

CLIENT:



COUNCIL:



MILLWATER - ARRAN POINT

STAGE 4

ASBUILTS DRAWINGS

October 2018

*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
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MILLWATER - ARRAN POINT STAGE 4

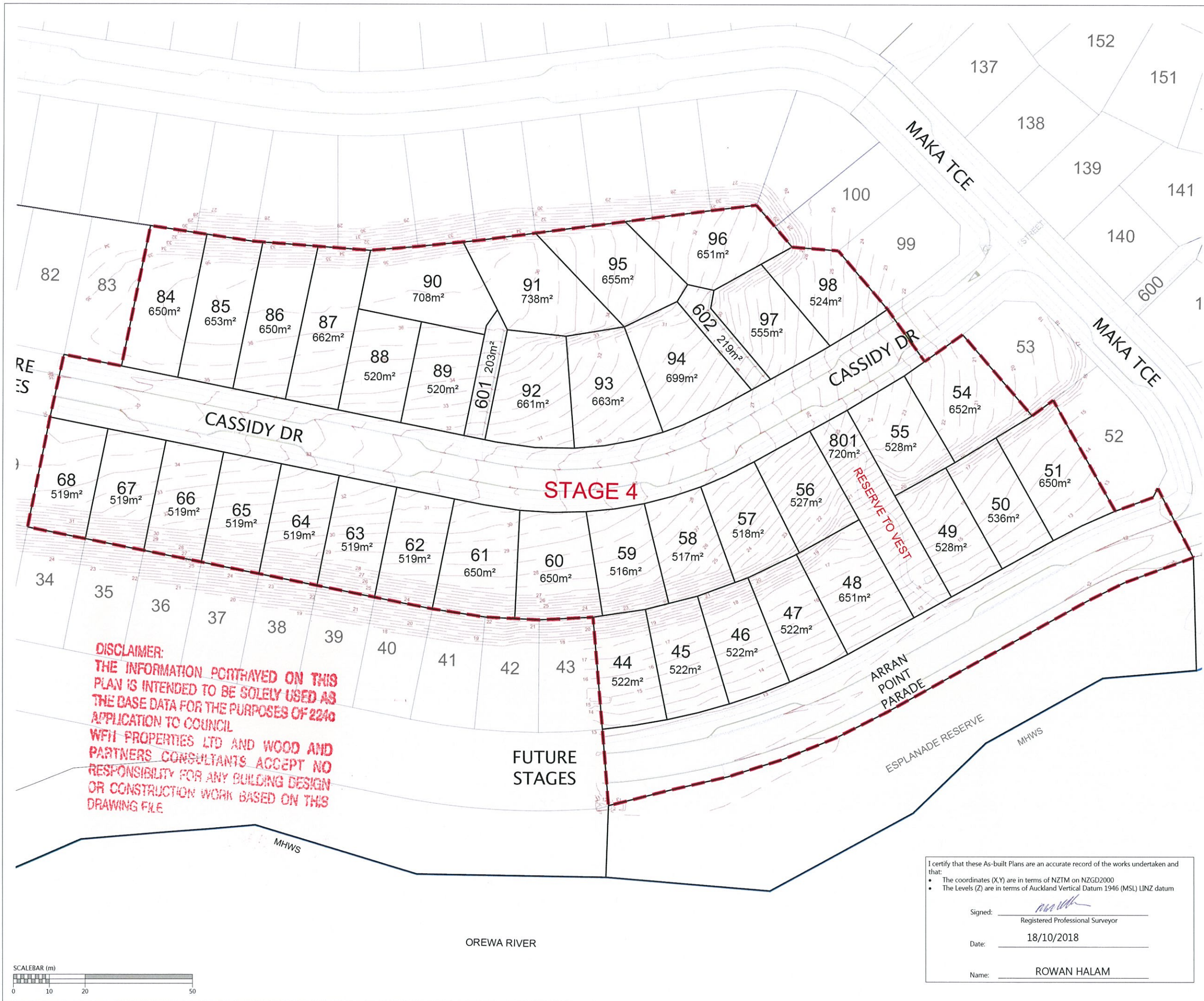
CONTENT INDEX AND LOCALITY PLAN

SHEET NO.	SHEET TITLE
37004-04-000	000 Plans Index and Location Plan
37004-04-100	100 Final Contour Asbuilt Plan
37004-04-110	110-112 Cut & Fill Asbuilt Original to Final Surface
37004-04-120	120-122 Shear Key, Undercuts & Subsoil Drains Asbuilt Plan
37004-04-125	125 Deadman Asbuilt
37004-04-200	200-203 Roothing Asbuilt Plans
37004-04-250	250 Reserve Asbuilt
37004-04-300	300-302 Stormwater Asbuilt Plans
37004-04-400	400-402 Sanitary Sewer Asbuilt Plans
37004-04-600	600-602 Watermain Asbuilt Plans

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LOCATION PLAN
NOT TO SCALE



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
ARRAN POINT
STAGE 4**

FINAL CONTOURS PLAN

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-100-AB	

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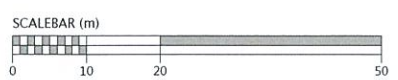
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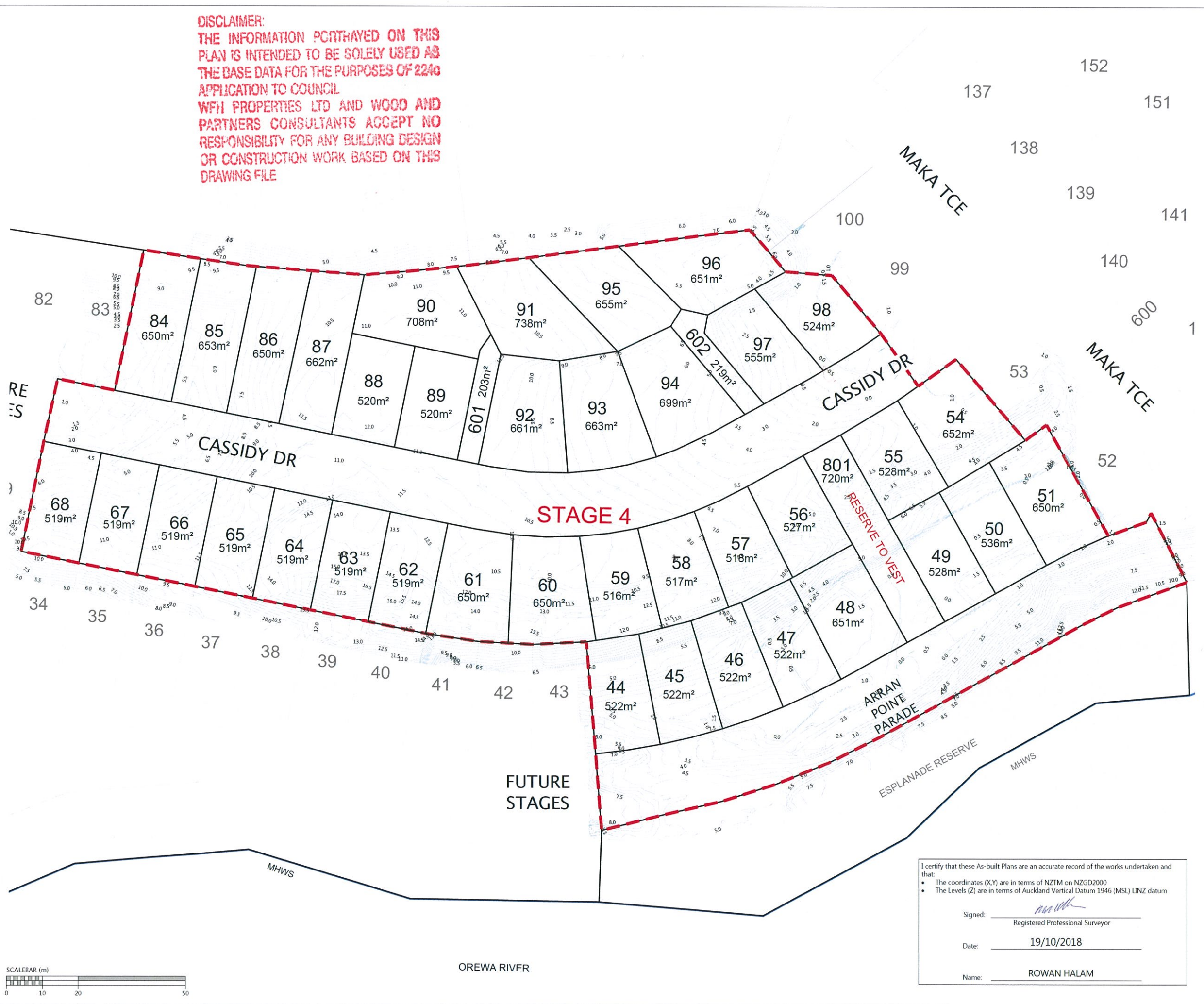
Signed: *Rowan Halam*
Registered Professional Surveyor

Date: 18/10/2018

Name: ROWAN HALAM



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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4
 CUT & FILL AS-BUILT
 LOWEST TO FINAL SURFACE
 SHEET 1 OF 3**

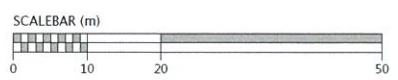
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SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-110-AB	

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Signed: *Rowan Halam*
 Registered Professional Surveyor

Date: 19/10/2018

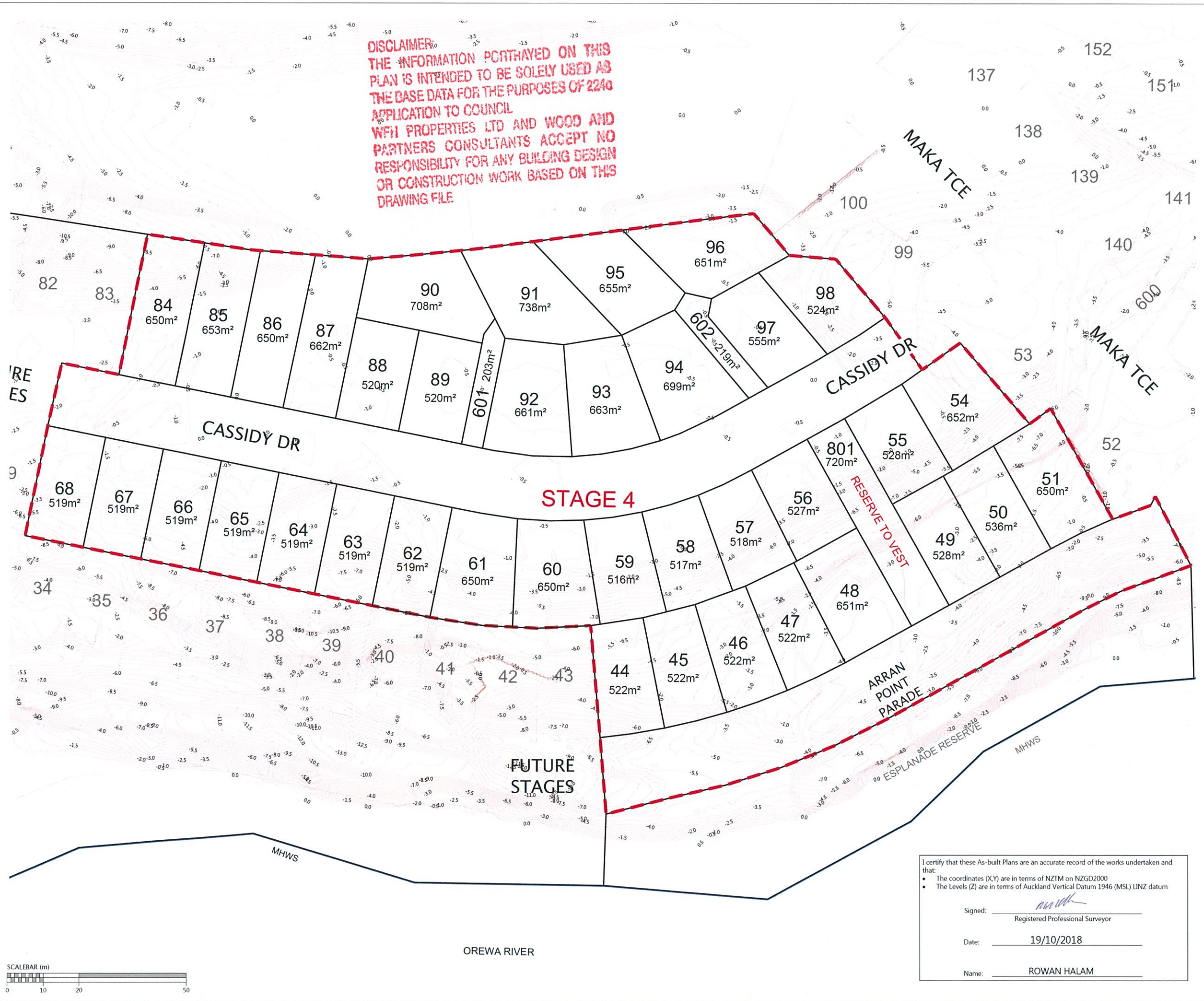
Name: ROWAN HALAM



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 APPLICATION TO COUNCIL
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NOTES
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LEGEND

	FILL CONTOUR
	CUT CONTOUR
	ZERO CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4
 CUT & FILL AS-BUILT
 ORIGINAL TO LOWEST SURFACE
 SHEET 2 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-111-AB	

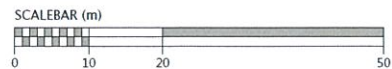
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 Registered Professional Surveyor

