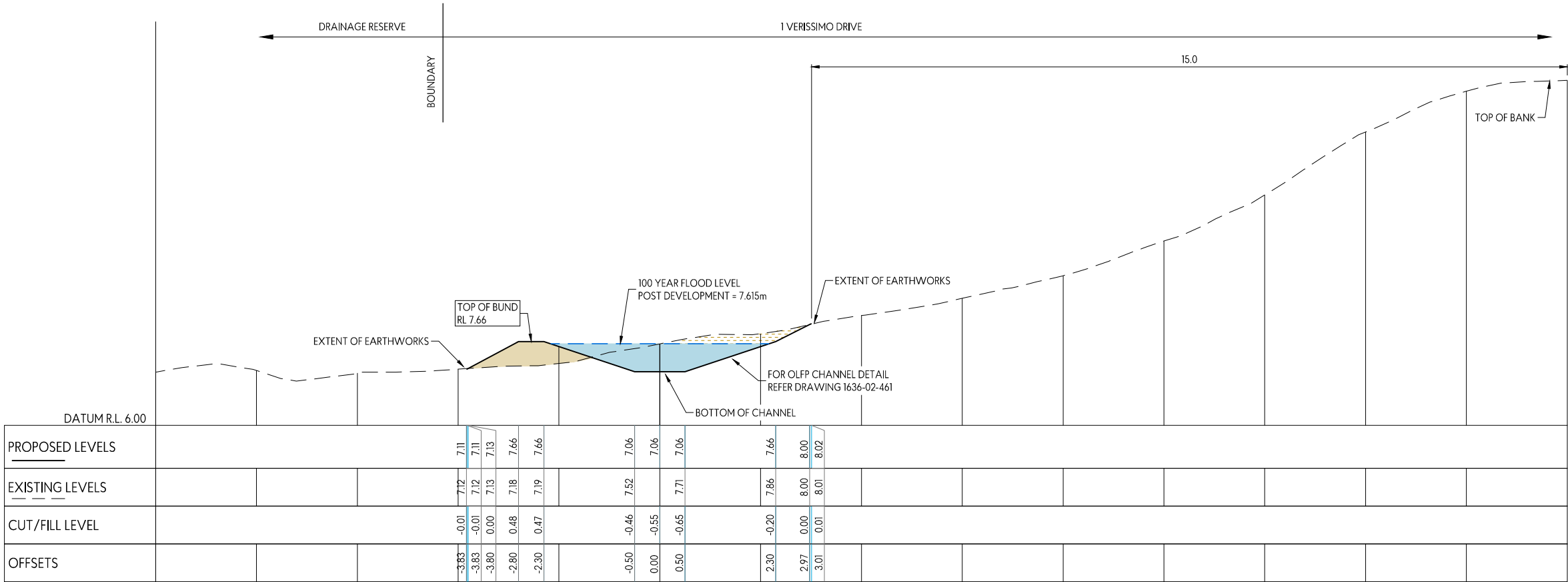
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
OVERLAND FLOW PATH  
SECTIONS - SHEET 2



DESIGNED: JDP	DRAWN: MJP	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	1636-02
SCALE A1: 1:50	SCALE A3: 1:100	464
STATUS: FOR CONSENT	PROJECT No:	RC3



