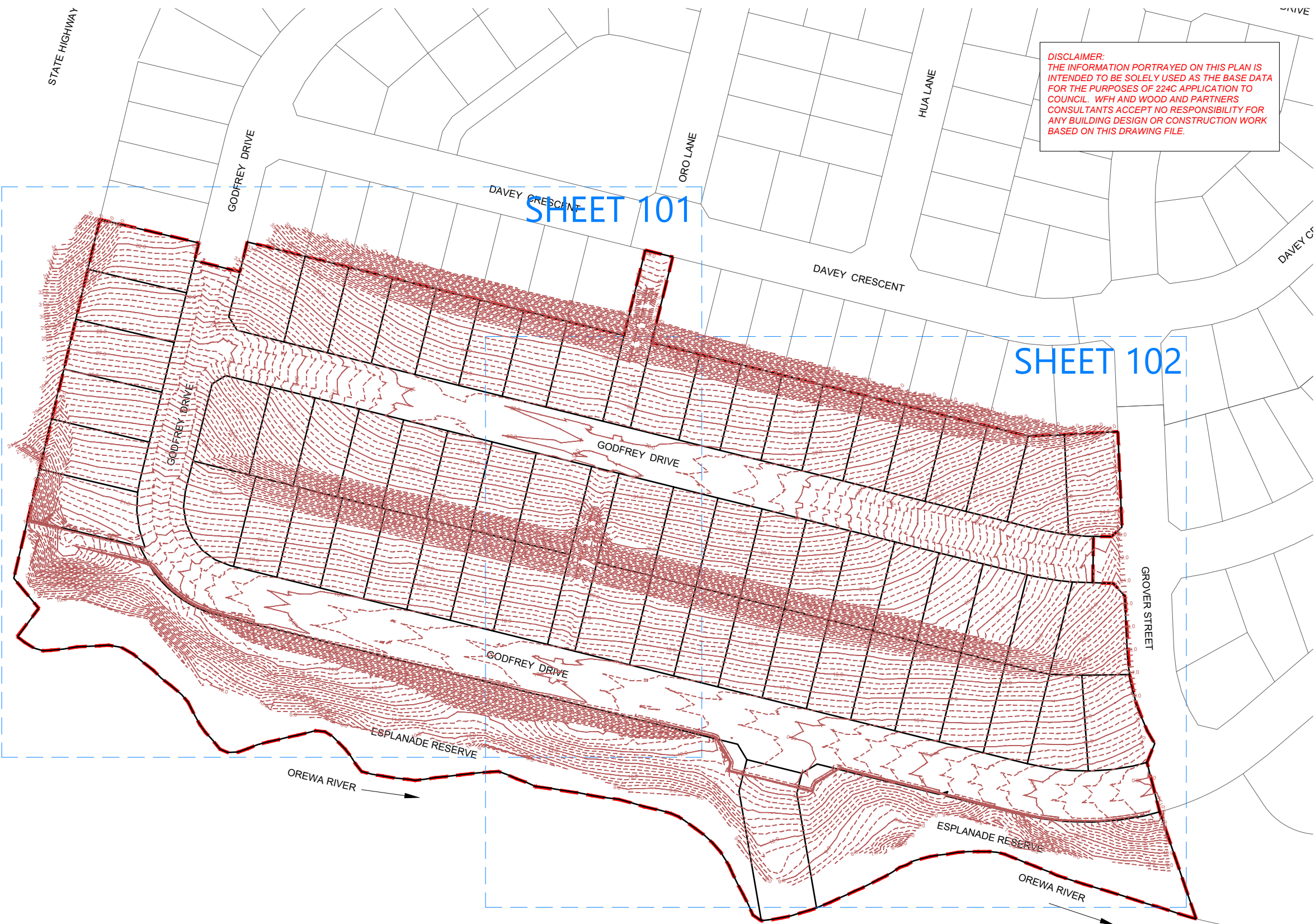




**DISCLAIMER:**  
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.



SHEET 101

SHEET 102

**NOTES**  
 1. NEW CONTOURS ARE AT 0.25m INTERVALS

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/08/20
2 ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
 STAGE 2**  
  
**FINAL CONTOUR  
 ASBUILT PLAN  
 SHEET 1 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-100-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: Michael Bates  
 Registered Professional Surveyor

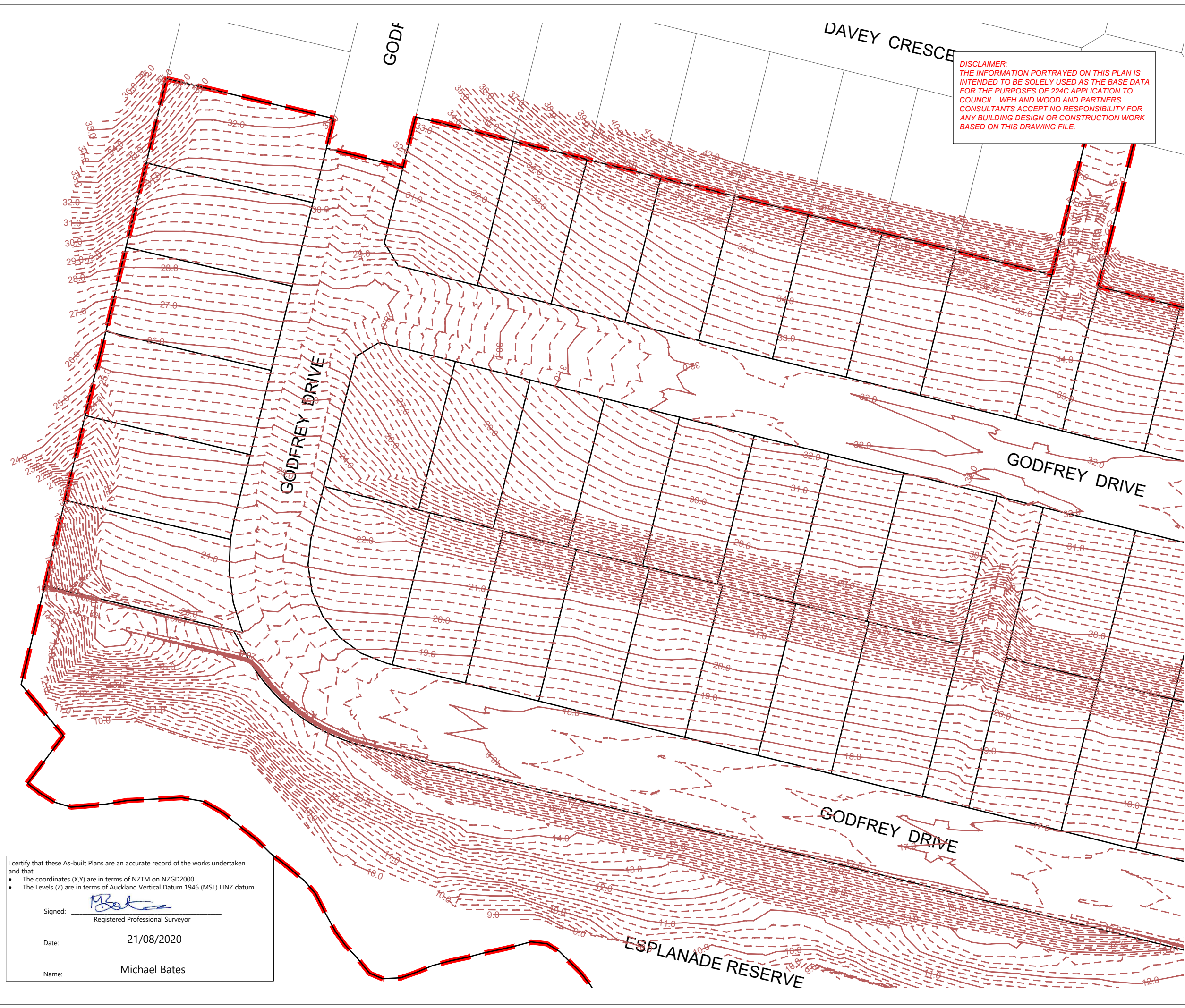
Date: 21/08/2020

Name: Michael Bates

C:\12DS\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURV\ASBUILT\37502-02-100-FINAL CONTOURS.DWG, 2020-Aug-24 09:34, NONE, Kendall Reid



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



**NOTES**

- NEW CONTOURS ARE AT 0.25m INTERVALS

**LEGEND**

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

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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




**ARRAN HILL PRECINCT 5  
 STAGE 2**

**FINAL CONTOUR  
 ASBUILT PLAN  
 SHEET 2 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-101-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

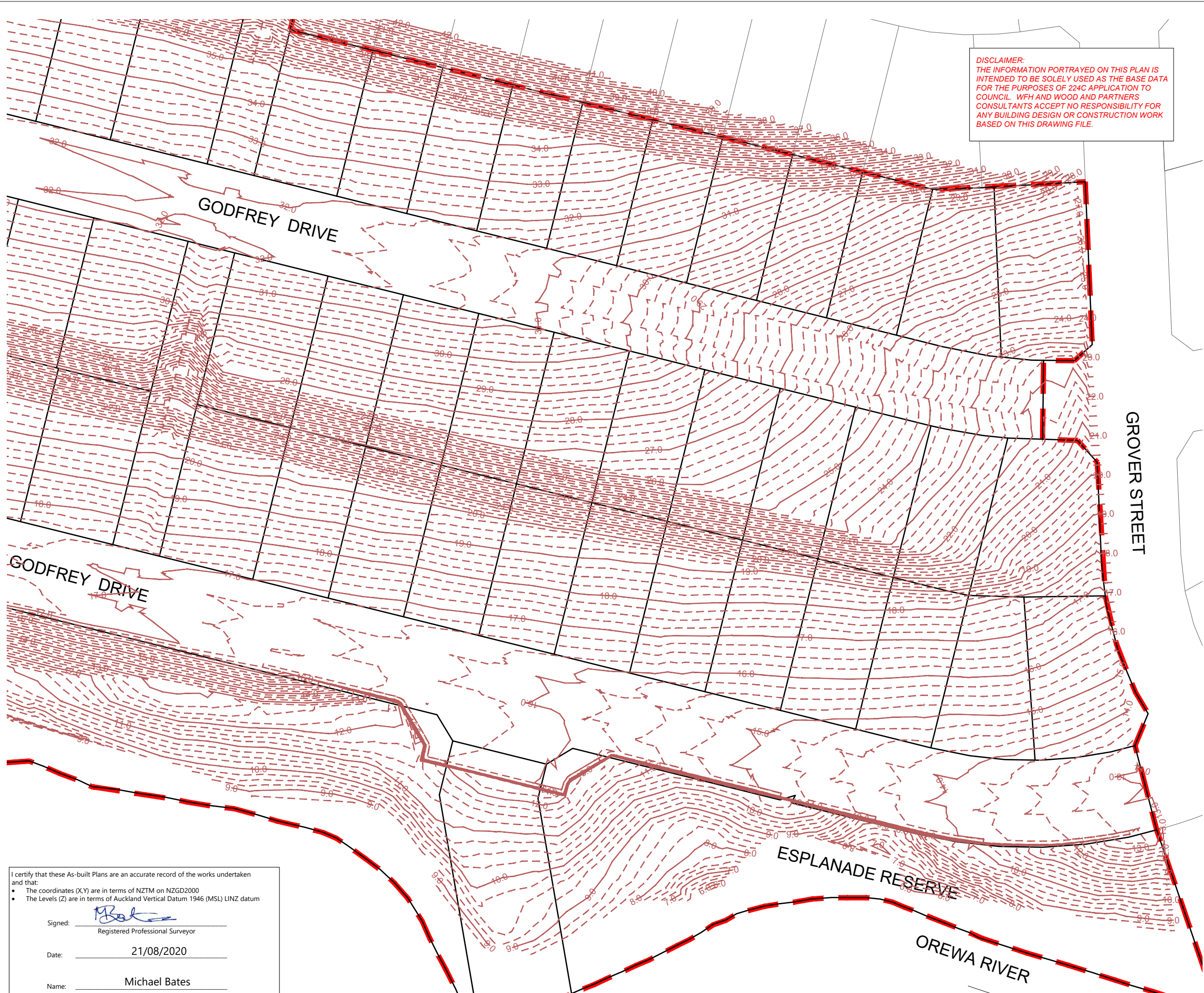
Date: 21/08/2020

Name: Michael Bates

C:\12DS\ENERGY\DATA\WFP-PEN-APP-01\37502-02-101\FINAL\CONTOURS.DWG - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURV\ASBUILT\37502-02-101-FINAL CONTOURS.DWG  
 2020-Aug-24 09:34, NONE, Kendall Reid



