

SEE SHEET 101



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND
 - - - CONTOURS MAJOR
 - - - CONTOURS MINOR
 - - - STAGE BOUNDARIES
 - - - LOT BOUNDARIES

DISCLAIMER:
 THE INFORMATION PORTHAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18
2 SIGNED FOR ISSUE	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	MB	
DRAWN	PM	
CHECKED	AF	
APPROVED	RH	



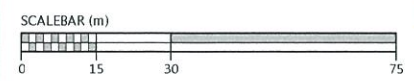
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 FINAL CONTOUR
 ASBUILT PLAN
 SHEET 1 OF 3
 (SLC - 66650)**

STATUS	AS - BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-100-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:
 • The coordinates (X,Y) are in terms of NZTM on NZGD2000
 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: ROWAN HALLAM

SEE SHEET 102





NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND
 ——— CONTOURS MAJOR
 - - - CONTOURS MINOR
 - - - - STAGE BOUNDARIES
 ——— LOT BOUNDARIES

DISCLAIMER:
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
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DRAWN	PM	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
FINAL CONTOUR
ASBUILT PLAN
SHEET 2 OF 3
(SLC - 66650)**

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 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

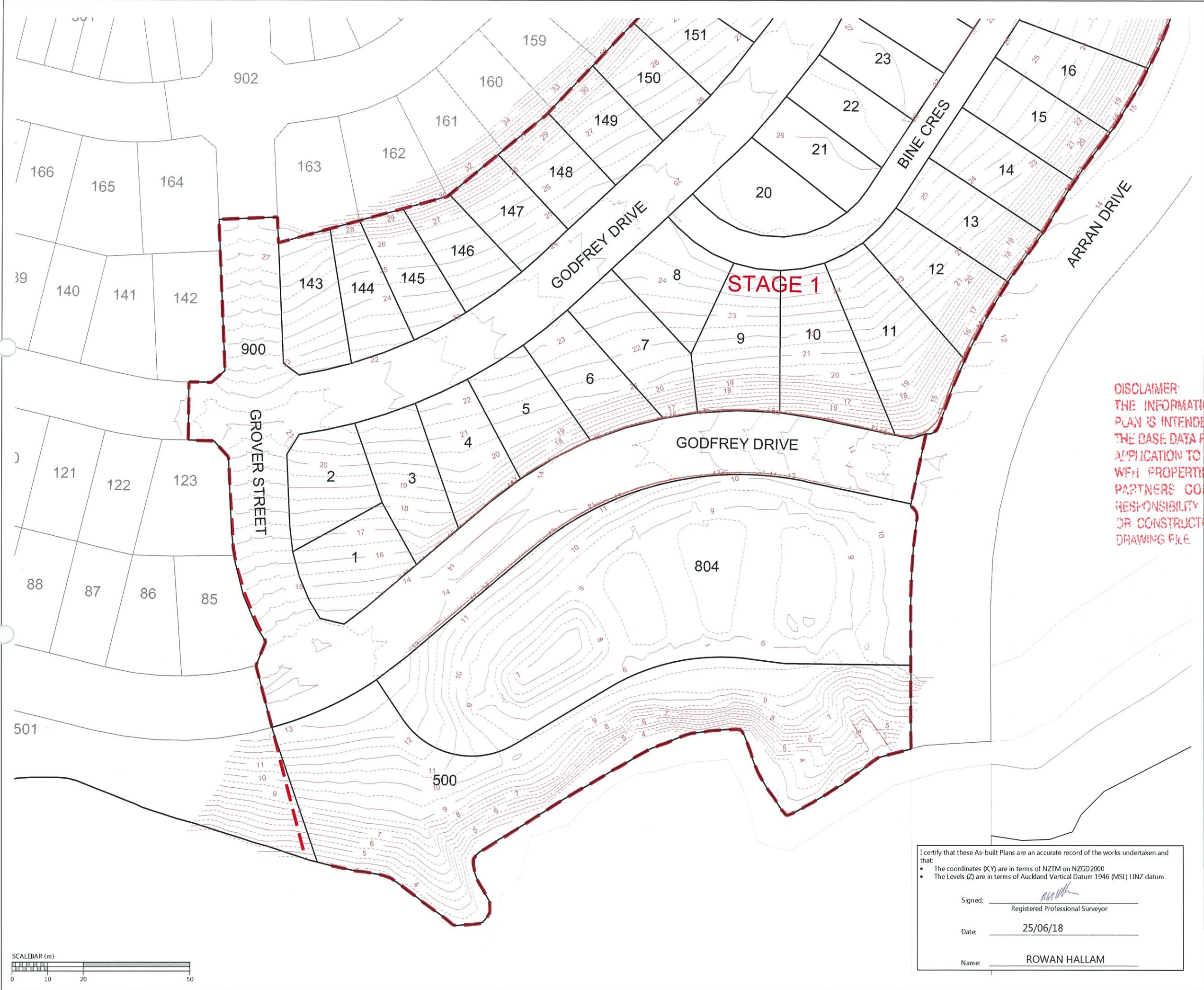
Signed: _____
Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-101-AB	

Document No. K137501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-100-AB-FINAL CONTOURS.DWG



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	CONTOURS MAJOR
	CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

DISCLAIMER:
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	PM	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
FINAL CONTOUR
ASBUILT PLAN
SHEET 3 OF 3
(SLC - 66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-102-AB	

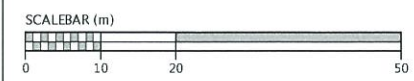
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM



Document No. K\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-100-AB-FINAL CONTOURS.DWG



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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



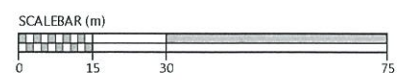
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 CUT & FILL AS-BUILT
 ORIGINAL TO LOWEST SURFACE
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-110-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: ROWAN HALLAM



Document No. K:\37501 - Arran Hill Precinct 5 Stage 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-110-AB-CUT FILL CONTOURS.DWG



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 PLAN IS INTENDED TO BE SOLELY USED AS
 THE BASE DATA FOR THE PURPOSES OF 2240
 APPLICATION TO COUNCIL.
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 PARTNERS CONSULTANTS ACCEPT NO
 RESPONSIBILITY FOR ANY BUILDING DESIGN
 OR CONSTRUCTION WORK BASED ON THIS
 DRAWING FILE.

NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- ZERO CONTOUR
- CUT CONTOUR
- FILL CONTOUR
- - - STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 CUT & FILL AS-BUILT
 LOWEST TO FINAL SURFACE
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-111-AB	



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *Rowan Hallam*
 Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM

Document No. K37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-110-AB-CUT FILL CONTOURS.DWG

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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



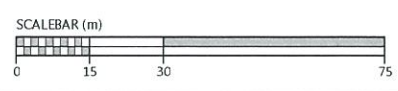
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 CUT & FILL AS-BUILT
 ORIGINAL TO FINAL SURFACE
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-112-AB	

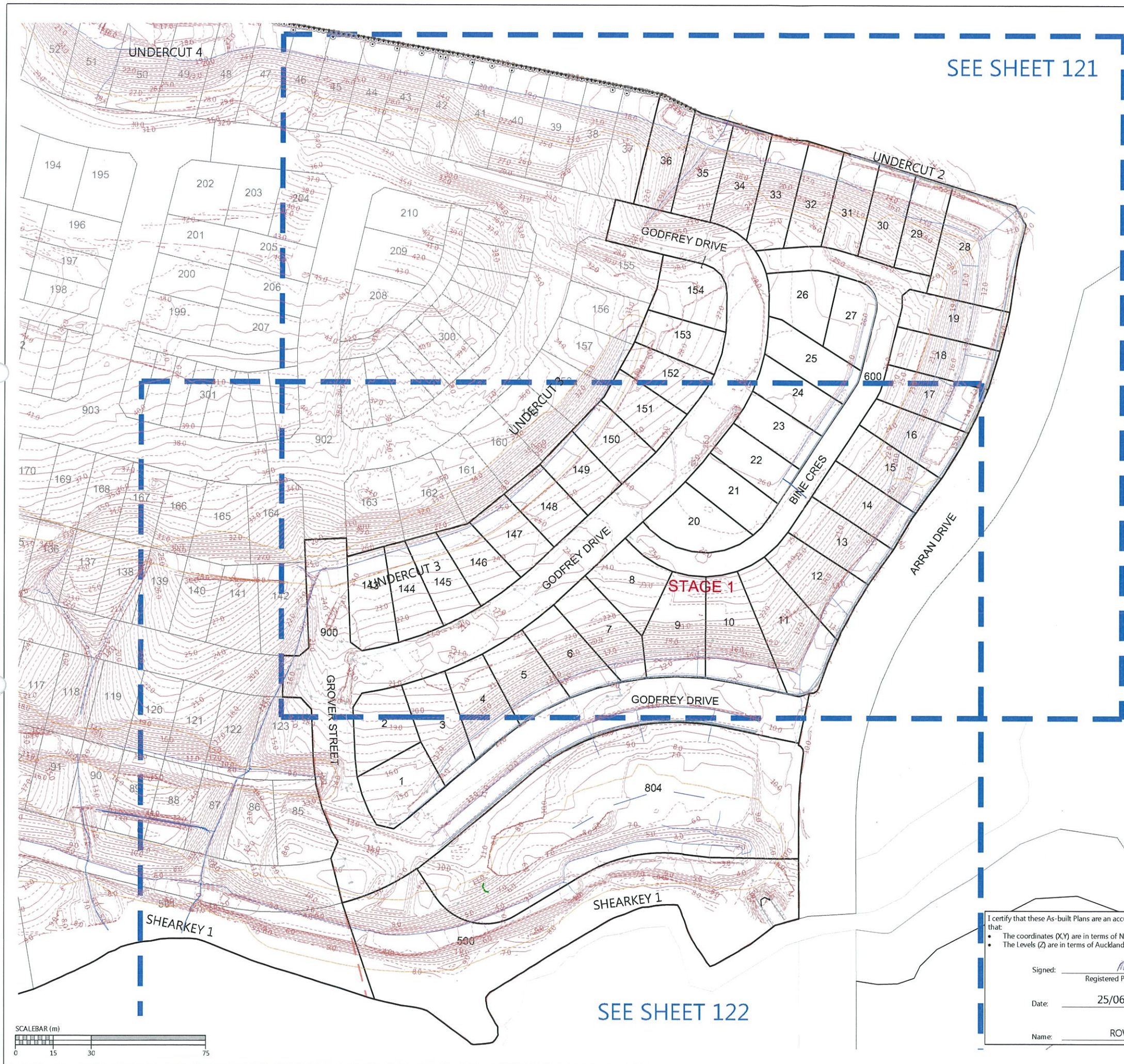
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: ROWAN HALLAM



Document No. K\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-110-AB-CUT FILL CONTOURS.DWG



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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS
 2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

	NOVACOIL SUBSOIL DRAINS
	UPVC SUBSOIL DRAINS
	EXISTING STORMWATER DRAINAGE
	NEW STORMWATER DRAINAGE
	STAGE BOUNDARIES
	LOT BOUNDARIES
	CONTOURS
	SHEAR KEY & UNDERCUT AREAS
	PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	07/06/18
2	SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 SHEET 1 OF 3
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-120-AB	

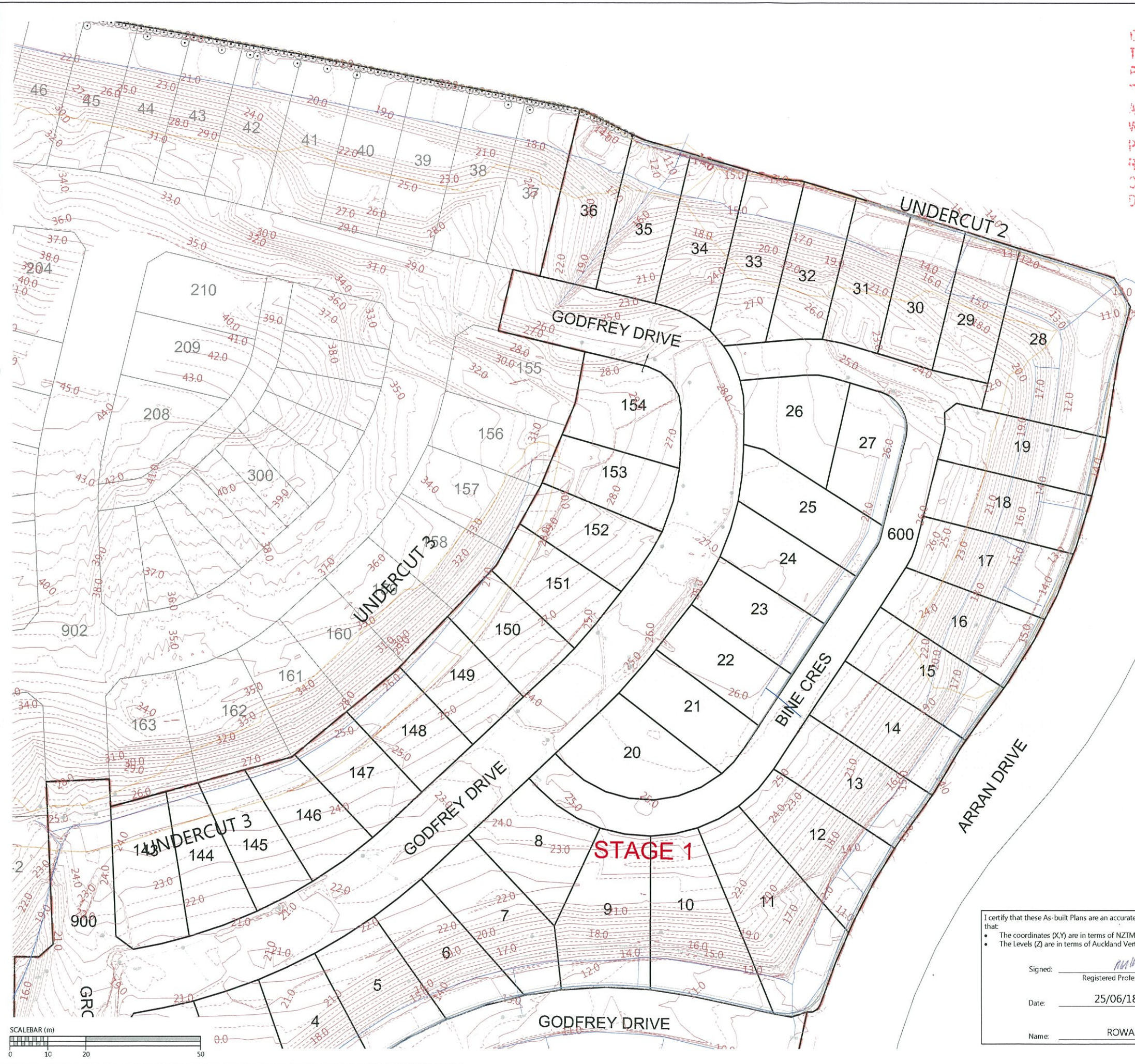
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: ROWAN HALLAM

Document No. K:\37501 - Arran Hill Precinct 5 Stage 1\Project data\ACAD Drawings\Surv\As-built\37501-01-120-AB-SK UC & SUBSOIL.DWG, 25/06/2018 2:33:19 p.m.

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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS
 2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

	NOVACOIL SUBSOIL DRAINS
	UPVC SUBSOIL DRAINS
	EXISTING STORMWATER DRAINAGE
	NEW STORMWATER DRAINAGE
	STAGE BOUNDARIES
	LOT BOUNDARIES
	CONTOURS
	SHEAR KEY & UNDERCUT AREAS
	PAUSADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	07/06/18
2 SIGNED AND ISSUED	MRH	26/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



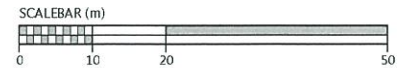
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 SHEET 2 OF 3
 (SLC - 66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-121-AB	

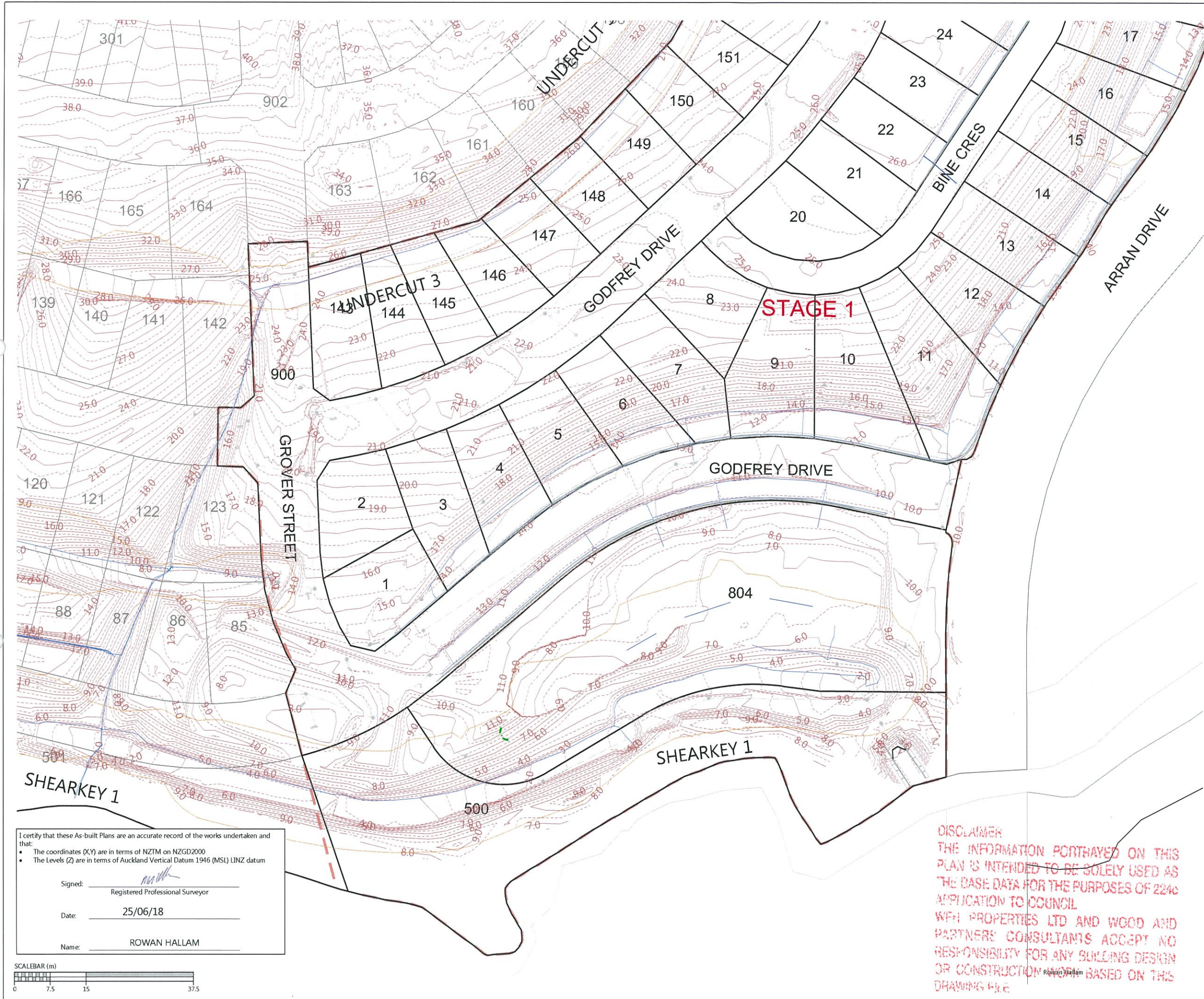
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: ROWAN HALLAM



Document No. K:\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-120-AB-SK UC & SUBSOIL.DWG



NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

- NOVACOIL SUBSOIL DRAINS
- UPVC SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	07/06/18
2	SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	

**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
SHEAR KEY, UNDERCUT
AND SUBSOIL DRAIN ASBUILT
SHEET 3 OF 3
(SLC - 66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-122-AB	

DISCLAIMER
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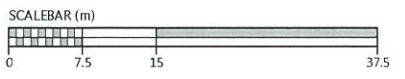
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM





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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE
- STAGE BOUNDARY

DISCLAIMER
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	14/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	T&T	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
RETAINING WALL AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 5
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-130-AB	

Document No. K\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-130-AB-WALLS.DWG

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 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

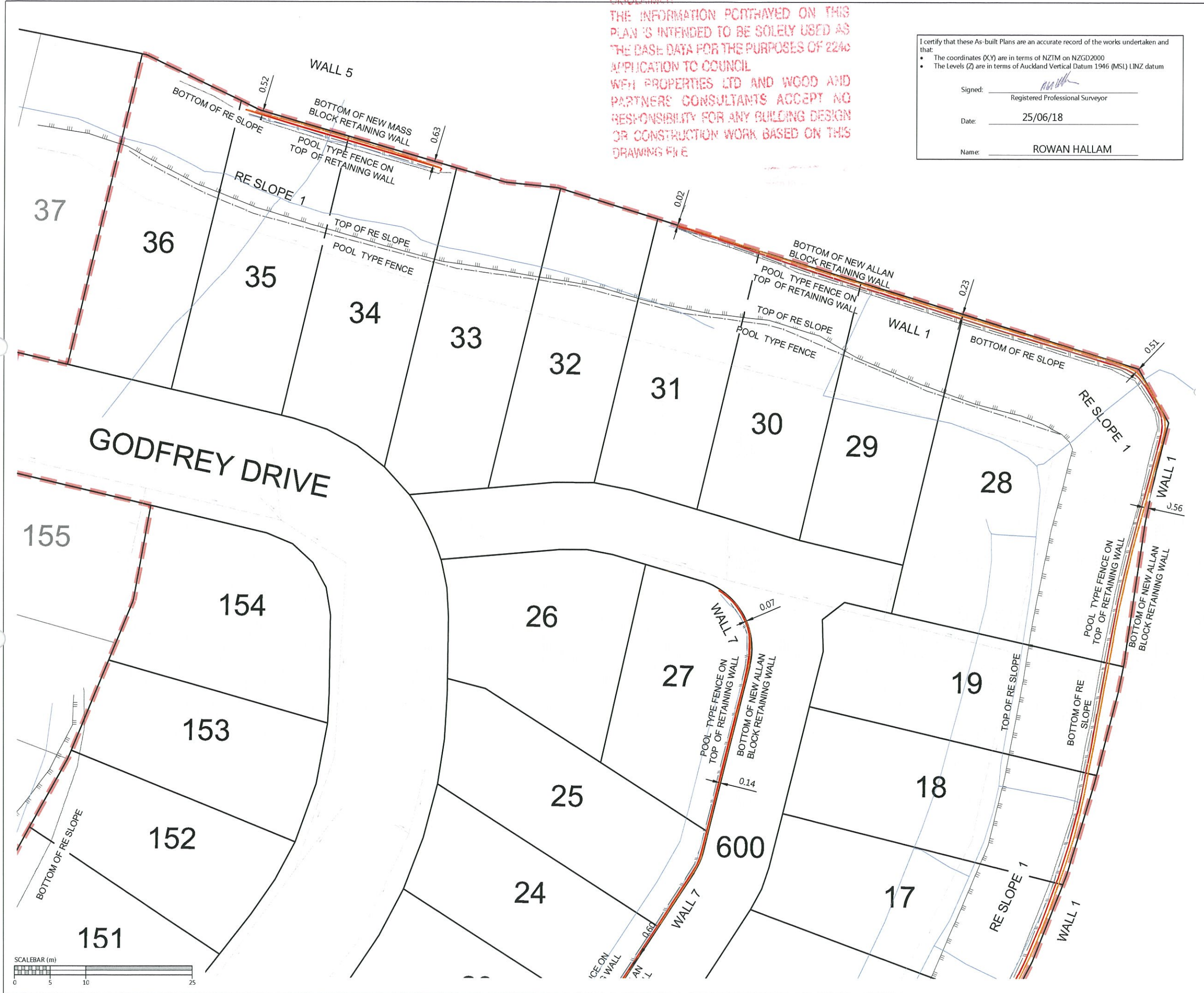
Date: 25/06/18

Name: ROWAN HALLAM



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE
- STAGE BOUNDARY



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	14/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