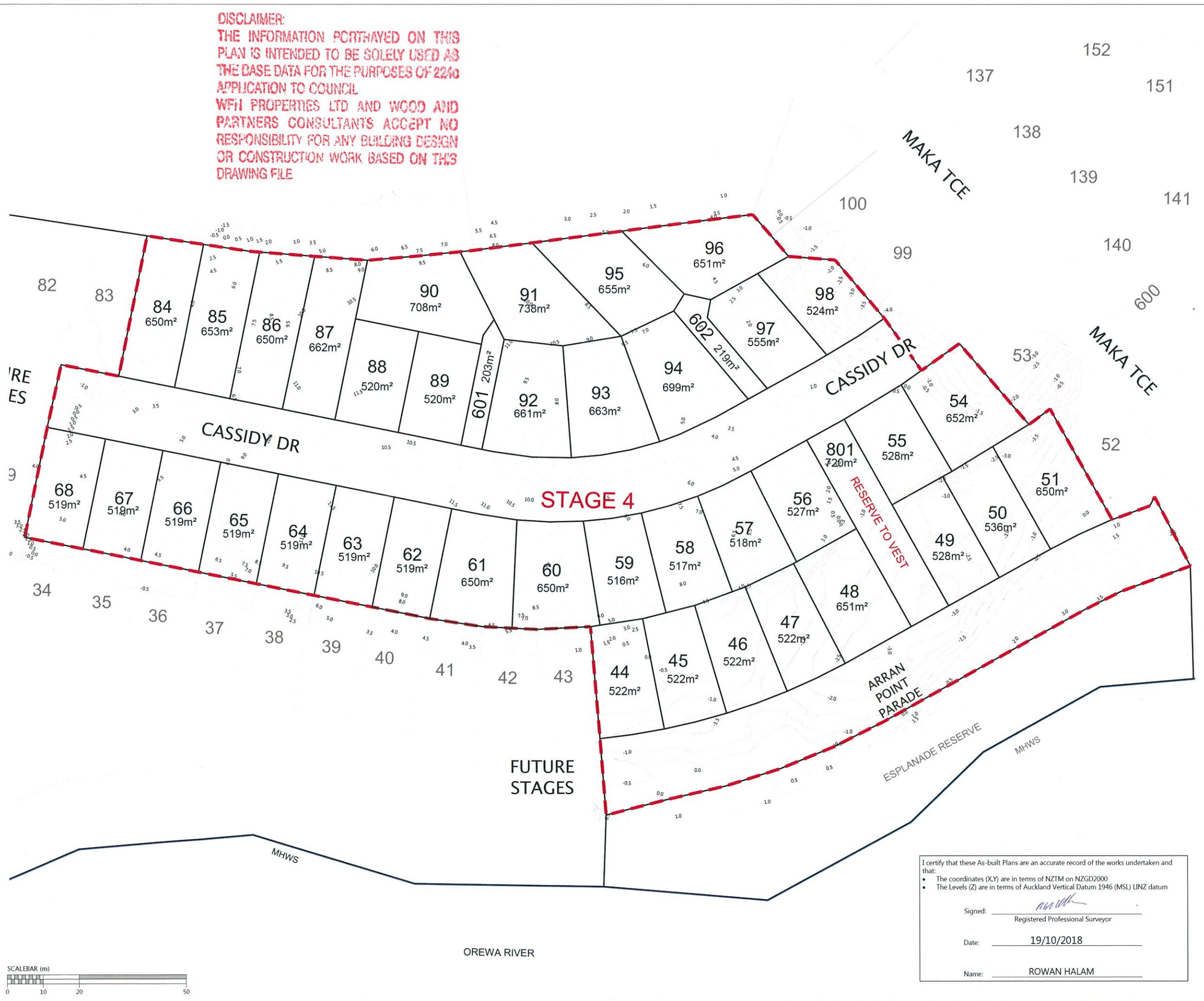
Date: 19/10/2018

Name: ROWAN HALAM



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NOTES
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LEGEND

	FILL CONTOUR
	CUT CONTOUR
	ZERO CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4
 CUT & FILL AS-BUILT
 ORIGINAL TO FINAL SURFACE
 SHEET 3 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-112-AB	

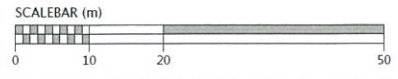
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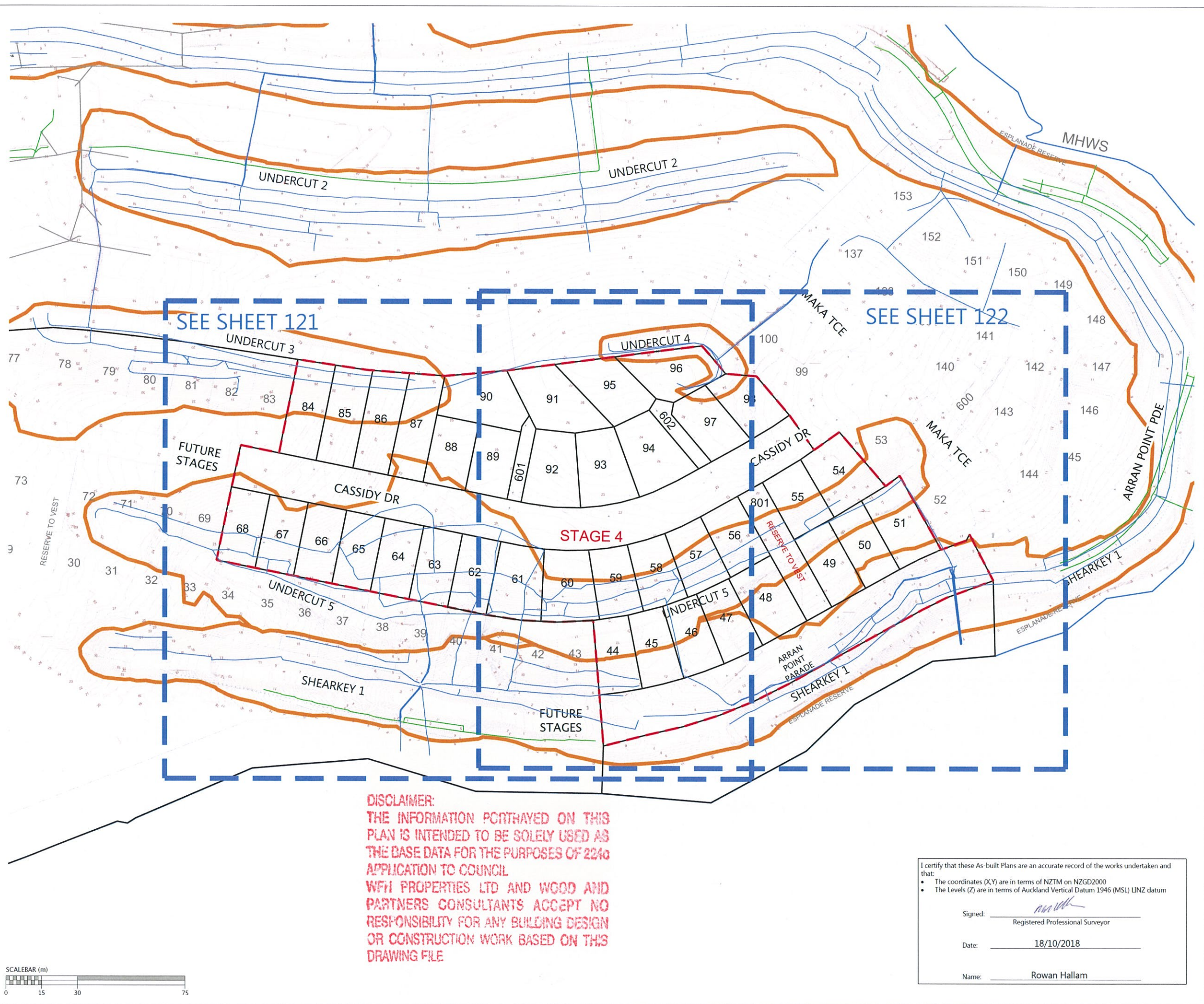
Signed:
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Date: 19/10/2018

Name: ROWAN HALAM



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

LEGEND

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4**
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 OVERALL LAYOUT
 SHEET 1 OF 3

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-120-AB	

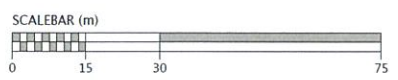
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Signed:
 Registered Professional Surveyor

Date: 18/10/2018

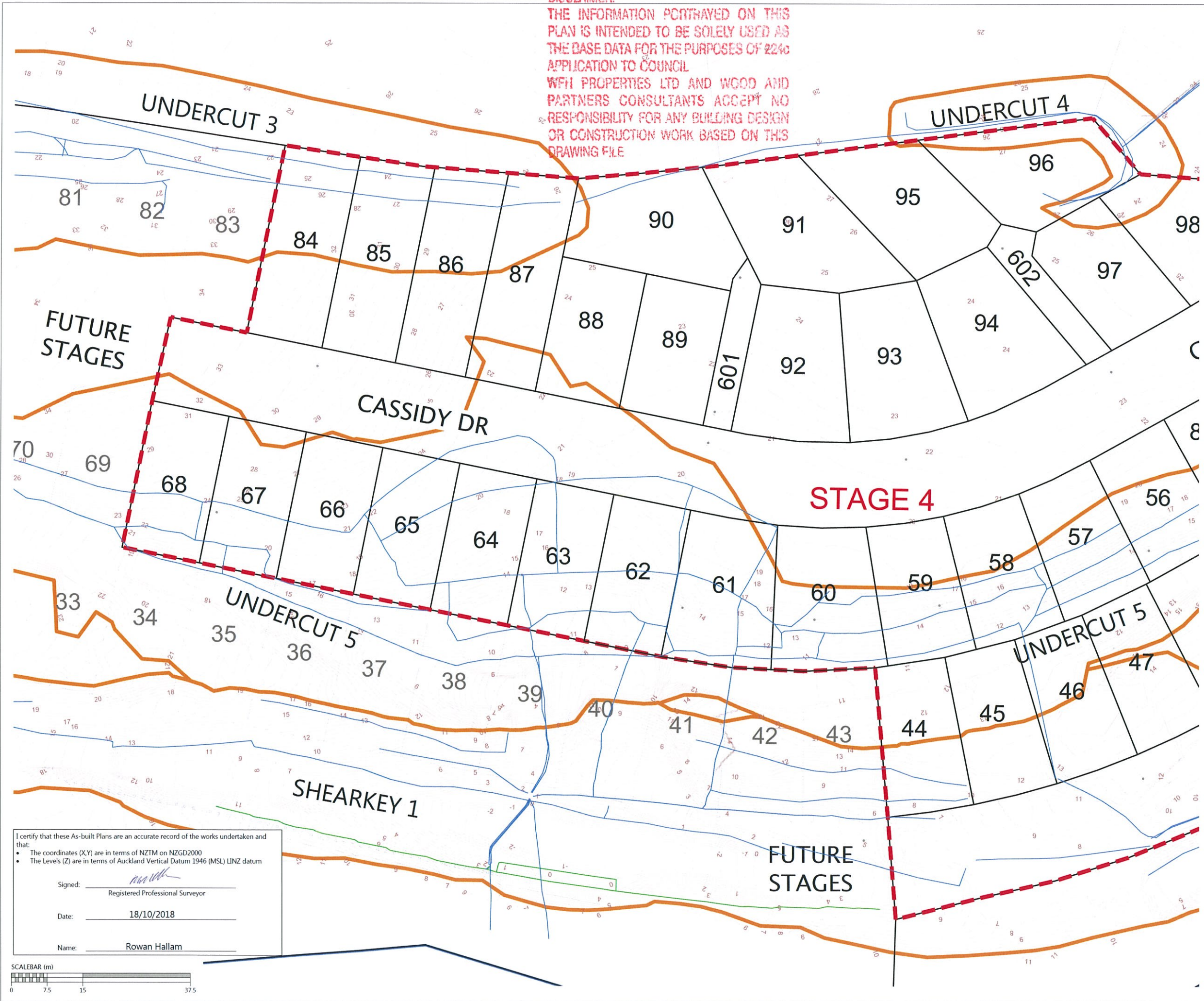
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NOTES
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 2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4**
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 SHEET 2 OF 3

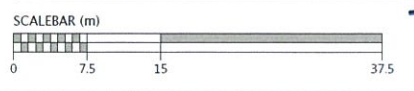
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SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-121-AB	

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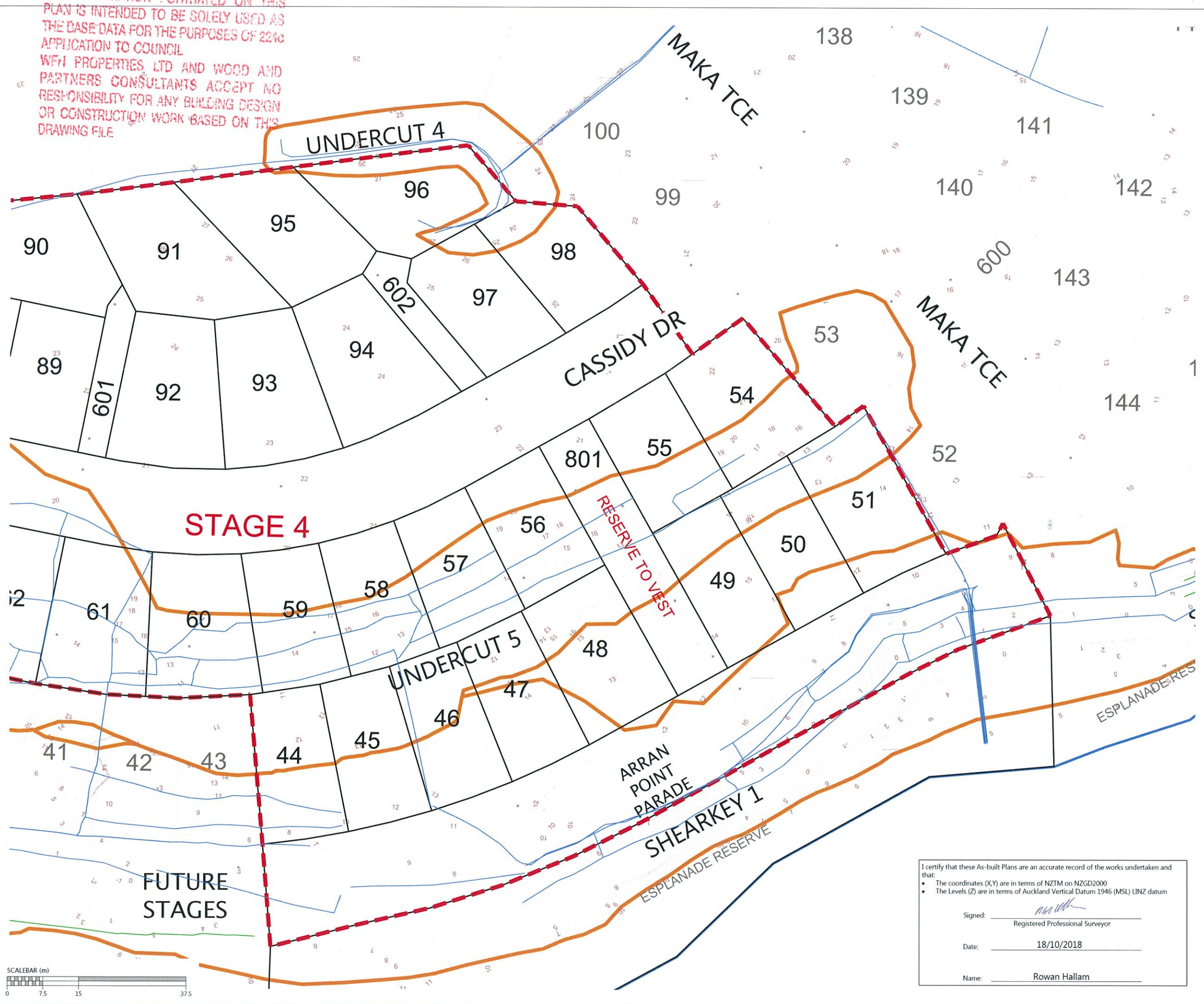
Date: 18/10/2018