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



**NOTES**  
 1. NEW CONTOURS ARE AT 0.25m INTERVALS

**LEGEND**

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

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
 STAGE 2**

**FINAL CONTOUR  
 ASBUILT PLAN  
 SHEET 3 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-102-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: 21/08/2020

Name: Michael Bates



**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 AND WOOD AND 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	MRB	13/08/20
2	ISSUED FOR 224c	KR	21/08/20

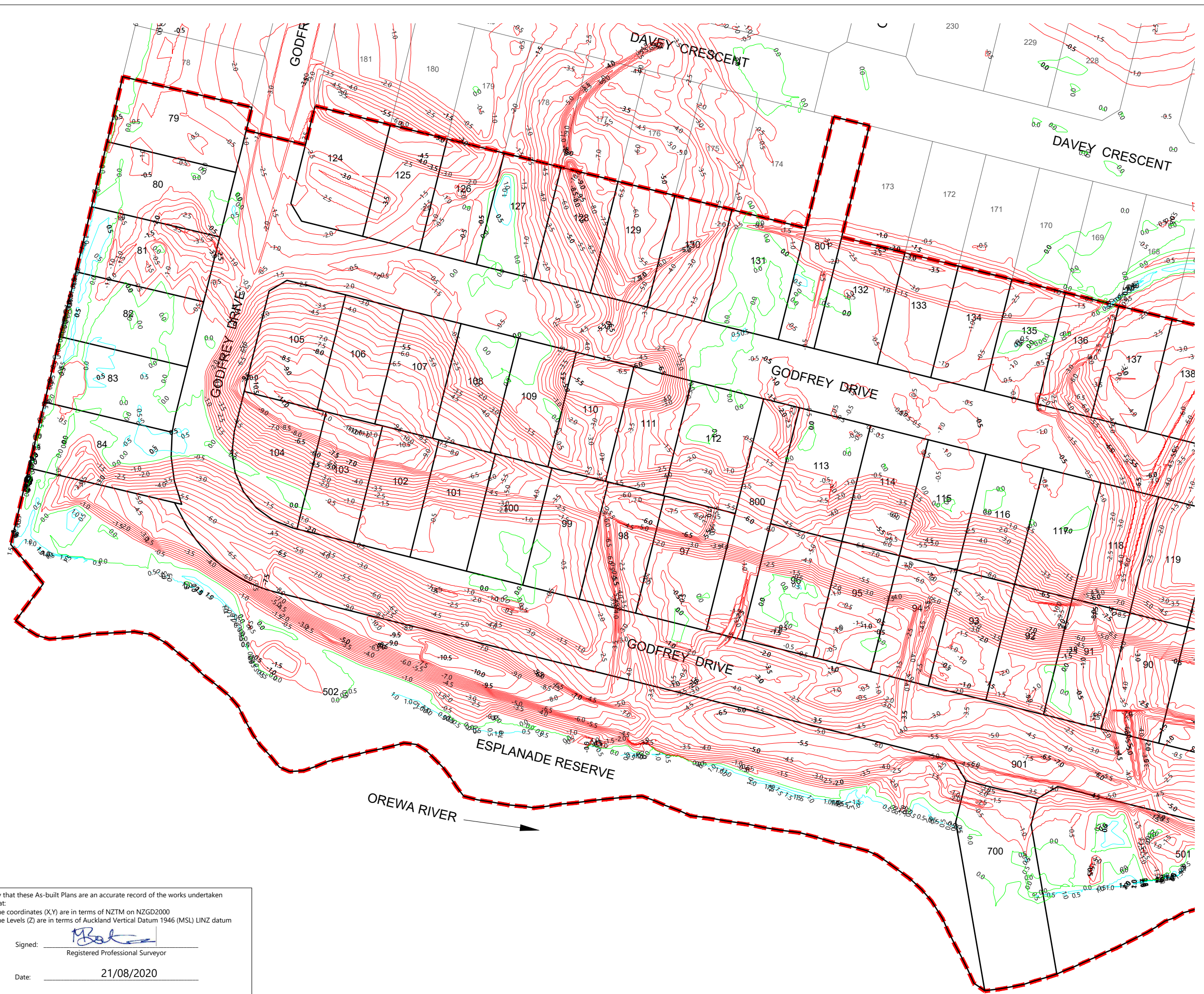
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	T&T	
DRAWN	MRB	
CHECKED	MB	
APPROVED		
		WOODS.CO.NZ

N

**ARRAN HILL PRECINCT 5  
 STAGE 2**

**CUT & FILL AS-BUILT  
 ORIGINAL TO LOWEST SURFACE  
 SHEET 1 OF 2**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-110-AB	



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

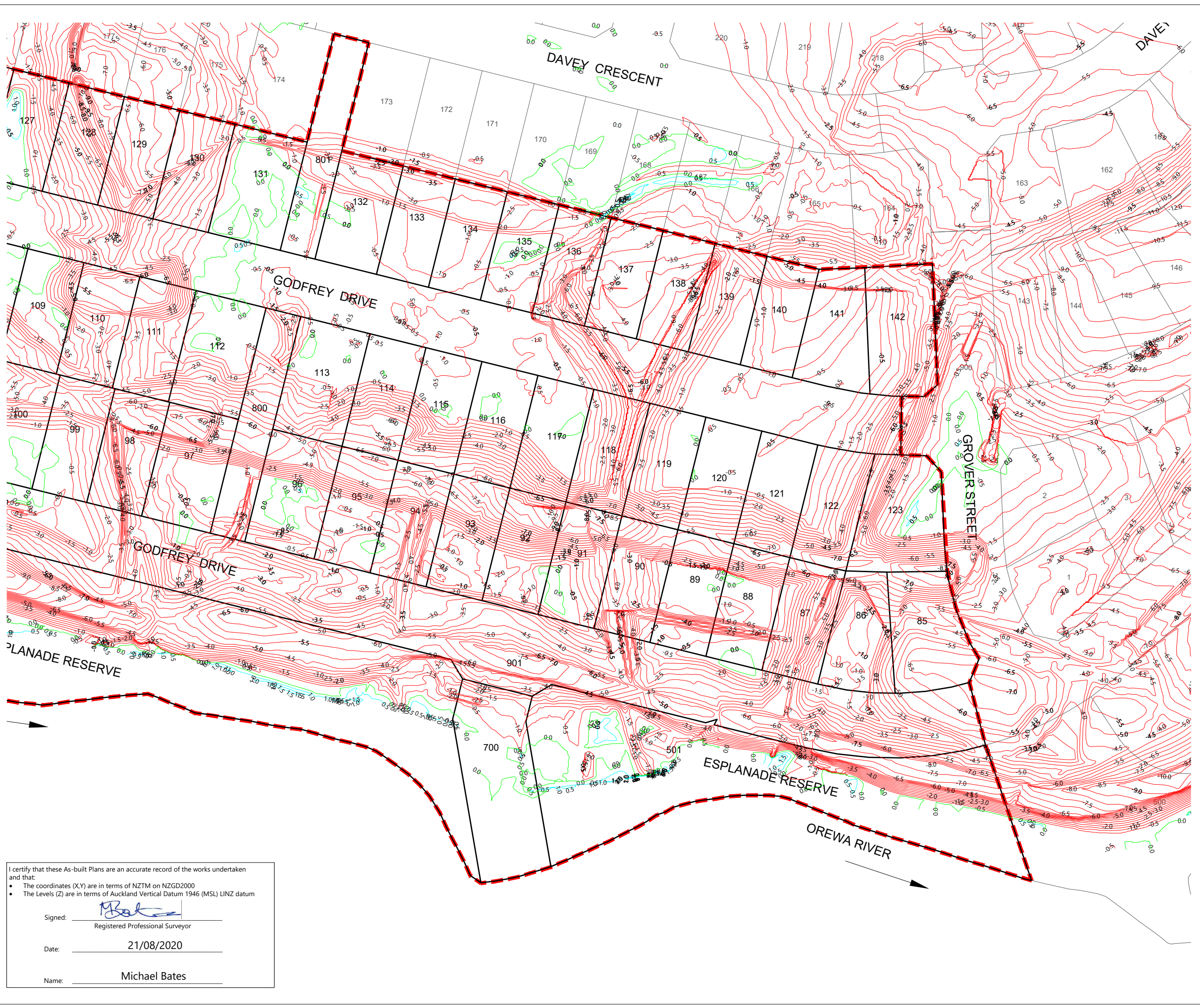
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





**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 AND WOOD AND 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	MRB	13/08/20
2 ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd
DESIGNED	T&T	LEVEL 1 BUILDING B,
DRAWN	MRB	8 NUGENT STREET, GRAFTON
CHECKED	MB	AUCKLAND 1023
APPROVED		09 308 9229
		<a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>



**ARRAN HILL PRECINCT 5  
 STAGE 2**  
 CUT & FILL AS-BUILT  
 ORIGINAL TO LOWEST SURFACE  
 SHEET 2 OF 2

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-111-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: Registered Professional Surveyor  
 Date: 21/08/2020  
 Name: Michael Bates



**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 AND WOOD AND 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	MRB	13/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
 STAGE 2**

**CUT & FILL AS-BUILT  
 LOWEST TO FINAL SURFACE  
 SHEET 1 OF 2**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-112-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: 21/08/2020

Name: Michael Bates





**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 AND WOOD AND 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	MRB	13/08/20
2 ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	T&T	
DRAWN	MRB	
CHECKED	MB	
APPROVED		



**ARRAN HILL PRECINCT 5  
 STAGE 2  
 CUT & FILL AS-BUILT  
 LOWEST TO FINAL SURFACE  
 SHEET 2 OF 2**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-113-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: 21/08/2020

Name: Michael Bates

Document No. C:\125\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURV\ASBUILT\37502-02-113-CUT FILL CONTOURS.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 AND WOOD AND 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	MRB	13/08/20
2	ISSUED FOR 224c	KR	21/08/2020

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

**ARRAN HILL PRECINCT 5  
 STAGE 2**

**CUT & FILL AS-BUILT  
 ORIGINAL TO FINAL SURFACE  
 SHEET 1 OF 2**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-114-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: 21/08/2020

Name: Michael Bates



**DISCLAIMER:**  
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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	MRB	13/08/20
2	ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	T&T	
DRAWN	MRB	
CHECKED	MB	
APPROVED		