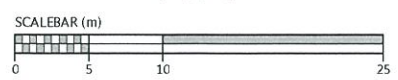
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

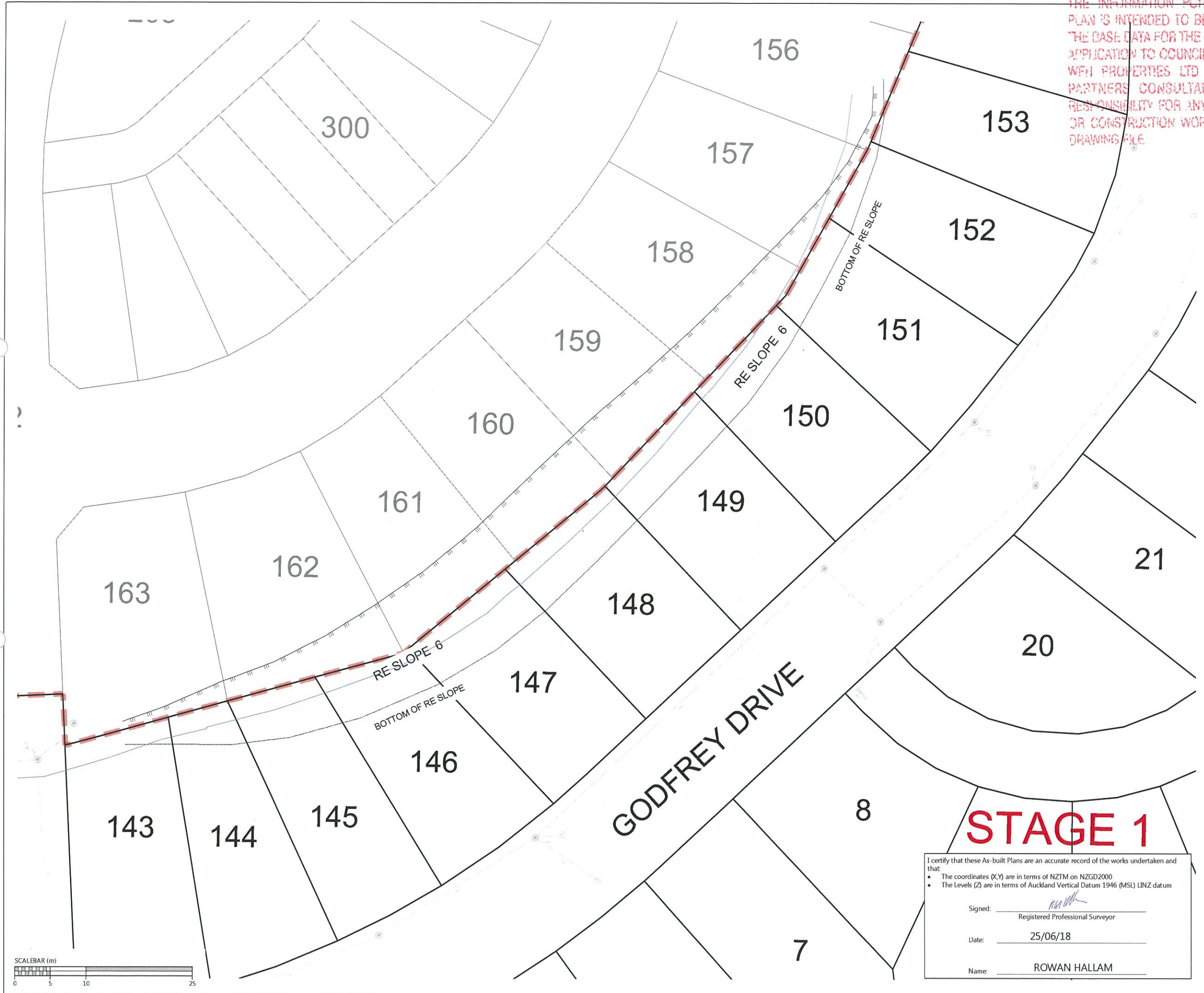
RETAINING WALL AS-BUILT
 SHEET 2 OF 5
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-131-AB	



Document No. K\37501 - Arran Hill Precinct 5 Stage 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-130-AB-WALLS.DWG

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 PLAN IS INTENDED TO BE SOLELY USED AS
 THE BASE DATA FOR THE PURPOSES OF 2240
 APPLICATION TO OCUNIL
 WFN PROPERTIES LTD AND WOOD AND
 PARTNERS CONSULTANTS ACCEPT NO
 RESPONSIBILITY FOR ANY BUILDING DESIGN
 OR CONSTRUCTION WORK BASED ON THIS
 DRAWING FILE.



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- ☐ CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE
- STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	14/06/18
2	SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

RETAINING WALL AS-BUILT
 SHEET 3 OF 5
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-132-AB	

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

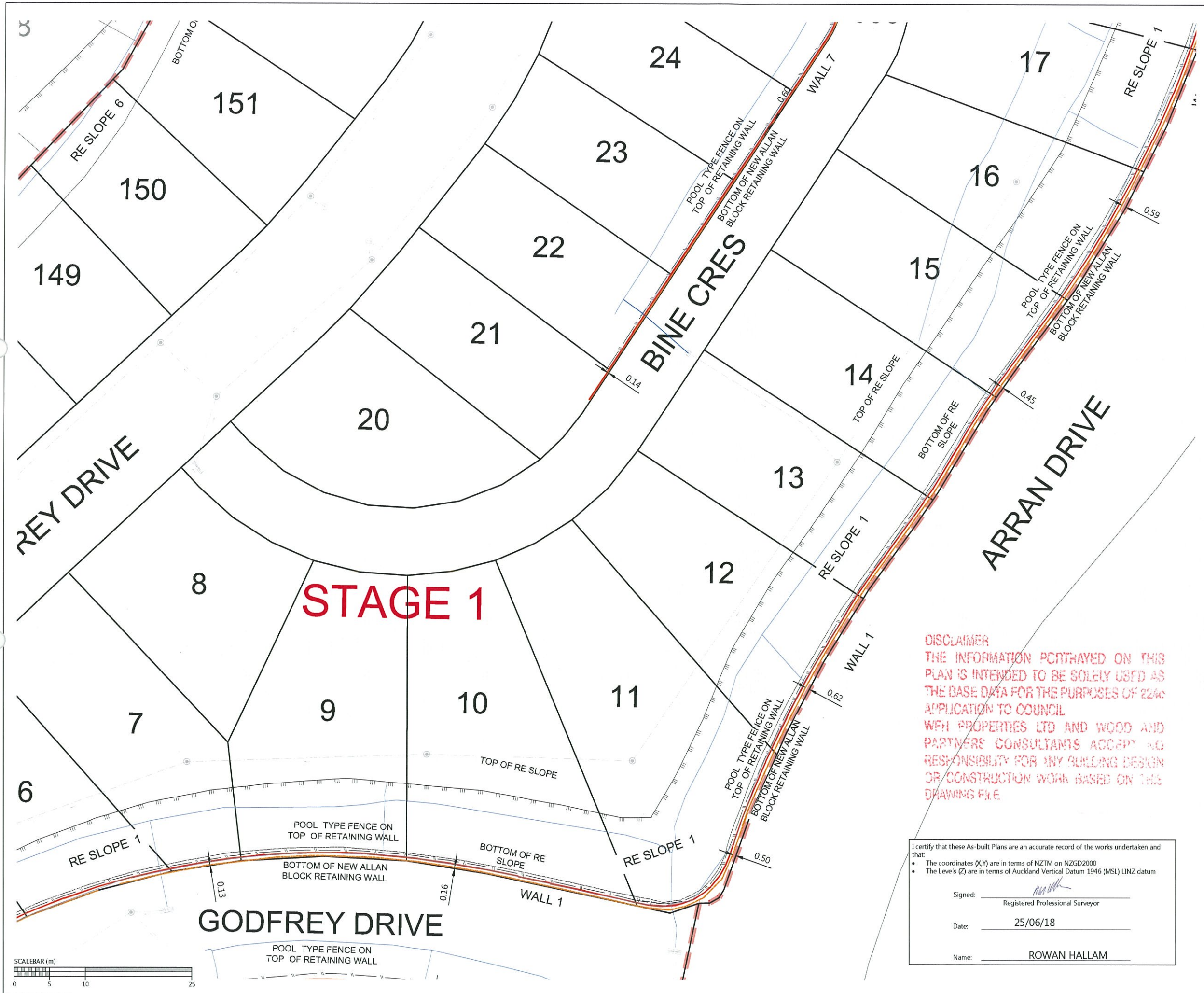
Signed: _____
 Registered Professional Surveyor

Date: 25/06/18

Name: ROWAN HALLAM



Document No. K:\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-130-AB-WALLS.DWG



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE
- STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	14/06/18
2	SIGNED AND ISSUED	MRH	25/06/08

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
RETAINING WALL AS-BUILT
SHEET 4 OF 5
(SLC-66650)**

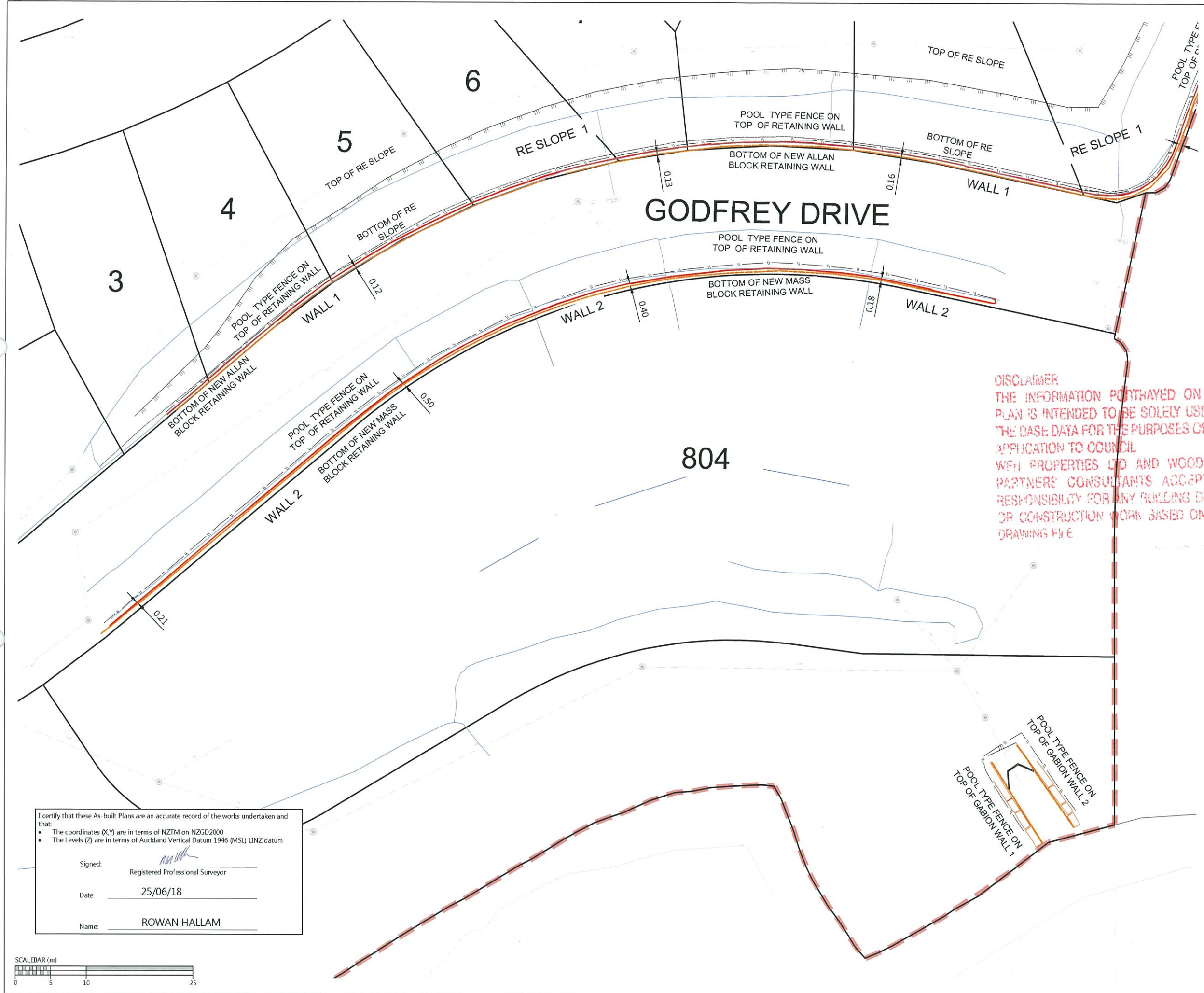
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-133-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
Date: 25/06/18
Name: ROWAN HALLAM



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE
- STAGE BOUNDARY

DISCLAIMER
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	14/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 RETAINING WALL AS-BUILT
 SHEET 5 OF 5
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-134-AB	

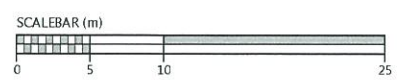
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 25/06/18

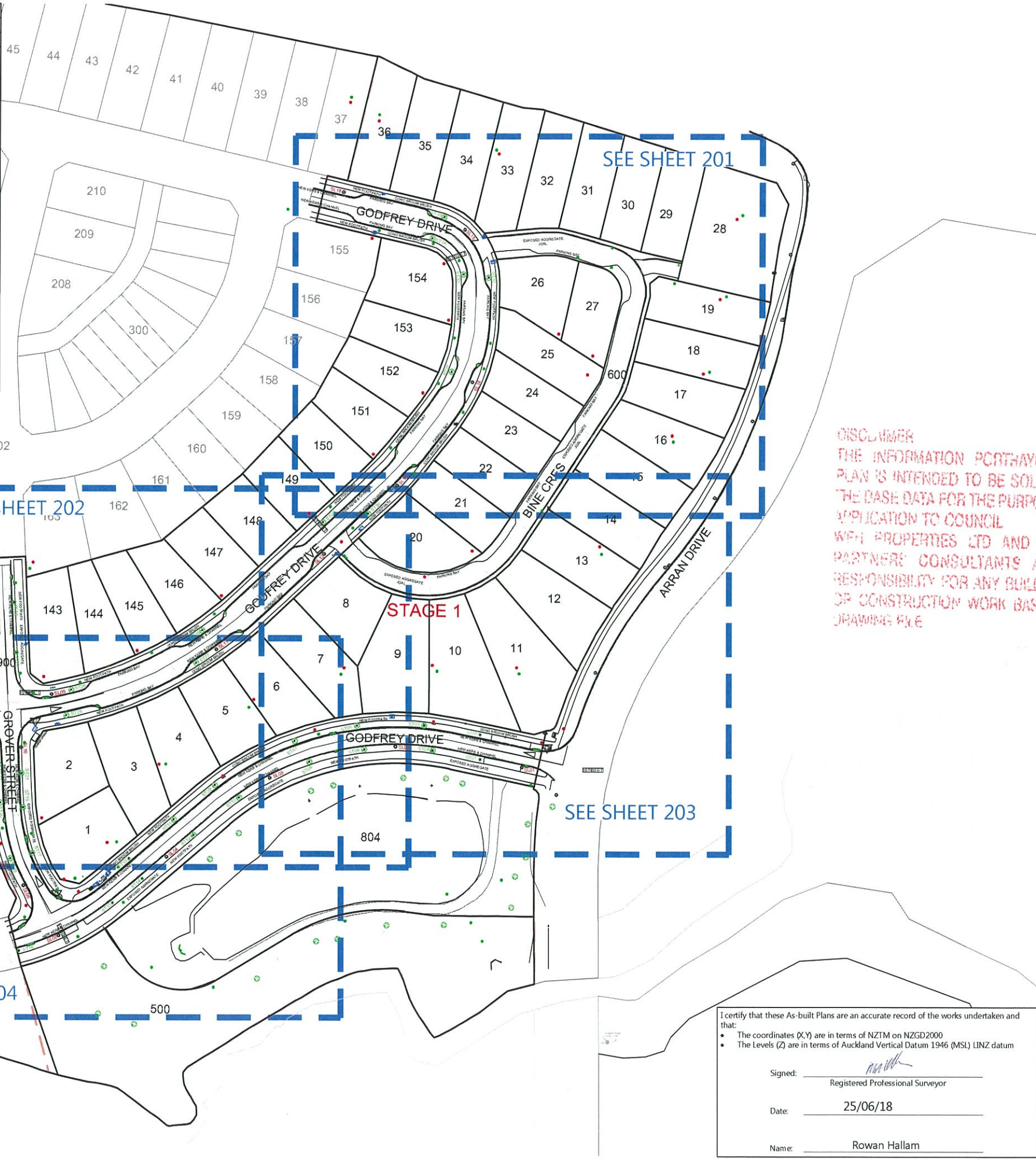
Name: ROWAN HALLAM



Document No. K:\37501 - ARRAN HILL PRECINCT 5 STAGE 1\PROJECT DATA\ACAD DRAWINGS\SURV\AS-BUILT\37501-01-130-AB-WALLS.DWG



Schedule of Coordinates				Schedule of Coordinates			
Street Trees				Street Lights			
Tree #	Easting	Northing	Tree Type	No#	Easting	Northing	Type
ST01	1749430.06	5949173.37		SL01	1749539.61	5949383.53	
ST02	1749430.08	5949182.09		SL02	1749538.76	5949351.52	
ST03	1749413.34	5949176.55		SL03	1749525.56	5949292.86	
ST04	1749410.36	5949185.30		SL04	1749512.30	5949265.70	
ST05	1749386.69	5949185.24		SL05	1749494.85	5949241.24	
ST06	1749389.26	5949176.84		SL06	1749470.50	5949204.01	
ST07	1749364.87	5949179.78		SL07	1749456.75	5949160.97	
ST08	1749369.97	5949172.49		SL01	1749444.76	5949170.66	
ST09	1749336.82	5949164.20		SL02	1749400.21	5949177.84	
ST10	1749345.31	5949159.85		SL03	1749356.10	5949166.80	
ST11	1749322.33	5949152.07		SL04	1749319.81	5949138.97	
ST12	1749329.26	5949146.67		SL05	1749281.85	5949111.29	
ST13	1749306.57	5949138.35		SL06	1749269.43	5949128.83	
ST14	1749311.24	5949131.29		SL07	1749252.63	5949185.42	
ST15	1749300.80	5949122.79		SL08	1749259.34	5949208.11	
ST16	1749267.79	5949105.89		SL09	1749279.36	5949196.18	
ST17	1749272.51	5949140.21		SL10	1749268.63	5949177.42	
ST18	1749264.84	5949138.32		SL11	1749337.33	5949212.05	
ST19	1749269.23	5949156.26		SL12	1749375.13	5949245.80	
ST20	1749261.33	5949157.99		SL13	1749400.65	5949269.89	
ST21	1749268.70	5949168.25		SL14	1749427.13	5949306.39	
ST22	1749260.70	5949171.30		SL15	1749424.36	5949360.02	
ST23	1749241.30	5949185.44		SL16	1749381.73	5949373.19	
ST24	1749243.77	5949193.87					
ST25	1749284.54	5949188.74					
ST26	1749286.29	5949197.76					
ST27	1749330.20	5949207.28					
ST28	1749332.32	5949218.77					
ST29	1749374.73	5949256.97					
ST30	1749390.53	5949259.97					
ST31	1749419.84	5949310.05					
ST32	1749432.81	5949343.18					
ST33	1749423.91	5949344.30					
ST34	1749412.91	5949357.02					
ST35	1749417.11	5949364.49					
ST36	1749266.92	5949210.84					
ST37	1749258.83	5949218.81					
ST38	1749266.10	5949228.51					
ST39	1749258.22	5949231.10					

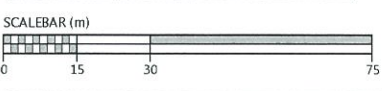


- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
 2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
 3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
 4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
 5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
 6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL WITH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

LEGEND

	STREET LIGHT
	ROAD NAME SIGN
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	RG-6 SIGN (GIVE WAY)
	STREET TREE
	STAGE EXTENTS
	SS MANHOLE
	SS ISOLATION VALVE
	SS FLUSHING POINT
	WATER MANIFOLD BOX
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 ROADING AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 5
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-200-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

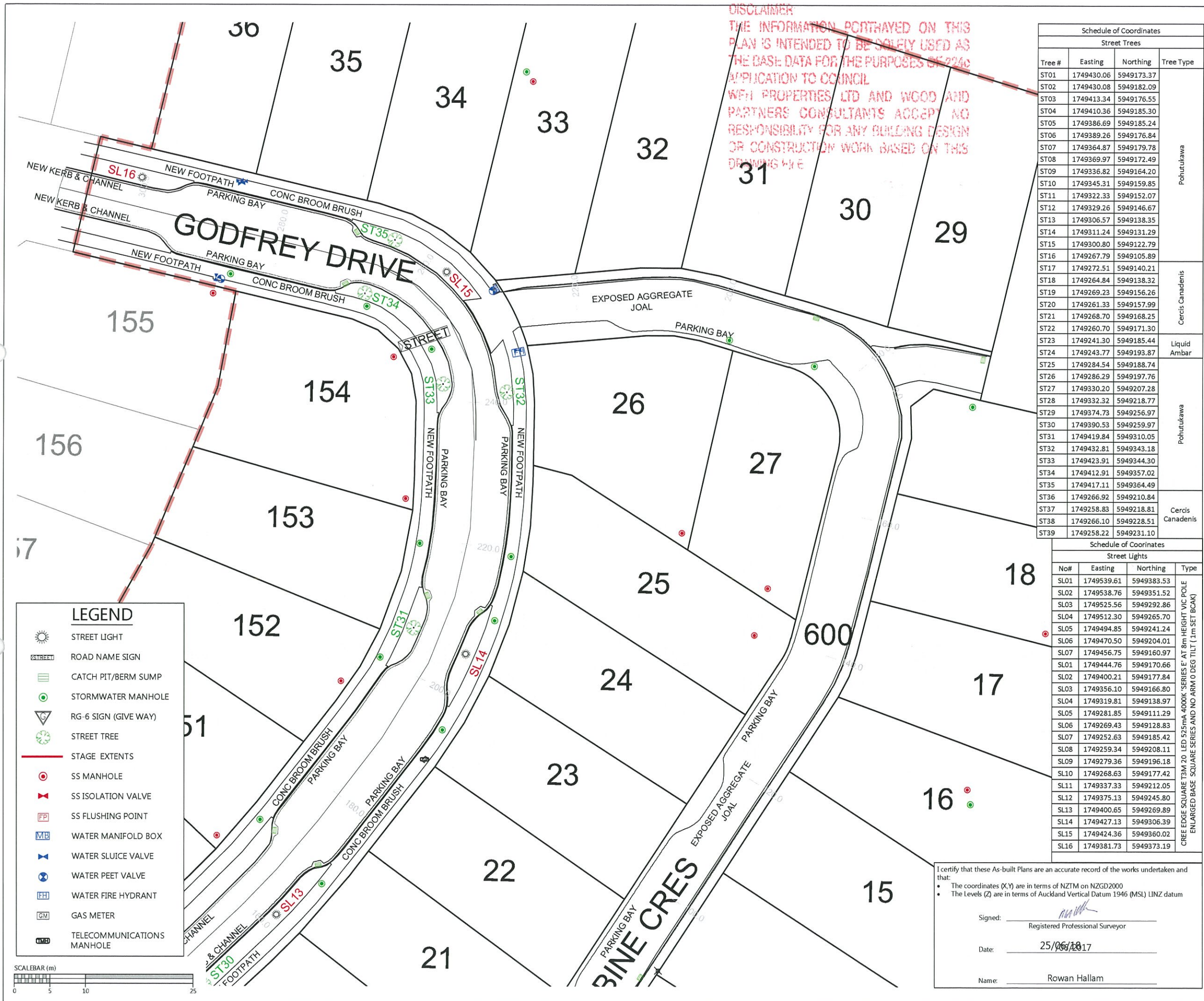
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 25/06/18