Name: Rowan Hallam



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 APPLICATION TO COUNCIL
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 2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

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- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY
- SUBGRADE UNDERCUT AREAS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	18/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4**
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 SHEET 3 OF 3

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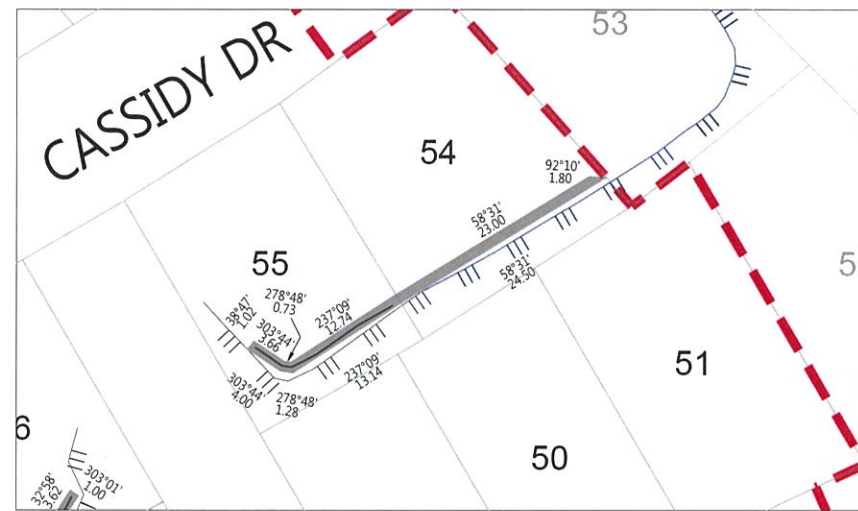
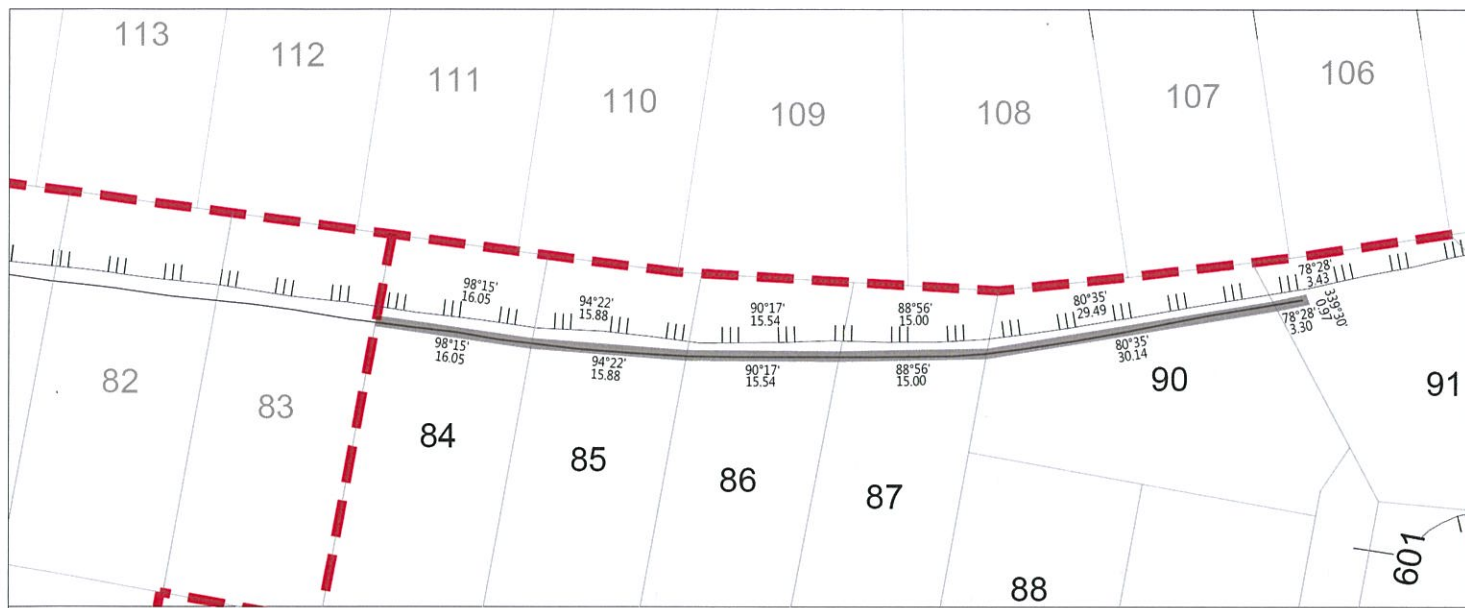
Date: 18/10/2018

Name: Rowan Hallam



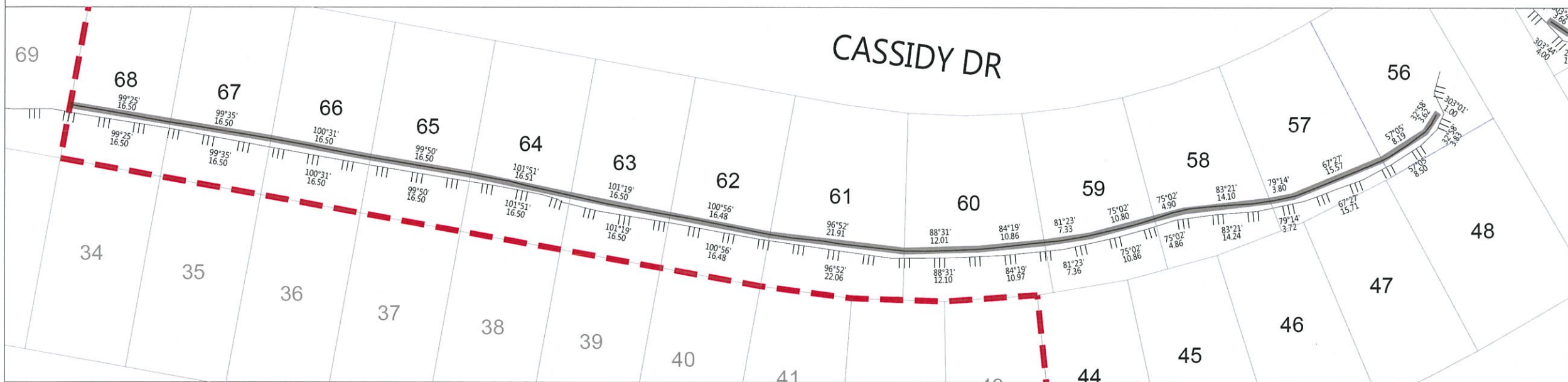
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SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-122-AB	

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LEGEND

BOUNDARIES	---
STAGE BOUNDARIES	--- (dashed red)
DEADMAN	— (solid grey)
TOP OF BANK	
DEADMAN COVENANT AREA	93.27 93.27



NOTES:

1. DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.
2. THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.

DISCLAIMER:
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REVISION DETAILS	BY	DATE
1 FOR INFORMATION	KR	01/11/18

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



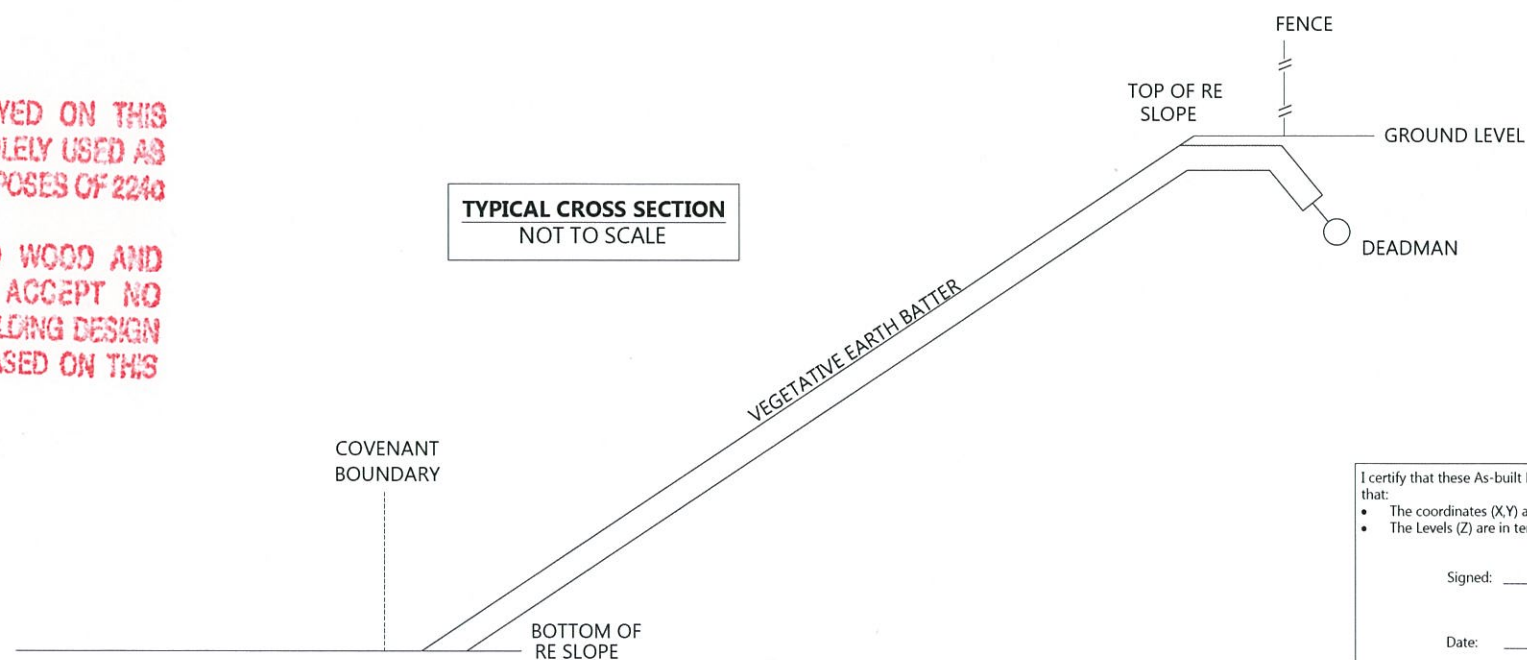
**MILLWATER
ARRAN POINT
STAGE 4**

DEADMAN LOCATION PLAN

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-125-AB	

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TYPICAL CROSS SECTION
NOT TO SCALE



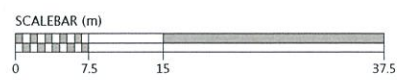
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Registered Professional Surveyor

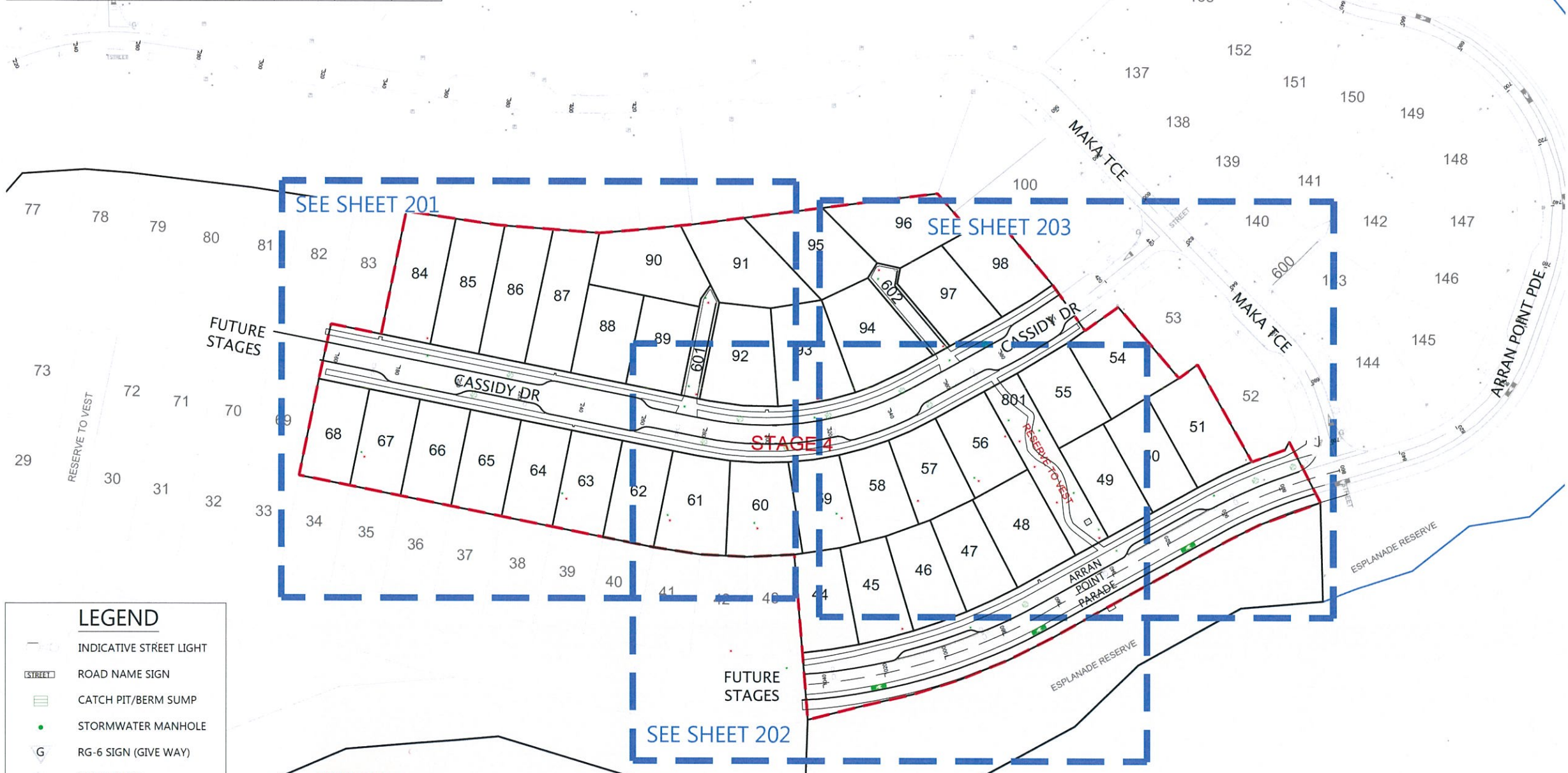
Date: 01/11/2018

Name: ROWAN HALLAM





Schedule of Coordinates Street Lights				Schedule of Coordinates Street Trees			
Street Light #	Easting	Northing	Street Light Type	Tree #	Easting	Northing	Tree Type
SL01	1750005.72	5948842.60	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)	ST01	1750025.31	5948851.70	Mistral
SL02	1749964.24	5948819.70		ST02	1750013.34	5948847.30	
SL03	1749925.66	5948799.53		ST03	1749939.75	5948807.50	
SL04	1749878.37	5948786.77		ST04	1749926.95	5948890.84	
SL05	1749924.07	5948880.10		ST05	1749900.45	5948875.79	
SL06	1749879.16	5948860.10		ST06	1749909.19	5948871.38	
SL07	1750103.19	5948925.41		ST07	1749876.95	5948867.87	Worpleston
SL08	1749779.96	5948871.07		ST08	1749863.56	5948857.62	
SL09	1749731.30	5948880.82		ST09	1749848.71	5948866.59	
				ST10	1749837.25	5948859.31	
				ST11	1749775.28	5948880.47	
				ST12	1749763.63	5948874.07	