**ARRAN HILL PRECINCT 5  
 STAGE 2**  
 CUT & FILL AS-BUILT  
 ORIGINAL TO FINAL SURFACE  
 SHEET 2 OF 2

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-115-AB	



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

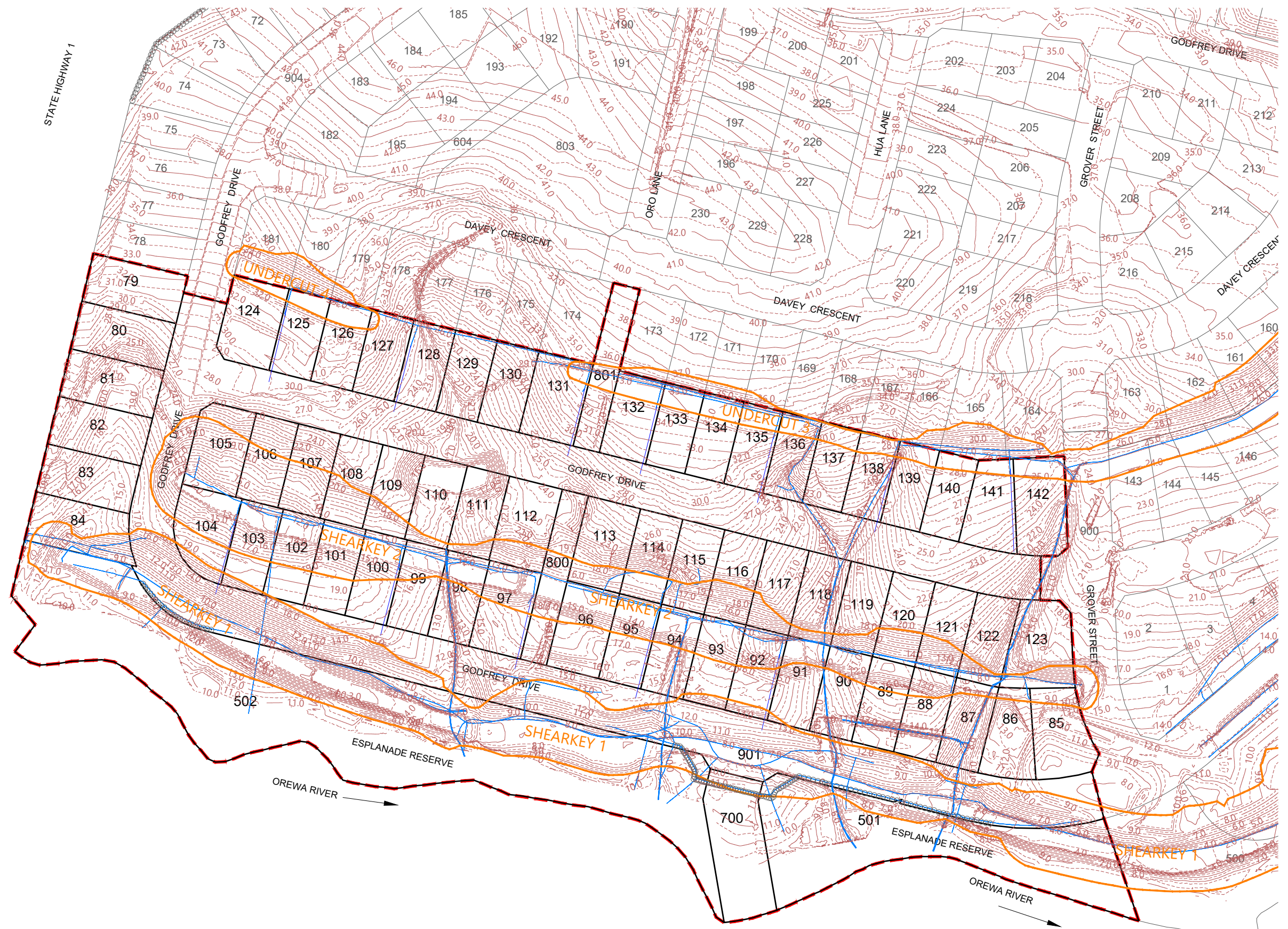
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





**NOTES**

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

**LEGEND**

- NOVACOIL 1500 SUBSOIL DRAINS
- UPVC 1500 SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

**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 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	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
 STAGE 2  
 SHEAR KEY, UNDERCUT  
 AND SUBSOIL DRAIN ASBUILT  
 SHEET 1 OF 1**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-120-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: 21/08/2020

Name: Michael Bates



### LEGEND

- BOUNDARY
- SLOPE STABILISATION DEVICE
- TOP OF BANK
- BOTTOM OF BANK
- FENCE
- TOP OF WALL
- BOTTOM OF WALL
- DEADMAN

- 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:**  
THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/08/20
2 ISSUED FOR 224c	KR	24/08/20

SURVEYED CONTRACTOR		WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	T&T	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	

N

## ARRAN HILL PRECINCT 5 STAGE 2

### REINFORCED EARTH BATTER & SLOPE STABILISATION PLAN

STATUS	ASBUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-140-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

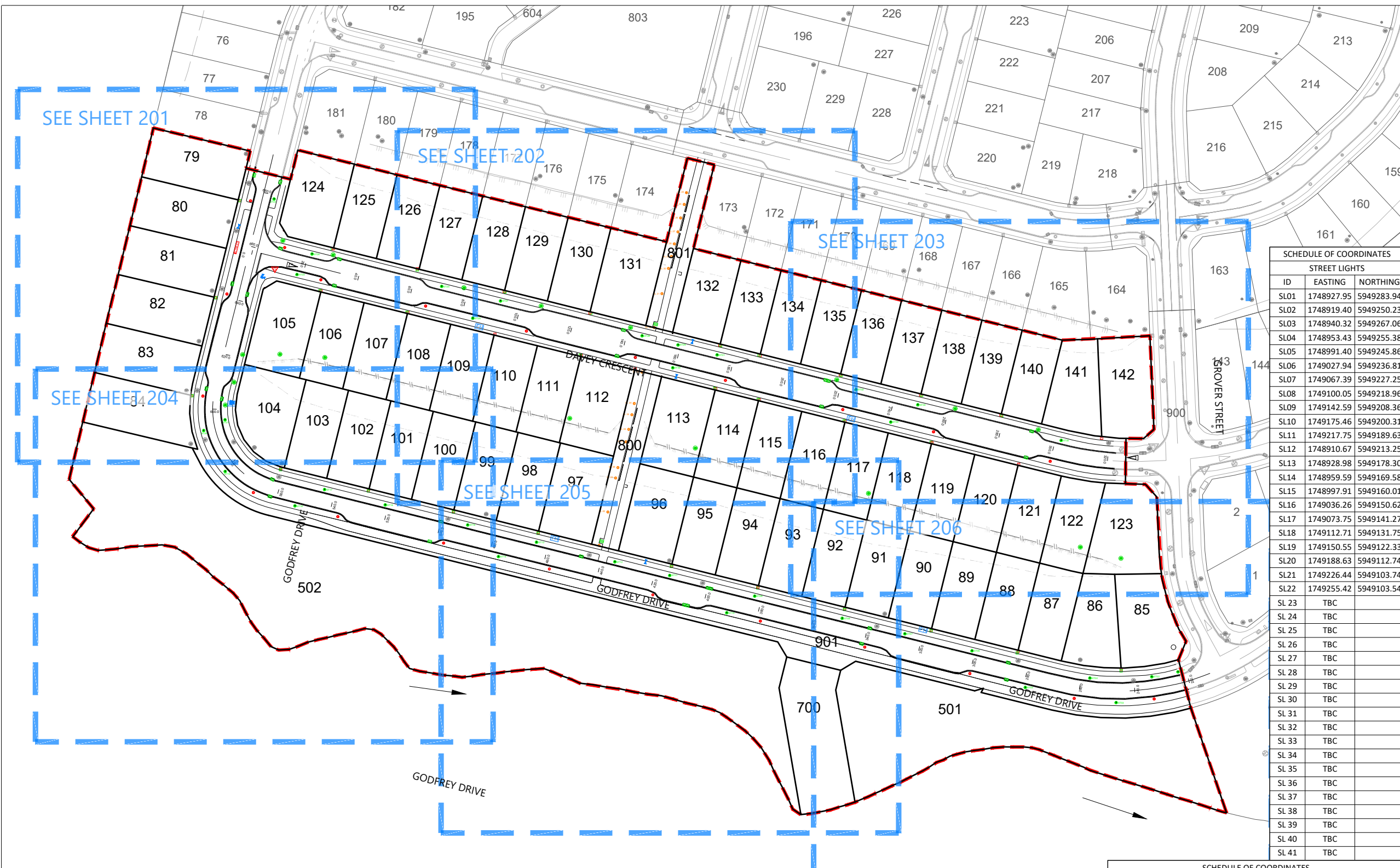
Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

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





SEE SHEET 201

SEE SHEET 202

SEE SHEET 203

SEE SHEET 204

SEE SHEET 205

SEE SHEET 206

SCHEDULE OF COORDINATES					
STREET LIGHTS					
ID	EASTING	NORTHING	ID	EASTING	NORTHING
SL01	1748927.95	5949283.94	SL23	TBC	
SL02	1748919.40	5949250.23	SL24	TBC	
SL03	1748940.32	5949267.06	SL25	TBC	
SL04	1748953.43	5949255.38	SL26	TBC	
SL05	1748991.40	5949245.86	SL27	TBC	
SL06	1749027.94	5949236.81	SL28	TBC	
SL07	1749067.39	5949227.25	SL29	TBC	
SL08	1749100.05	5949218.96	SL30	TBC	
SL09	1749142.59	5949208.36	SL31	TBC	
SL10	1749175.46	5949200.31	SL32	TBC	
SL11	1749217.75	5949189.63	SL33	TBC	
SL12	1748910.67	5949213.25	SL34	TBC	
SL13	1748928.98	5949178.30	SL35	TBC	
SL14	1748959.59	5949169.58	SL36	TBC	
SL15	1748997.91	5949160.01	SL37	TBC	
SL16	1749036.26	5949150.62	SL38	TBC	
SL17	1749073.75	5949141.27	SL39	TBC	
SL18	1749112.71	5949131.75	SL40	TBC	
SL19	1749150.55	5949122.33	SL41	TBC	
SL20	1749188.63	5949112.74			
SL21	1749226.44	5949103.74			
SL22	1749255.42	5949103.54			

- 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 100mm 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.

REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	23/07/20
2	ISSUED FOR 224c		KR	21/08/20

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

**ARRAN HILL PRECINCT 5  
STAGE 2  
ROADING AS-BUILT  
OVERALL LAYOUT  
SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-200-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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

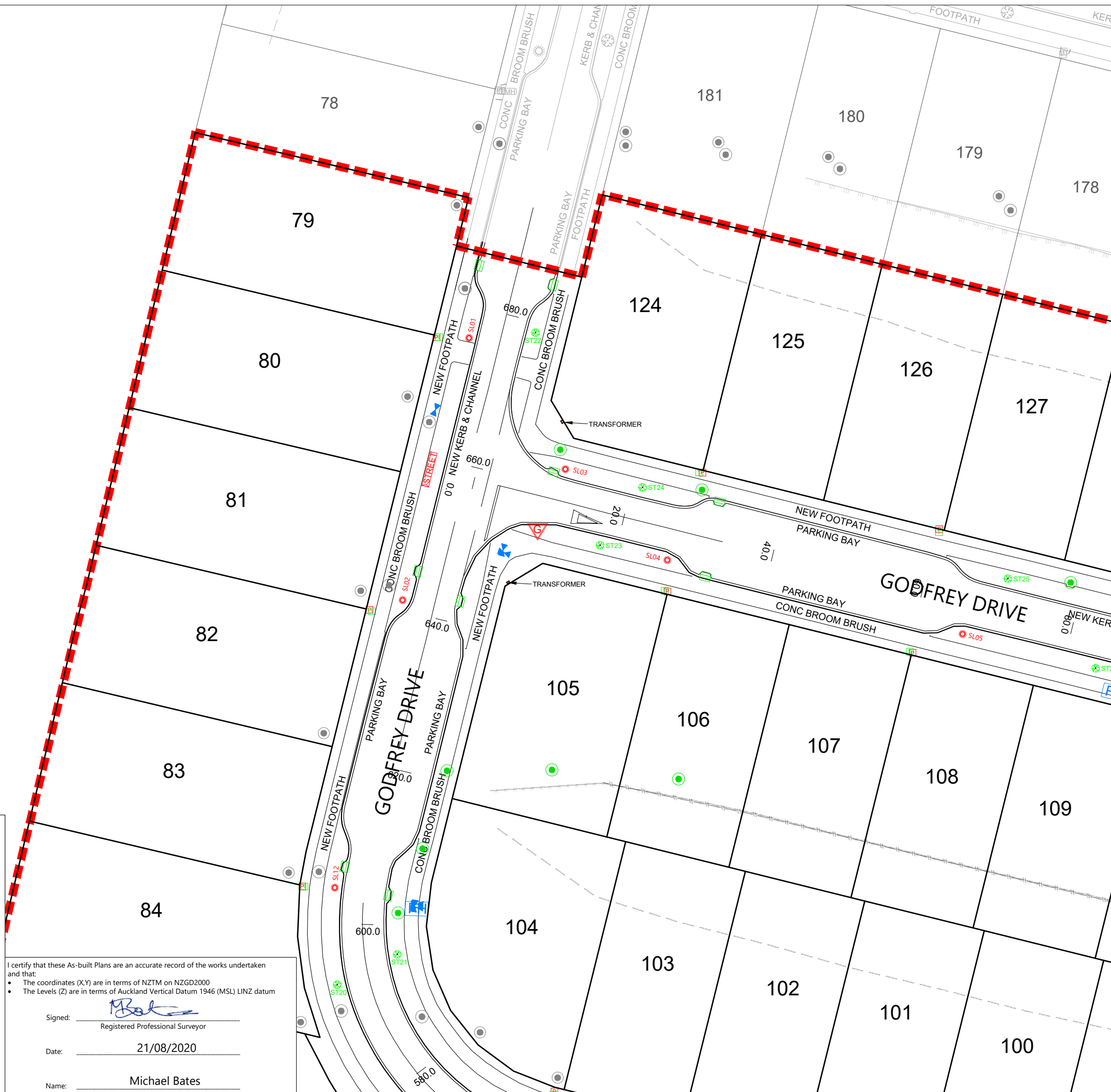
Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

SCHEDULE OF COORDINATES					
STREET TREES					
ID	EASTING	NORTHING	ID	EASTING	NORTHING
ST01	391451.63	831944.26	ST19	391105.05	832010.50
ST02	391442.16	831942.31	ST20	391096.99	832025.16
ST03	391429.41	831932.71	ST21	391104.64	832029.20
ST04	391419.75	831941.40	ST22	391120.95	832109.49
ST05	391396.40	831937.59	ST23	391129.76	832082.30
ST06	391376.85	831950.51	ST24	391135.08	832089.84
ST07	391352.41	831956.22	ST25	391182.26	832078.97
ST08	391329.61	831961.42	ST26	391193.76	832067.65
ST09	391297.75	831968.86	ST27	391203.68	832074.08
ST10	391287.73	831962.64	ST28	391255.22	832062.39
ST11	391266.80	831975.81	ST29	391268.30	832059.34
ST12	391246.84	831980.36	ST30	391266.54	832051.01
ST13	391218.33	831986.94	ST31	391282.51	832055.99
ST14	391204.63	831981.47	ST32	391333.10	832044.36
ST15	391193.27	831992.73	ST33	391345.89	832032.82
ST16	391163.27	831999.44	ST34	391355.59	832039.24
ST17	391141.16	832004.61	ST35	391407.77	832027.33
ST18	391130.54	831998.50			





- 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 100mm 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.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/07/20
2	ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-201-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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

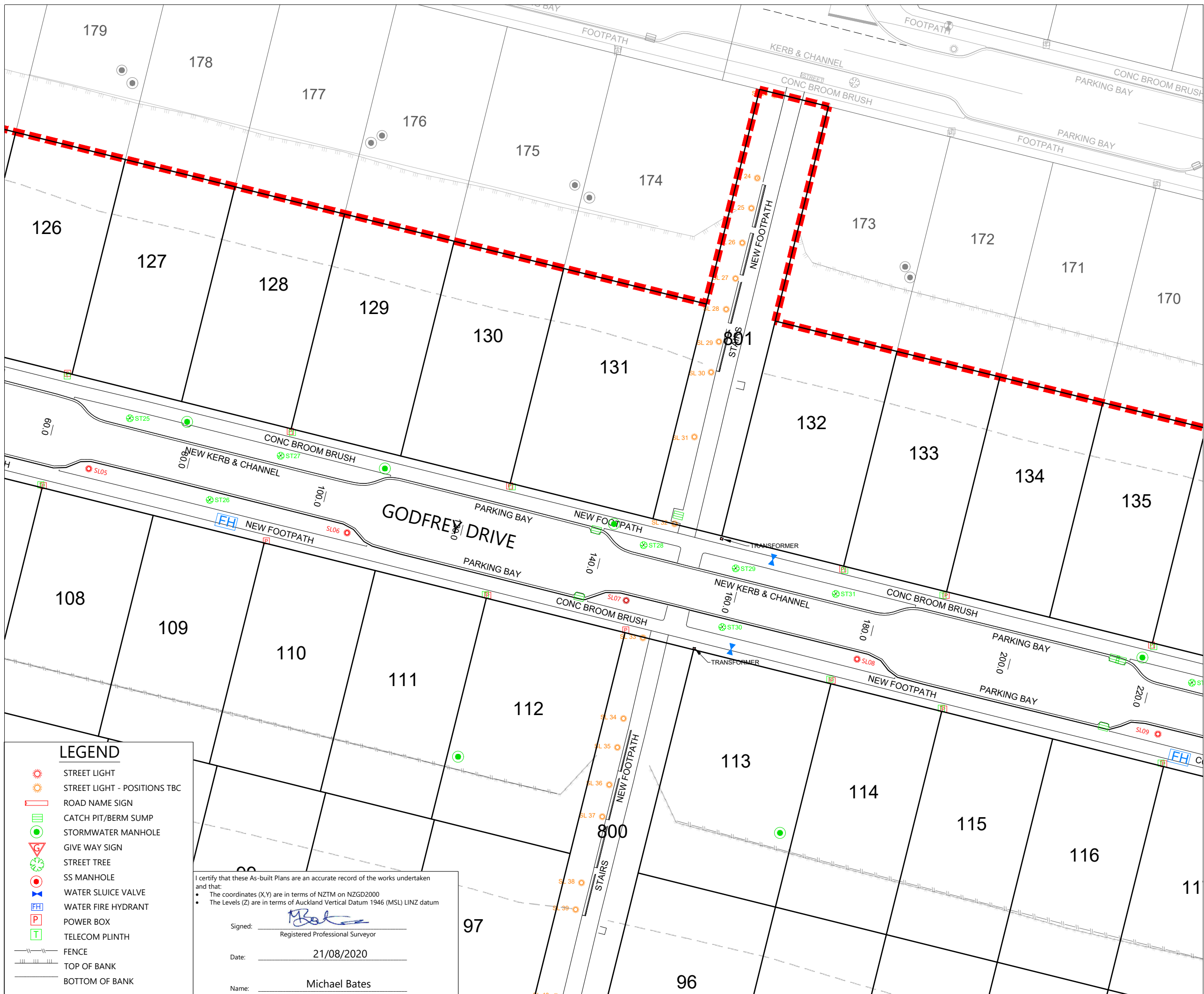
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/07/20
2	ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-202-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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

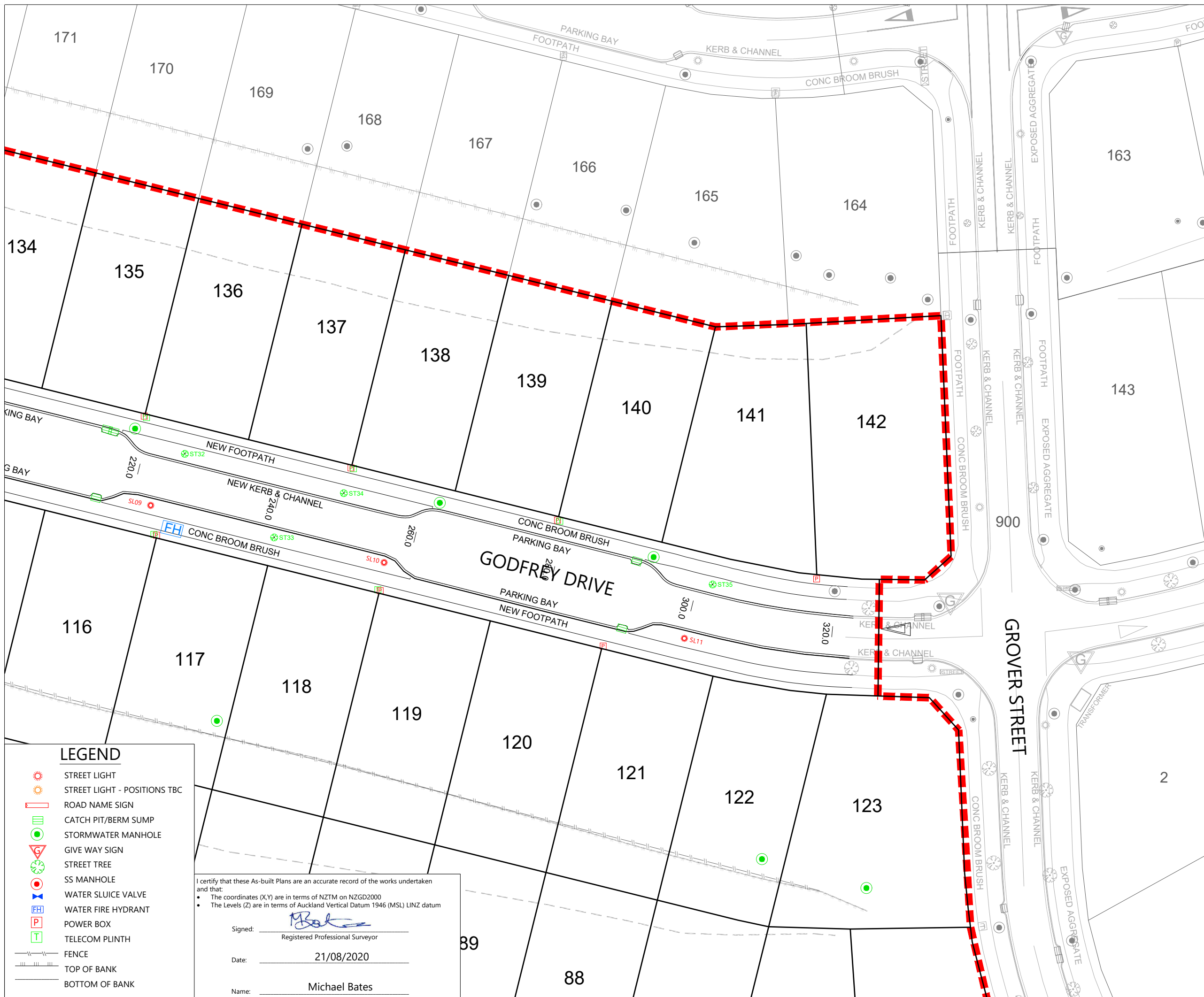
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