Name: Rowan Hallam

Document No. K:\37501 - Arran Hill Precinct 5 Stage 1\Project data\ACAD Drawings\Surv\As-built\37501-01-200-AB-ROADING PLANS.dwg



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 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING W/E

Schedule of Coordinates			
Street Trees			
Tree #	Easting	Northing	Tree Type
ST01	1749430.06	5949173.37	Pohutukawa
ST02	1749430.08	5949182.09	
ST03	1749413.34	5949176.55	
ST04	1749410.36	5949185.30	
ST05	1749386.69	5949185.24	
ST06	1749389.26	5949176.84	
ST07	1749364.87	5949179.78	
ST08	1749369.97	5949172.49	
ST09	1749336.82	5949164.20	
ST10	1749345.31	5949159.85	
ST11	1749322.33	5949152.07	
ST12	1749329.26	5949146.67	
ST13	1749306.57	5949138.35	
ST14	1749311.24	5949131.29	
ST15	1749300.80	5949122.79	
ST16	1749267.79	5949105.89	
ST17	1749272.51	5949140.21	Cercis Canadensis
ST18	1749264.84	5949138.32	
ST19	1749269.23	5949156.26	
ST20	1749261.33	5949157.99	
ST21	1749268.70	5949168.25	Liquid Ambar
ST22	1749260.70	5949171.30	
ST23	1749241.30	5949185.44	Pohutukawa
ST24	1749243.77	5949193.87	
ST25	1749284.54	5949188.74	
ST26	1749286.29	5949197.76	
ST27	1749330.20	5949207.28	
ST28	1749332.32	5949218.77	
ST29	1749374.73	5949256.97	
ST30	1749390.53	5949259.97	
ST31	1749419.84	5949310.05	
ST32	1749432.81	5949343.18	
ST33	1749423.91	5949344.30	Cercis Canadensis
ST34	1749412.91	5949357.02	
ST35	1749417.11	5949364.49	
ST36	1749266.92	5949210.84	
ST37	1749258.83	5949218.81	
ST38	1749266.10	5949228.51	
ST39	1749258.22	5949231.10	

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
 - ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
 - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK
 - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

- NOTES**
- CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	CONTOURS MAJOR
	CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	/06/18
2	SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

ROADING AS-BUILT
 SHEET 2 OF 5
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-201-AB	

Schedule of Coordinates

Street Lights			
No#	Easting	Northing	Type
SLO1	1749539.61	5949383.53	CREE EDGE SQUARE T3M 20 LED 525mA 4000K 'SERIES E' AT 8m HEIGHT VIC POLE ENLARGED BASE SQUARE SERIES AND NO ARM 0 DEG TILT (.1m SET BACK)
SLO2	1749538.76	5949351.52	
SLO3	1749525.56	5949292.86	
SLO4	1749512.30	5949265.70	
SLO5	1749494.85	5949241.24	
SLO6	1749470.50	5949204.01	
SLO7	1749456.75	5949160.97	
SLO1	1749444.76	5949170.66	
SLO2	1749400.21	5949177.84	
SLO3	1749356.10	5949166.80	
SLO4	1749319.81	5949138.97	
SLO5	1749281.85	5949111.29	
SLO6	1749269.43	5949128.83	
SLO7	1749252.63	5949185.42	
SLO8	1749259.34	5949208.11	
SLO9	1749279.36	5949196.18	
SLO10	1749268.63	5949177.42	
SLO11	1749337.33	5949212.05	
SLO12	1749375.13	5949245.80	
SLO13	1749400.65	5949269.89	
SLO14	1749427.13	5949306.39	
SLO15	1749424.36	5949360.02	
SLO16	1749381.73	5949373.19	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

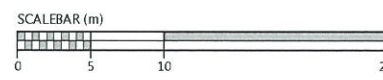
Signed: Registered Professional Surveyor

Date: 25/06/18

Name: Rowan Hallam

LEGEND

	STREET LIGHT
	ROAD NAME SIGN
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	RG-6 SIGN (GIVE WAY)
	STREET TREE
	STAGE EXTENTS
	SS MANHOLE
	SS ISOLATION VALVE
	SS FLUSHING POINT
	WATER MANIFOLD BOX
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE





I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 25/06/18

Name: Rowan Hallam

Schedule of Coordinates			
Street Lights			
No#	Easting	Northing	Type
SL01	1749539.61	5949383.53	
SL02	1749538.76	5949351.52	
SL03	1749525.56	5949292.86	
SL04	1749512.30	5949265.70	
SL05	1749494.85	5949241.24	
SL06	1749470.50	5949204.01	
SL07	1749456.75	5949160.97	
SL01	1749444.76	5949170.66	
SL02	1749400.21	5949177.84	
SL03	1749356.10	5949166.80	
SL04	1749319.81	5949138.97	
SL05	1749281.85	5949111.29	
SL06	1749269.43	5949128.83	
SL07	1749252.63	5949185.42	
SL08	1749259.34	5949208.11	
SL09	1749279.36	5949196.18	
SL10	1749268.63	5949177.42	
SL11	1749337.33	5949212.05	
SL12	1749375.13	5949245.80	
SL13	1749400.65	5949269.89	
SL14	1749427.13	5949306.39	
SL15	1749424.36	5949360.02	
SL16	1749381.73	5949373.19	

CREE EDGE SQUARE T3M 20 LED 525mA 4000K 'SERIES E' AT 8m HEIGHT VIC POLE ENLARGED BASE SQUARE SERIES AND NO ARM 0 DEG TILT (1m SET BCA)

LEGEND	
	STREET LIGHT
	ROAD NAME SIGN
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	RG-6 SIGN (GIVE WAY)
	STREET TREE
	STAGE EXTENTS
	SS MANHOLE
	SS ISOLATION VALVE
	SS FLUSHING POINT
	WATER MANIFOLD BOX
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE

NOTES

- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
- ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
- ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
- ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
- ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

DISCLAIMER

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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Schedule of Coordinates			
Street Trees			
Tree #	Easting	Northing	Tree Type
ST01	1749430.06	5949173.37	Pohutukawa
ST02	1749430.08	5949182.09	
ST03	1749413.34	5949176.55	
ST04	1749410.36	5949185.30	
ST05	1749386.69	5949185.24	
ST06	1749389.26	5949176.84	
ST07	1749364.87	5949179.78	
ST08	1749369.97	5949172.49	
ST09	1749336.82	5949164.20	
ST10	1749345.31	5949159.85	
ST11	1749322.33	5949152.07	Cercis Canadensis
ST12	1749329.26	5949146.67	
ST13	1749306.57	5949138.35	
ST14	1749311.24	5949131.29	
ST15	1749300.80	5949122.79	
ST16	1749267.79	5949105.89	
ST17	1749272.51	5949140.21	
ST18	1749264.84	5949138.32	
ST19	1749269.23	5949156.26	
ST20	1749261.33	5949157.99	
ST21	1749268.70	5949168.25	
ST22	1749260.70	5949171.30	
ST23	1749241.30	5949185.44	
ST24	1749243.77	5949193.87	
ST25	1749284.54	5949188.74	
ST26	1749286.29	5949197.76	
ST27	1749330.20	5949207.28	
ST28	1749332.32	5949218.77	
ST29	1749374.73	5949256.97	Pohutukawa
ST30	1749390.53	5949259.97	
ST31	1749419.84	5949310.05	
ST32	1749432.81	5949343.18	
ST33	1749423.91	5949344.30	
ST34	1749412.91	5949357.02	
ST35	1749417.11	5949364.49	
ST36	1749266.92	5949210.84	
ST37	1749258.83	5949218.81	
ST38	1749266.10	5949228.51	
ST39	1749258.22	5949231.10	Cercis Canadensis

REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION	KR		/06/18
2	SIGNED AND ISSUED	MRH		25/06/18

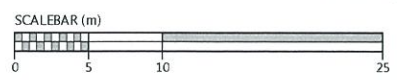
SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ

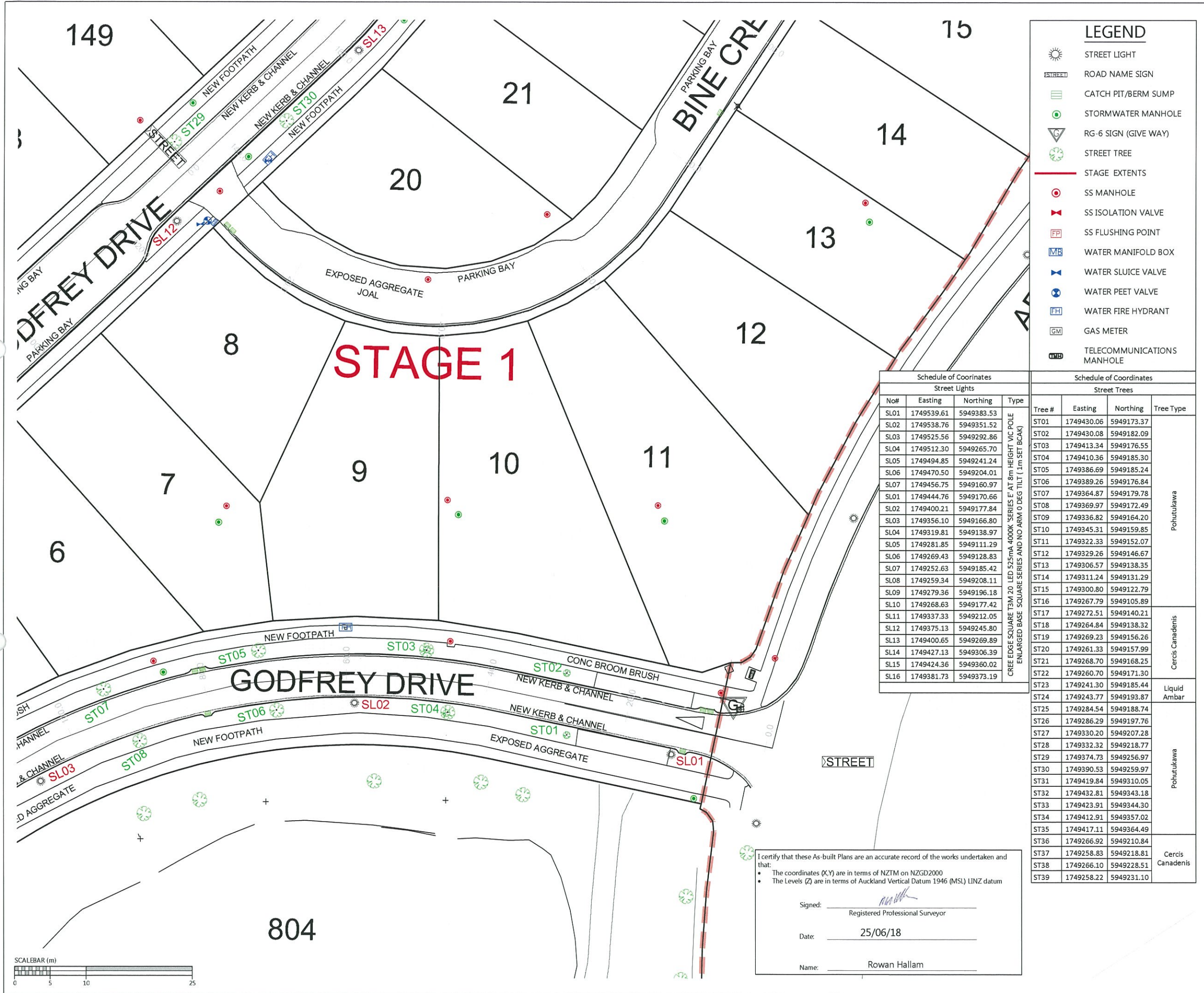


**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

ROADING AS-BUILT
SHEET 3 OF 5
(SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-202-AB	





LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- SS ISOLATION VALVE
- SS FLUSHING POINT
- WATER MANIFOLD BOX
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- GAS METER
- TELECOMMUNICATIONS MANHOLE

- ### NOTES
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
 - ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
 - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
 - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

Schedule of Coordinates Street Lights				Schedule of Coordinates Street Trees			
No#	Easting	Northing	Type	Tree #	Easting	Northing	Tree Type
SL01	1749539.61	5949383.53		ST01	1749430.06	5949173.37	Pohutukawa
SL02	1749538.76	5949351.52		ST02	1749430.08	5949182.09	
SL03	1749525.56	5949292.86		ST03	1749413.34	5949176.55	
SL04	1749512.30	5949265.70		ST04	1749410.36	5949185.30	
SL05	1749494.85	5949241.24		ST05	1749386.69	5949185.24	
SL06	1749470.50	5949204.01		ST06	1749389.26	5949176.84	
SL07	1749456.75	5949160.97		ST07	1749364.87	5949179.78	
SL08	1749444.76	5949170.66		ST08	1749369.97	5949172.49	
SL09	1749400.21	5949177.84		ST09	1749336.82	5949164.20	
SL10	1749356.10	5949166.80		ST10	1749345.31	5949159.85	
SL11	1749319.81	5949138.97		ST11	1749322.33	5949152.07	
SL12	1749281.85	5949111.29		ST12	1749329.26	5949146.67	
SL13	1749269.43	5949128.83		ST13	1749306.57	5949138.35	
SL14	1749252.63	5949185.42		ST14	1749311.24	5949131.29	
SL15	1749259.34	5949208.11		ST15	1749300.80	5949122.79	
SL16	1749279.36	5949196.18		ST16	1749267.79	5949105.89	
SL17	1749268.63	5949177.42		ST17	1749272.51	5949140.21	
SL18	1749337.33	5949212.05		ST18	1749264.84	5949138.32	
SL19	1749375.13	5949245.80		ST19	1749269.23	5949156.26	
SL20	1749400.65	5949269.89		ST20	1749261.33	5949157.99	
SL21	1749427.13	5949306.39		ST21	1749268.70	5949168.25	
SL22	1749424.36	5949360.02		ST22	1749260.70	5949171.30	
SL23	1749381.73	5949373.19		ST23	1749241.30	5949185.44	
SL24				ST24	1749243.77	5949193.87	
SL25				ST25	1749284.54	5949188.74	
SL26				ST26	1749286.29	5949197.76	
SL27				ST27	1749330.20	5949207.28	
SL28				ST28	1749332.32	5949218.77	
SL29				ST29	1749374.73	5949256.97	
SL30				ST30	1749390.53	5949259.97	
SL31				ST31	1749419.84	5949310.05	
SL32				ST32	1749432.81	5949343.18	
SL33				ST33	1749423.91	5949344.30	
SL34				ST34	1749412.91	5949357.02	
SL35				ST35	1749417.11	5949364.49	
SL36				ST36	1749266.92	5949210.84	
SL37				ST37	1749258.83	5949218.81	
SL38				ST38	1749266.10	5949228.51	
SL39				ST39	1749258.22	5949231.10	

DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 APPLICATION TO COUNCIL.
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING W/E

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



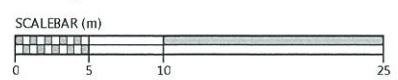
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 ROADING AS-BUILT
 SHEET 4 OF 5
 (SLC-66650)

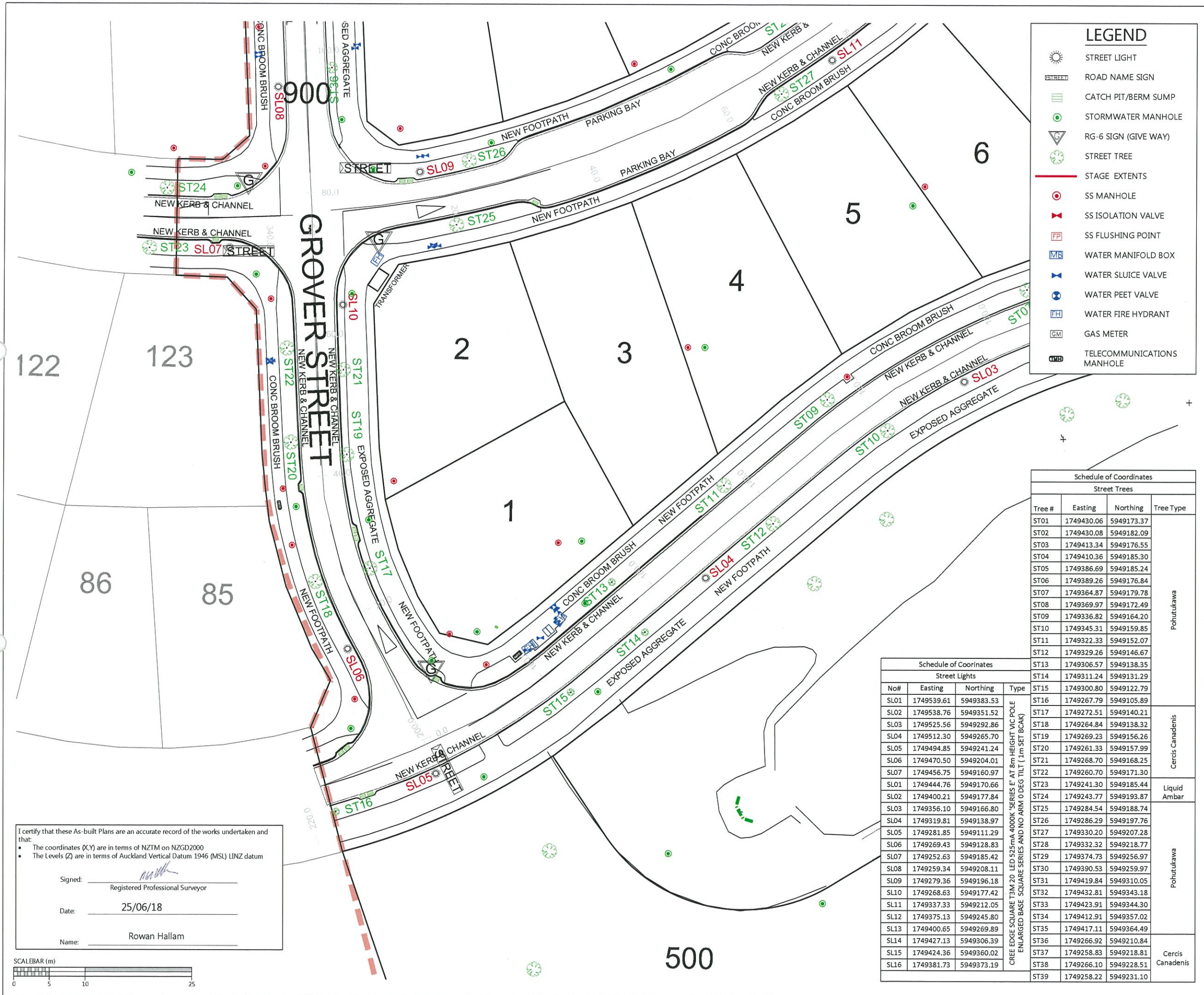
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-203-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 25/06/18
 Name: Rowan Hallam





LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- SS ISOLATION VALVE
- SS FLUSHING POINT
- WATER MANIFOLD BOX
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- GAS METER
- TELECOMMUNICATIONS MANHOLE

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED
6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	/06/18
2	SIGNED AND ISSUED	MRH	25/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 ROADING AS-BUILT
 SHEET 5 OF 5
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-204-AB	

Schedule of Coordinates

Street Trees

Tree #	Easting	Northing	Tree Type	
ST01	1749430.06	5949173.37	Pohutukawa	
ST02	1749430.08	5949182.09		
ST03	1749413.34	5949176.55		
ST04	1749410.36	5949185.30		
ST05	1749386.69	5949185.24		
ST06	1749389.26	5949176.84		
ST07	1749364.87	5949179.78		
ST08	1749369.97	5949172.49		
ST09	1749336.82	5949164.20		
ST10	1749345.31	5949159.85		
ST11	1749322.33	5949152.07	Cercis Canadensis	
ST12	1749329.26	5949146.67		
ST13	1749306.57	5949138.35		
ST14	1749311.24	5949131.29		
ST15	1749300.80	5949122.79		
ST16	1749267.79	5949105.89		
ST17	1749272.51	5949140.21		
ST18	1749264.84	5949138.32		
ST19	1749269.23	5949156.26		
ST20	1749261.33	5949157.99		
ST21	1749268.70	5949168.25	Liquid Ambar	
ST22	1749260.70	5949171.30		
ST23	1749241.30	5949185.44		
ST24	1749243.77	5949193.87		
ST25	1749284.54	5949188.74		
ST26	1749286.29	5949197.76		
ST27	1749330.20	5949207.28		
ST28	1749332.32	5949218.77		
ST29	1749374.73	5949256.97		Pohutukawa
ST30	1749390.53	5949259.97		
ST31	1749419.84	5949310.05		
ST32	1749432.81	5949343.18		
ST33	1749423.91	5949344.30		
ST34	1749412.91	5949357.02		
ST35	1749417.11	5949364.49		
ST36	1749266.92	5949210.84	Cercis Canadensis	
ST37	1749258.83	5949218.81		
ST38	1749266.10	5949228.51		
ST39	1749258.22	5949231.10		

Schedule of Coordinates

Street Lights

No#	Easting	Northing	Type
SLO1	1749539.61	5949383.53	CREE EDGE SQUARE T3M 20 LED S25mA 4000K 'SERIES F' AT 8m HEIGHT VIC POLE ENLARGED BASE SQUARE SERIES AND NO ARM 0 DEG TILT (1m SET BACK)
SLO2	1749538.76	5949351.52	
SLO3	1749525.56	5949292.86	
SLO4	1749512.30	5949265.70	
SLO5	1749494.85	5949241.24	
SLO6	1749470.50	5949204.01	
SLO7	1749456.75	5949160.97	
SLO1	1749444.76	5949170.66	
SLO2	1749400.21	5949177.84	
SLO3	1749356.10	5949166.80	
SLO4	1749319.81	5949138.97	
SLO5	1749281.85	5949111.29	
SLO6	1749269.43	5949128.83	
SLO7	1749252.63	5949185.42	
SLO8	1749259.34	5949208.11	
SLO9	1749279.36	5949196.18	
SLO10	1749268.63	5949177.42	
SL11	1749337.33	5949212.05	
SL12	1749375.13	5949245.80	
SL13	1749400.65	5949269.89	
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SL15	1749424.36	5949360.02	
SL16	1749381.73	5949373.19	