- 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.
 7. STREET LIGHT POSITIONS ARE INDICATIVE ONLY. UPON COMPLETION OF INSTALLATION, THESE PLANS WILL BE UPDATED AND RESUBMITTED TO COUNCIL.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	01/11/18

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

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

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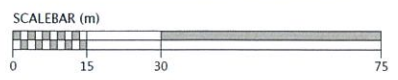
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Signed: Registered Professional Surveyor
 Date: 01/11/2018
 Name: Rowan Hallam



**MILLWATER
 ARRAN POINT
 STAGE 4
 ROADING AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 4**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-200-AB	

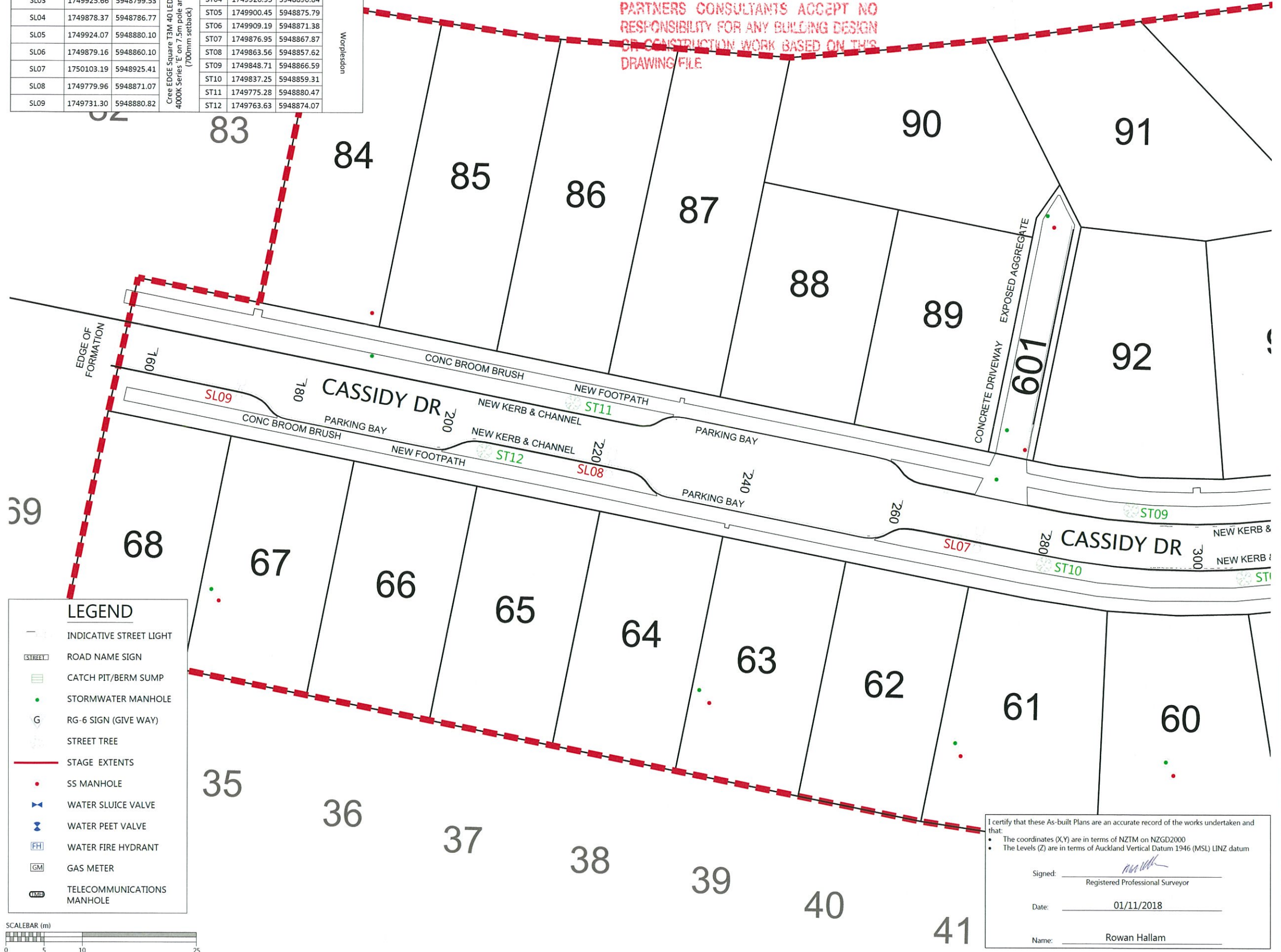


Document No. C:\USERS\ROWAN\APPDATA\LOCAL\TEMP\BRICSCAD\BP_037004-04-200-AB-ROADING PLANS.DWG



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 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 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

Schedule of Coordinates Street Lights				Schedule of Coordinates Street Trees			
Street Light #	Easting	Northing	Street Light Type	Tree #	Easting	Northing	Tree Type
SL01	1750005.72	5948842.60	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)	ST01	1750025.31	5948851.70	Mistral
SL02	1749964.24	5948819.70		ST02	1750013.34	5948847.30	
SL03	1749925.66	5948799.53		ST03	1749939.75	5948807.50	
SL04	1749878.37	5948786.77		ST04	1749926.95	5948890.84	Worpleston
SL05	1749924.07	5948880.10		ST05	1749900.45	5948875.79	
SL06	1749879.16	5948860.10		ST06	1749909.19	5948871.38	
SL07	1750103.19	5948925.41		ST07	1749876.95	5948867.87	
SL08	1749779.96	5948871.07		ST08	1749863.56	5948857.62	
SL09	1749731.30	5948880.82		ST09	1749848.71	5948866.59	
			ST10	1749837.25	5948859.31		
			ST11	1749775.28	5948880.47		
			ST12	1749763.63	5948874.07		



- 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.
 - STREET LIGHT POSITIONS ARE INDICATIVE ONLY. UPON COMPLETION OF INSTALLATION, THESE PLANS WILL BE UPDATED AND RESUBMITTED TO COUNCIL

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	01/11/18

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

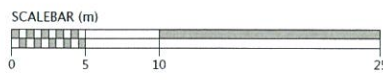


**MILLWATER
 ARRAN POINT
 STAGE 4**

**ROADING AS-BUILT
 SHEET 2 OF 4**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-201-AB	

- LEGEND**
- INDICATIVE STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - STREET TREE
 - STAGE EXTENTS
 - SS MANHOLE
 - 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:

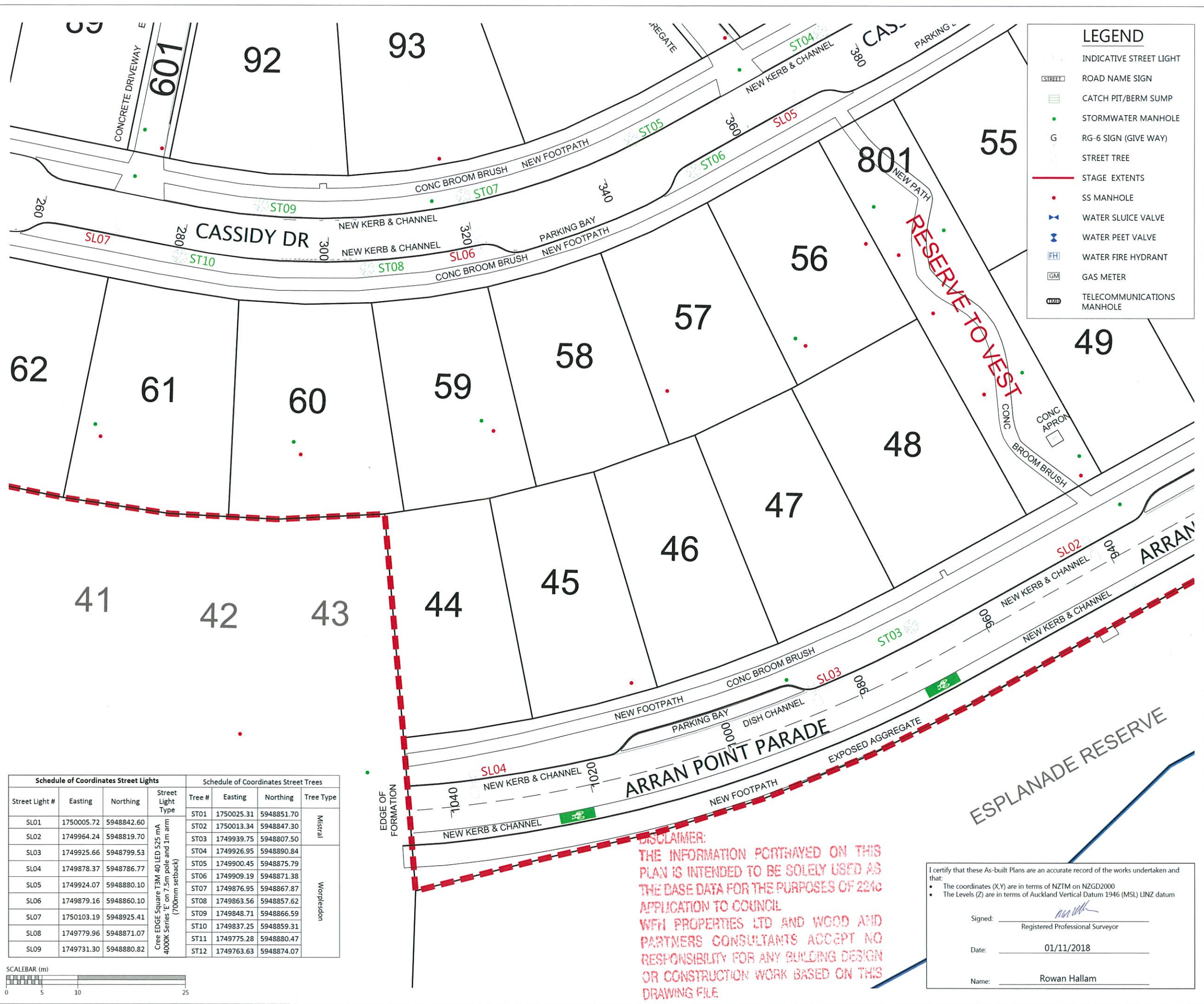
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 01/11/2018

Name: Rowan Hallam

Document No. C:\USERS\ROWAN\APPDATA\LOCAL\TEMP\BRICSADBP_037004-04-200-AB-ROADING PLANS.DWG



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

- NOTES**
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 - 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
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	01/11/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	MRB	
CHECKED	JL	
APPROVED	MRH	

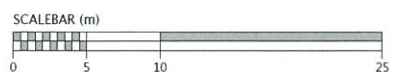


**MILLWATER
ARRAN POINT
STAGE 4**

ROADING AS-BUILT
SHEET 3 OF 4

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-202-AB	

Schedule of Coordinates Street Lights				Schedule of Coordinates Street Trees			
Street Light #	Easting	Northing	Street Light Type	Tree #	Easting	Northing	Tree Type
SL01	1750005.72	5948842.60	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)	ST01	1750025.31	5948851.70	Mistral
SL02	1749964.24	5948819.70		ST02	1750013.34	5948847.30	Mistral
SL03	1749925.66	5948799.53		ST03	1749939.75	5948807.50	Mistral
SL04	1749878.37	5948786.77		ST04	1749926.95	5948890.84	Mistral
SL05	1749924.07	5948880.10		ST05	1749900.45	5948875.79	Worpleston
SL06	1749879.16	5948860.10		ST06	1749909.19	5948871.38	Worpleston
SL07	1750103.19	5948925.41		ST07	1749876.95	5948867.87	Worpleston
SL08	1749779.96	5948871.07		ST08	1749863.56	5948857.62	Worpleston
SL09	1749731.30	5948880.82		ST09	1749848.71	5948866.59	Worpleston
			ST10	1749837.25	5948859.31	Worpleston	
			ST11	1749775.28	5948880.47	Worpleston	
			ST12	1749763.63	5948874.07	Worpleston	



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

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: 01/11/2018

Name: Rowan Hallam

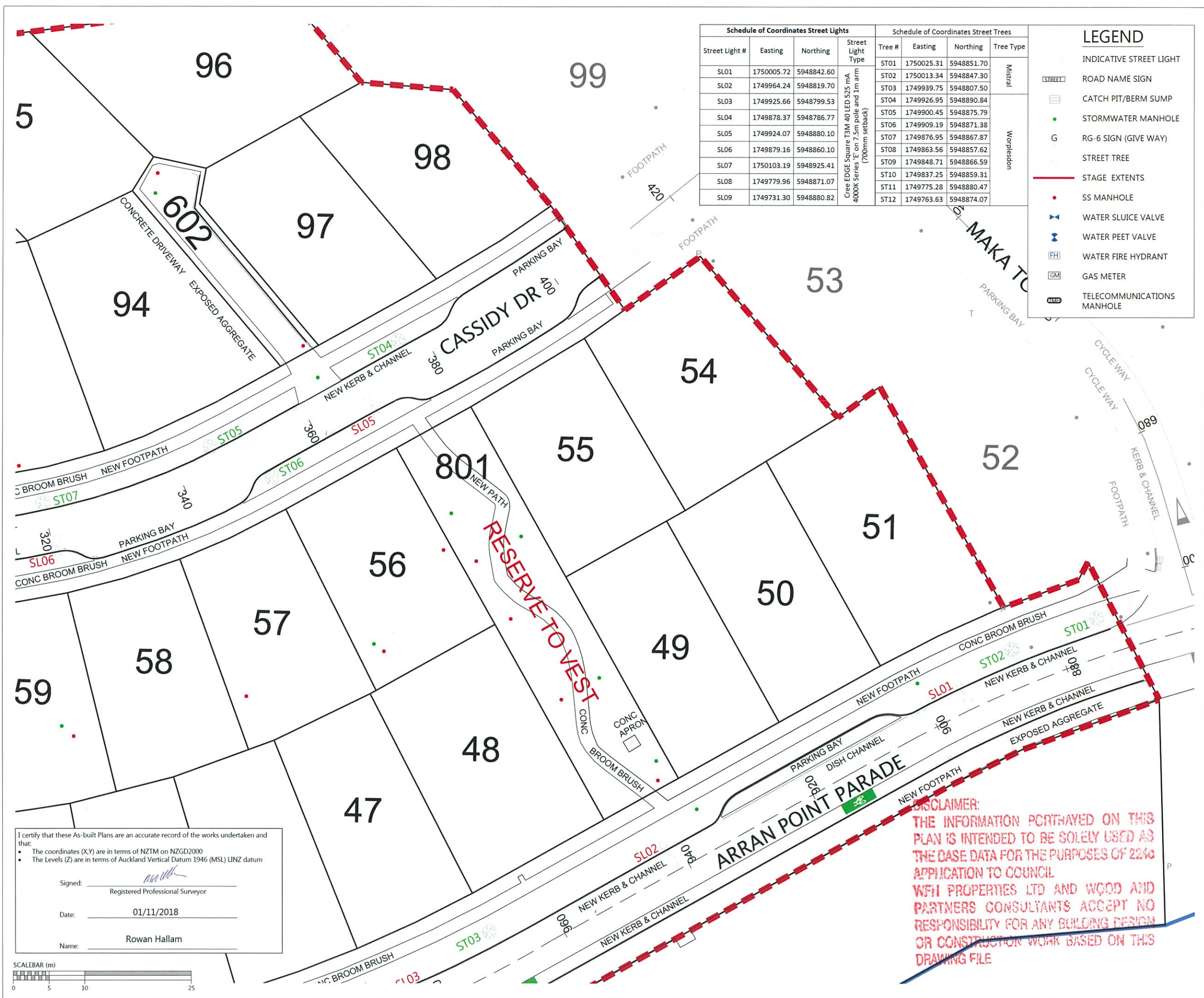


Schedule of Coordinates Street Lights				Schedule of Coordinates Street Trees			
Street Light #	Easting	Northing	Street Light Type	Tree #	Easting	Northing	Tree Type
SL01	1750005.72	5948842.60	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)	ST01	1750025.31	5948851.70	Mistral
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SL03	1749925.66	5948799.53		ST03	1749939.75	5948807.50	
SL04	1749878.37	5948786.77		ST04	1749926.95	5948890.84	
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SL07	1750103.19	5948925.41		ST07	1749876.95	5948867.87	
SL08	1749779.96	5948871.07		ST08	1749863.56	5948857.62	
SL09	1749731.30	5948880.82		ST09	1749848.71	5948866.59	
			ST10	1749837.25	5948859.31		
			ST11	1749775.28	5948880.47		
			ST12	1749763.63	5948874.07		