**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.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/07/20
2	ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-203-AB	

**LEGEND**

- STREET LIGHT
- STREET LIGHT - POSITIONS TBC
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- GIVE WAY SIGN
- STREET TREE
- SS MANHOLE
- WATER SLUICE VALVE
- WATER FIRE HYDRANT
- POWER BOX
- TELECOM PLINTH
- FENCE
- TOP OF BANK
- BOTTOM OF BANK

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

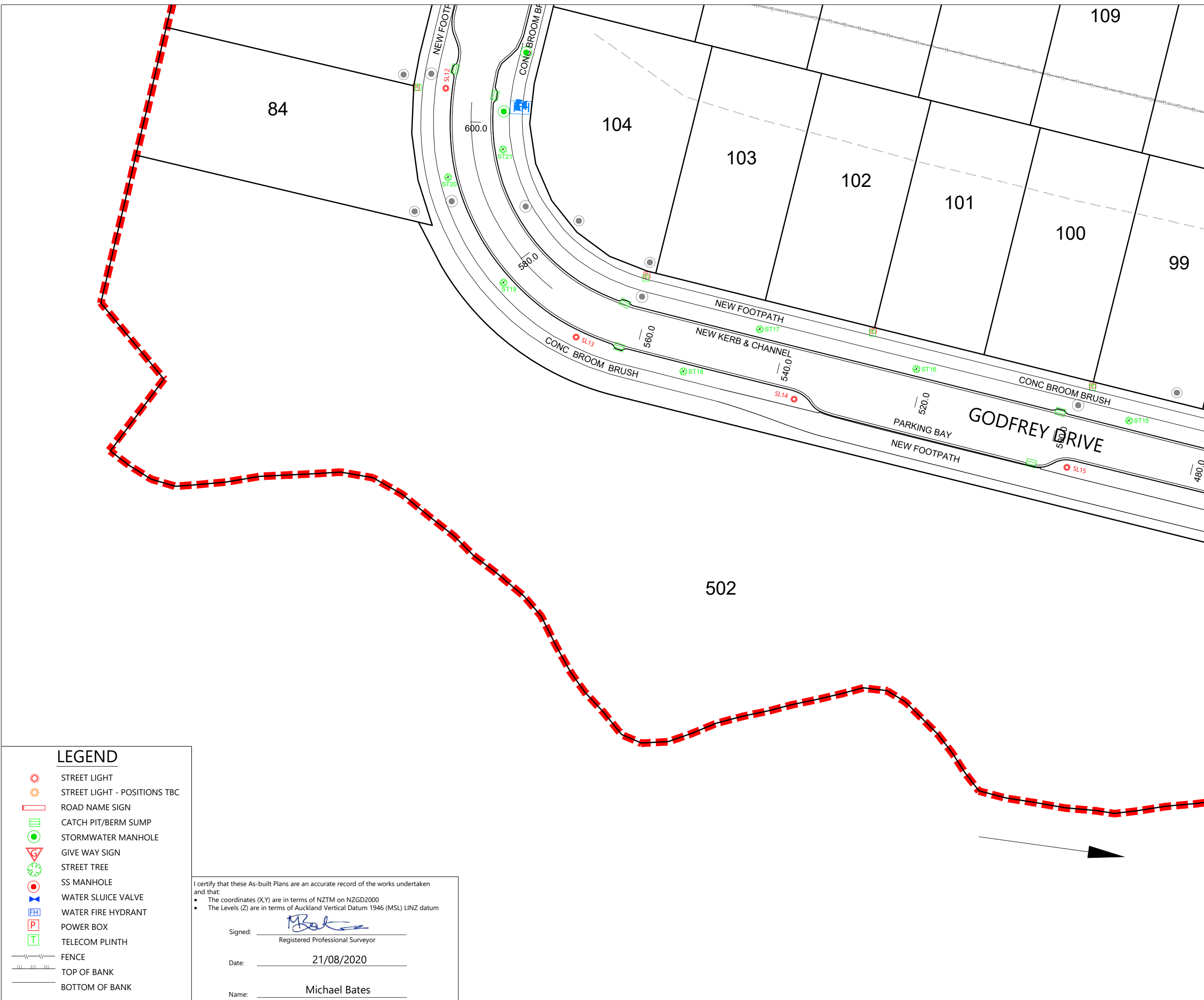
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/07/20
2 ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-204-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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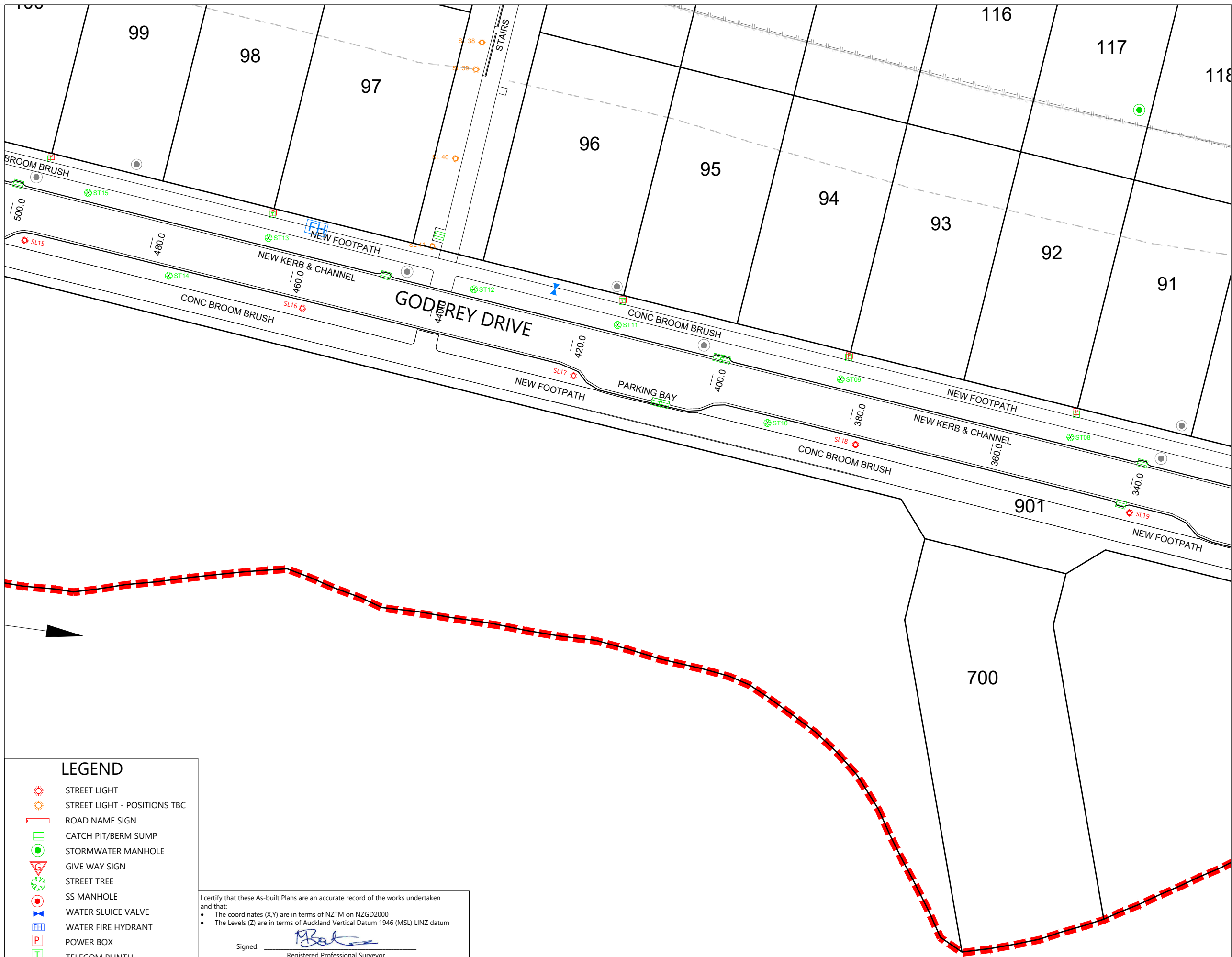
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/07/20
2 ISSUED FOR 224c	KR	21/08/20

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

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-205-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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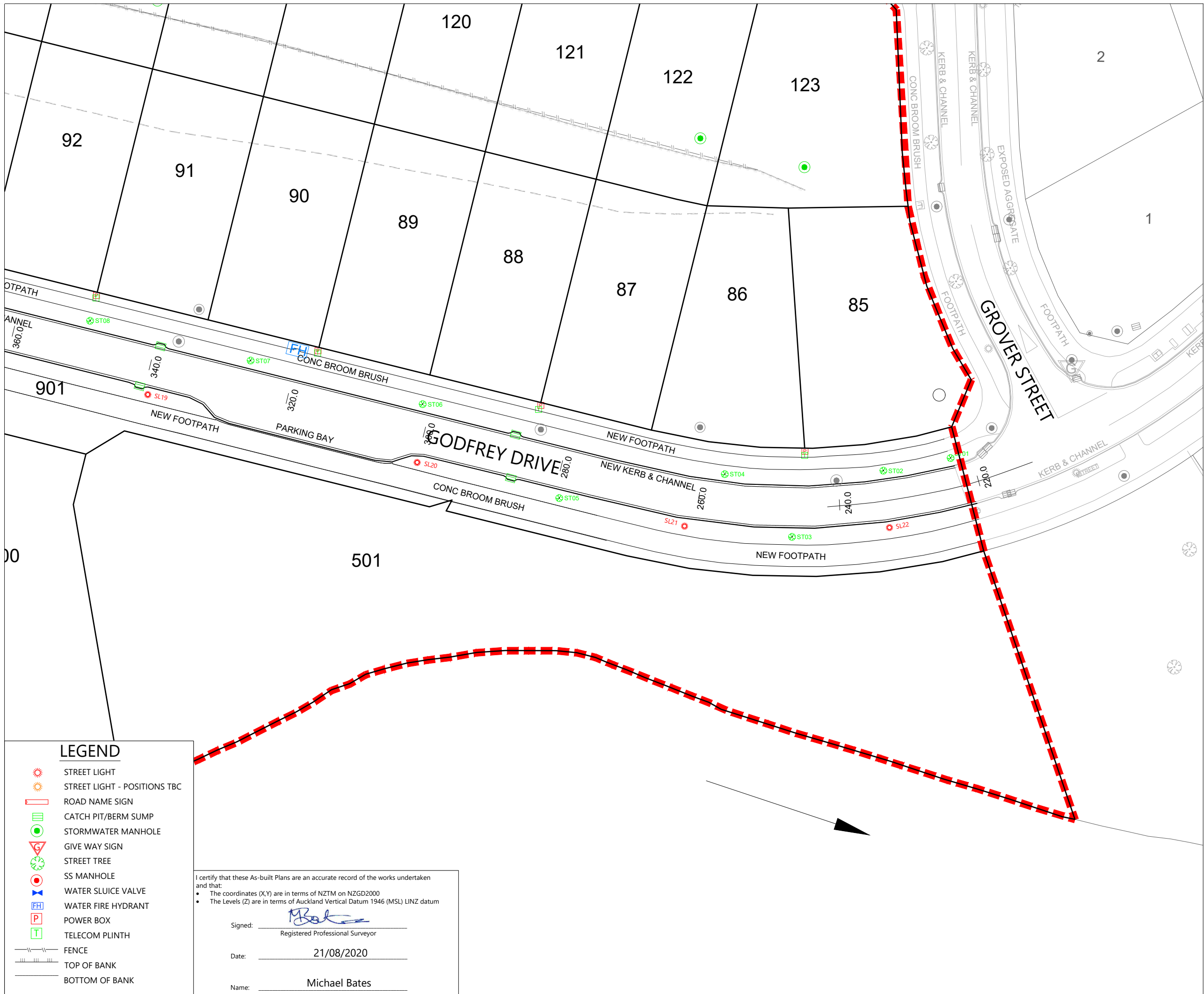
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/07/20
2	ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**ROADING AS-BUILT  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-206-AB	