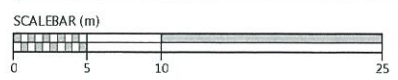
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 25/06/18

Name: Rowan Hallam



Schedule of Coordinates			
Reserve Trees			
Tree#	Easting	Northing	Tree type
RT01	1749335.07	5949138.22	Puriri
RT02	1749345.24	5949147.34	
RT03	1749370.57	5949162.23	
RT04	1749378.42	5949164.20	
RT05	1749402.96	5949166.88	
RT06	1749418.01	5949166.71	
RT07	1749446.87	5949150.70	
RT08	1749423.90	5949164.96	
RT09	1749444.52	5949147.41	Kahikatea
RT10	1749446.10	5949139.02	Tanekaha
RT11	1749442.36	5949132.20	Kahikatea
RT12	1749440.99	5949121.30	

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.
5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
7. CONTOURS ARE AT 0.5m INTERVALS

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Signed: _____
Registered Professional Surveyor

Date: 25/06/18

Name: Rowan Hallam

DISCLAIMER
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LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- FENCELINE
- WALL
- CONTOURS MAJOR
- CONTOURS MINOR

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	PM	12/06/18
2 SIGNED AND ISSUED	MRH	25/06/18

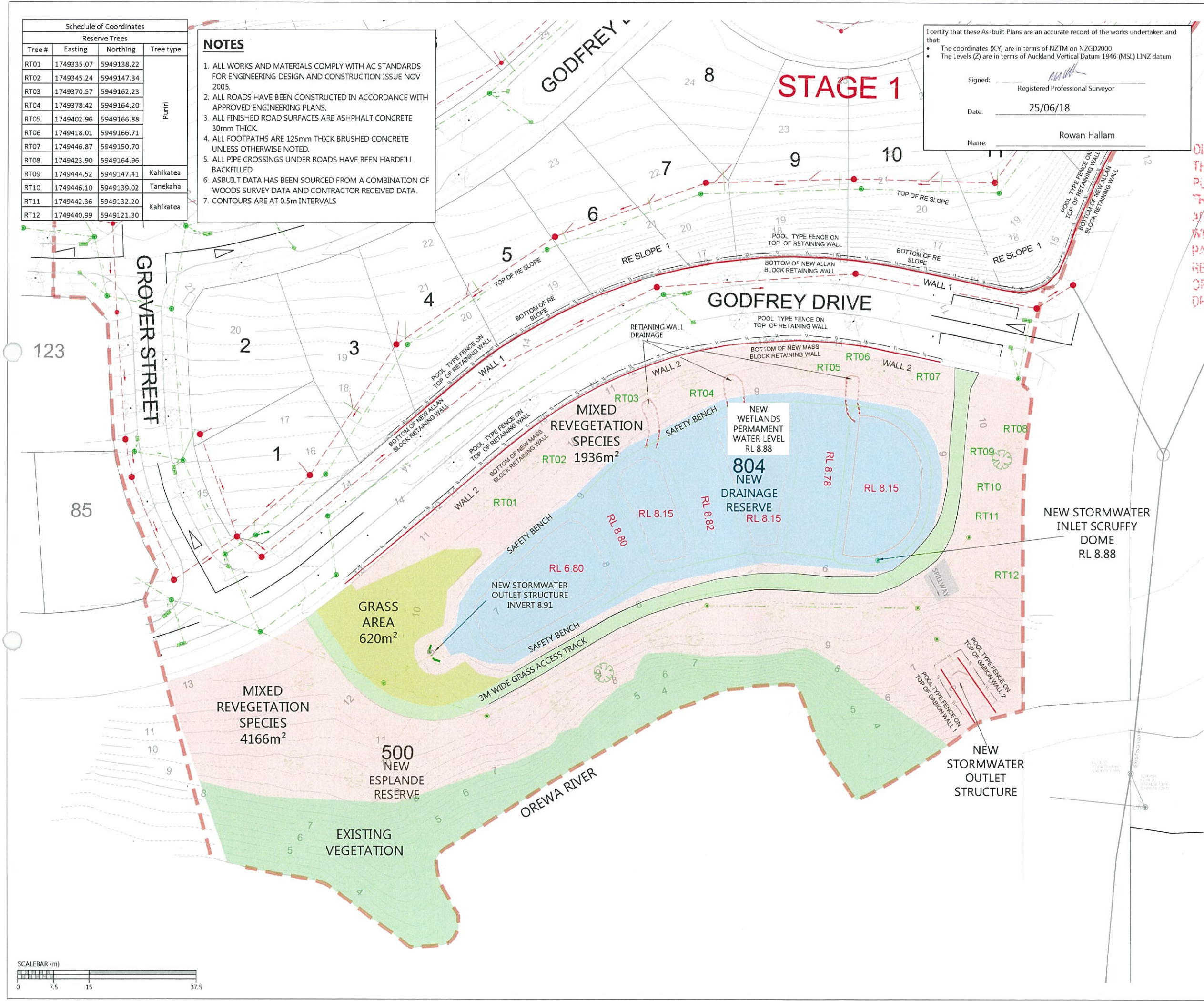
SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

RESERVES AS-BUILT
SHEET 1 OF 1
(SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-250-AB	



Document No. K137501 - ARBON HILL PRECINCT 5 STAGE 1 PROJECT DATA/CAD DRAWINGS/SURVAYS-BUILD/37501-01-250-AB-RESERVES.DWG

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.
5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
7. CONTOURS ARE AT 0.5m INTERVALS

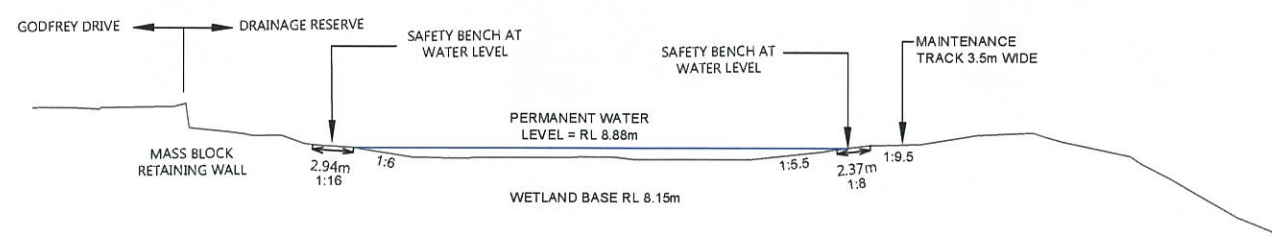
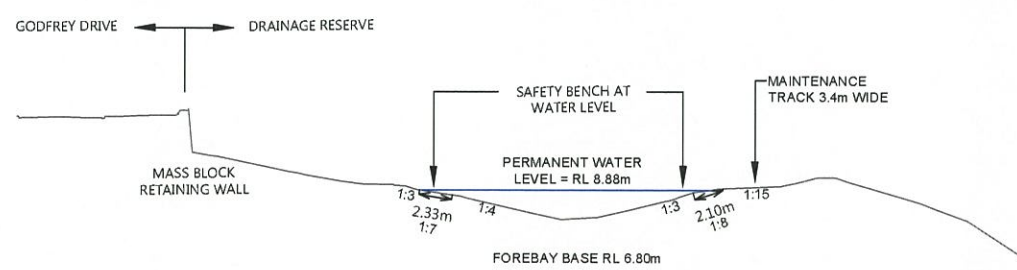
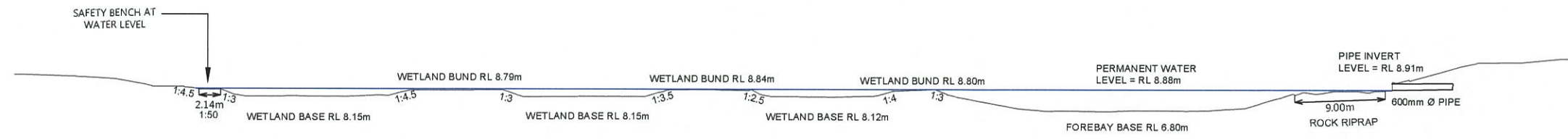
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Rowan Hallam
Registered Professional Surveyor

Date: 26/06/18

Name: Rowan Hallam



DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

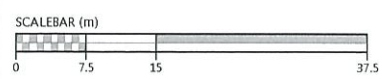
REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	MD	12/06/18
2 SIGNED AND ISSUED	MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN		
CHECKED		
APPROVED	WOODS.CO.NZ	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**
RESERVES AS-BUILT
SHEET 1 OF 1
(SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-261-AB	



Document No. K137501 - ABBAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/ACAD DRAWINGS/SURVIVS-BUILD/37501-01-261-AB-RESERVE SECTIONS.DWG



DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 22(4) APPLICATION TO COUNCIL
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE



Schedule of Coordinates Stormwater Lot Connections			
Lot #	Easting	Northing	Length
1	1749287.57	5949134.88	2.5
2	1749274.89	5949153.60	6.5
3	1749306.08	5949159.39	4.5
4	1749319.18	5949176.42	4.0
5	1749333.06	5949184.98	3.1
6	1749352.04	5949195.57	2.1
7	1749369.94	5949202.44	2.5
8	1749385.81	5949208.63	4.7
9	1749410.31	5949208.05	3.3
10	1749431.89	5949207.39	3.3
11	1749443.53	5949208.72	4.3
12	1749451.26	5949221.46	3.6
13	1749462.61	5949237.57	3.3
14	1749473.94	5949253.34	2.6
15	1749481.26	5949267.26	3.8
16	1749489.67	5949280.37	3.7
17	1749505.24	5949306.73	2.7
18	1749506.93	5949311.40	2.7
19	1749512.62	5949336.43	2.5
20	1749390.51	5949253.26	5.1
21	1749407.36	5949266.65	2.6
22	1749417.12	5949279.18	4.7
23	1749426.48	5949291.36	4.5
24	1749433.37	5949305.71	4.2
25	1749437.12	5949319.22	3.4
26	1749462.09	5949346.19	4.4
27	1749470.02	5949344.27	3.9
28	1749516.37	5949363.54	4.8
29	1749503.77	5949367.31	2.5
30	1749477.25	5949374.40	2.5
31	1749461.96	5949378.58	2.4
32	1749459.63	5949379.09	2.5
33	1749446.36	5949382.72	2.4
34	1749431.57	5949386.58	2.5
35	1749416.79	5949390.79	2.7
36	1749391.50	5949399.59	2.1
142	1749250.23	5949200.28	7.0
143	1749277.97	5949203.55	5.4
144	1749291.79	5949207.58	5.7
145	1749310.21	5949213.88	4.4
146	1749323.36	5949221.17	4.0
147	1749338.75	5949233.06	5.2
148	1749350.68	5949244.38	5.4
149	1749364.51	5949257.47	5.5
150	1749377.73	5949269.20	5.0
151	1749392.97	5949282.39	3.6
152	1749403.99	5949297.73	4.5
153	1749414.04	5949312.51	3.7
154	1749418.12	5949330.67	3.4

LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
OVERLAND FLOW	
NEW STORMWATER	
EXISTING STORMWATER	
SUBSOIL DRAINAGE	
STAGE BOUNDARY	

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 - ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIAGEWAYS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 - ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm Ø.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	08/06/18
2	SIGNED AND ISSUED	MRH	26/08/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



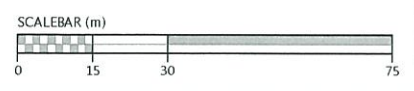
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 STORMWATER AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 6
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-300-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 26/06/18
 Name: ROWAN HALLAM



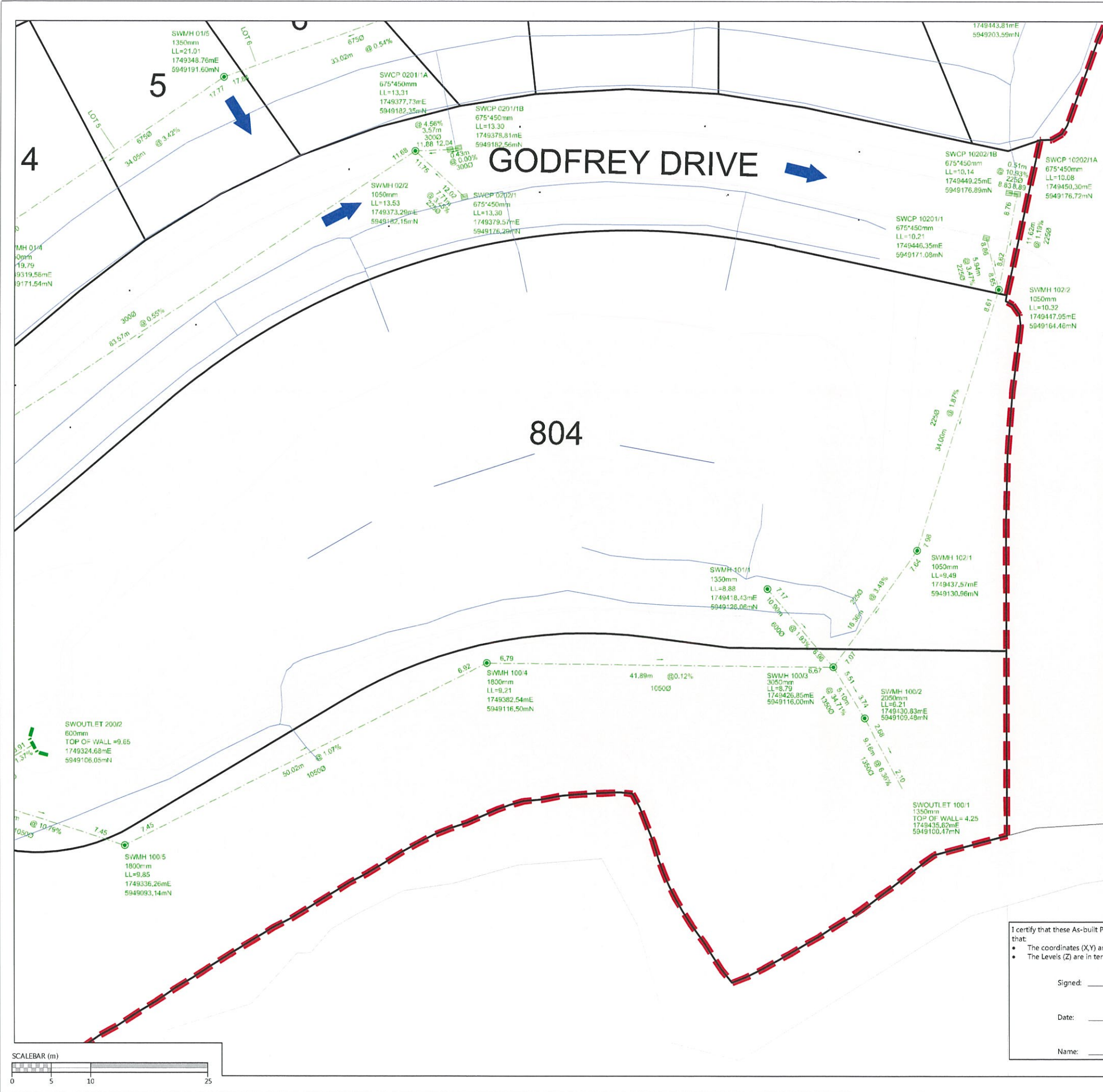
Document No. K137501 - ARRAN HILL PRECINCT 5 STAGE 1 PROJECT DATA\CAD DRAWINGS\SURVAS-BUILD\37501-01-300-AB-STORMWATER.DWG



DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASIS DATA FOR THE PURPOSES OF 2246 APPLICATION TO COUNCIL. WOODS PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING 4/3 E

GODFREY DRIVE

804



Schedule of Coordinates Stormwater Lot Connections

Lot #	Easting	Northing	Length
1	1749287.57	5949134.88	2.5
2	1749274.89	5949153.60	6.5
3	1749306.08	5949159.39	4.5
4	1749319.18	5949176.42	4.0
5	1749333.06	5949184.98	3.1
6	1749352.04	5949195.57	2.1
7	1749369.94	5949202.44	2.5
8	1749385.81	5949208.63	4.7
9	1749410.31	5949208.05	3.3
10	1749431.89	5949207.39	3.3
11	1749443.53	5949208.72	4.3
12	1749451.26	5949221.46	3.6
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14	1749473.94	5949253.34	2.6
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151	1749392.97	5949282.39	3.6
152	1749403.99	5949297.73	4.5
153	1749414.04	5949312.51	3.7
154	1749418.12	5949330.67	3.4

LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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 - ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 - ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm ϕ .
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	08/06/18
2	SIGNED AND ISSUED	MRH	26/08/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**
 STORMWATER AS-BUILT
 SHEET 2 OF 6
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-301-AB	

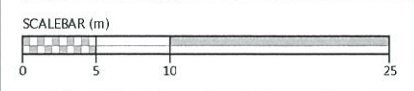
I certify that these As-built Plans are an accurate record of the works undertaken and that:

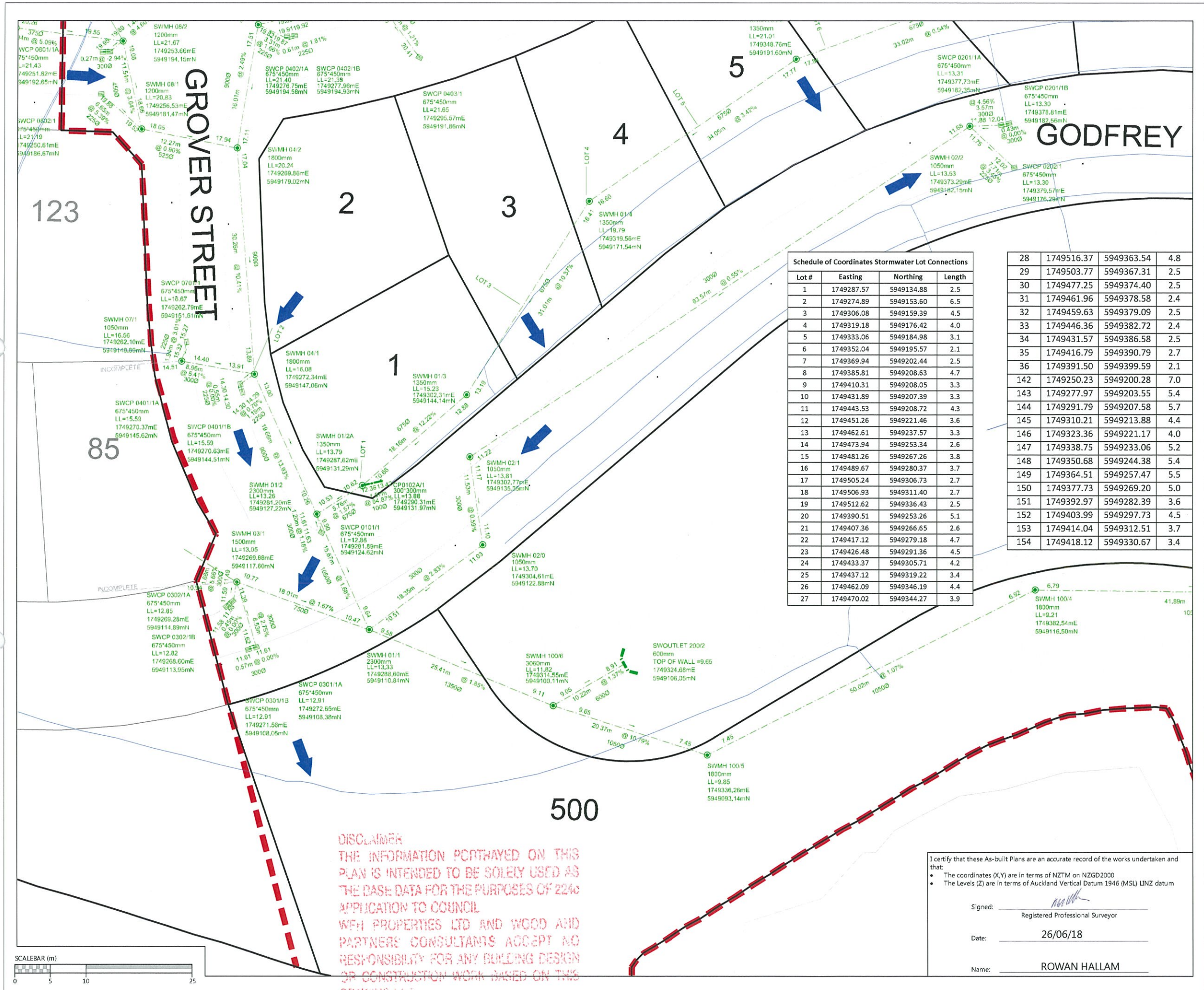
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM





LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
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- EXISTING STORMWATER
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Schedule of Coordinates Stormwater Lot Connections

Lot #	Easting	Northing	Length
1	1749287.57	5949134.88	2.5
2	1749274.89	5949153.60	6.5
3	1749306.08	5949159.39	4.5
4	1749319.18	5949176.42	4.0
5	1749333.06	5949184.98	3.1
6	1749352.04	5949195.57	2.1
7	1749369.94	5949202.44	2.5
8	1749385.81	5949208.63	4.7
9	1749410.31	5949208.05	3.3
10	1749431.89	5949207.39	3.3
11	1749443.53	5949208.72	4.3
12	1749451.26	5949221.46	3.6
13	1749462.61	5949237.57	3.3
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154	1749418.12	5949330.67	3.4

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	08/06/18
2	SIGNED AND ISSUED	MRH	27/06/18

ROLE	NAME	COMPANY
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	

**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

STORMWATER AS-BUILT
SHEET 3 OF 6
(SLC-66650)

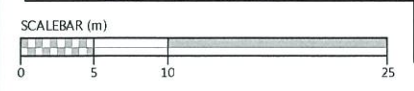
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-302-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF Z24C APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING ETC.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
Date: 26/06/18
Name: ROWAN HALLAM