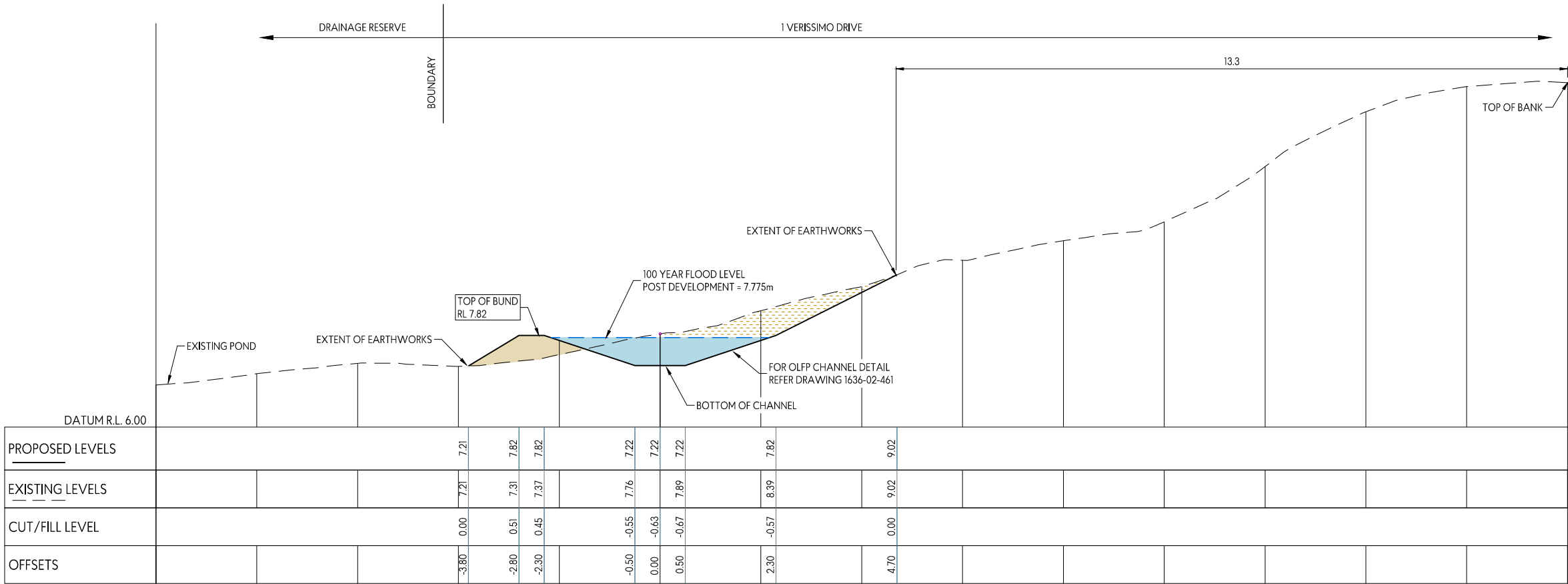


OLFP section: CH 325.00

SECTION F - OVERLAND FLOW PATH  
CH: 325.00

F  
403

SCALE 1:50-A1 1:100-A3



OLFP section: CH 295.00

SECTION E - OVERLAND FLOW PATH  
CH: 295.00

E  
403

SCALE 1:50-A1 1:100-A3

LEGEND:

- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- 100 YEAR FLOOD LEVEL

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	05-03-2024

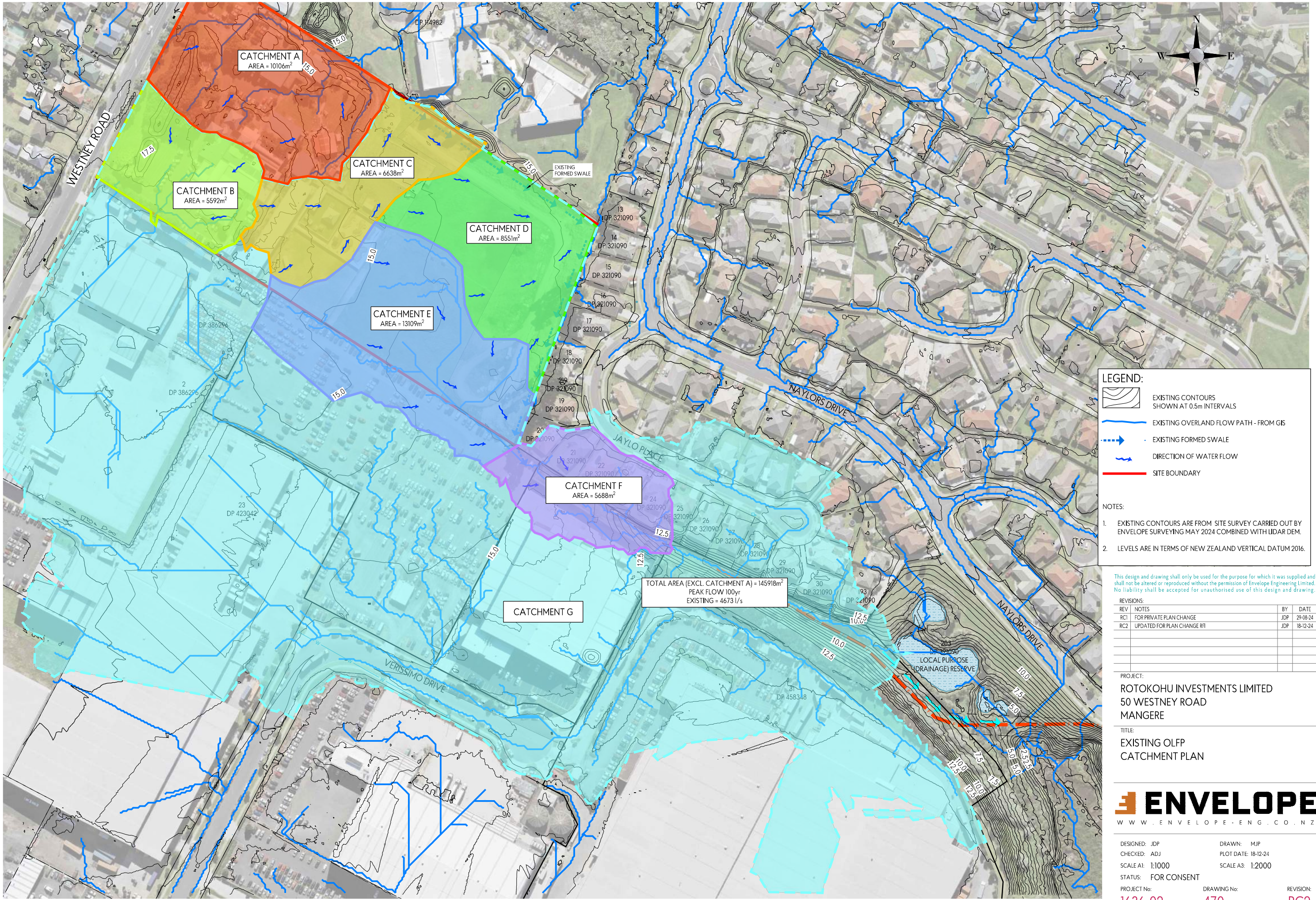
PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
PROPOSED  
OVERLAND FLOW PATH  
SECTIONS - SHEET 3