LEGEND

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

- ### NOTES
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 - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
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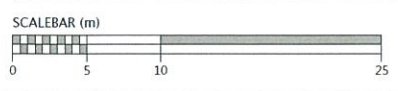
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Signed: _____
Registered Professional Surveyor

Date: 01/11/2018

Name: Rowan Hallam



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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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	01/11/18

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

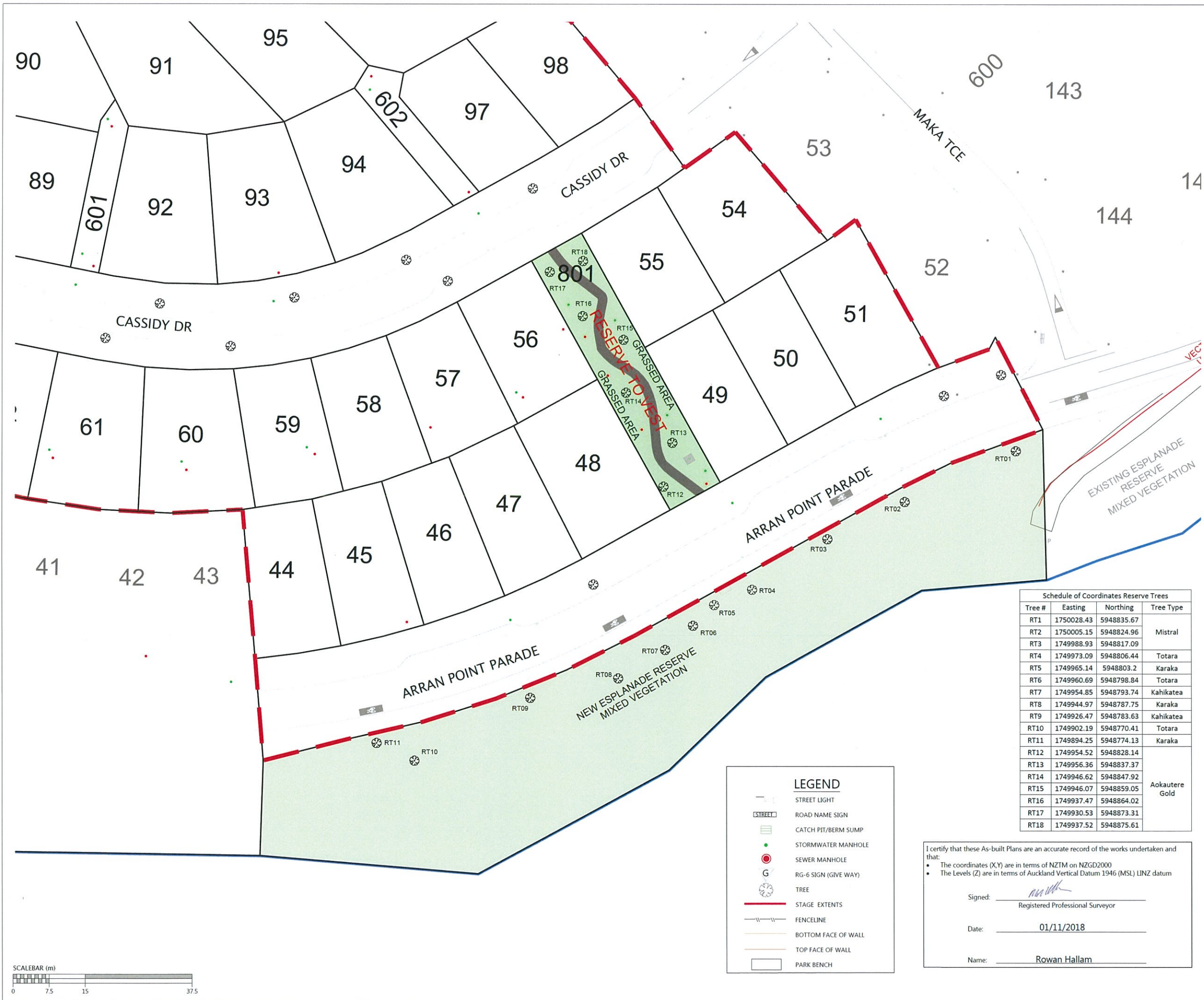


**MILLWATER
ARRAN POINT
STAGE 4**

ROADING AS-BUILT
SHEET 4 OF 4

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-203-AB	

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- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	01/11/18

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

Tree #	Easting	Northing	Tree Type
RT1	1750028.43	5948835.67	
RT2	1750005.15	5948824.96	Mistral
RT3	1749988.93	5948817.09	
RT4	1749973.09	5948806.44	Totara
RT5	1749965.14	5948803.2	Karaka
RT6	1749960.69	5948798.84	Totara
RT7	1749954.85	5948793.74	Kahikatea
RT8	1749944.97	5948787.75	Karaka
RT9	1749926.47	5948783.63	Kahikatea
RT10	1749902.19	5948770.41	Totara
RT11	1749894.25	5948774.13	Karaka
RT12	1749954.52	5948828.14	
RT13	1749956.36	5948837.37	
RT14	1749946.62	5948847.92	Aokautere Gold
RT15	1749946.07	5948859.05	
RT16	1749937.47	5948864.02	
RT17	1749930.53	5948873.31	
RT18	1749937.52	5948875.61	

- LEGEND**
- STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - SEWER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - TREE
 - STAGE EXTENTS
 - FENCELINE
 - BOTTOM FACE OF WALL
 - TOP FACE OF WALL
 - PARK BENCH

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: 01/11/2018

Name: Rowan Hallam



**MILLWATER
ARRAN POINT
STAGE 4**

RESERVE AS-BUILT

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-250-AB	

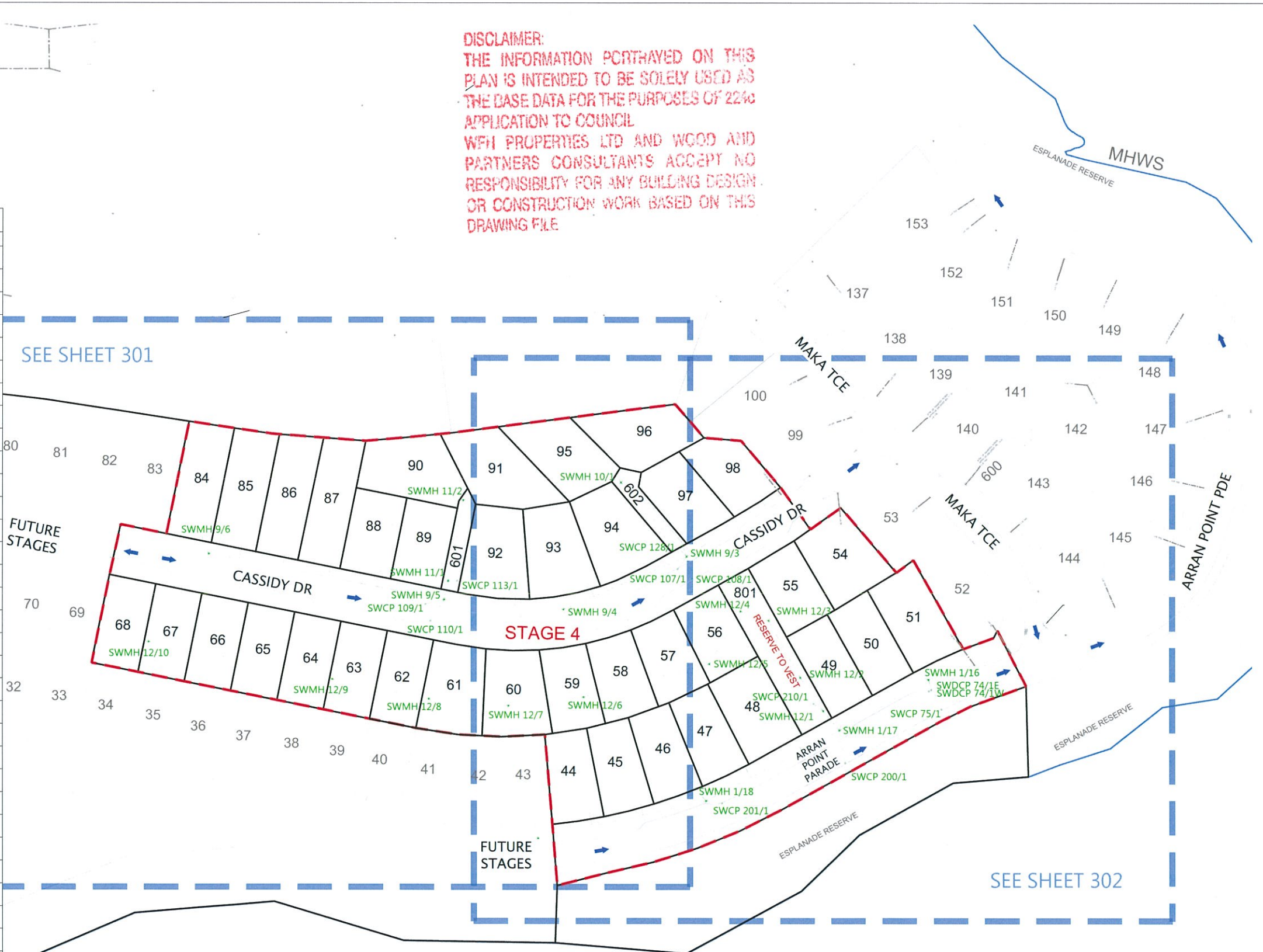


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 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Schedule of Coordinates Stormwater Lot Connections

Lot #	EASTING	NORTHING	LENGTH
43	1749862.47	5948792.73	6.2
44	1749881.55	5948795.72	4.6
45	1749899.48	5948799.29	4.0
46	1749918.13	5948805.30	6.3
47	1749935.44	5948813.06	5.0
48	1749953.11	5948822.72	5.3
49	1749971.71	5948834.84	9.9
50	1749992.70	5948845.26	7.7
51*	1750009.84	5948847.62	10.8
54*	1749969.30	5948899.64	8.3
55	1749947.03	5948868.99	6.5
56	1749925.63	5948852.63	0.6
57	1749907.51	5948844.51	0.8
58	1749892.95	5948840.72	0.9
59	1749880.94	5948837.46	0.8
60	1749858.33	5948834.59	0.6
61	1749837.53	5948835.25	0.5
62	1749820.79	5948837.41	0.6
63	1749801.21	5948841.42	0.5
64	1749789.23	5948845.35	3.4
65	1749771.58	5948847.76	0.7
66	1749753.99	5948851.13	0.6
67	1749738.37	5948854.45	0.8
68	1749723.93	5948856.74	4.1
84	1749745.96	5948893.56	7.4
85	1749760.41	5948889.63	5.2
86	1749775.44	5948886.69	5.2
87	1749791.59	5948883.60	5.2
88	1749808.73	5948880.92	5.9
89	1749825.83	5948877.15	5.4
90	1749833.73	5948906.61	4.1
91	1749844.94	5948906.86	7.1
92	1749856.05	5948873.95	5.5
93	1749880.77	5948877.12	6.0
94	1749903.82	5948886.70	5.6
95	1749889.38	5948916.85	6.1
96	1749897.89	5948917.22	7.3
97	1749926.67	5948899.70	5.6
98*	1749944.34	5948912.62	6.8

* CONSTRUCTED IN A PREVIOUS STAGE



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY
- REVISED EXISTING INFORMATION 19.17

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 3. ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIDGWAYS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 6. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
 7. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 8. 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	01/11/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	MRB	
CHECKED	JL	
APPROVED	MRH	



**MILLWATER
 ARRAN POINT
 STAGE 4
 STORMWATER AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-300-AB	

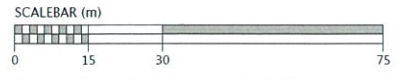
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: Rowan Hallam
 Registered Professional Surveyor