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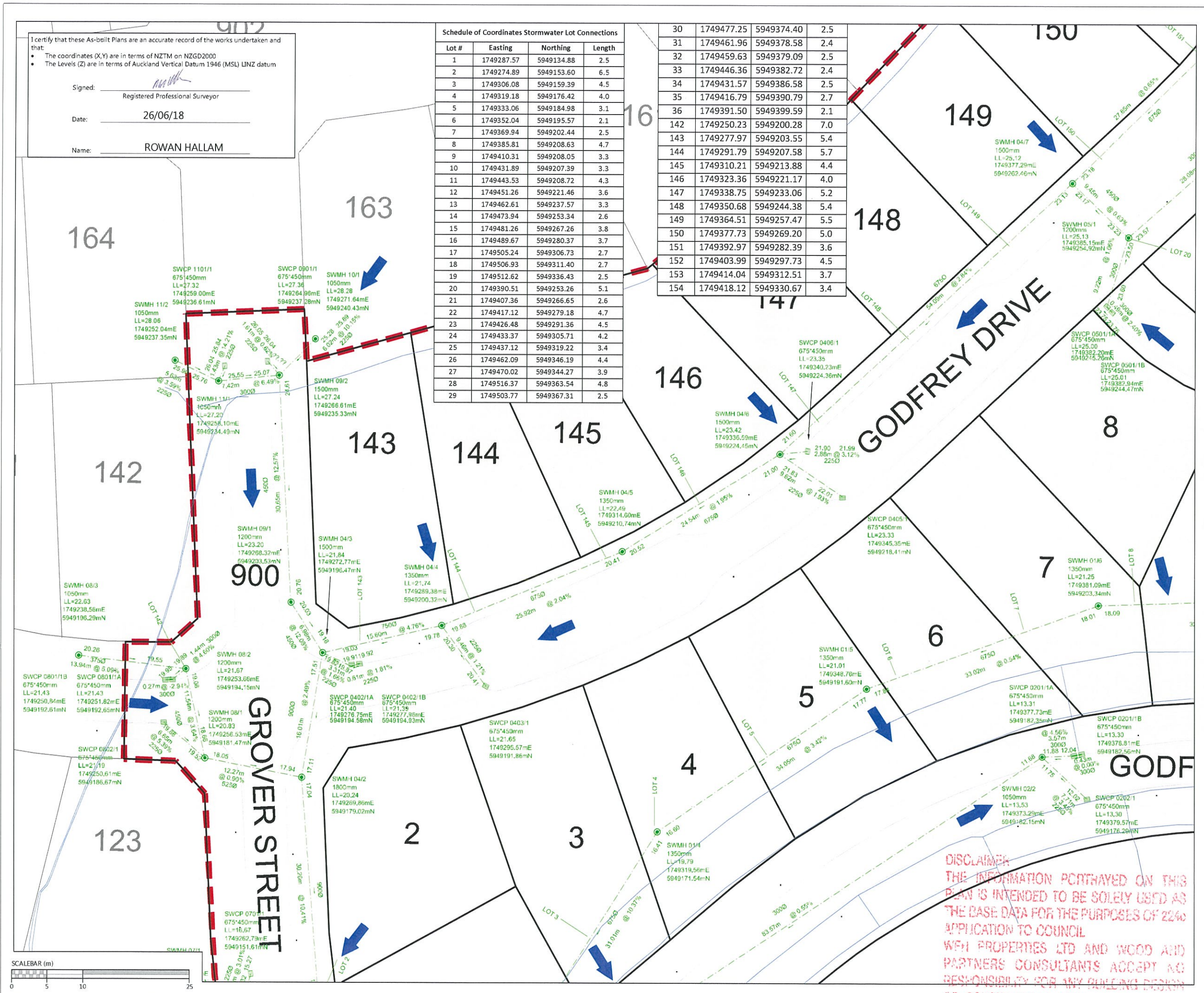
Signed: *[Signature]*
Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM

Lot #	Easting	Northing	Length
1	1749287.57	5949134.88	2.5
2	1749274.89	5949153.60	6.5
3	1749306.08	5949159.39	4.5
4	1749319.18	5949176.42	4.0
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152	1749403.99	5949297.73	4.5
153	1749414.04	5949312.51	3.7
154	1749418.12	5949330.67	3.4



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	08/06/18
2 SIGNED AND ISSUED	MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ

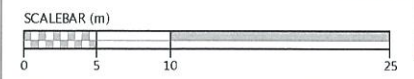


**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

STORMWATER AS-BUILT
SHEET 4 OF 6
(SLC-66650)

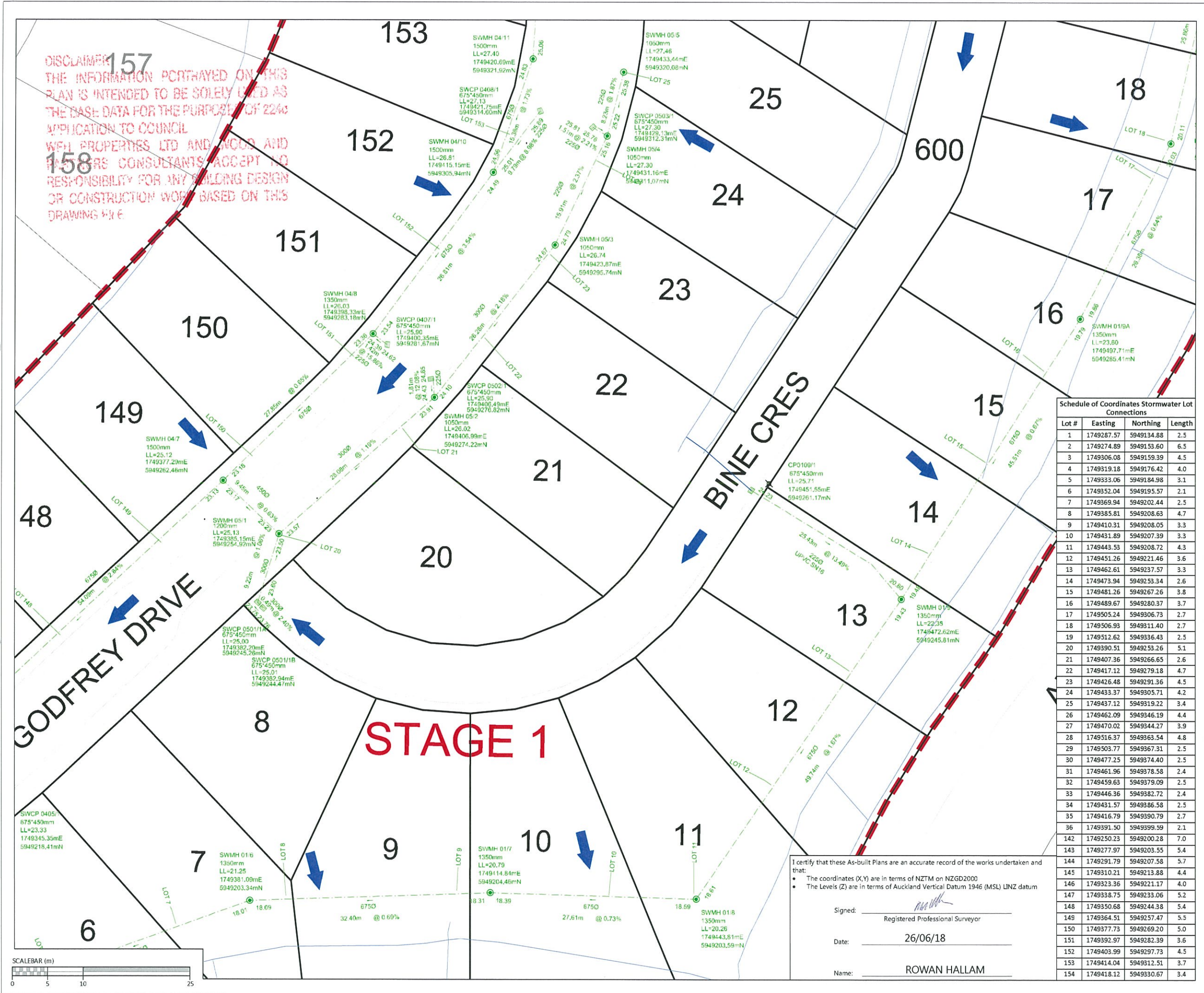
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-303-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING BY E



Document No. K37501 - AARAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/DRAWINGS/SURV-AS-BUILT/37501-01-303-AB-STORMWATER DWG

DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL.
 WFH PROPERTIES LTD AND WOODS AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING AND E.



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY

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REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	08/06/18
2	SIGNED AND ISSUED	MRH	27/06/18

SURVEYED WOODS
DESIGNED AF
DRAWN PM
CHECKED KR
APPROVED RH

WOODS Ltd
 LEVEL 1 BUILDING B,
 8 NUGENT STREET, GRAFTON
 AUCKLAND 1023
 09 308 9229
 WOODS.CO.NZ



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 STORMWATER AS-BUILT
 SHEET 5 OF 6
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-304-AB	

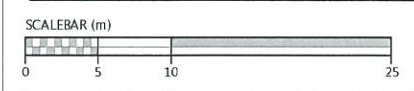
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM





DISCLAIMER
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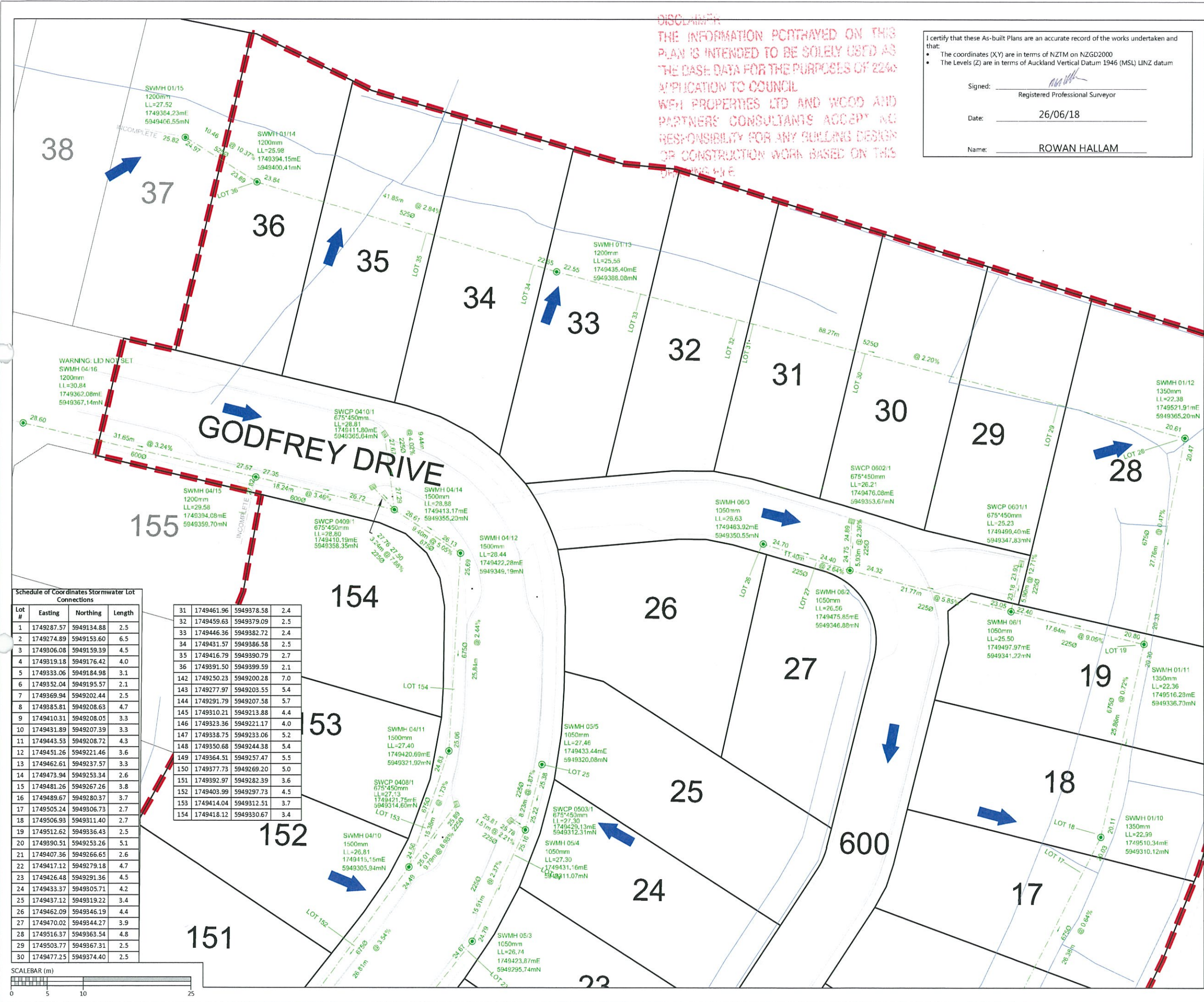
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Signed: _____
 Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
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REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	08/06/18
2	SIGNED AND ISSUED	MRH	26/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	AF	
DRAWN	PM	
CHECKED	KR	
APPROVED	RH	



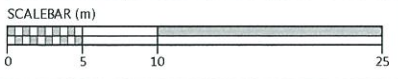
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 STORMWATER AS-BUILT
 SHEET 6 OF 6
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-305-AB	

Schedule of Coordinates Stormwater Lot Connections

Lot #	Easting	Northing	Length
1	1749287.57	5949134.88	2.5
2	1749274.89	5949153.60	6.5
3	1749306.08	5949159.39	4.5
4	1749319.18	5949176.42	4.0
5	1749333.06	5949184.98	3.1
6	1749352.04	5949195.57	2.1
7	1749369.94	5949202.44	2.5
8	1749385.81	5949208.63	4.7
9	1749410.31	5949208.05	3.3
10	1749431.89	5949207.39	3.3
11	1749443.53	5949208.72	4.3
12	1749451.26	5949221.46	3.6
13	1749462.61	5949237.57	3.3
14	1749473.94	5949253.34	2.6
15	1749481.26	5949267.26	3.8
16	1749489.67	5949280.37	3.7
17	1749505.24	5949306.73	2.7
18	1749506.93	5949311.40	2.7
19	1749512.62	5949336.43	2.5
20	1749390.51	5949253.26	5.1
21	1749407.36	5949266.65	2.6
22	1749417.12	5949279.18	4.7
23	1749426.48	5949291.36	4.5
24	1749433.37	5949305.71	4.2
25	1749437.12	5949319.22	3.4
26	1749462.09	5949346.19	4.4
27	1749470.02	5949344.27	3.9
28	1749516.37	5949363.54	4.8
29	1749503.77	5949367.31	2.5
30	1749477.25	5949374.40	2.5

31	1749461.96	5949378.58	2.4
32	1749459.63	5949379.09	2.5
33	1749446.36	5949382.72	2.4
34	1749431.57	5949386.58	2.5
35	1749416.79	5949390.79	2.7
36	1749391.50	5949399.59	2.1
142	1749250.23	5949200.28	7.0
143	1749277.97	5949203.55	5.4
144	1749291.79	5949207.58	5.7
145	1749310.21	5949213.88	4.4
146	1749323.36	5949221.17	4.0
147	1749338.75	5949233.06	5.2
148	1749350.68	5949244.38	5.4
149	1749364.51	5949257.47	5.5
150	1749377.73	5949269.20	5.0
151	1749392.97	5949282.39	3.6
152	1749403.99	5949297.73	4.5
153	1749414.04	5949312.51	3.7
154	1749418.12	5949330.67	3.4



Document No. K37501-ARRBAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/CAD DRAWINGS/SURV/S BUILT/37501-01-305-AB-STORMWATER.DWG



I certify that these As-built Plans are an accurate record of the works undertaken and that:

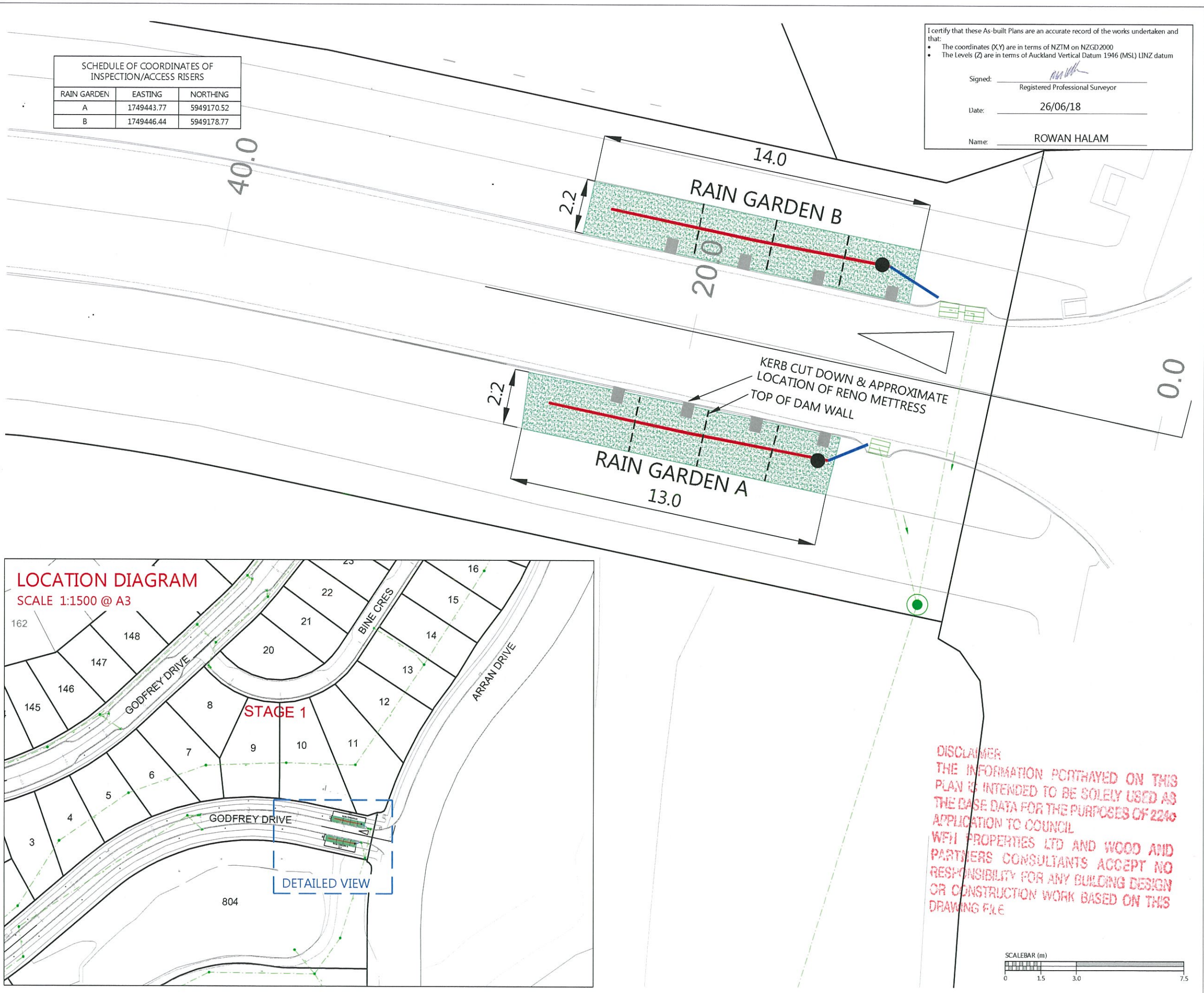
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

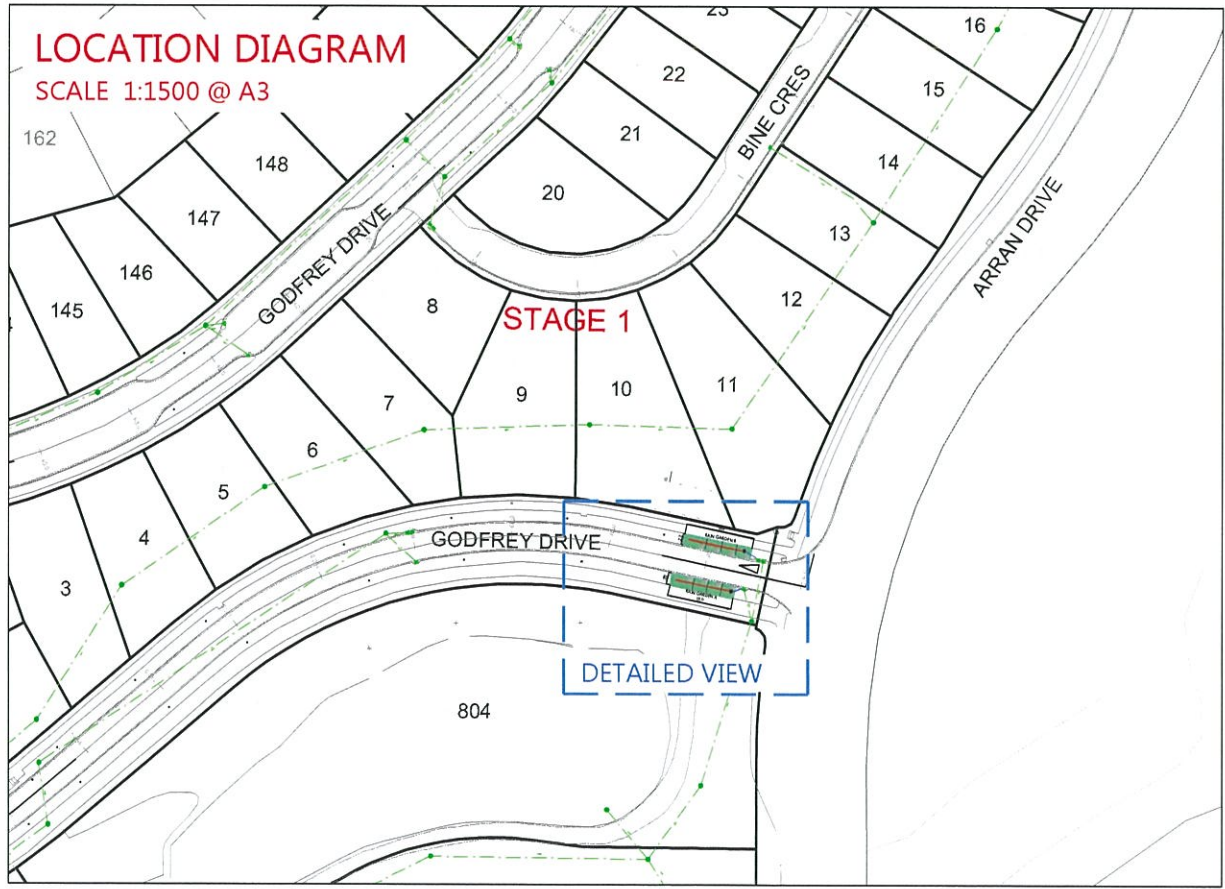
Date: 26/06/18

Name: ROWAN HALAM

SCHEDULE OF COORDINATES OF INSPECTION/ACCESS RISERS		
RAIN GARDEN	EASTING	NORTHING
A	1749443.77	5949170.52
B	1749446.44	5949178.77



LEGEND	
	150MM Ø SLOTTED STRATA PIPE
	150mm Ø uPVC CONNECTION INTO STORMWATER
	PUBLIC STORMWATER NETWORK
	RAIN GARDEN
	INSPECTION/ACCESS RISER
	TOP OF DAM WALL
	KERB CUT DOWN & RENOMATTRESSES (STONES INSIDE MESH)



REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	/06/18
2	SIGNED AND ISSUED		MRH	27/06/18

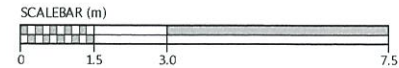
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	AF	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