DESIGNED: JDP	DRAWN: SKR	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	465
SCALE A1: 1:50	SCALE A3: 1:100	RC1
STATUS: FOR CONSENT	PROJECT No: 1636-02	
	DRAWING No:	





**LEGEND:**

- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- EXISTING OVERLAND FLOW PATH - FROM GIS
- EXISTING FORMED SWALE
- DIRECTION OF WATER FLOW
- SITE BOUNDARY

- NOTES:**
- EXISTING CONTOURS ARE FROM SITE SURVEY CARRIED OUT BY ENVELOPE SURVEYING MAY 2024 COMBINED WITH LIDAR DEM.
  - LEVELS ARE IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016.

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REVISIONS:		BY	DATE
REV	NOTES	JDP	29-08-24
RC1	FOR PRIVATE PLAN CHANGE	JDP	18-12-24
RC2	UPDATED FOR PLAN CHANGE RFI	JDP	

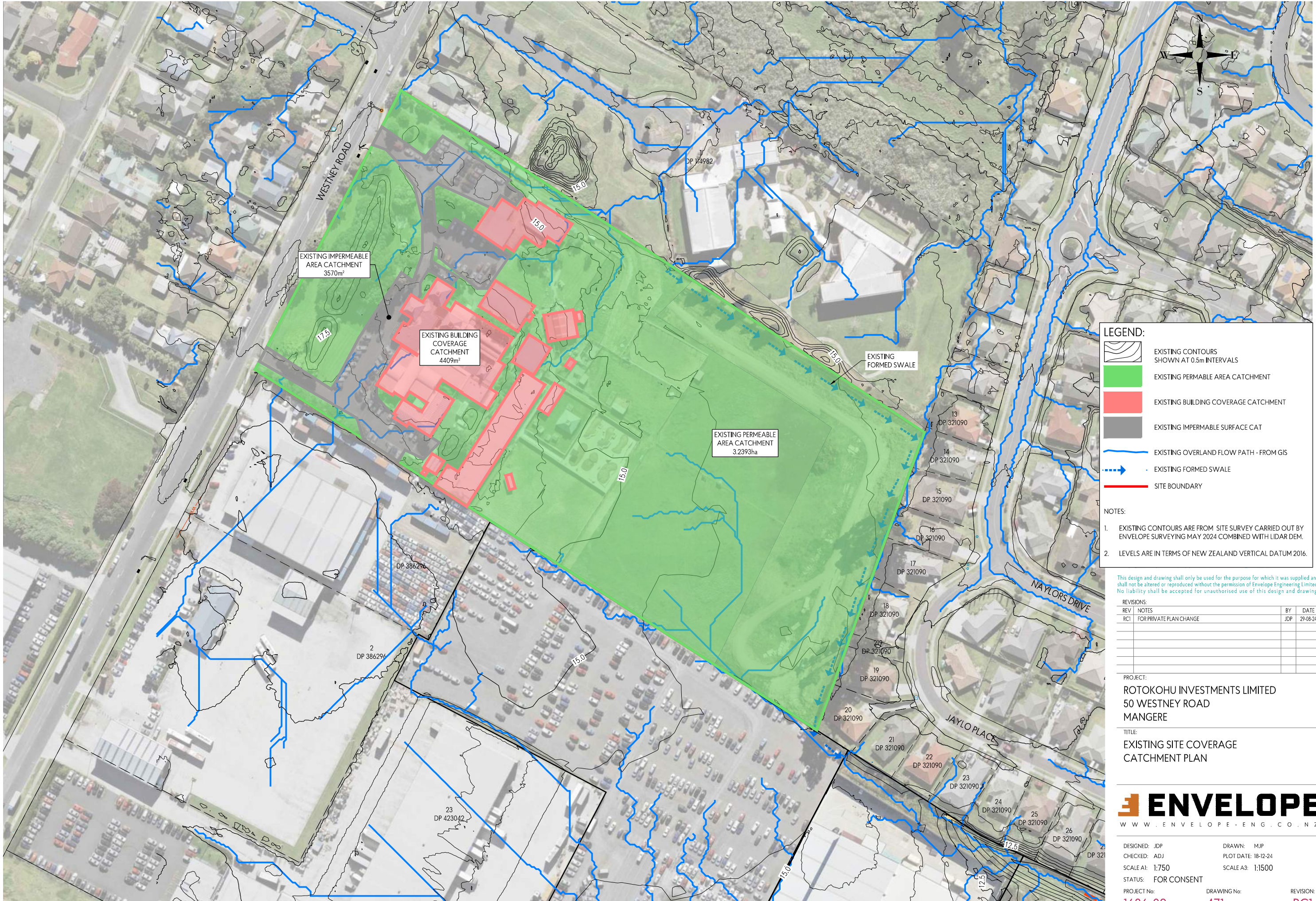
PROJECT:  
ROKOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
EXISTING OLFP  
CATCHMENT PLAN



DESIGNED: JDP	DRAWN: MJP	REVISION: <b>RC2</b>
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:1000	SCALE A3: 1:2000	
STATUS: FOR CONSENT		
PROJECT No: <b>1636-02</b>	DRAWING No: <b>470</b>	





**LEGEND:**

- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- EXISTING PERMEABLE AREA CATCHMENT
- EXISTING BUILDING COVERAGE CATCHMENT
- EXISTING IMPERMEABLE SURFACE CAT
- EXISTING OVERLAND FLOW PATH - FROM GIS
- EXISTING FORMED SWALE
- SITE BOUNDARY

**NOTES:**

- EXISTING CONTOURS ARE FROM SITE SURVEY CARRIED OUT BY ENVELOPE SURVEYING MAY 2024 COMBINED WITH LIDAR DEM.
- LEVELS ARE IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016.

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REVISIONS:			
REV	NOTES	BY	DATE
RC1	FOR PRIVATE PLAN CHANGE	JDP	29-08-24