Date: 01/11/2018

Name: ROWAN HALLAM



Document No. C:\USERS\ROWAN\APPDATA\LOCAL\TEMP\BRCSCAD\BP_037004-04-300-AB-STORMWATER.DWG



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

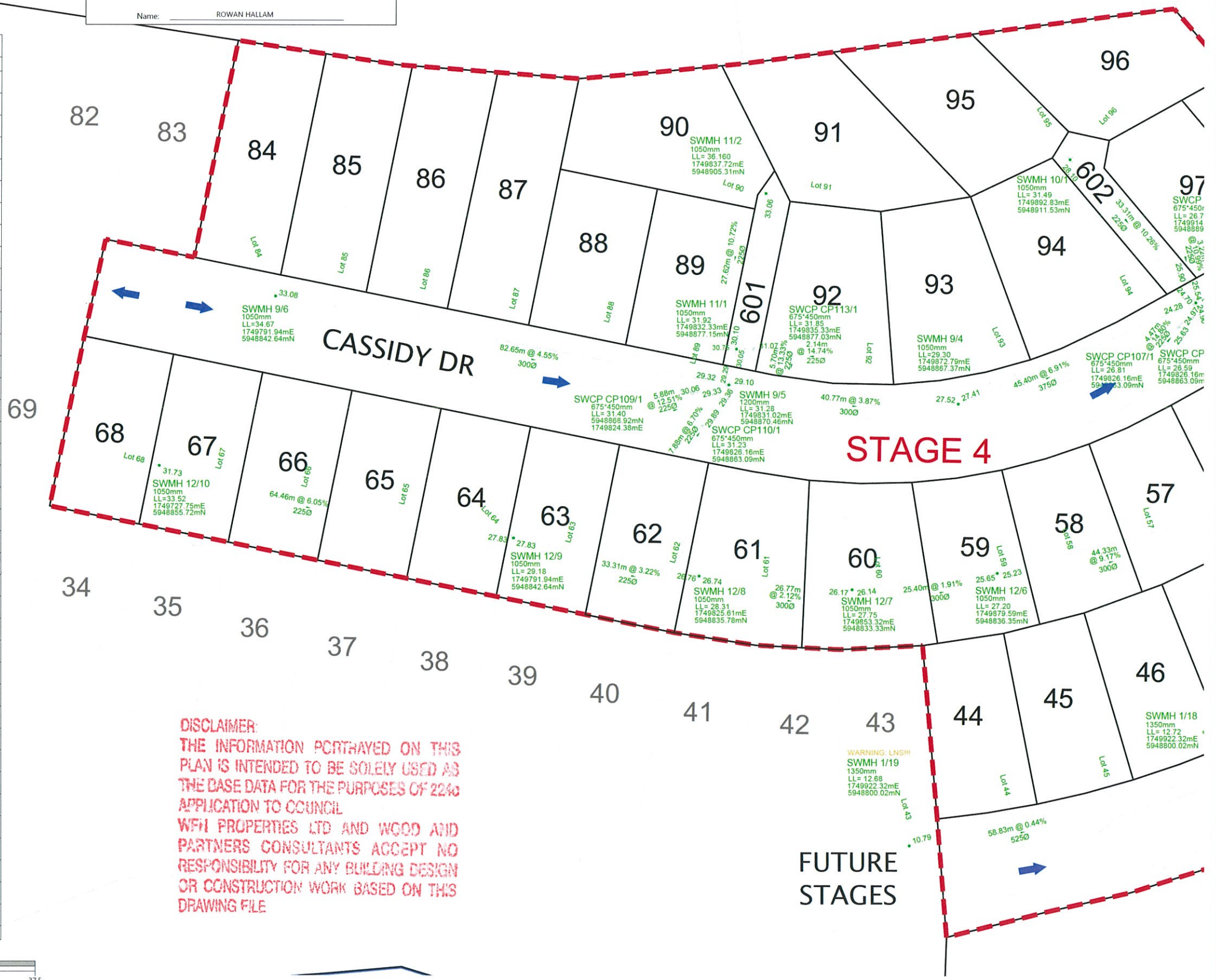
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

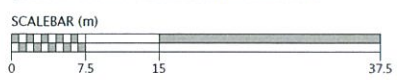
Date: 01/11/2018

Name: ROWAN HALLAM

Lot #	EASTING	NORTHING	LENGTH
43	1749862.47	5948792.73	6.2
44	1749881.55	5948795.72	4.6
45	1749899.48	5948799.29	4.0
46	1749918.13	5948805.30	6.3
47	1749935.44	5948813.06	5.0
48	1749953.11	5948822.72	5.3
49	1749971.71	5948834.84	9.9
50	1749992.70	5948845.26	7.7
51*	1750009.84	5948847.62	10.8
54*	1749969.30	5948899.64	8.3
55	1749947.03	5948868.99	6.5
56	1749925.63	5948852.63	0.6
57	1749907.51	5948844.51	0.8
58	1749892.95	5948840.72	0.9
59	1749880.94	5948837.46	0.8
60	1749858.33	5948834.59	0.6
61	1749837.53	5948835.25	0.5
62	1749820.79	5948837.41	0.6
63	1749801.21	5948841.42	0.5
64	1749789.23	5948845.35	3.4
65	1749771.58	5948847.76	0.7
66	1749753.99	5948851.13	0.6
67	1749738.37	5948854.45	0.8
68	1749723.93	5948856.74	4.1
84	1749745.96	5948893.56	7.4
85	1749760.41	5948889.63	5.2
86	1749775.44	5948886.69	5.2
87	1749791.59	5948883.60	5.2
88	1749808.73	5948880.92	5.9
89	1749825.83	5948877.15	5.4
90	1749833.73	5948906.61	4.1
91	1749844.94	5948906.86	7.1
92	1749856.05	5948873.95	5.5
93	1749880.77	5948877.12	6.0
94	1749903.82	5948886.70	5.6
95	1749889.38	5948916.85	6.1
96	1749897.89	5948917.22	7.3
97	1749926.67	5948899.70	5.6
98*	1749944.34	5948912.62	6.8



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



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY
- REVISED EXISTING INFORMATION 19.17

- 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 CARRIDGWAYS 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 100mmØ.
 - 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	01/11/18

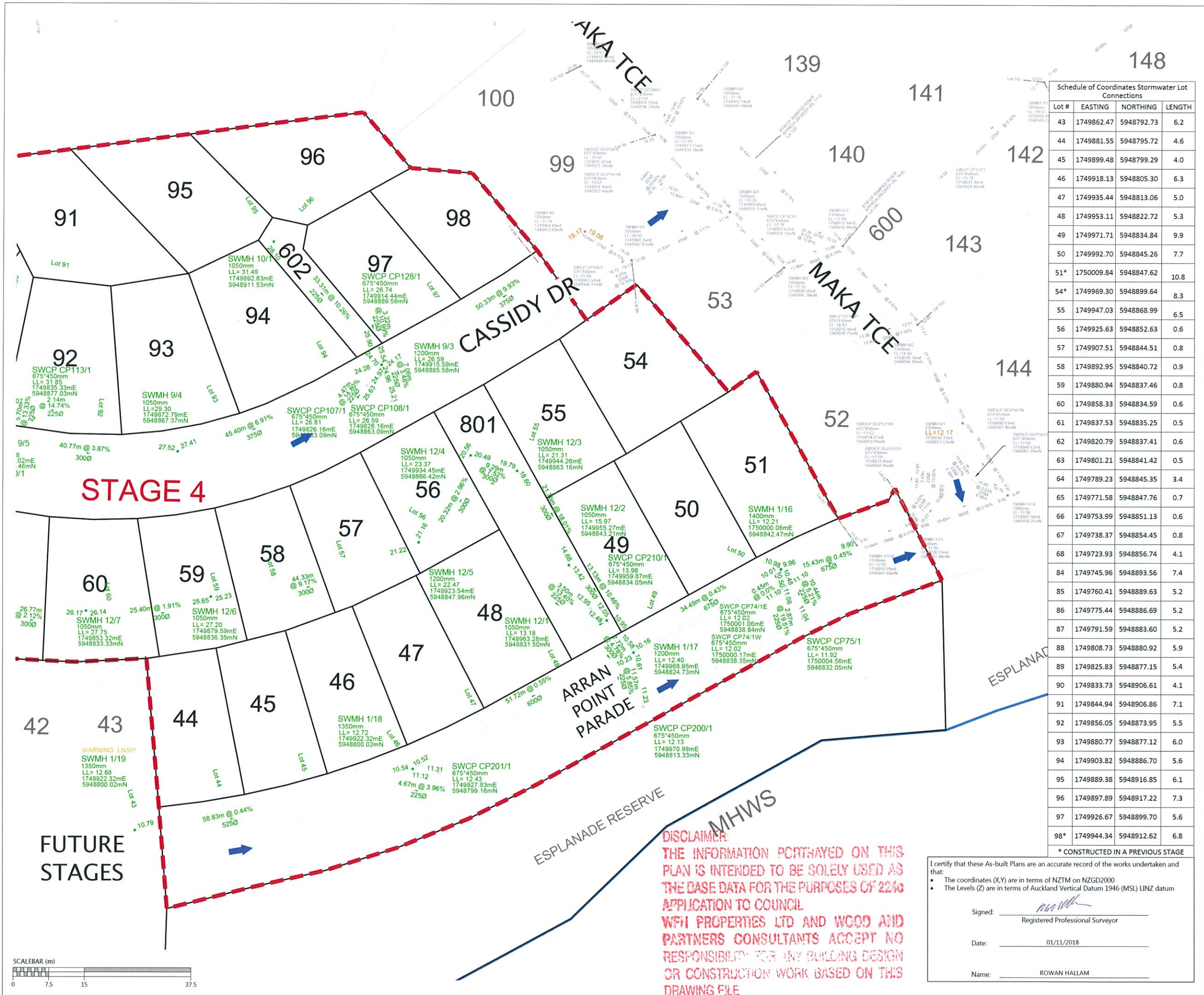
DESIGNED	WOODS MB	WOODS Ltd
DRAWN	MRB	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
CHECKED	JL	
APPROVED	MRH	WOODS.CO.NZ



MILLWATER ARRAN POINT STAGE 4
 STORMWATER AS-BUILT
 SHEET 2 OF 3
 (SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-301-AB	

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Schedule of Coordinates Stormwater Lot Connections			
Lot #	EASTING	NORTHING	LENGTH
43	1749862.47	5948792.73	6.2
44	1749881.55	5948795.72	4.6
45	1749899.48	5948799.29	4.0
46	1749918.13	5948805.30	6.3
47	1749935.44	5948813.06	5.0
48	1749953.11	5948822.72	5.3
49	1749971.71	5948834.84	9.9
50	1749992.70	5948845.26	7.7
51*	1750009.84	5948847.62	10.8
54*	1749969.30	5948899.64	8.3
55	1749947.03	5948868.99	6.5
56	1749925.63	5948852.63	0.6
57	1749907.51	5948844.51	0.8
58	1749892.95	5948840.72	0.9
59	1749880.94	5948837.46	0.8
60	1749858.33	5948834.59	0.6
61	1749837.53	5948835.25	0.5
62	1749820.79	5948837.41	0.6
63	1749801.21	5948841.42	0.5
64	1749789.23	5948845.35	3.4
65	1749771.58	5948847.76	0.7
66	1749753.99	5948851.13	0.6
67	1749738.37	5948854.45	0.8
68	1749723.93	5948856.74	4.1
84	1749745.96	5948893.56	7.4
85	1749760.41	5948889.63	5.2
86	1749775.44	5948886.69	5.2
87	1749791.59	5948883.60	5.2
88	1749808.73	5948880.92	5.9
89	1749825.83	5948877.15	5.4
90	1749833.73	5948906.61	4.1
91	1749844.94	5948906.86	7.1
92	1749856.05	5948873.95	5.5
93	1749880.77	5948877.12	6.0
94	1749903.82	5948886.70	5.6
95	1749889.38	5948916.85	6.1
96	1749897.89	5948917.22	7.3
97	1749926.67	5948899.70	5.6
98*	1749944.34	5948912.62	6.8

* CONSTRUCTED IN A PREVIOUS STAGE

LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- STAGE BOUNDARY
- REVISED EXISTING INFORMATION 19.17

- 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 100mmØ.
 - 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	01/11/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	MRB	
CHECKED	JL	
APPROVED	MRH	



**MILLWATER
 ARRAN POINT
 STAGE 4**
 STORMWATER AS-BUILT
 SHEET 3 OF 3
 (SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-302-AB	

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

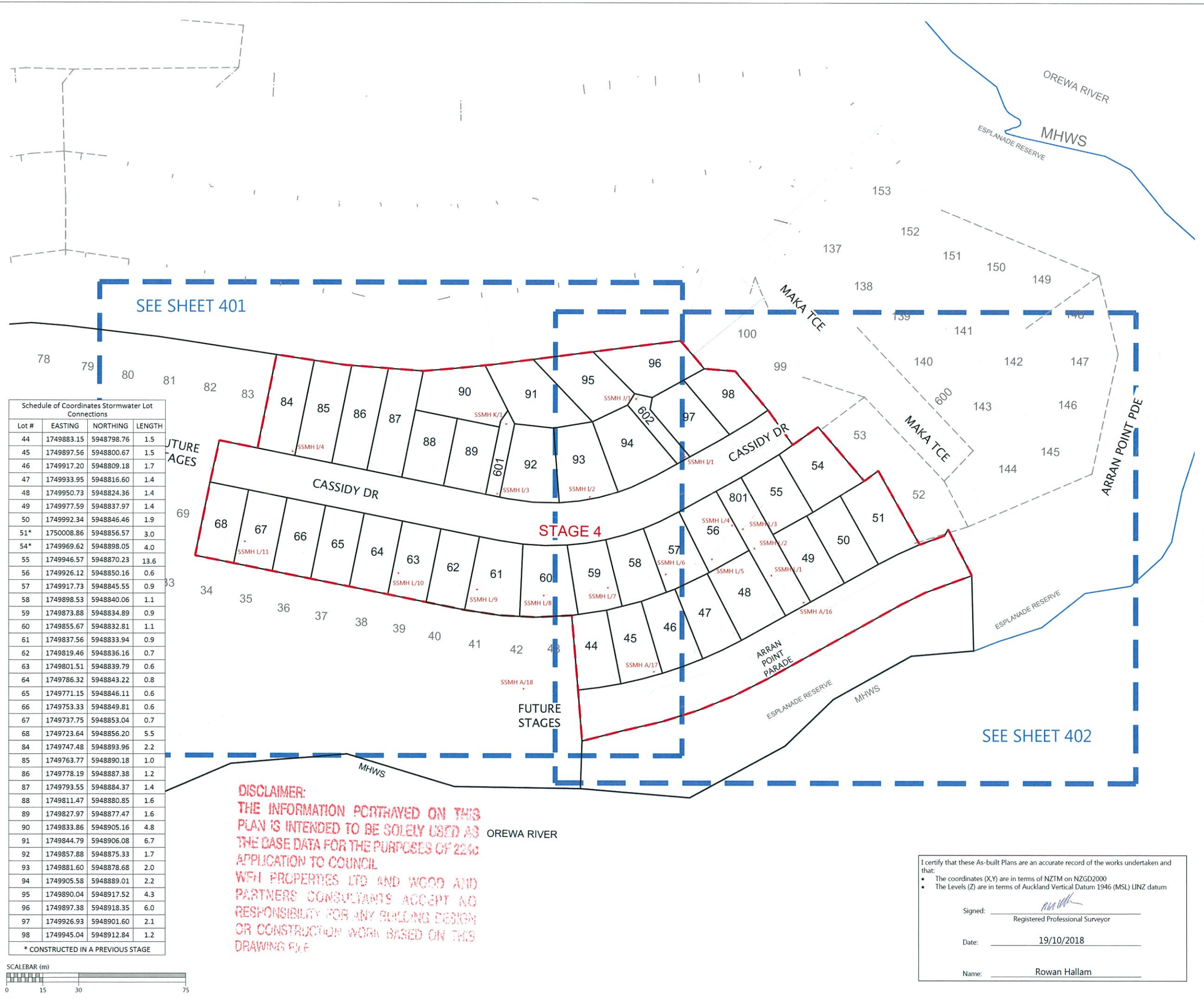
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 01/11/2018

Name: ROWAN HALLAM

Document No. C:\USERS\ROWAN\APPDATA\LOCAL\TEMP\RCS\DWG\BP_037004-04-300-AB-STORMWATER.DWG



LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	
REVISED INVERT LEVEL	19.17

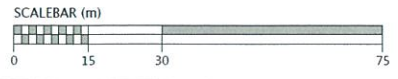
- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 4. ALL PIPE CROSSINGS 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.