- LEGEND**
- STREET LIGHT
  - STREET LIGHT - POSITIONS TBC
  - ROAD NAME SIGN
  - CATCH PIT/BERM SUMP
  - STORMWATER MANHOLE
  - GIVE WAY SIGN
  - STREET TREE
  - SS MANHOLE
  - WATER SLUICE VALVE
  - WATER FIRE HYDRANT
  - POWER BOX
  - TELECOM PLINTH
  - FENCE
  - TOP OF BANK
  - BOTTOM OF BANK

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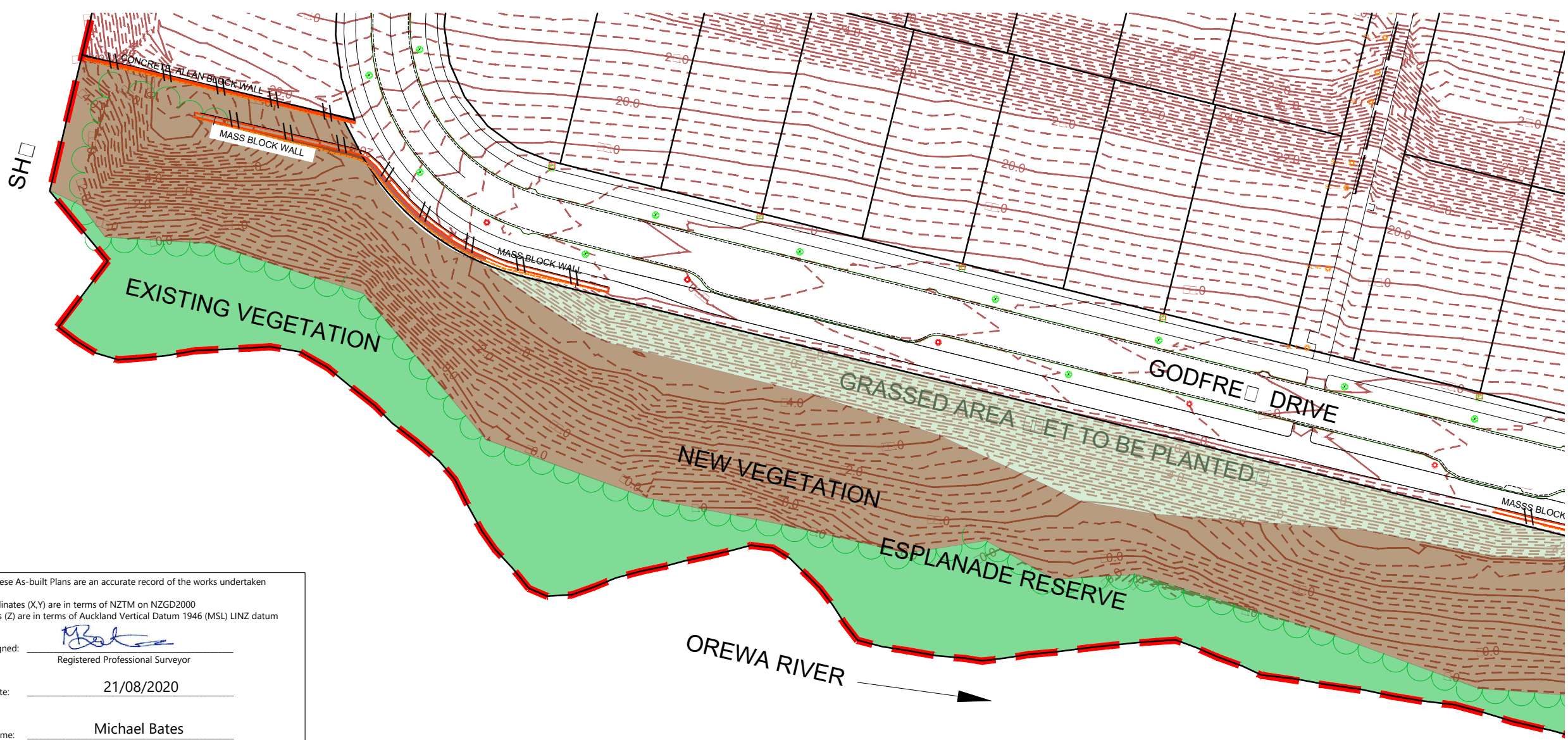
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates





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

Signed: Michael Bates  
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

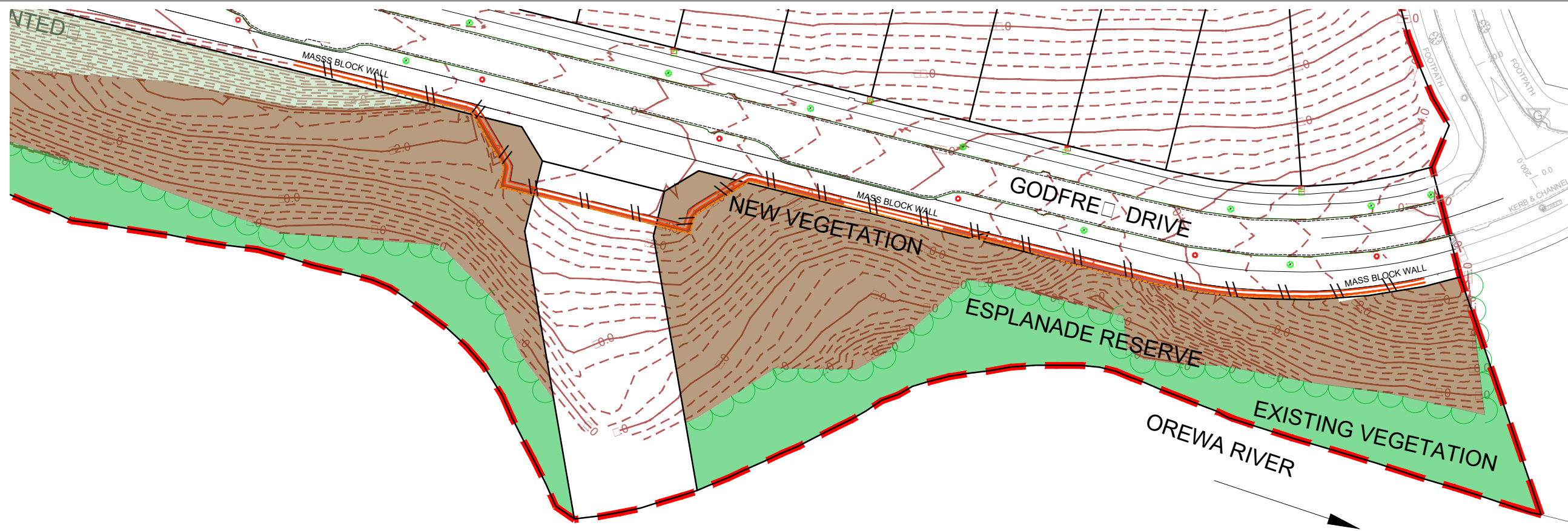
**NOTES**

1. NEW CONTOURS ARE AT 0.25m INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES
	BOTTOM FACE OF WALL
	TOP FACE OF WALL
	FENCE
	DRIPLINE
	GRASSED AREA
	NEWLY VEGETATED AREA
	EXISTING VEGETATION

**DISCLAIMER:**  
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**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

RESERVE AS-BUILT  
SHEET 1 OF 1

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-250-AB	

C:\1205\ENERGY\DATA\WIP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_250\DRAWINGS\SURV\ASBUILT\37502-02-250-RESERVE.DWG, 2020-Aug-24 16:13, NONE, Kendall Reid






SCHEDULE OF COORDINATES		
Lot 105	1748930.05	5949229.06
Lot 106	1748950.91	5949229.27
Lot 107	1748966.04	5949225.51
Lot 108	1748983.09	5949221.31
Lot 109	1748997.68	5949218.30
Lot 110	1749014.68	5949213.74
Lot 111	1749029.13	5949209.81
Lot 112	1749045.74	5949206.61
Lot 113	1749087.55	5949195.19
Lot 114	1749104.49	5949191.21
Lot 115	1749119.42	5949187.34
Lot 116	1749134.87	5949183.28
Lot 117	1749152.94	5949180.01
Lot 118	1749165.80	5949175.42
Lot 119	1749181.23	5949171.80
Lot 120	1749198.74	5949167.42
Lot 121	1749214.21	5949163.16
Lot 122	1749228.15	5949160.70
Lot 123	1749255.56	5949152.15
Lot 124	1748941.87	5949272.70
Lot 125	1748959.43	5949268.54
Lot 126	1748976.50	5949264.06
Lot 127	1748991.00	5949259.75
Lot 128	1749006.21	5949256.56
Lot 129	1749034.28	5949249.80
Lot 130	1749039.56	5949248.10
Lot 131	1749053.74	5949244.46
Lot 132	1749095.32	5949234.35
Lot 133	1749108.22	5949230.73
Lot 134	1749123.22	5949226.94
Lot 135	1749139.88	5949223.05
Lot 136	1749152.38	5949219.29
Lot 137	1749167.59	5949215.69
Lot 138	1749182.56	5949211.95
Lot 139	1749196.23	5949208.50
Lot 140	1749212.88	5949205.51
Lot 141	1749231.05	5949201.51
Lot 79	1748923.01	5949286.89
Lot 80	1748917.76	5949268.57
Lot 81	1748912.80	5949250.09
Lot 82	1748910.37	5949235.17
Lot 83	1748904.76	5949217.02
Lot 84	1748907.07	5949198.64
Lot 85	1749262.45	5949122.27
Lot 87	1749220.16	5949119.48
Lot 88	1749203.88	5949122.97
Lot 89	1749188.72	5949126.52
Lot 90	1749172.85	5949129.96
Lot 91	1749155.35	5949134.48
Lot 92	1749140.30	5949138.15
Lot 93	1749124.25	5949142.09
Lot 94	1749108.92	5949145.75
Lot 95	1749092.56	5949149.74
Lot 96	1749077.20	5949153.75
Lot 97	1749050.55	5949160.60
Lot 98	1749030.60	5949165.38
Lot 99	1749015.21	5949169.19
Lot 100	1749000.18	5949173.09
Lot 101	1748984.72	5949177.27
Lot 102	1748969.19	5949180.75
Lot 103	1748954.24	5949184.22
Lot 104	1748937.25	5949188.69
Lot 142	1749250.23	5949200.28

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: 21/08/2020

Name: Michael Bates



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
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 COCONCRETE PIPES CLASS 4 (Z) RRI. ALL OTHER PIPELINES ARE REINFORCED COCONCRETE CLASS 2 (X) RRI 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.
  - SOME INVERT LEVELS ARE MARK THE LEVELS AT THE ENTRY POINT OF DROP-PIPES INTO THE MH CHAMBER. THESE LEVELS HAVE BEEN CALCULATED FROM OBSERVATIONS TO THE TOP OF THE PIPE.

REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	17/08/20
2	ISSUED FOR 224c		KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
OVERALL LAYOUT  
SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:2000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-300-AB	

**DISCLAIMER:**  
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SCHEDULE OF COORDINATES			
STORMWATER LOT CONNECTIONS	NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06	
Lot 106	1748950.91	5949229.27	
Lot 107	1748966.04	5949225.51	
Lot 108	1748983.09	5949221.31	
Lot 109	1748997.68	5949218.30	
Lot 110	1749014.68	5949213.74	
Lot 111	1749029.13	5949209.81	
Lot 112	1749045.74	5949206.61	
Lot 113	1749087.55	5949195.19	
Lot 114	1749104.49	5949191.21	
Lot 115	1749119.42	5949187.34	
Lot 116	1749134.87	5949183.28	
Lot 117	1749152.94	5949180.01	
Lot 118	1749165.80	5949175.42	
Lot 119	1749181.23	5949171.80	
Lot 120	1749198.74	5949167.42	
Lot 121	1749214.21	5949163.16	
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Lot 125	1748959.43	5949268.54	
Lot 126	1748976.50	5949264.06	
Lot 127	1748991.00	5949259.75	
Lot 128	1749006.21	5949256.56	
Lot 129	1749034.28	5949249.80	
Lot 130	1749039.56	5949248.10	
Lot 131	1749053.74	5949244.46	
Lot 132	1749095.32	5949234.35	
Lot 133	1749108.22	5949230.73	
Lot 134	1749123.22	5949226.94	
Lot 135	1749139.88	5949223.05	
Lot 136	1749152.38	5949219.29	
Lot 137	1749167.59	5949215.69	
Lot 138	1749182.56	5949211.95	
Lot 139	1749196.23	5949208.50	
Lot 140	1749212.88	5949205.51	
Lot 141	1749231.05	5949201.51	
Lot 79	1748923.01	5949286.89	
Lot 80	1748917.76	5949268.57	
Lot 81	1748912.80	5949250.09	
Lot 82	1748910.37	5949235.17	
Lot 83	1748904.76	5949217.02	
Lot 84	1748907.07	5949198.64	
Lot 85	1749262.45	5949122.27	
Lot 87	1749220.16	5949119.48	
Lot 88	1749203.88	5949122.97	
Lot 89	1749188.72	5949126.52	
Lot 90	1749172.85	5949129.96	
Lot 91	1749155.35	5949134.48	
Lot 92	1749140.30	5949138.15	
Lot 93	1749124.25	5949142.09	
Lot 94	1749108.92	5949145.75	
Lot 95	1749092.56	5949149.74	
Lot 96	1749077.20	5949153.75	
Lot 97	1749050.55	5949160.60	
Lot 98	1749030.60	5949165.38	
Lot 99	1749015.21	5949169.19	
Lot 100	1749000.18	5949173.09	
Lot 101	1748984.72	5949177.27	
Lot 102	1748969.19	5949180.75	
Lot 103	1748954.24	5949184.22	
Lot 104	1748937.25	5949188.69	
Lot 142	1749250.23	5949200.28	

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- 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

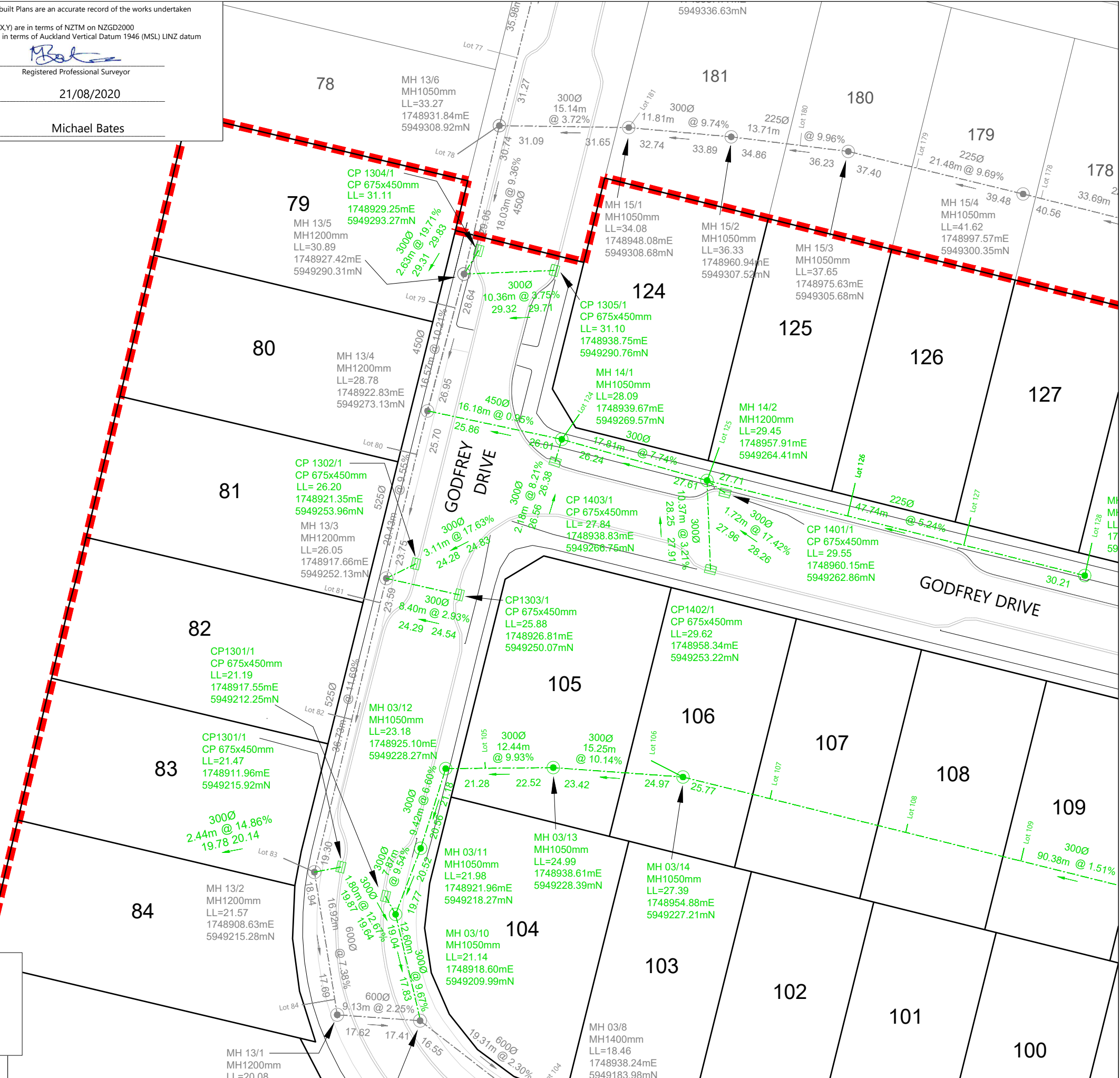
Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGES CONSTRUCTION

**DISCLAIMER:**  
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LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
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 COCONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED COCONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
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  - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.
  - SOME INVERT LEVELS ARE MARK THE LEVELS AT THE ENTRY POINT OF DROP-PIPES INTO THE MH CHAMBER. THESE LEVELS HAVE BEEN CALCULATED FROM OBSERVATIONS TO THE TOP OF THE PIPE.

REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	17/08/20
2	ISSUED FOR 224c		KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-301-AB	



SCHEDULE OF COORDINATES			
STORMWATER LOT CONNECTIONS	NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06	
Lot 106	1748950.91	5949229.27	
Lot 107	1748966.04	5949225.51	
Lot 108	1748983.09	5949221.31	
Lot 109	1748997.68	5949218.30	
Lot 110	1749014.68	5949213.74	
Lot 111	1749029.13	5949209.81	
Lot 112	1749045.74	5949206.61	
Lot 113	1749087.55	5949195.19	
Lot 114	1749104.49	5949191.21	
Lot 115	1749119.42	5949187.34	
Lot 116	1749134.87	5949183.28	
Lot 117	1749152.94	5949180.01	
Lot 118	1749165.80	5949175.42	
Lot 119	1749181.23	5949171.80	
Lot 120	1749198.74	5949167.42	
Lot 121	1749214.21	5949163.16	
Lot 122	1749228.15	5949160.70	
Lot 123	1749255.56	5949152.15	
Lot 124	1748941.87	5949272.70	
Lot 125	1748959.43	5949268.54	
Lot 126	1748976.50	5949264.06	
Lot 127	1748991.00	5949259.75	
Lot 128	1749006.21	5949256.56	
Lot 129	1749034.28	5949249.80	
Lot 130	1749039.56	5949248.10	
Lot 131	1749053.74	5949244.46	
Lot 132	1749095.32	5949234.35	
Lot 133	1749108.22	5949230.73	
Lot 134	1749123.22	5949226.94	
Lot 135	1749139.88	5949223.05	
Lot 136	1749152.38	5949219.29	
Lot 137	1749167.59	5949215.69	
Lot 138	1749182.56	5949211.95	
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Lot 140	1749212.88	5949205.51	
Lot 141	1749231.05	5949201.51	
Lot 79	1748923.01	5949286.89	
Lot 80	1748917.76	5949268.57	
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Lot 90	1749172.85	5949129.96	
Lot 91	1749155.35	5949134.48	
Lot 92	1749140.30	5949138.15	
Lot 93	1749124.25	5949142.09	
Lot 94	1749108.92	5949145.75	
Lot 95	1749092.56	5949149.74	
Lot 96	1749077.20	5949153.75	
Lot 97	1749050.55	5949160.60	
Lot 98	1749030.60	5949165.38	
Lot 99	1749015.21	5949169.19	
Lot 100	1749000.18	5949173.09	
Lot 101	1748984.72	5949177.27	
Lot 102	1748969.19	5949180.75	
Lot 103	1748954.24	5949184.22	
Lot 104	1748937.25	5949188.69	
Lot 142	1749250.23	5949200.28	

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

Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
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REVISION DETAILS		
1	ISSUED FOR INFORMATION	KR 17/08/20
2	ISSUED FOR 224c	KR 21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-302-AB	