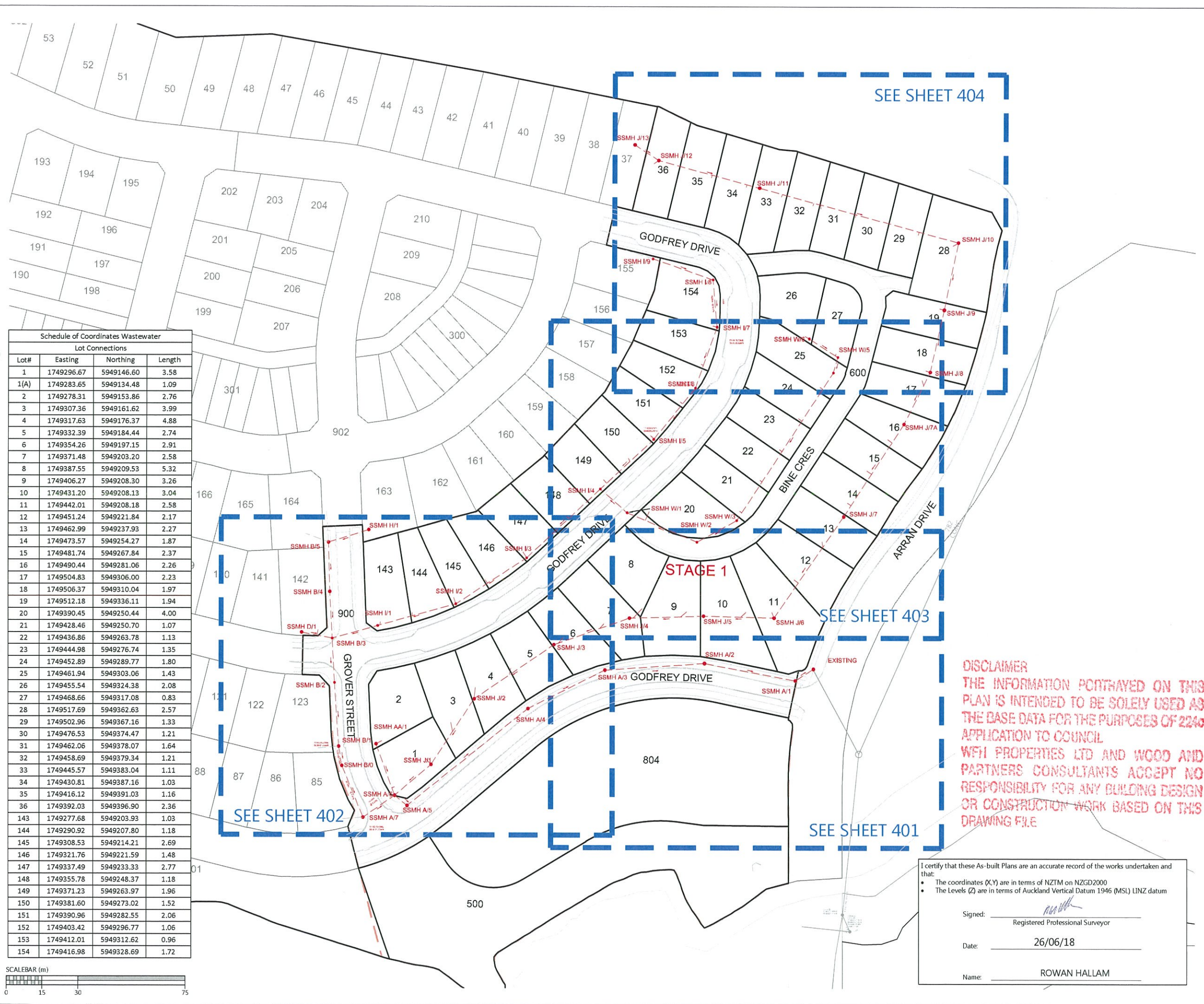
RAIN GARDEN
ASBUILT PLAN
(SLC - 66650)

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

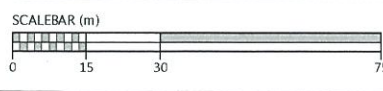


STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:150 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-350-AB	

Document No. E/37501 - ABBAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/ACAD DRAWINGS/SURV/S-BUILT/37501-01-350-AB-RAIN GARDEN.DWG



Schedule of Coordinates Wastewater Lot Connections			
Lot#	Easting	Northing	Length
1	1749296.67	5949146.60	3.58
1(A)	1749283.65	5949134.48	1.09
2	1749278.31	5949153.86	2.76
3	1749307.36	5949161.62	3.99
4	1749317.63	5949176.37	4.88
5	1749332.39	5949184.44	2.74
6	1749354.26	5949197.15	2.91
7	1749371.48	5949203.20	2.58
8	1749387.55	5949209.53	5.32
9	1749406.27	5949208.30	3.26
10	1749431.20	5949208.13	3.04
11	1749442.01	5949208.18	2.58
12	1749451.24	5949221.84	2.17
13	1749462.99	5949237.93	2.27
14	1749473.57	5949254.27	1.87
15	1749481.74	5949267.84	2.37
16	1749490.44	5949281.06	2.26
17	1749504.83	5949306.00	2.23
18	1749506.37	5949310.04	1.97
19	1749512.18	5949336.11	1.94
20	1749390.45	5949250.44	4.00
21	1749428.46	5949250.70	1.07
22	1749436.86	5949263.78	1.13
23	1749444.98	5949276.74	1.35
24	1749452.89	5949289.77	1.80
25	1749461.94	5949303.06	1.43
26	1749455.54	5949324.38	2.08
27	1749468.66	5949317.08	0.83
28	1749517.69	5949362.63	2.57
29	1749502.96	5949367.16	1.33
30	1749476.53	5949374.47	1.21
31	1749462.06	5949378.07	1.64
32	1749458.69	5949379.34	1.21
33	1749445.57	5949383.04	1.11
34	1749430.81	5949387.16	1.03
35	1749416.12	5949391.03	1.16
36	1749392.03	5949396.90	2.36
143	1749277.68	5949203.93	1.03
144	1749290.92	5949207.80	1.18
145	1749308.53	5949214.21	2.69
146	1749321.76	5949221.59	1.48
147	1749337.49	5949233.33	2.77
148	1749355.78	5949248.37	1.18
149	1749371.23	5949263.97	1.96
150	1749381.60	5949273.02	1.52
151	1749390.96	5949282.55	2.06
152	1749403.42	5949296.77	1.06
153	1749412.01	5949312.62	0.96
154	1749416.98	5949328.69	1.72



LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	
FUTURE SANITARY SEWER	
STAGE BOUNDARY	

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSEUD FOR INFORMATION	KH	14/06/18
2 SIGNED AND ISSUED	MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
WASTEWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 5
(SLC-66650)**

STATUS	AS BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-400-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

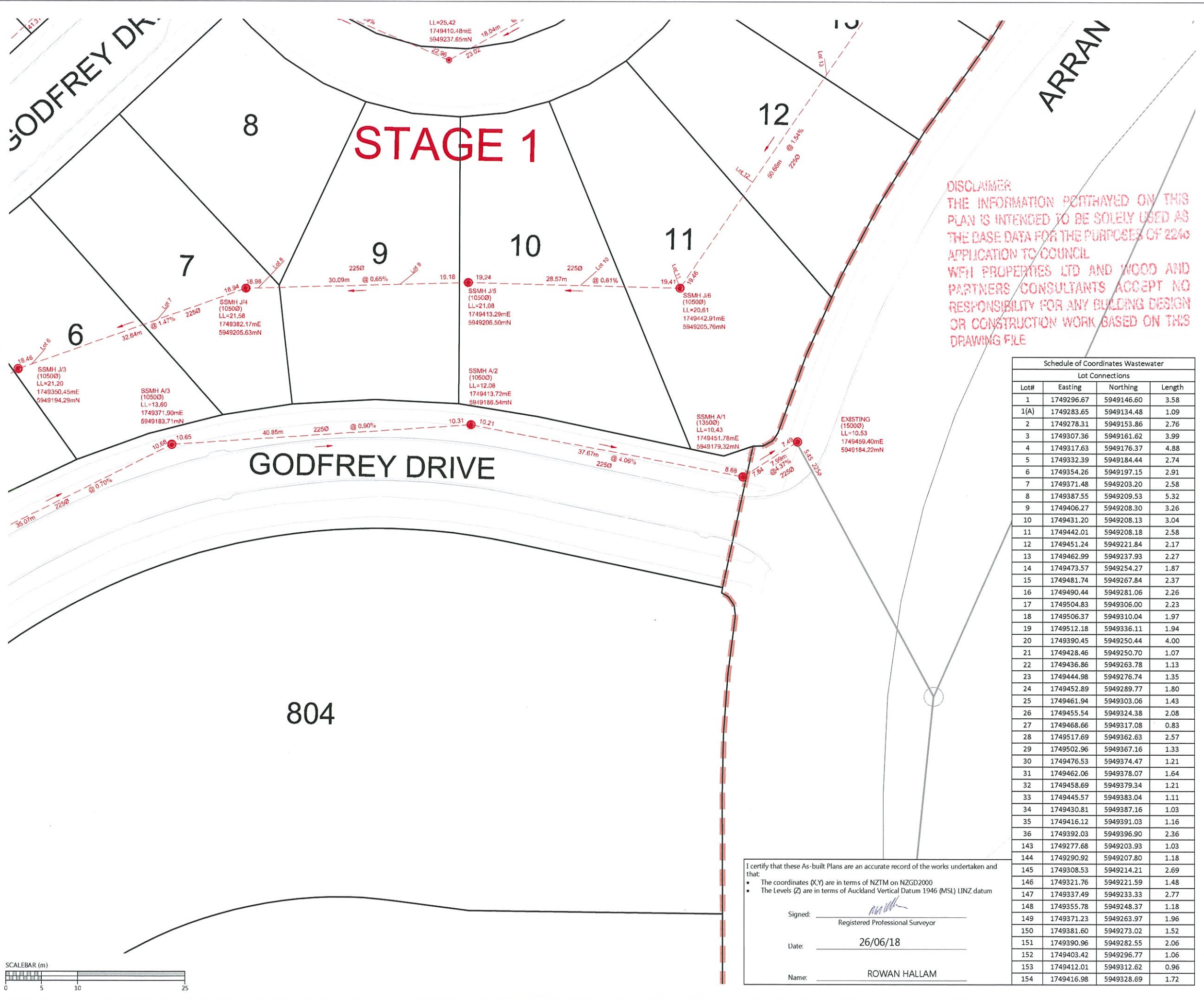
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM



DISCLAIMER
 THE INFORMATION PORTHAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 APPLICATION TO COUNCIL
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

LEGEND

NEW SANITARY SEWER MANHOLE	●
NEW SANITARY SEWER	---
EXISTING SANITARY SEWER	—
FUTURE SANITARY SEWER	- - - -
STAGE BOUNDARY	--- ---

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 - ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

Schedule of Coordinates Wastewater

Lot Connections			
Lot#	Easting	Northing	Length
1	1749296.67	5949146.60	3.58
1(A)	1749283.65	5949134.48	1.09
2	1749278.31	5949153.86	2.76
3	1749307.36	5949161.62	3.99
4	1749317.63	5949176.37	4.88
5	1749332.39	5949184.44	2.74
6	1749354.26	5949197.15	2.91
7	1749371.48	5949203.20	2.58
8	1749387.55	5949209.53	5.32
9	1749406.27	5949208.30	3.26
10	1749431.20	5949208.13	3.04
11	1749442.01	5949208.18	2.58
12	1749451.24	5949221.84	2.17
13	1749462.99	5949237.93	2.27
14	1749473.57	5949254.27	1.87
15	1749481.74	5949267.84	2.37
16	1749490.44	5949281.06	2.26
17	1749504.83	5949306.00	2.23
18	1749506.37	5949310.04	1.97
19	1749512.18	5949336.11	1.94
20	1749390.45	5949250.44	4.00
21	1749428.46	5949250.70	1.07
22	1749436.86	5949263.78	1.13
23	1749444.98	5949276.74	1.35
24	1749452.89	5949289.77	1.80
25	1749461.94	5949303.06	1.43
26	1749455.54	5949324.38	2.08
27	1749468.66	5949317.08	0.83
28	1749517.69	5949362.63	2.57
29	1749502.96	5949367.16	1.33
30	1749476.53	5949374.47	1.21
31	1749462.06	5949378.07	1.64
32	1749458.69	5949379.34	1.21
33	1749445.57	5949383.04	1.11
34	1749430.81	5949387.16	1.03
35	1749416.12	5949391.03	1.16
36	1749392.03	5949396.90	2.36
143	1749277.68	5949203.93	1.03
144	1749290.92	5949207.80	1.18
145	1749308.53	5949214.21	2.69
146	1749321.76	5949221.59	1.48
147	1749337.49	5949233.33	2.77
148	1749355.78	5949248.37	1.18
149	1749371.23	5949263.97	1.96
150	1749381.60	5949273.02	1.52
151	1749390.96	5949282.55	2.06
152	1749403.42	5949296.77	1.06
153	1749412.01	5949312.62	0.96
154	1749416.98	5949328.69	1.72

REVISION DETAILS

	ISSUED FOR INFORMATION	SIGNED AND ISSUED	BY	DATE
1	ISSUED FOR INFORMATION		KH	14/06/18
2	SIGNED AND ISSUED		MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



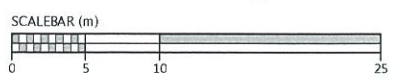
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 WASTEWATER AS-BUILT
 SHEET 2 OF 5
 (SLC-66650)**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-401-AB	

I certify that these As-built Plans are an accurate record of the works undertaken and that:

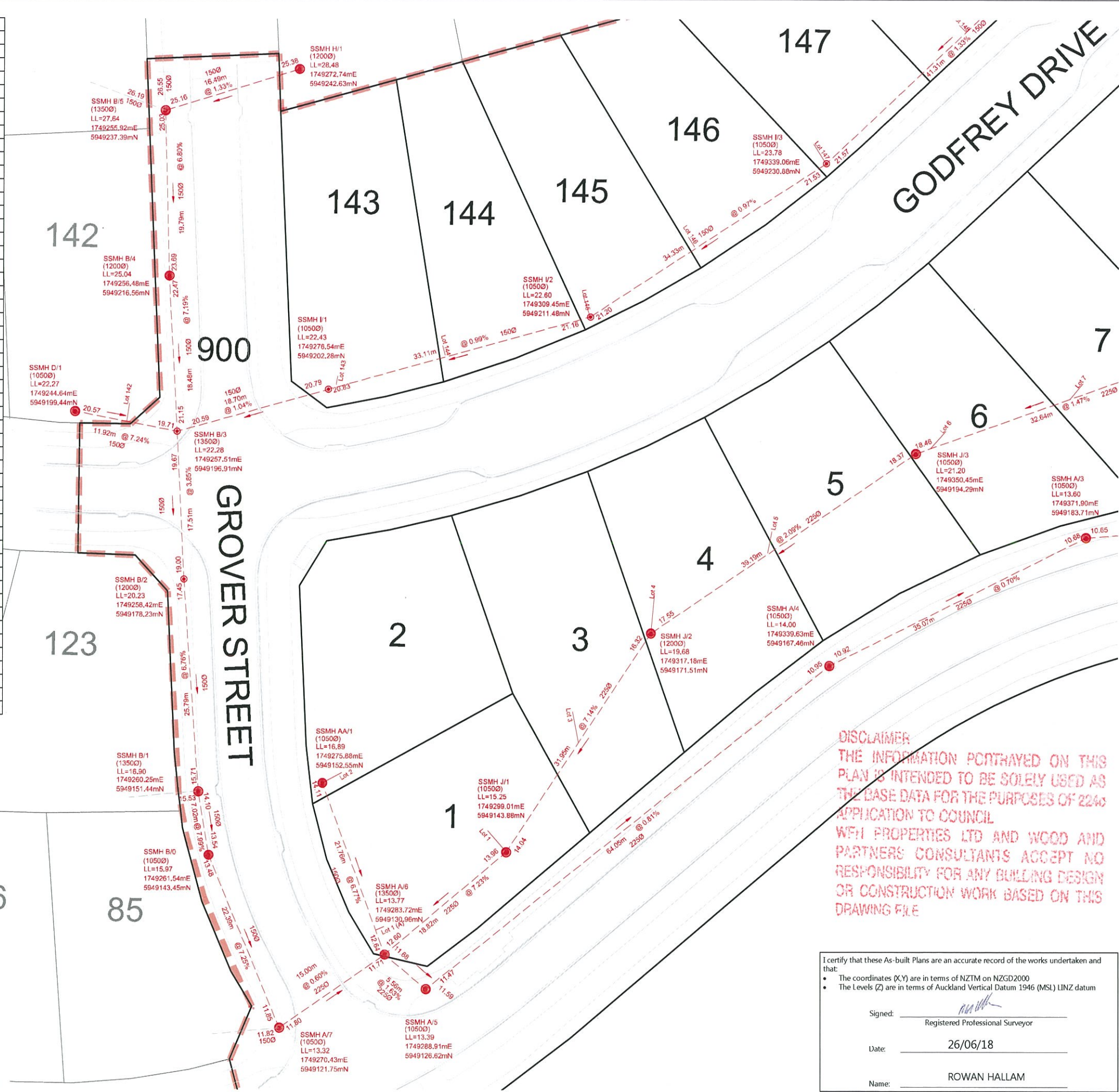
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor
 Date: 26/06/18
 Name: ROWAN HALLAM





Schedule of Coordinates Wastewater Lot Connections			
Lot#	Easting	Northing	Length
1	1749296.67	5949146.67	3.58
1(A)	1749283.65	5949134.48	1.09
2	1749278.31	5949153.86	2.76
3	1749307.36	5949161.62	3.99
4	1749317.63	5949176.37	4.88
5	1749332.39	5949184.44	2.74
6	1749354.26	5949197.15	2.91
7	1749371.48	5949203.20	2.58
8	1749387.55	5949209.53	5.32
9	1749406.27	5949208.30	3.26
10	1749431.20	5949208.13	3.04
11	1749442.01	5949208.18	2.58
12	1749451.24	5949221.84	2.17
13	1749462.99	5949237.93	2.27
14	1749473.57	5949254.27	1.87
15	1749481.74	5949267.84	2.37
16	1749490.44	5949281.06	2.26
17	1749504.83	5949306.00	2.23
18	1749506.37	5949310.04	1.97
19	1749512.18	5949336.11	1.94
20	1749390.45	5949250.44	4.00
21	1749428.46	5949250.70	1.07
22	1749436.86	5949263.78	1.13
23	1749444.98	5949276.74	1.35
24	1749452.89	5949289.77	1.80
25	1749461.94	5949303.06	1.43
26	1749455.54	5949324.38	2.08
27	1749468.66	5949317.08	0.83
28	1749517.69	5949362.63	2.57
29	1749502.96	5949367.16	1.33
30	1749476.53	5949374.47	1.21
31	1749462.06	5949378.07	1.64
32	1749458.69	5949379.34	1.21
33	1749445.57	5949383.04	1.11
34	1749430.81	5949387.16	1.03
35	1749416.12	5949391.03	1.16
36	1749392.03	5949396.90	2.36
143	1749277.68	5949203.93	1.03
144	1749290.92	5949207.80	1.18
145	1749308.53	5949214.21	2.69
146	1749321.76	5949221.59	1.48
147	1749337.49	5949233.33	2.77
148	1749355.78	5949248.37	1.18
149	1749371.23	5949263.97	1.96
150	1749381.60	5949273.02	1.52
151	1749390.96	5949282.55	2.06
152	1749403.42	5949296.77	1.06
153	1749412.01	5949312.62	0.96
154	1749416.98	5949328.69	1.72



LEGEND

- NEW SANITARY SEWER MANHOLE (Red circle with center dot)
- NEW SANITARY SEWER (Red dashed line)
- EXISTING SANITARY SEWER (Black solid line)
- FUTURE SANITARY SEWER (Black dashed line)
- STAGE BOUNDARY (Red dashed line with double dashes)

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 - ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	14/06/18
2	SIGNED AND ISSUED	MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	MB	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DRAWN	KH	09 308 9229
CHECKED	AF	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

**WASTEWATER AS-BUILT
SHEET 3 OF 5
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-402-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2246 APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *Rowan Hallam*
Registered Professional Surveyor

Date: 26/06/18

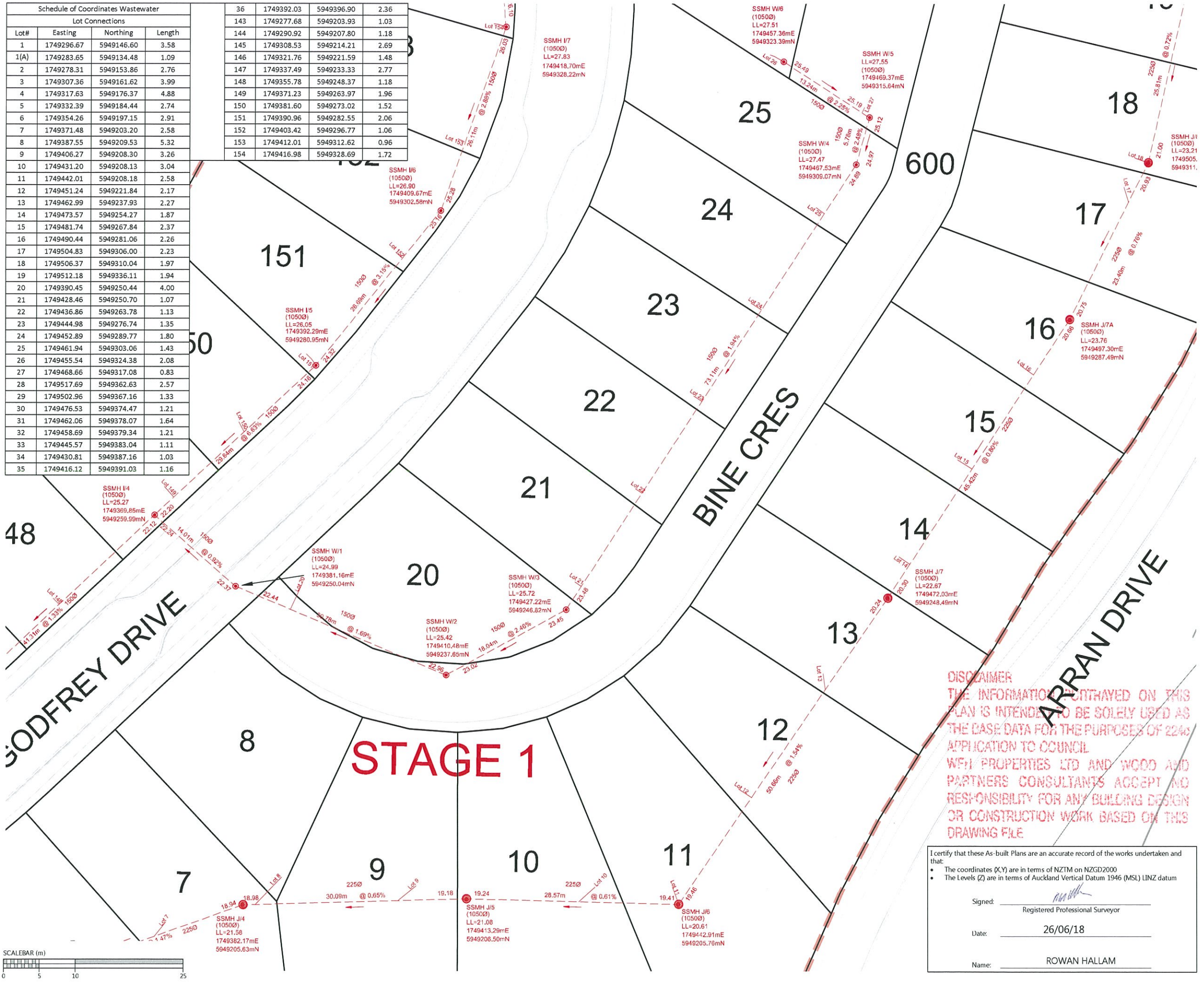
Name: ROWAN HALLAM



Document No. K37501 - ARRAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/CAD DRAWINGS/SURV/S-BUILT/37501-01-402-AB-SEWER.DWG