Schedule of Coordinates Stormwater Lot Connections

Lot #	EASTING	NORTHING	LENGTH
44	1749883.15	5948798.76	1.5
45	1749897.56	5948800.67	1.5
46	1749917.20	5948809.18	1.7
47	1749933.95	5948816.60	1.4
48	1749950.73	5948824.36	1.4
49	1749977.59	5948837.97	1.4
50	1749992.34	5948846.46	1.9
51*	1750008.86	5948856.57	3.0
54*	1749969.62	5948898.05	4.0
55	1749946.57	5948870.23	13.6
56	1749926.12	5948850.16	0.6
57	1749917.73	5948845.55	0.9
58	1749898.53	5948840.06	1.1
59	1749873.88	5948834.89	0.9
60	1749855.67	5948832.81	1.1
61	1749837.56	5948833.94	0.9
62	1749819.46	5948836.16	0.7
63	1749801.51	5948839.79	0.6
64	1749786.32	5948843.22	0.8
65	1749771.15	5948846.11	0.6
66	1749753.33	5948849.81	0.6
67	1749737.75	5948853.04	0.7
68	1749723.64	5948856.20	5.5
84	1749747.48	5948893.96	2.2
85	1749763.77	5948890.18	1.0
86	1749778.19	5948887.38	1.2
87	1749793.55	5948884.37	1.4
88	1749811.47	5948880.85	1.6
89	1749827.97	5948877.47	1.6
90	1749833.86	5948905.16	4.8
91	1749844.79	5948906.08	6.7
92	1749857.88	5948875.33	1.7
93	1749881.60	5948878.68	2.0
94	1749905.58	5948889.01	2.2
95	1749890.04	5948917.52	4.3
96	1749897.38	5948918.35	6.0
97	1749926.93	5948901.60	2.1
98	1749945.04	5948912.84	1.2

* CONSTRUCTED IN A PREVIOUS STAGE

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.



REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSEUD FOR INFORMATION	KR	19/10/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4
 WASTEWATER AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 3
 (SLC-62000)**

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: 19/10/2018

Name: Rowan Hallam

STATUS	AS BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-400-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

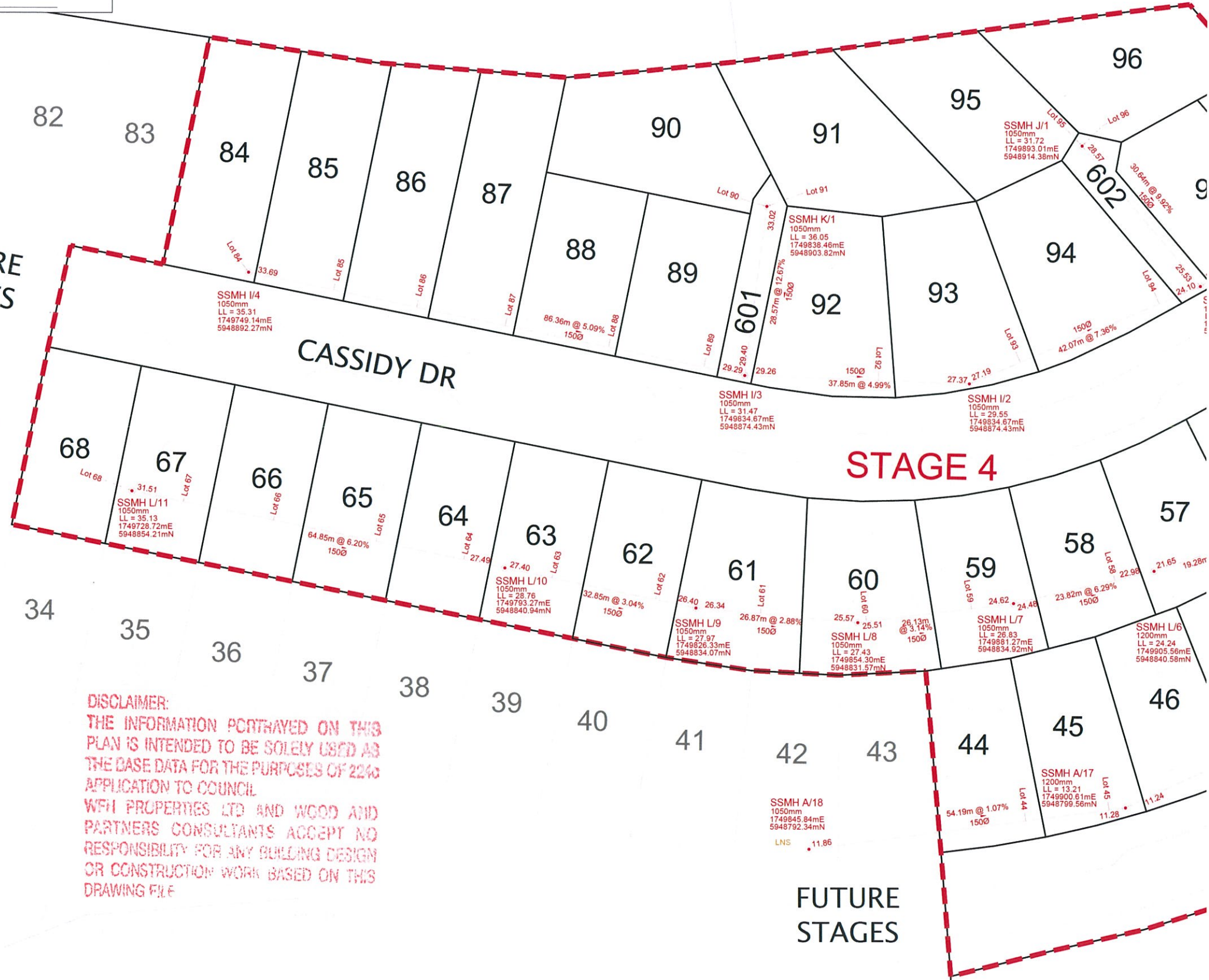
Signed: [Signature]
Registered Professional Surveyor

Date: 19/10/2018

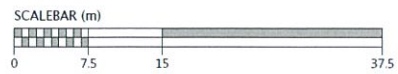
Name: Rowan Hallam

Lot #	EASTING	NORTHING	LENGTH
44	1749883.15	5948798.76	1.5
45	1749897.56	5948800.67	1.5
46	1749917.20	5948809.18	1.7
47	1749933.95	5948816.60	1.4
48	1749950.73	5948824.36	1.4
49	1749977.59	5948837.97	1.4
50	1749992.34	5948846.46	1.9
51*	1750008.86	5948856.57	3.0
54*	1749969.62	5948898.05	4.0
55	1749946.57	5948870.23	13.6
56	1749926.12	5948850.16	0.6
57	1749917.73	5948845.55	0.9
58	1749898.53	5948840.06	1.1
59	1749873.88	5948834.89	0.9
60	1749855.67	5948832.81	1.1
61	1749837.56	5948833.94	0.9
62	1749819.46	5948836.16	0.7
63	1749801.51	5948839.79	0.6
64	1749786.32	5948843.22	0.8
65	1749771.15	5948846.11	0.6
66	1749753.33	5948849.81	0.6
67	1749737.75	5948853.04	0.7
68	1749723.64	5948856.20	5.5
84	1749747.48	5948893.96	2.2
85	1749763.77	5948890.18	1.0
86	1749778.19	5948887.38	1.2
87	1749793.55	5948884.37	1.4
88	1749811.47	5948880.85	1.6
89	1749827.97	5948877.47	1.6
90	1749833.86	5948905.16	4.8
91	1749844.79	5948906.08	6.7
92	1749857.88	5948875.33	1.7
93	1749881.60	5948878.68	2.0
94	1749905.58	5948889.01	2.2
95	1749890.04	5948917.52	4.3
96	1749897.38	5948918.35	6.0
97	1749926.93	5948901.60	2.1
98	1749945.04	5948912.84	1.2

FUTURE STAGES



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LEGEND

- NEW SANITARY SEWER MANHOLE:
- NEW SANITARY SEWER:
- EXISTING SANITARY SEWER:
- REVISED INVERT LEVEL: **19.17**

- 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	KR	19/10/18

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

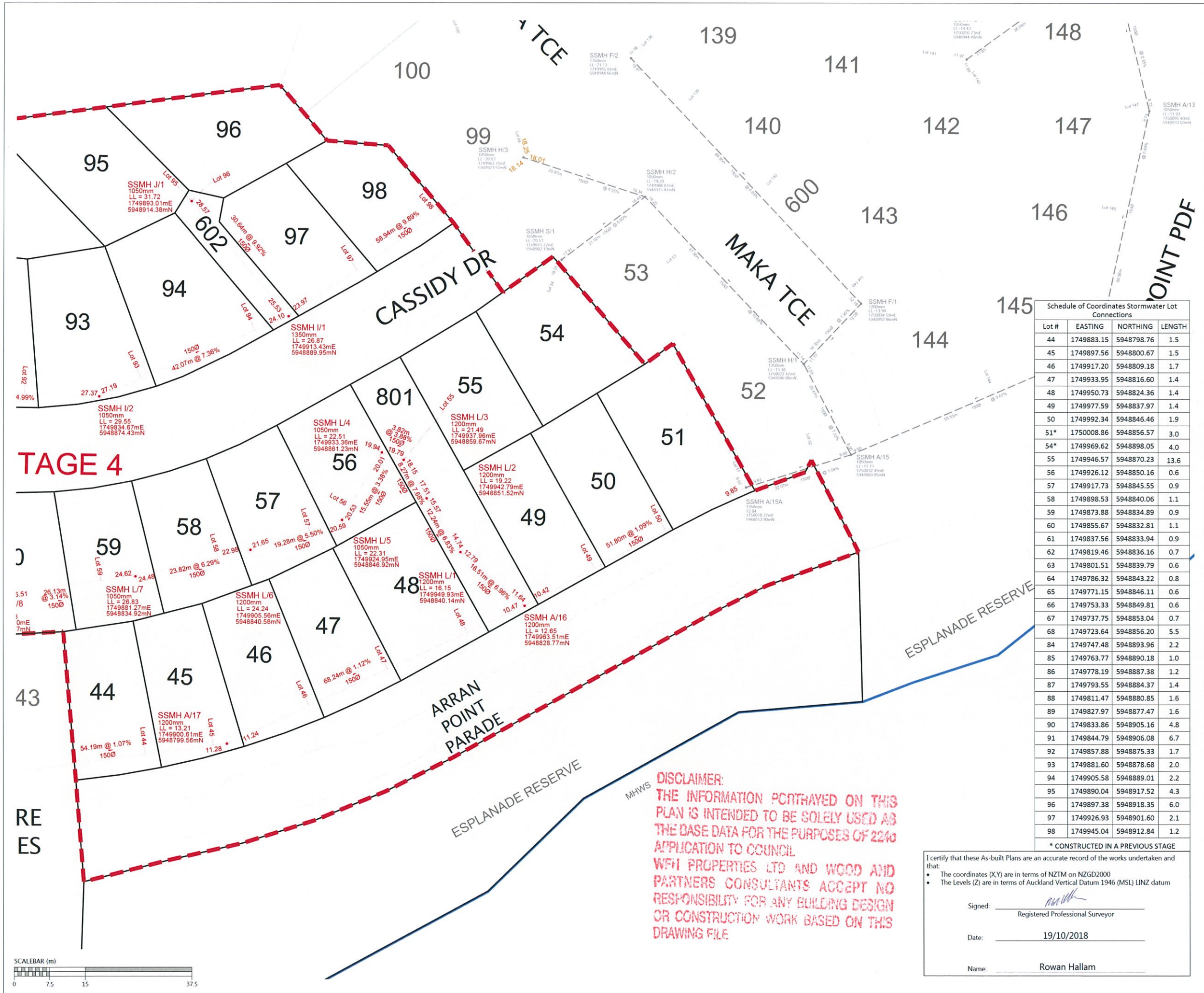


**MILLWATER
ARRAN POINT
STAGE 4**

WASTEWATER AS-BUILT
SHEET 2 OF 3
(SLC-62000)

STATUS	AS BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-401-AB	

Document No. C:\USERS\ROWAN\HAPPDATA\LOCAL\TEMP\BICSCAD\BP_037004-04-400-AB-SEWER.DWG



LEGEND

- NEW SANITARY SEWER MANHOLE (Red circle)
- NEW SANITARY SEWER (Red dashed line)
- EXISTING SANITARY SEWER (Black solid line)
- REVISED INVERT LEVEL (19.17)

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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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.
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Schedule of Coordinates Stormwater Lot Connections

Lot #	EASTING	NORTHING	LENGTH
44	1749883.15	5948798.76	1.5
45	1749897.56	5948800.67	1.5
46	1749917.20	5948809.18	1.7
47	1749933.95	5948816.60	1.4
48	1749950.73	5948824.36	1.4
49	1749977.59	5948837.97	1.4
50	1749992.34	5948846.46	1.9
51*	1750008.86	5948856.57	3.0
54*	1749969.62	5948898.05	4.0
55	1749946.57	5948870.23	13.6
56	1749926.12	5948850.16	0.6
57	1749917.73	5948845.55	0.9
58	1749898.53	5948840.06	1.1
59	1749873.88	5948834.89	0.9
60	1749855.67	5948832.81	1.1
61	1749837.56	5948833.94	0.9
62	1749819.46	5948836.16	0.7
63	1749801.51	5948839.79	0.6
64	1749786.32	5948843.22	0.8
65	1749771.15	5948846.11	0.6
66	1749753.33	5948849.81	0.6
67	1749737.75	5948853.04	0.7
68	1749723.64	5948856.20	5.5
84	1749747.48	5948893.96	2.2
85	1749763.77	5948890.18	1.0
86	1749778.19	5948887.38	1.2
87	1749793.55	5948884.37	1.4
88	1749811.47	5948880.85	1.6
89	1749827.97	5948877.47	1.6
90	1749833.86	5948905.16	4.8
91	1749844.79	5948906.08	6.7
92	1749857.88	5948875.33	1.7
93	1749881.60	5948878.68	2.0
94	1749905.58	5948889.01	2.2
95	1749890.04	5948917.52	4.3
96	1749897.38	5948918.35	6.0
97	1749926.93	5948901.60	2.1
98	1749945.04	5948912.84	1.2

* CONSTRUCTED IN A PREVIOUS STAGE

REVISION DETAILS

NO	ISSUED FOR INFORMATION	BY	DATE
1	ISSUED FOR INFORMATION	KR	19/10/18

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



**MILLWATER
ARRAN POINT
STAGE 4**

**WASTEWATER AS-BUILT
SHEET 3 OF 3
(SLC-62000)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-402-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 FILE.