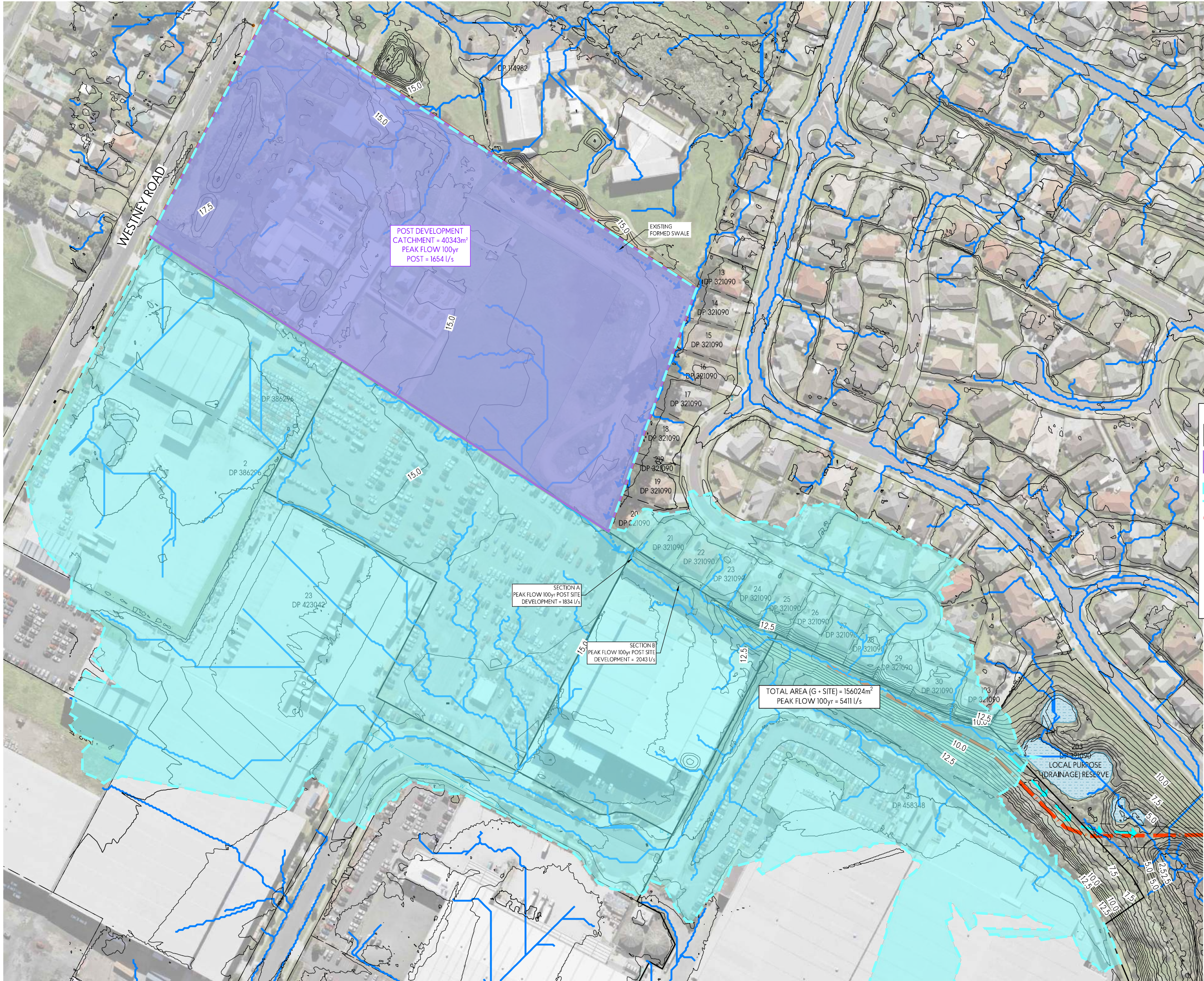
PROJECT:  
ROKOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
EXISTING SITE COVERAGE  
CATCHMENT PLAN



DESIGNED: JDP	DRAWN: MJP	REVISION: <b>RC1</b>
CHECKED: ADJ	PLOT DATE: 18-12-24	
SCALE A1: 1:750	SCALE A3: 1:1500	
STATUS: FOR CONSENT		
PROJECT No: <b>1636-02</b>	DRAWING No: <b>471</b>	





**LEGEND:**

- EXISTING CONTOURS SHOWN AT 0.5m INTERVALS
- POST DEVELOPMENT CATCHMENT
- POST DEVELOPMENT CATCHMENT F
- SITE BOUNDARY

**NOTES:**

- EXISTING CONTOURS ARE FROM SITE SURVEY CARRIED OUT BY ENVELOPE SURVEYING MAY 2024 COMBINED WITH LIDAR DEM.
- LEVELS ARE IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016.

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REV		NOTES	BY	DATE
RC1		FOR PRIVATE PLAN CHANGE	JDP	18-12-24

PROJECT:  
ROTOKOHU INVESTMENTS LIMITED  
50 WESTNEY ROAD  
MANGERE

TITLE:  
POST DEVELOPMENT  
CATCHMENT PLAN



DESIGNED: JDP	DRAWN: MJP	REVISION:
CHECKED: ADJ	PLOT DATE: 18-12-24	1636-02
SCALE A1: 1:750	SCALE A3: 1:1500	472
STATUS: FOR CONSENT		RC1
PROJECT No:	DRAWING No:	