Schedule of Coordinates Wastewater				
Lot Connections				
Lot#	Easting	Northing	Length	
1	1749296.67	5949146.60	3.58	
1(A)	1749283.65	5949134.48	1.09	
2	1749278.31	5949153.86	2.76	
3	1749307.36	5949161.62	3.99	
4	1749317.63	5949176.37	4.88	
5	1749332.39	5949184.44	2.74	
6	1749354.26	5949197.15	2.91	
7	1749371.48	5949203.20	2.58	
8	1749387.55	5949209.53	5.32	
9	1749406.27	5949208.30	3.26	
10	1749431.20	5949208.13	3.04	
11	1749442.01	5949208.18	2.58	
12	1749451.24	5949221.84	2.17	
13	1749462.99	5949237.93	2.27	
14	1749473.57	5949254.27	1.87	
15	1749481.74	5949267.84	2.37	
16	1749490.44	5949281.06	2.26	
17	1749504.83	5949306.00	2.23	
18	1749506.37	5949310.04	1.97	
19	1749512.18	5949336.11	1.94	
20	1749390.45	5949250.44	4.00	
21	1749428.46	5949250.70	1.07	
22	1749436.86	5949263.78	1.13	
23	1749444.98	5949276.74	1.35	
24	1749452.89	5949289.77	1.80	
25	1749461.94	5949303.06	1.43	
26	1749455.54	5949324.38	2.08	
27	1749468.66	5949317.08	0.83	
28	1749517.69	5949362.63	2.57	
29	1749502.96	5949367.16	1.33	
30	1749476.53	5949374.47	1.21	
31	1749462.06	5949378.07	1.64	
32	1749458.69	5949379.34	1.21	
33	1749445.57	5949383.04	1.11	
34	1749430.81	5949387.16	1.03	
35	1749416.12	5949391.03	1.16	
36	1749392.03	5949396.90	2.36	
143	1749277.68	5949203.93	1.03	
144	1749290.92	5949207.80	1.18	
145	1749308.53	5949214.21	2.69	
146	1749321.76	5949221.59	1.48	
147	1749337.49	5949233.33	2.77	
148	1749355.78	5949248.37	1.18	
149	1749371.23	5949263.97	1.96	
150	1749381.60	5949273.02	1.52	
151	1749390.96	5949282.55	2.06	
152	1749403.42	5949296.77	1.06	
153	1749412.01	5949312.62	0.96	
154	1749416.98	5949328.69	1.72	



LEGEND

- NEW SANITARY SEWER MANHOLE (Red circle with dot)
- NEW SANITARY SEWER (Red dashed line)
- EXISTING SANITARY SEWER (Black dashed line)
- FUTURE SANITARY SEWER (Black dotted line)
- STAGE BOUNDARY (Red dashed line)

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 - ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	14/06/18
2	SIGNED AND ISSUED	MRH	27/06/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

**WASTEWATER AS-BUILT
SHEET 4 OF 5
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-403-AB	

DISCLAIMER
THE INFORMATION CONTAINED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

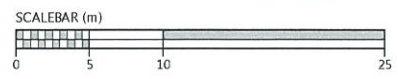
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM



Document No. K137501 - ARRAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/CAD DRAWINGS/SURV/S-BUILT/37501-01-403-AB-SEWER/DWG

DISCLAIMER
 THE INFORMATION PORTAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL.
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

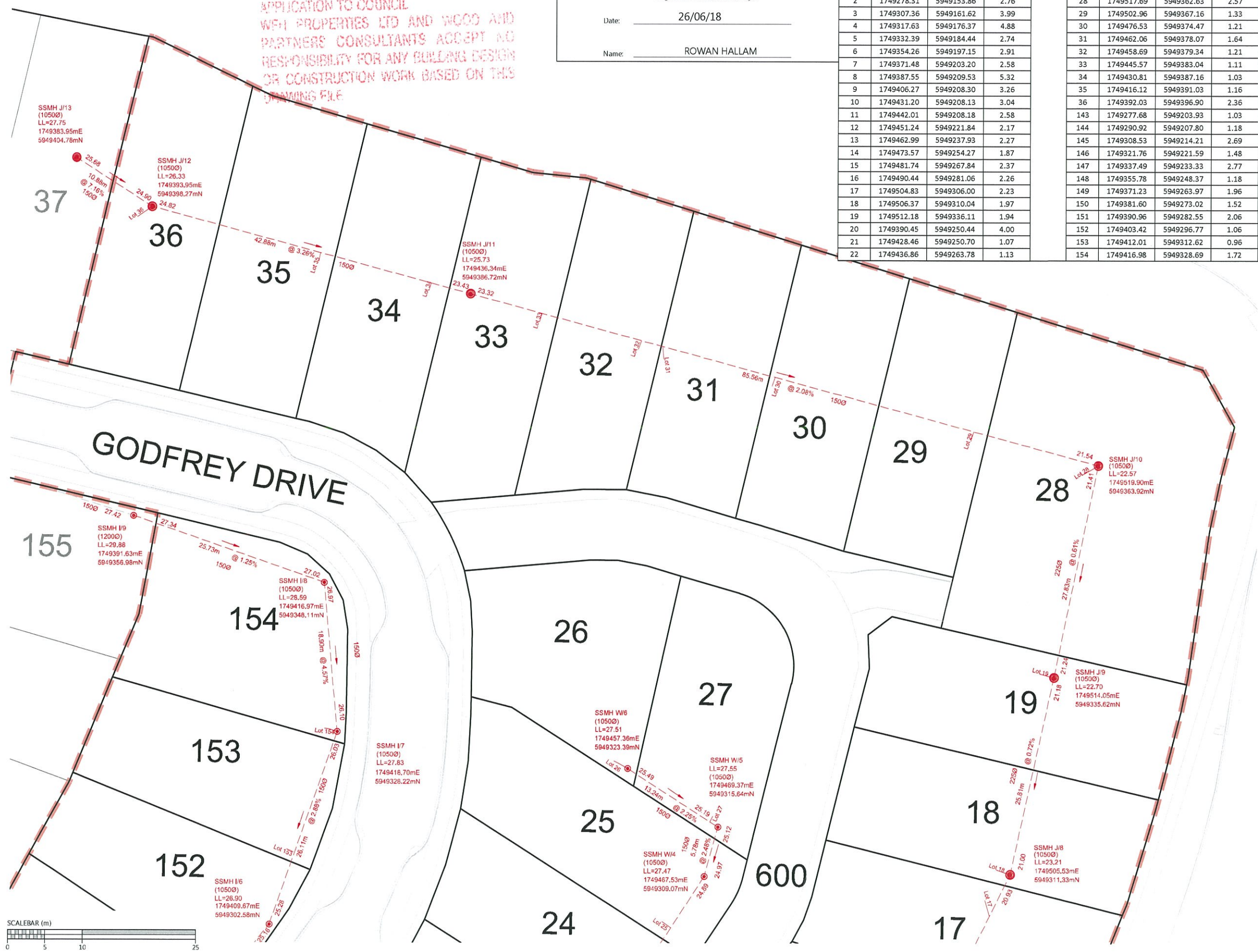
I certify that these As-built Plans are an accurate record of the works undertaken and that:
 • The coordinates (X,Y) are in terms of NZTM on NZGD2000
 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 26/06/18

Name: ROWAN HALLAM

Schedule of Coordinates Wastewater			
Lot Connections			
Lot#	Easting	Northing	Length
1	1749296.67	5949146.60	3.58
1(A)	1749283.65	5949134.48	1.09
2	1749278.31	5949153.86	2.76
3	1749307.36	5949161.62	3.99
4	1749317.63	5949176.37	4.88
5	1749332.39	5949184.44	2.74
6	1749354.26	5949197.15	2.91
7	1749371.48	5949203.20	2.58
8	1749387.55	5949209.53	5.32
9	1749406.27	5949208.30	3.26
10	1749431.20	5949208.13	3.04
11	1749442.01	5949208.18	2.58
12	1749451.24	5949221.84	2.17
13	1749462.99	5949237.93	2.27
14	1749473.57	5949254.27	1.87
15	1749481.74	5949267.84	2.37
16	1749490.44	5949281.06	2.26
17	1749504.83	5949306.00	2.23
18	1749506.37	5949310.04	1.97
19	1749512.18	5949336.11	1.94
20	1749390.45	5949250.44	4.00
21	1749428.46	5949250.70	1.07
22	1749436.86	5949263.78	1.13
23	1749444.98	5949276.74	1.35
24	1749452.89	5949289.77	1.80
25	1749461.94	5949303.06	1.43
26	1749455.54	5949324.38	2.08
27	1749468.66	5949317.08	0.83
28	1749517.69	5949362.63	2.57
29	1749502.96	5949367.16	1.33
30	1749476.53	5949374.47	1.21
31	1749462.06	5949378.07	1.64
32	1749458.69	5949379.34	1.21
33	1749445.57	5949383.04	1.11
34	1749430.81	5949387.16	1.03
35	1749416.12	5949391.03	1.16
36	1749392.03	5949396.90	2.36
143	1749277.68	5949203.93	1.03
144	1749290.92	5949207.80	1.18
145	1749308.53	5949214.21	2.69
146	1749321.76	5949221.59	1.48
147	1749337.49	5949233.33	2.77
148	1749355.78	5949248.37	1.18
149	1749371.23	5949263.97	1.96
150	1749381.60	5949273.02	1.52
151	1749390.96	5949282.55	2.06
152	1749403.42	5949296.77	1.06
153	1749412.01	5949312.62	0.96
154	1749416.98	5949328.69	1.72



LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	
FUTURE SANITARY SEWER	
STAGE BOUNDARY	

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
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 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	14/06/18
2 SIGNED AND ISSUED	MRH	26/06/18

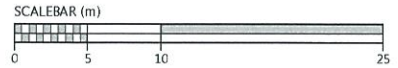
SURVEYED	WOODS	WOODS Ltd
DESIGNED	MB	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DRAWN	KH	09 308 9229
CHECKED	AF	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

WASTEWATER AS-BUILT
 SHEET 5 OF 5
 (SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-404-AB	

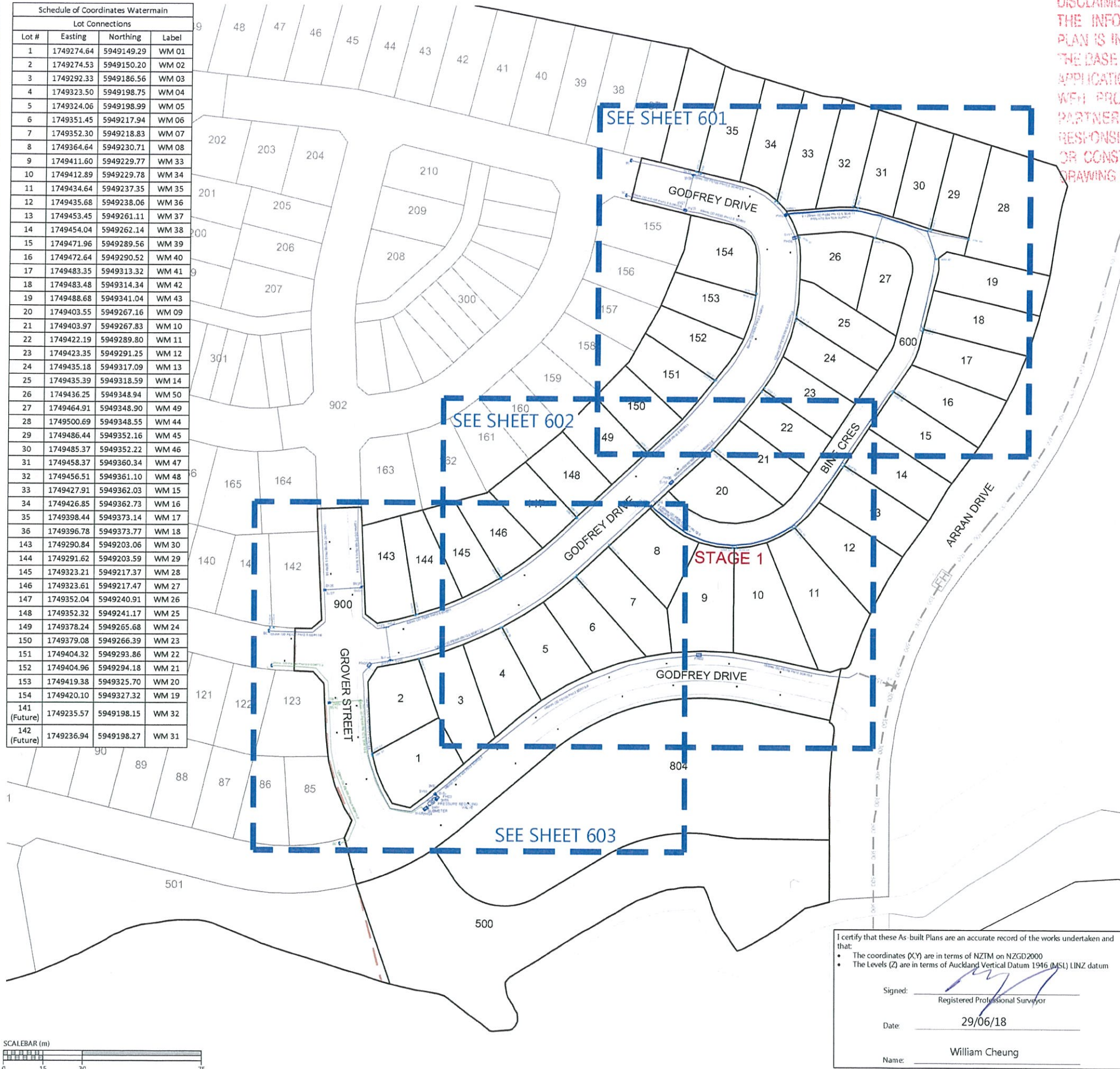


Document No. K137501 - ARRAN HILL PRECINCT 5 STAGE 1 PROJECT DATA/CAD DRAWINGS/SURVAYS-BUILT/37501-01-404-AB-SEWER.DWG



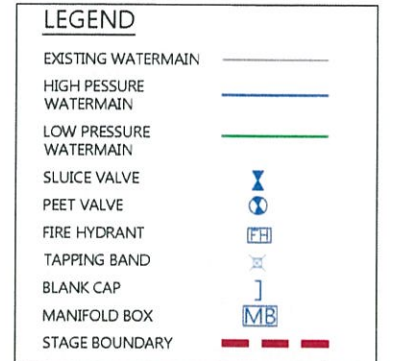
DISCLAIMER:
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Schedule of Coordinates Watermain			
Lot Connections			
Lot #	Easting	Northing	Label
1	1749274.64	5949149.29	WM 01
2	1749274.53	5949150.20	WM 02
3	1749292.33	5949186.56	WM 03
4	1749323.50	5949198.75	WM 04
5	1749324.06	5949198.99	WM 05
6	1749351.45	5949217.94	WM 06
7	1749352.30	5949218.83	WM 07
8	1749364.64	5949230.71	WM 08
9	1749411.60	5949229.77	WM 33
10	1749412.89	5949229.78	WM 34
11	1749434.64	5949237.35	WM 35
12	1749435.68	5949238.06	WM 36
13	1749453.45	5949261.11	WM 37
14	1749454.04	5949262.14	WM 38
15	1749471.96	5949289.56	WM 39
16	1749472.64	5949290.52	WM 40
17	1749483.35	5949313.32	WM 41
18	1749483.48	5949314.34	WM 42
19	1749488.68	5949341.04	WM 43
20	1749403.55	5949267.16	WM 09
21	1749403.97	5949267.83	WM 10
22	1749422.19	5949289.80	WM 11
23	1749423.35	5949291.25	WM 12
24	1749435.18	5949317.09	WM 13
25	1749435.39	5949318.59	WM 14
26	1749436.25	5949348.94	WM 50
27	1749464.91	5949348.90	WM 49
28	1749500.69	5949348.55	WM 44
29	1749486.44	5949352.16	WM 45
30	1749485.37	5949352.22	WM 46
31	1749458.37	5949360.34	WM 47
32	1749456.51	5949361.10	WM 48
33	1749427.91	5949362.03	WM 15
34	1749426.85	5949362.73	WM 16
35	1749398.44	5949373.14	WM 17
36	1749396.78	5949373.77	WM 18
143	1749290.84	5949203.06	WM 30
144	1749291.62	5949203.59	WM 29
145	1749323.21	5949217.37	WM 28
146	1749323.61	5949217.47	WM 27
147	1749352.04	5949240.91	WM 26
148	1749352.32	5949241.17	WM 25
149	1749378.24	5949265.68	WM 24
150	1749379.08	5949266.39	WM 23
151	1749404.32	5949293.86	WM 22
152	1749404.96	5949294.18	WM 21
153	1749419.38	5949325.70	WM 20
154	1749420.10	5949327.32	WM 19
141 (Future)	1749235.57	5949198.15	WM 32
142 (Future)	1749236.94	5949198.27	WM 31



Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH02	1749398.96	5949188.40
FH03	1749299.41	5949133.00
FH04	1749294.98	5949128.99
FH05	1749273.50	5949183.82
FH06	1749388.21	5949254.62
FH07	1749434.40	5949348.64
Sluice Valves		
SV02	1749298.75	5949134.89
SV03	1749298.31	5949134.51
SV04	1749298.08	5949134.29
SV05	1749298.88	5949132.99
SV06	1749298.90	5949132.55
SV07	1749296.51	5949130.44
SV08	1749294.69	5949128.72
SV09	1749258.58	5949169.47
SV10	1749258.28	5949169.17
SV11	1749258.25	5949169.72
SV12	1749280.99	5949185.61
SV13	1749281.86	5949185.75
SV14	1749281.33	5949185.97
SV15	1749378.37	5949245.39
SV16	1749387.92	5949254.33
SV17	1749434.28	5949349.05
SV18	1749395.92	5949372.66
SV19	1749395.35	5949372.80
SV20	1749395.58	5949372.42
SV21	1749392.01	5949359.20
SV22	1749280.09	5949198.50
SV23	1749279.36	5949198.36
SV24	1749270.13	5949213.60
SV25	1749270.42	5949214.10
SV26	1749256.47	5949212.92
SV27	1749256.50	5949212.38
Peel Valves		
PV01	1749379.41	5949245.87
Manifold Boxes		
MB01	1749380.34	5949245.65
MB02	1749431.26	5949357.76
SUB METER		
SM01	1749295.62	5949129.61
PRESSURE REDUCING VALVE		
PRV01	1749297.65	5949131.49

- NOTES**
- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 - ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 - PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.
 - EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	06/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

**WATERMAIN AS-BUILT
 SHEET 1 OF 4
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-600-AB	

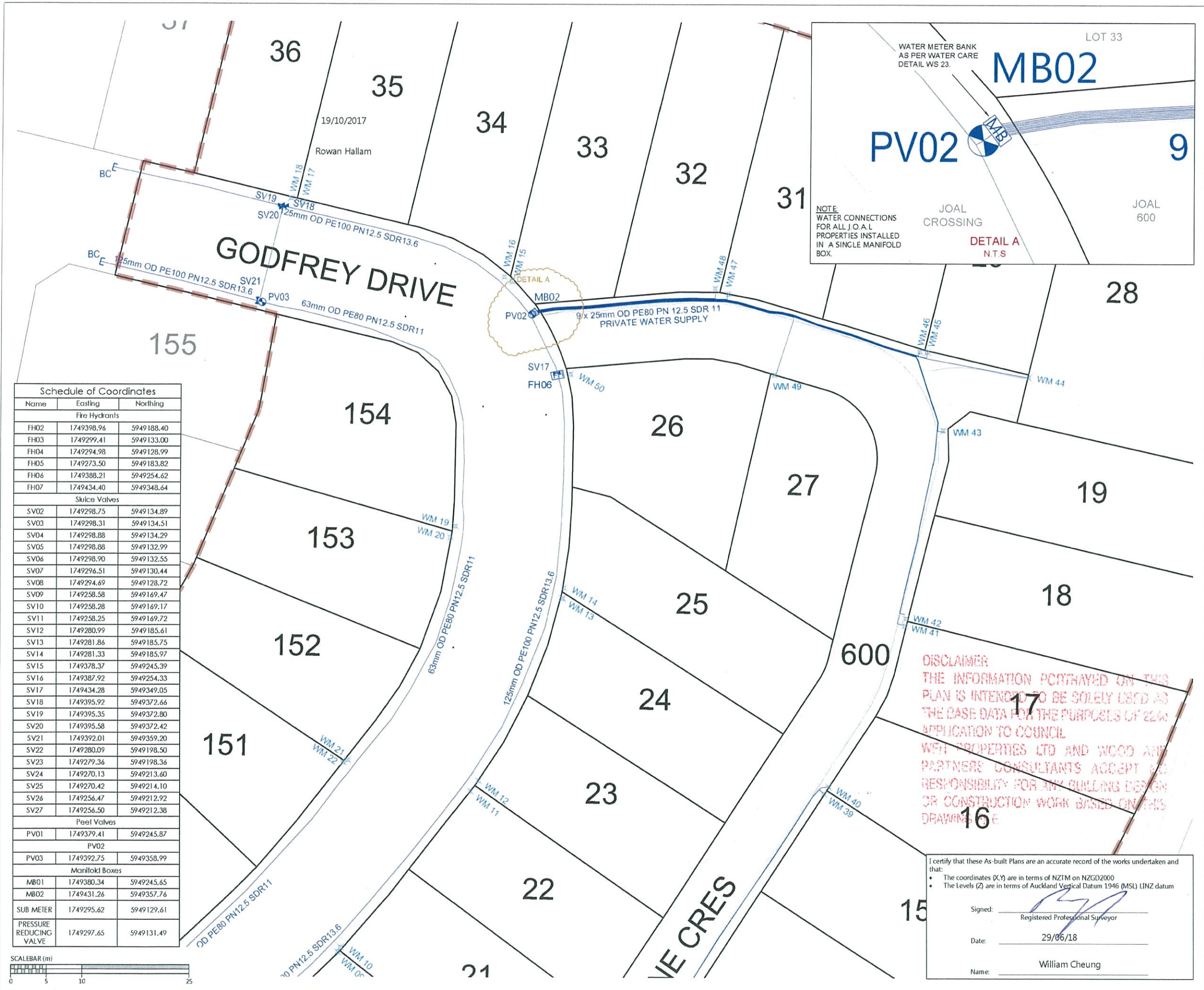
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

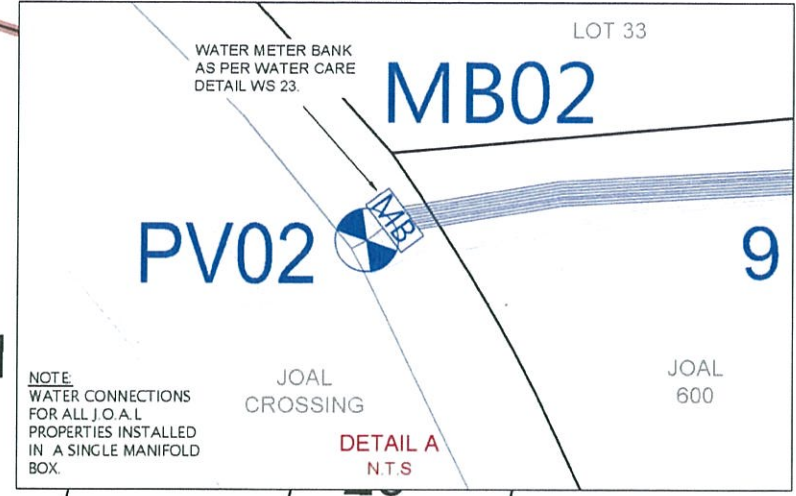
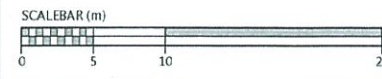
Signed: _____
 Registered Professional Surveyor

Date: 29/06/18

Name: William Cheung



Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH02	1749398.96	5949188.40
FH03	1749299.41	5949133.00
FH04	1749294.98	5949128.99
FH05	1749273.50	5949183.82
FH06	1749388.21	5949254.62
FH07	1749434.40	5949348.64
Sluice Valves		
SV02	1749298.75	5949134.89
SV03	1749298.31	5949134.51
SV04	1749298.88	5949134.29
SV05	1749298.88	5949132.99
SV06	1749298.90	5949132.55
SV07	1749296.51	5949130.44
SV08	1749294.69	5949128.72
SV09	1749258.58	5949169.47
SV10	1749258.28	5949169.17
SV11	1749258.25	5949169.72
SV12	1749280.99	5949185.61
SV13	1749281.86	5949185.75
SV14	1749281.33	5949185.97
SV15	1749378.37	5949245.39
SV16	1749387.92	5949254.33
SV17	1749434.28	5949349.05
SV18	1749395.92	5949372.66
SV19	1749395.35	5949372.80
SV20	1749395.58	5949372.42
SV21	1749392.01	5949359.20
SV22	1749280.09	5949198.50
SV23	1749279.36	5949198.36
SV24	1749270.13	5949213.60
SV25	1749270.42	5949214.10
SV26	1749256.47	5949212.92
SV27	1749256.50	5949212.38
Peel Valves		
PV01	1749379.41	5949245.87
Manifold Boxes		
MB01	1749380.34	5949245.65
MB02	1749431.26	5949357.76
SUB MEIER		
	1749295.62	5949129.61
PRESSURE REDUCING VALVE		
	1749297.65	5949131.49

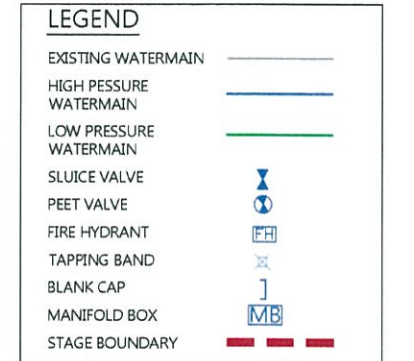


DISCLAIMER
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 APPLICATION TO COUNCIL
 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING.