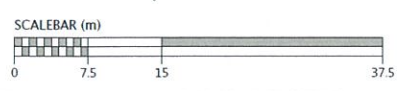
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 19/10/2018

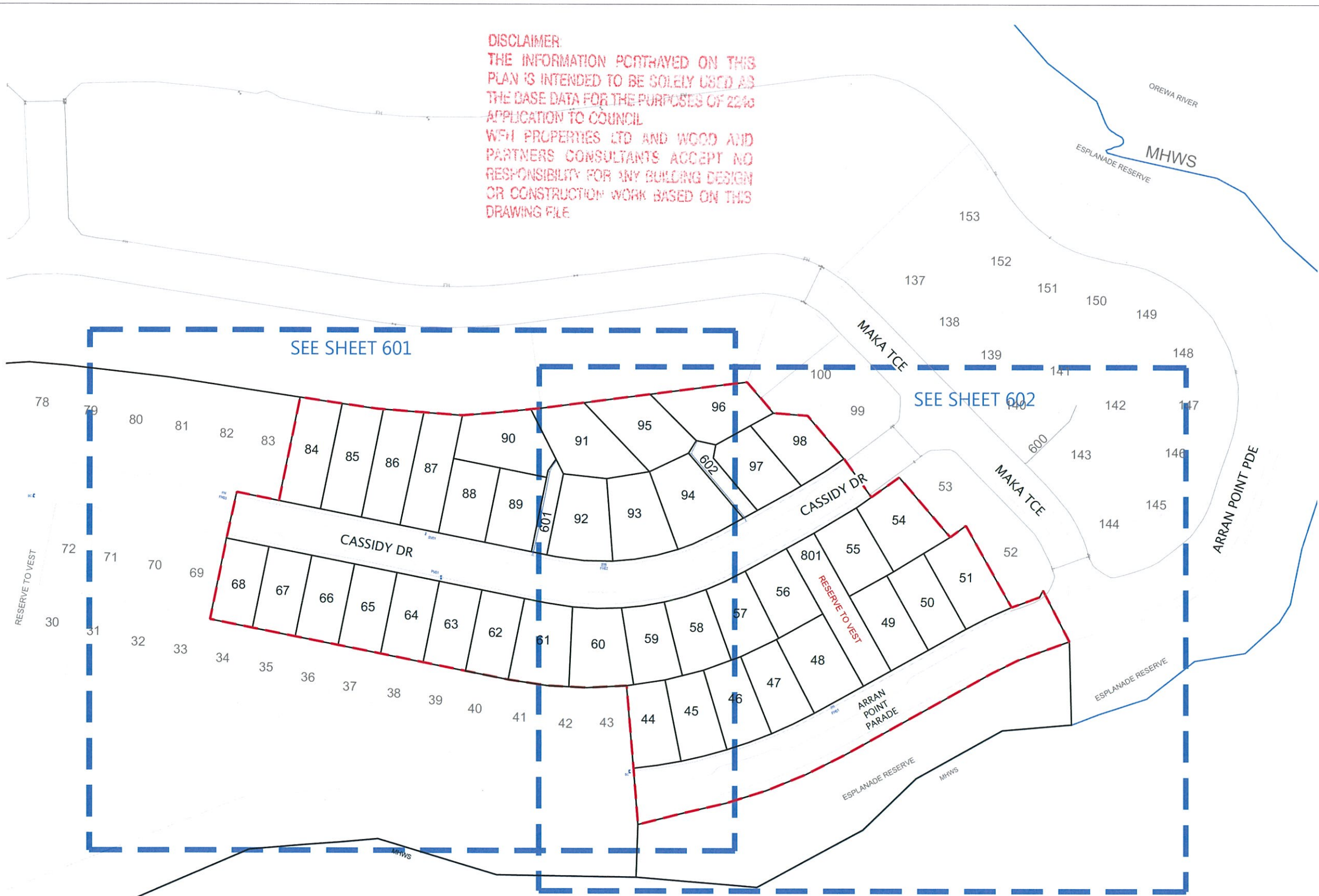
Name: Rowan Hallam



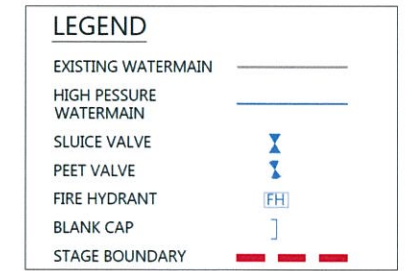
Document No. C:\USERS\ROWAN\HAPP\LOCAL\TEMP\BICSCAD\BP_037003-03-402-AB-SEWER.DWG



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.



- 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. WATERMAINS 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.



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	01/11/18

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



**MILLWATER
 ARRAN POINT
 STAGE 4
 WATERMAIN AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 3
 (SLC - 62000)**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-600-AB	

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH01	1749944.16	5948815.12
FH02	1749857.39	5948869.15
FH03	1749712.98	5948896.26
Sluice Valves		
SV01	1749789.69	5948880.94
Peet Valves		
PV01	1749795.59	5948864.33



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: 01/11/2018

Name: Rowan Hallam

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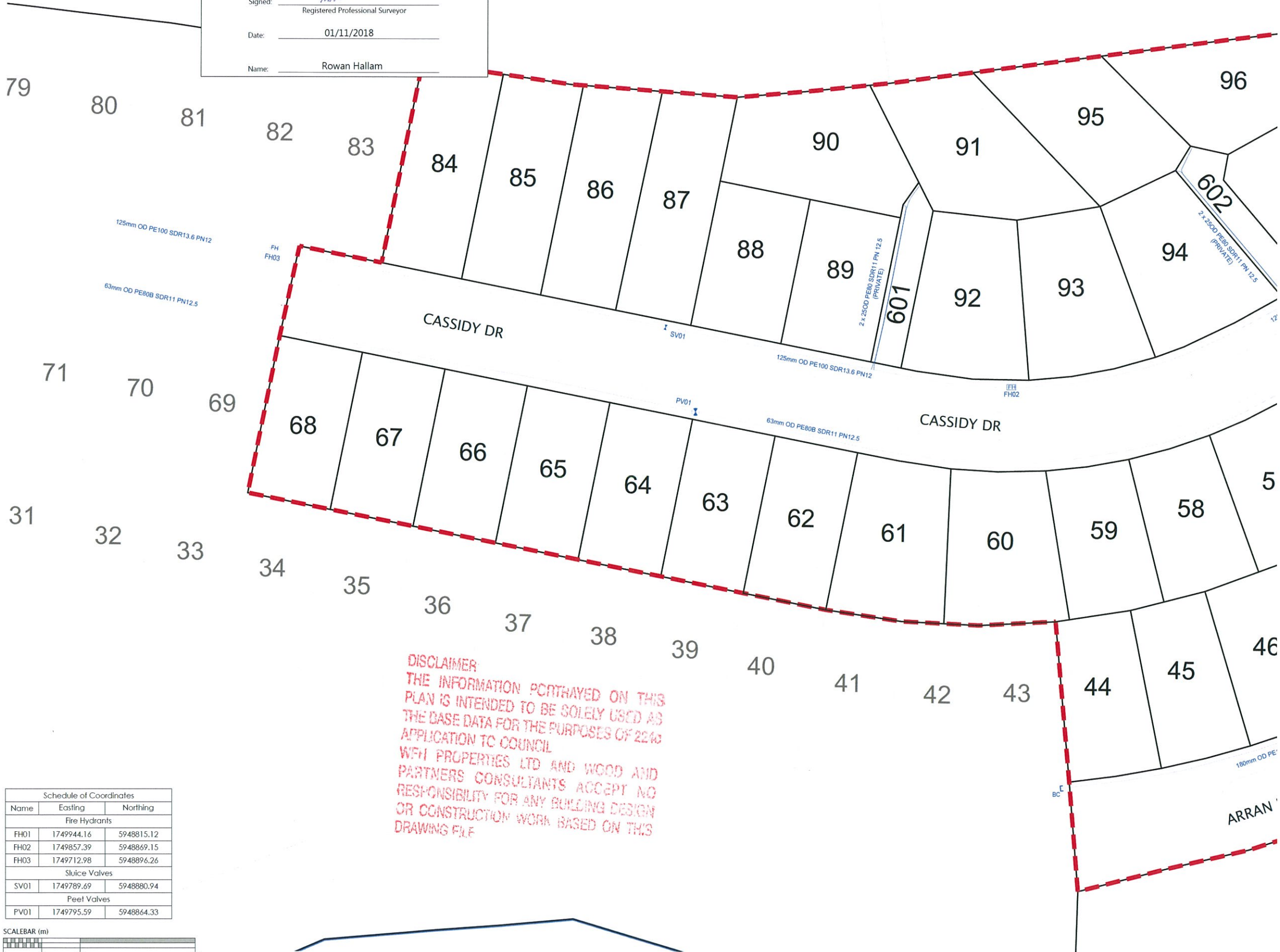
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- NOTES**
- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - WATERMAINS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS 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.

LEGEND

EXISTING WATERMAIN	
HIGH PESSURE WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
STAGE BOUNDARY	

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	01/11/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	MRB	
CHECKED	JL	
APPROVED	MRH	



**MILLWATER
ARRAN POINT
STAGE 4**

WATERMAIN AS-BUILT
SHEET 2 OF 3
(SLC - 62000)

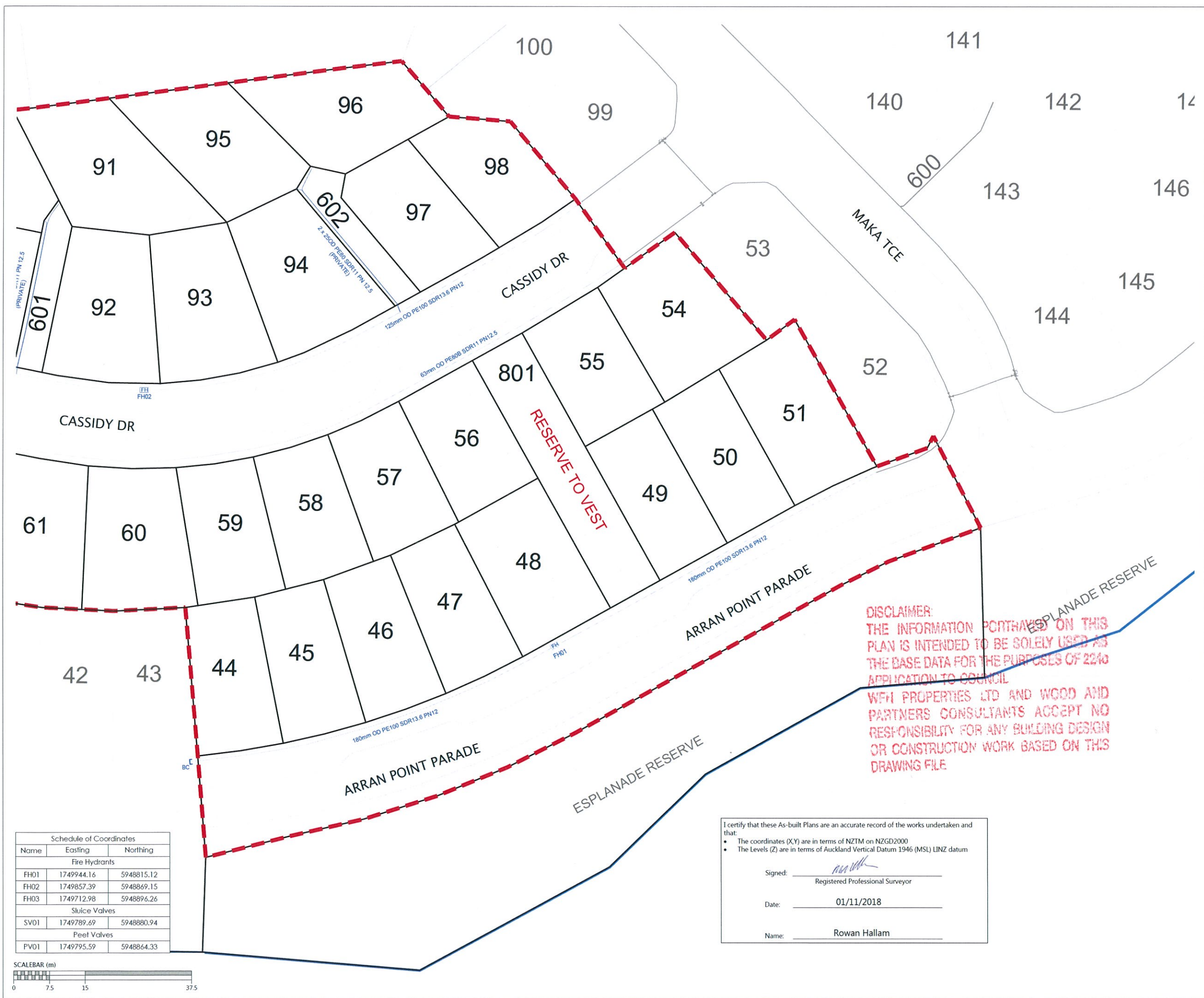
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SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-601-AB	

Schedule of Coordinates

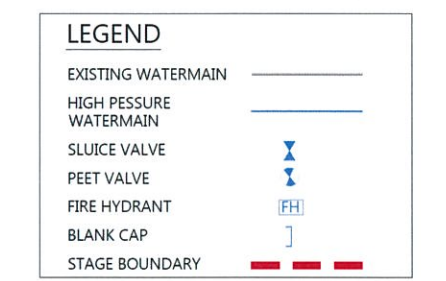
Name	Easting	Northing
Fire Hydrants		
FH01	1749944.16	5948815.12
FH02	1749857.39	5948869.15
FH03	1749712.98	5948896.26
Sluice Valves		
SV01	1749789.69	5948880.94
Peel Valves		
PV01	1749795.59	5948864.33



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



- NOTES**
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 2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	01/11/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
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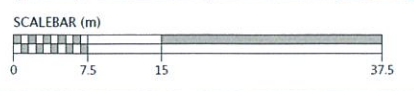
**MILLWATER
ARRAN POINT
STAGE 4**

**WATERMAIN AS-BUILT
SHEET 3 OF 3
(SLC - 62000)**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37004-04-602-AB	

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH01	1749944.16	5948815.12
FH02	1749857.39	5948869.15
FH03	1749712.98	5948896.26
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