I certify that these As-built Plans are an accurate record of the works undertaken and that:
 • The coordinates (X,Y) are in terms of NZTM on NZGD2000
 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: [Signature]
 Registered Professional Surveyor
 Date: 29/06/18
 Name: William Cheung

- NOTES**
- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 - ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 - PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.
 - EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	06/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DRAWN	KH	09 308 9229
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1**

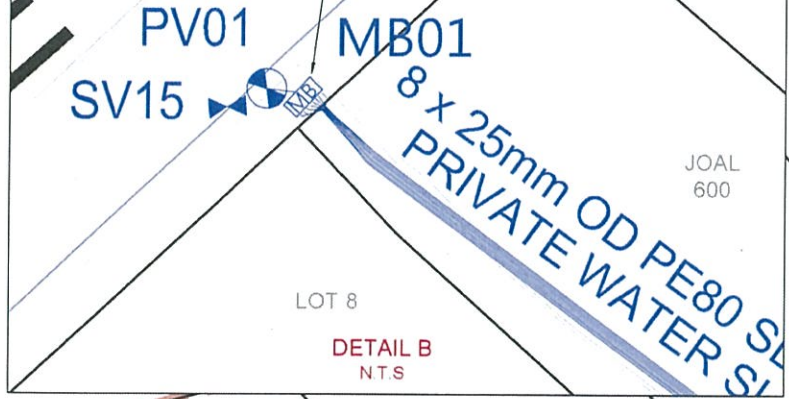
**WATERMAIN AS-BUILT
 SHEET 2 OF 4
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-601-AB	



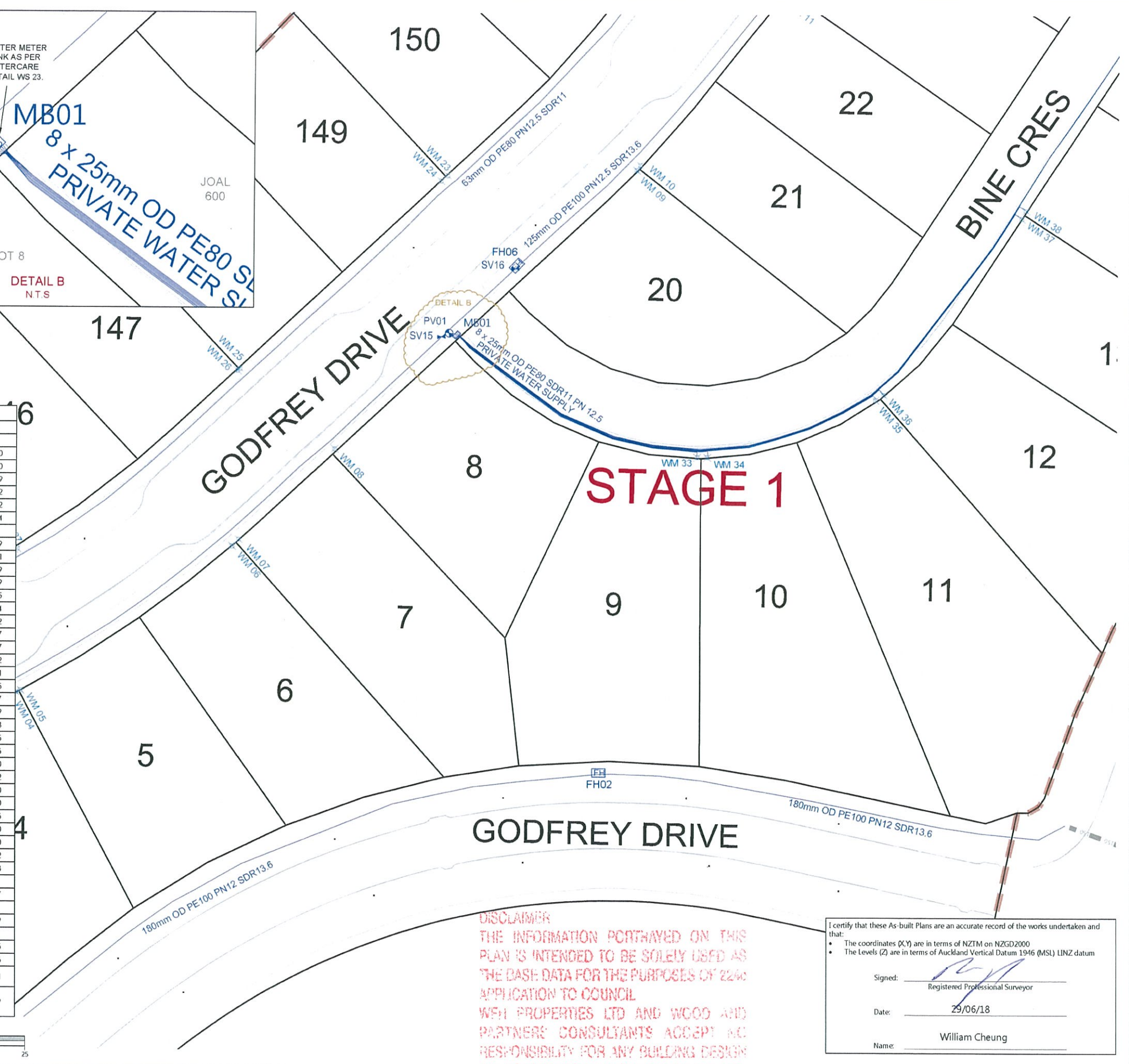
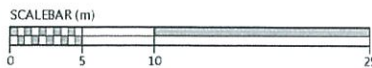
NOTE:
WATER CONNECTIONS FOR ALL J.O.A.L PROPERTIES INSTALLED IN A SINGLE MANIFOLD BOX.

WATER METER BANK AS PER WATERCARE DETAIL WS 23.

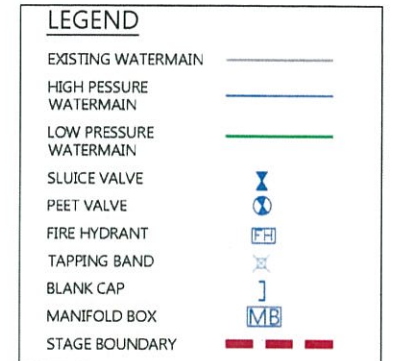


Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH02	1749398.96	5949188.40
FH03	1749299.41	5949133.00
FH04	1749294.98	5949128.99
FH05	1749273.50	5949183.82
FH06	1749388.21	5949254.62
FH07	1749434.40	5949348.64
Sluice Valves		
SV02	1749298.75	5949134.89
SV03	1749298.31	5949134.51
SV04	1749298.88	5949134.29
SV05	1749298.88	5949132.99
SV06	1749298.90	5949132.55
SV07	1749296.51	5949130.44
SV08	1749294.69	5949128.72
SV09	1749258.58	5949169.47
SV10	1749258.28	5949169.17
SV11	1749258.25	5949169.72
SV12	1749280.99	5949185.61
SV13	1749281.86	5949185.75
SV14	1749281.33	5949185.97
SV15	1749378.37	5949245.39
SV16	1749387.92	5949254.33
SV17	1749434.28	5949349.05
SV18	1749395.92	5949372.66
SV19	1749395.35	5949372.80
SV20	1749395.58	5949372.42
SV21	1749392.01	5949359.20
SV22	1749280.09	5949198.50
SV23	1749279.36	5949198.36
SV24	1749270.13	5949213.60
SV25	1749270.42	5949214.10
SV26	1749256.47	5949212.92
SV27	1749256.50	5949212.38
Peel Valves		
PV01	1749379.41	5949245.87
Manifold Boxes		
MB01	1749380.34	5949245.65
MB02	1749431.26	5949357.76
SUB METER		
SM01	1749295.62	5949129.61
PRESSURE REDUCING VALVE		
PV02	1749297.65	5949131.49



- NOTES**
1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 5. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.
 8. EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	06/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1
WATERMAIN AS-BUILT
SHEET 3 OF 4
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-602-AB	

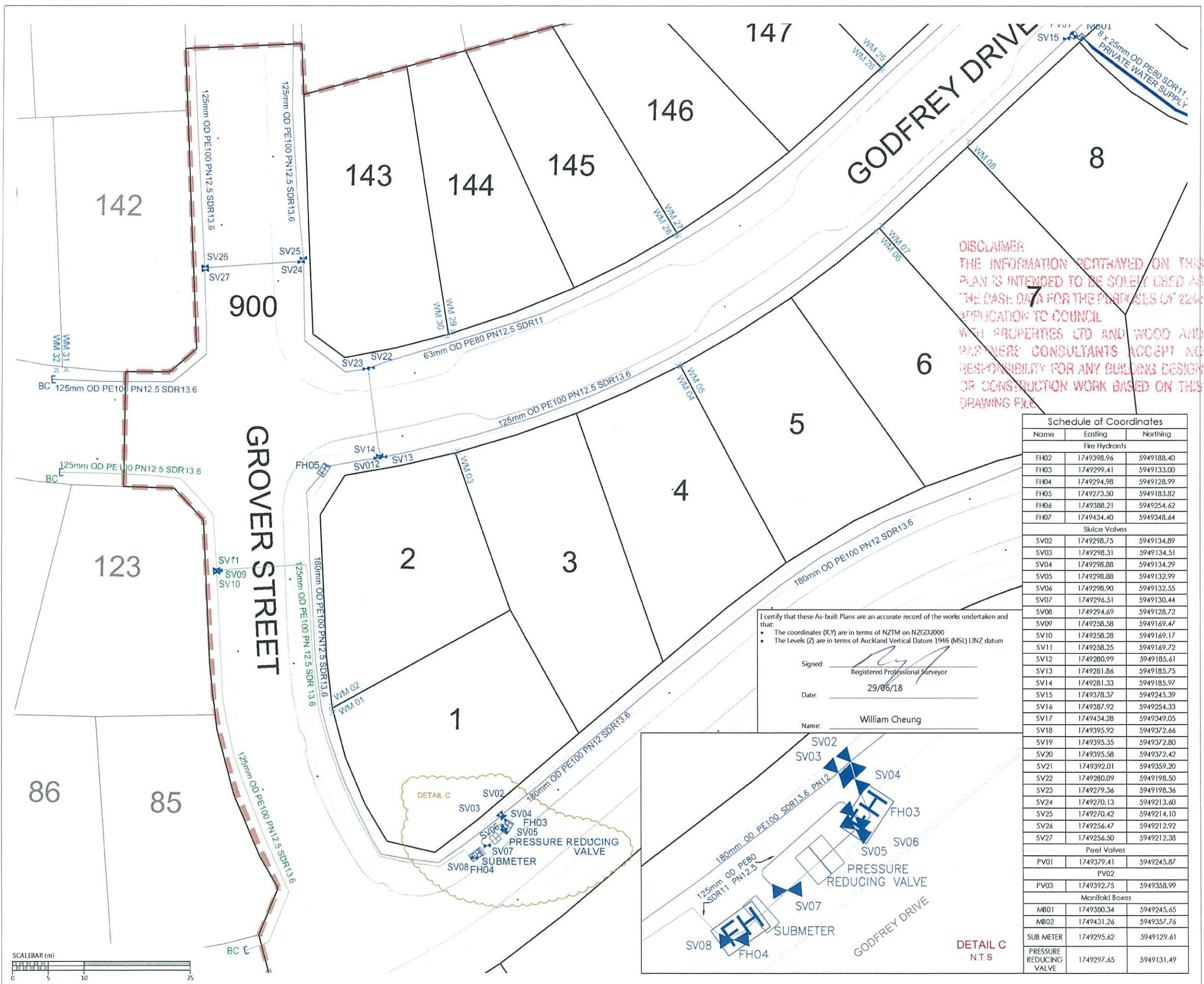
DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASIS DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING HERE

I certify that these As-built Plans are an accurate record of the works undertaken and that:
 • The coordinates (X,Y) are in terms of NZTM on NZGD2000
 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 29/06/18

Name: William Cheung

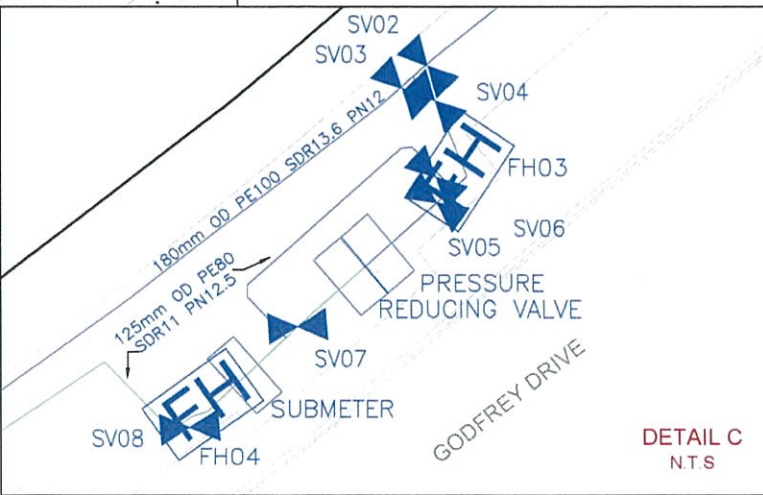


DISCLAIMER
 THE INFORMATION PORTAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2246 APPLICATION TO COUNCIL WITH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

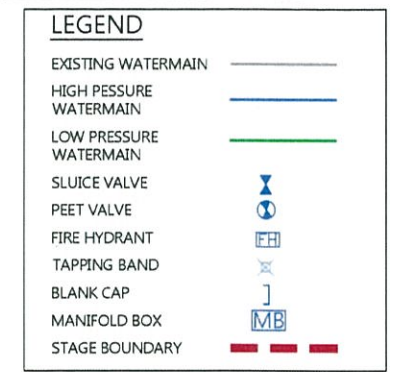
Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH02	1749398.96	5949188.40
FH03	1749299.41	5949133.00
FH04	1749294.98	5949128.99
FH05	1749273.50	5949183.82
FH06	1749388.21	5949254.62
FH07	1749434.40	5949348.64
Sluice Valves		
SV02	1749298.75	5949134.89
SV03	1749298.31	5949134.51
SV04	1749298.88	5949134.29
SV05	1749298.88	5949132.99
SV06	1749298.90	5949132.55
SV07	1749296.51	5949130.44
SV08	1749294.69	5949128.72
SV09	1749258.58	5949169.47
SV10	1749258.28	5949169.17
SV11	1749258.25	5949169.72
SV12	1749280.99	5949185.61
SV13	1749281.86	5949185.75
SV14	1749281.33	5949185.97
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SV16	1749387.92	5949254.33
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SV18	1749395.92	5949372.66
SV19	1749395.35	5949372.80
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SV23	1749279.36	5949198.36
SV24	1749270.13	5949213.60
SV25	1749270.42	5949214.10
SV26	1749256.47	5949212.92
SV27	1749256.50	5949212.38
Peel Valves		
PV01	1749379.41	5949245.87
Manifold Boxes		
MB01	1749380.34	5949245.65
MB02	1749431.26	5949357.76
Sub Meters		
SUB METER	1749295.62	5949129.61
Pressure Reducing Valves		
PRV	1749297.65	5949131.49

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 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
 Registered Professional Surveyor
 Date: 29/06/18
 Name: William Cheung



- NOTES**
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 - EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



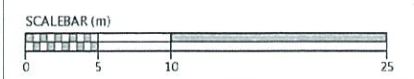
REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	06/06/18

SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ









**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 WATERMAIN AS-BUILT
 SHEET 4 OF 4
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-603-AB	






LEGEND:

-  TOP OF REINFORCED EARTH SLOPE
-  BOTTOM OF REINFORCED EARTH SLOPE
-  REINFORCED EARTH SLOPE
-  GEOWEB
-  BOUNDARY
-  STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED TO WFH LTD	MD	24/08/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED		
DRAWN	MD	
CHECKED	AF	
APPROVED		

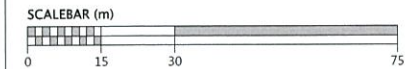




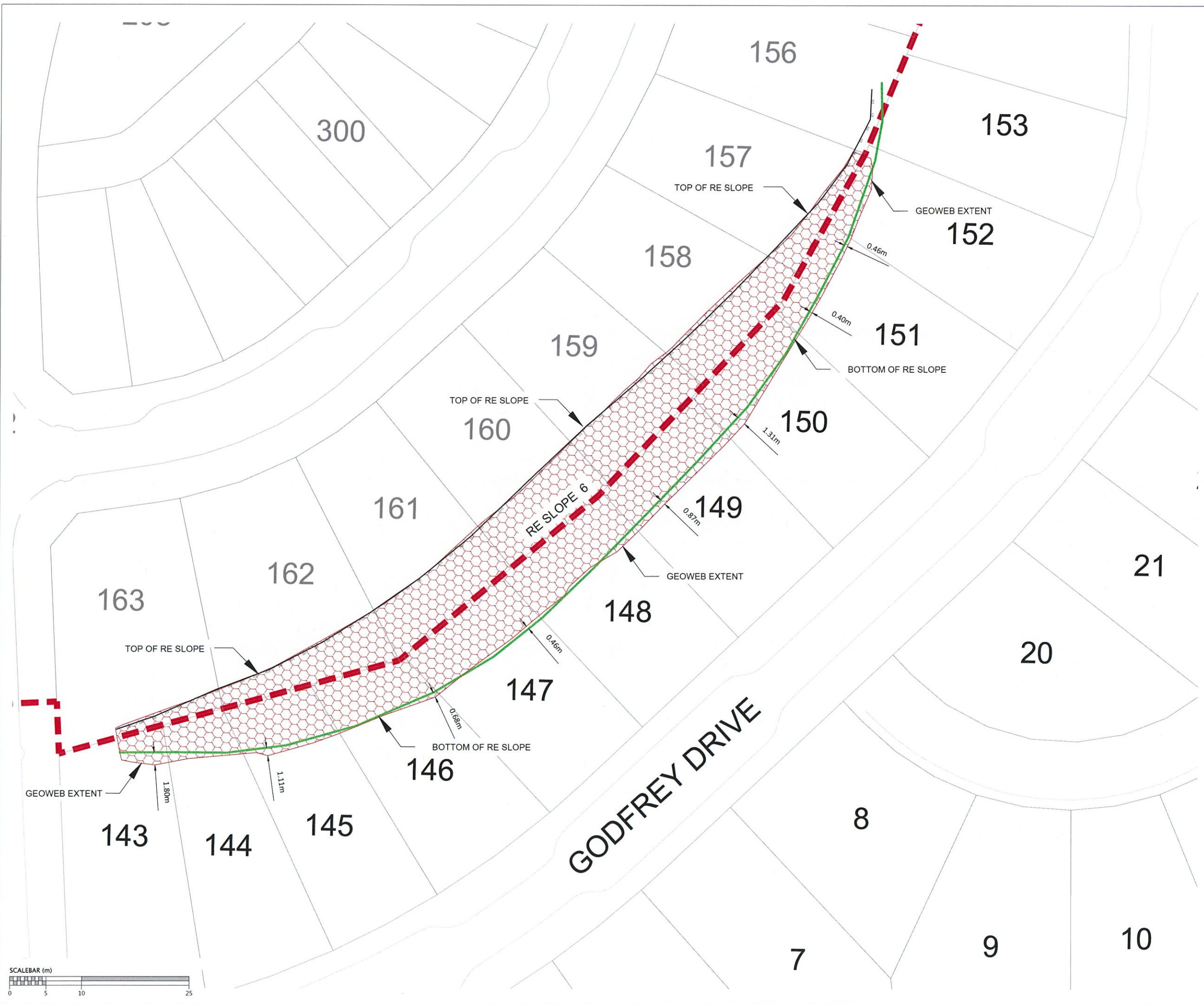
**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

REINFORCED EARTH SLOPE 6 &
GEOWEB AS-BUILT PLAN
SHEET 1 OF 2

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-130-AB	



Document No. K.137500 - ARRAN HILL PRECINCT 5 PROJECT DATA/CAD DRAWINGS/MISC DRAWINGS/37501-01-130-AB-WALLS.DWG



LEGEND:

- TOP OF REINFORCED EARTH SLOPE
- BOTTOM OF REINFORCED EARTH SLOPE
- REINFORCED EARTH SLOPE
- GEOWEB
- LOT BOUNDARY
- STAGE BOUNDARY

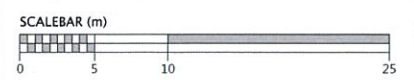
REVISION DETAILS		BY	DATE
1	ISSUED TO WFH LTD	MD	24/08/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED		
DRAWN	MP	
CHECKED	AF	
APPROVED		

**MILLWATER PRECINCT 5
OREWA WEST
STAGE 1**

REINFORCED EARTH SLOPE 6 &
GEOWEB AS-BUILT PLAN
SHEET 2 OF 2

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37501-01-131-AB	



Document No. K137500 - ARRAN HILL PRECINCT 5/PROJECT DATA/CAO DRAWINGS/37501-01-131-AB-WALLS DWG