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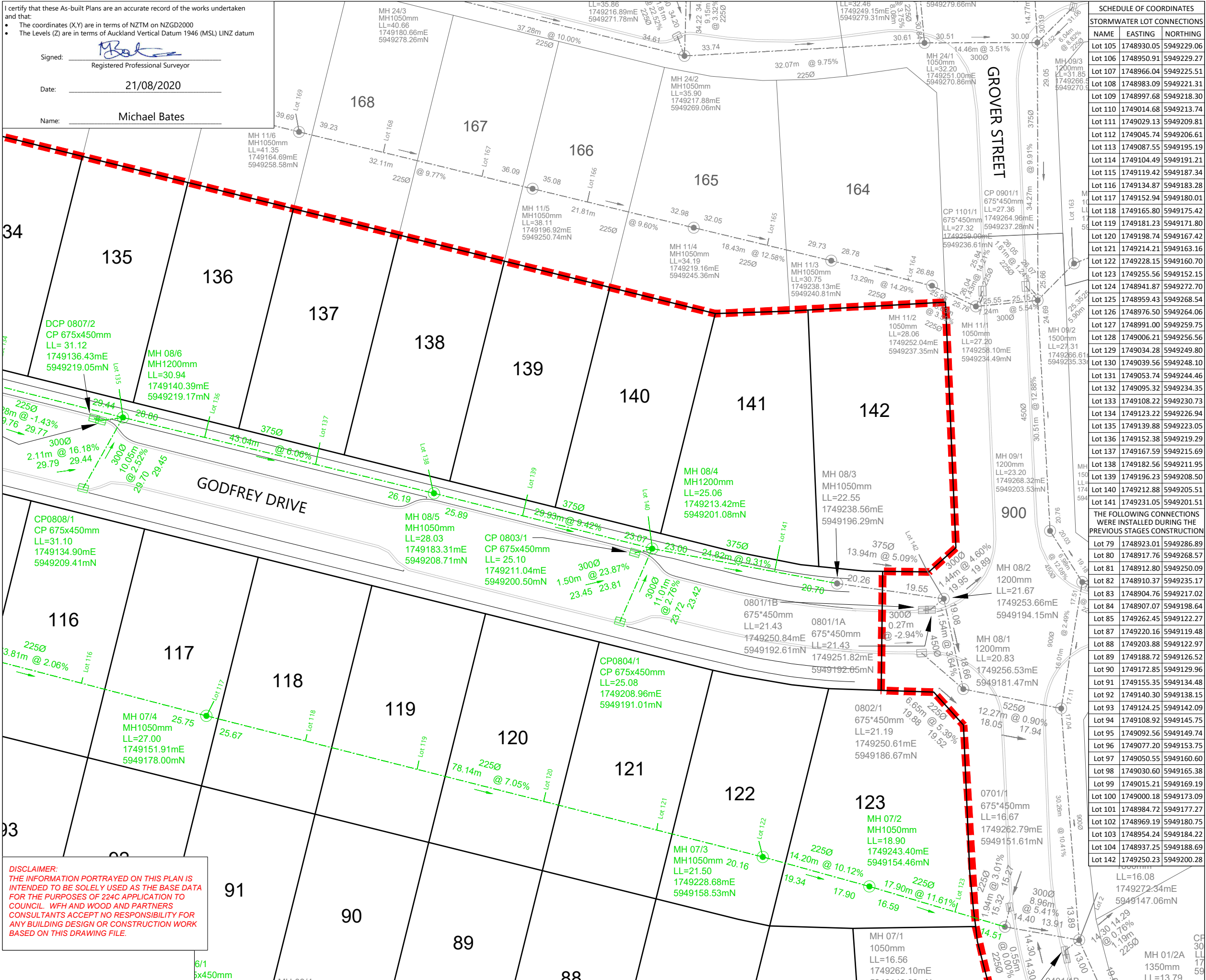
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Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



SCHEDULE OF COORDINATES		
NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06
Lot 106	1748950.91	5949229.27
Lot 107	1748966.04	5949225.51
Lot 108	1748983.09	5949221.31
Lot 109	1748997.68	5949218.30
Lot 110	1749014.68	5949213.74
Lot 111	1749029.13	5949209.81
Lot 112	1749045.74	5949206.61
Lot 113	1749087.55	5949195.19
Lot 114	1749104.49	5949191.21
Lot 115	1749119.42	5949187.34
Lot 116	1749134.87	5949183.28
Lot 117	1749152.94	5949180.01
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Lot 119	1749181.23	5949171.80
Lot 120	1749198.74	5949167.42
Lot 121	1749214.21	5949163.16
Lot 122	1749228.15	5949160.70
Lot 123	1749255.56	5949152.15
Lot 124	1748941.87	5949272.70
Lot 125	1748959.43	5949268.54
Lot 126	1748976.50	5949264.06
Lot 127	1748991.00	5949259.75
Lot 128	1749006.21	5949256.56
Lot 129	1749034.28	5949249.80
Lot 130	1749039.56	5949248.10
Lot 131	1749053.74	5949244.46
Lot 132	1749095.32	5949234.35
Lot 133	1749108.22	5949230.73
Lot 134	1749123.22	5949226.94
Lot 135	1749139.88	5949223.05
Lot 136	1749152.38	5949219.29
Lot 137	1749167.59	5949215.69
Lot 138	1749182.56	5949211.95
Lot 139	1749196.23	5949208.50
Lot 140	1749212.88	5949205.51
Lot 141	1749231.05	5949201.51
Lot 79	1748923.01	5949286.89
Lot 80	1748917.76	5949268.57
Lot 81	1748912.80	5949250.09
Lot 82	1748910.37	5949235.17
Lot 83	1748904.76	5949217.02
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Lot 96	1749077.20	5949153.75
Lot 97	1749050.55	5949160.60
Lot 98	1749030.60	5949165.38
Lot 99	1749015.21	5949169.19
Lot 100	1749000.18	5949173.09
Lot 101	1748984.72	5949177.27
Lot 102	1748969.19	5949180.75
Lot 103	1748954.24	5949184.22
Lot 104	1748937.25	5949188.69
Lot 142	1749250.23	5949200.28

**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- NEW STORMWATER
- EXISTING STORMWATER
- STAGE BOUNDARY

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**REVISION DETAILS**

NO	ISSUED FOR	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-303-AB	


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SCHEDULE OF COORDINATES		
NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06
Lot 106	1748950.91	5949229.27
Lot 107	1748966.04	5949225.51
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Lot 109	1748997.68	5949218.30
Lot 110	1749014.68	5949213.74
Lot 111	1749029.13	5949209.81
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Lot 115	1749119.42	5949187.34
Lot 116	1749134.87	5949183.28
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Lot 119	1749181.23	5949171.80
Lot 120	1749198.74	5949167.42
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Lot 122	1749228.15	5949160.70
Lot 123	1749255.56	5949152.15
Lot 124	1748941.87	5949272.70
Lot 125	1748959.43	5949268.54
Lot 126	1748976.50	5949264.06
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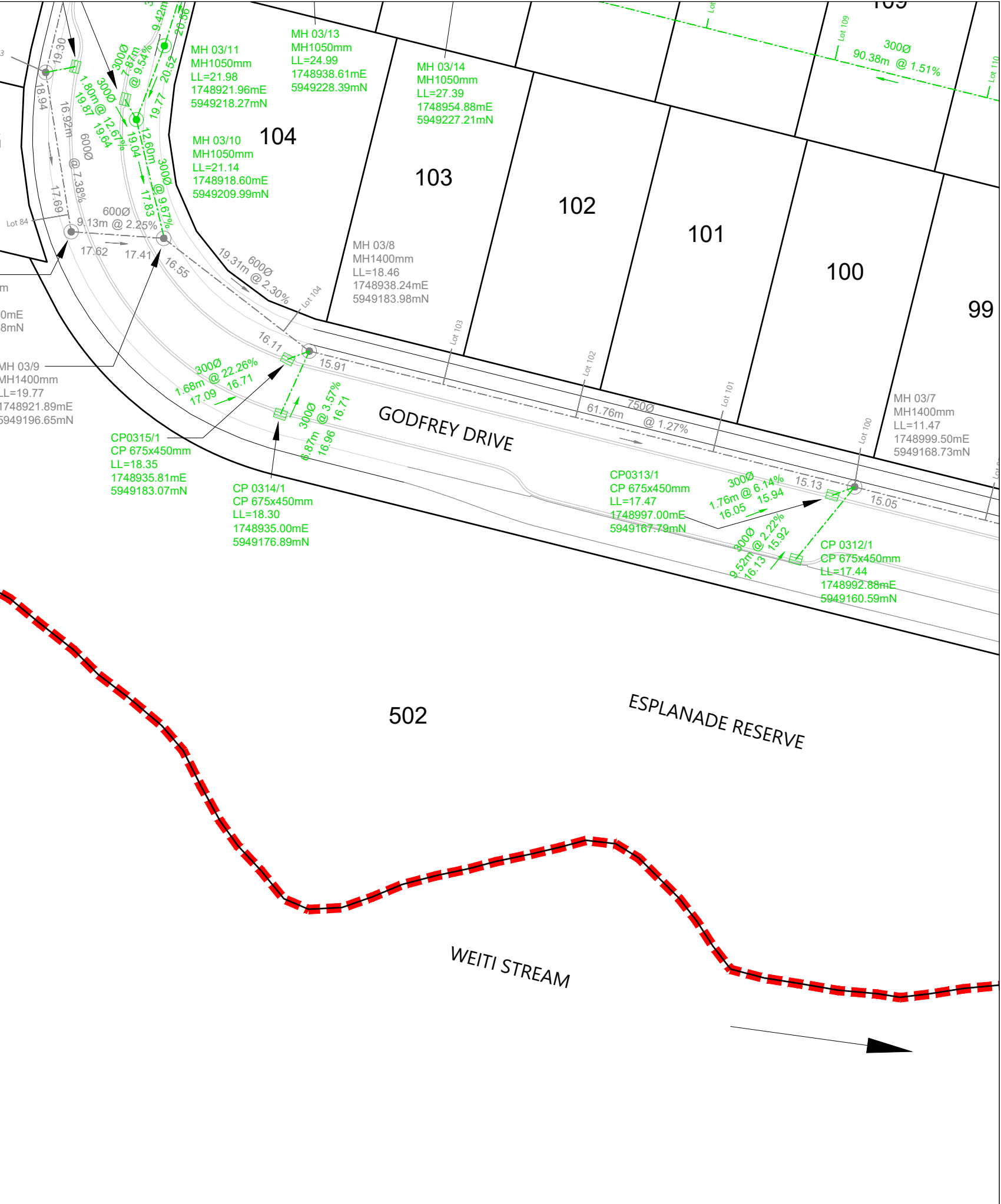
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Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



**LEGEND**

STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	

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**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-304-AB	

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Document No. C:\125\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_304\DRAWINGS\SURVA\ASBUILT\37502-02-304-STORMWATER.DWG






SCHEDULE OF COORDINATES		
NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06
Lot 106	1748950.91	5949229.27
Lot 107	1748966.04	5949225.51
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Lot 119	1749181.23	5949171.80
Lot 120	1749198.74	5949167.42
Lot 121	1749214.21	5949163.16
Lot 122	1749228.15	5949160.70
Lot 123	1749255.56	5949152.15
Lot 124	1748941.87	5949272.70
Lot 125	1748959.43	5949268.54
Lot 126	1748976.50	5949264.06
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Lot 132	1749095.32	5949234.35
Lot 133	1749108.22	5949230.73
Lot 134	1749123.22	5949226.94
Lot 135	1749139.88	5949223.05
Lot 136	1749152.38	5949219.29
Lot 137	1749167.59	5949215.69
Lot 138	1749182.56	5949211.95
Lot 139	1749196.23	5949208.50
Lot 140	1749212.88	5949205.51
Lot 141	1749231.05	5949201.51
Lot 79	1748923.01	5949286.89
Lot 80	1748917.76	5949268.57
Lot 81	1748912.80	5949250.09
Lot 82	1748910.37	5949235.17
Lot 83	1748904.76	5949217.02
Lot 84	1748907.07	5949198.64
Lot 85	1749262.45	5949122.27
Lot 87	1749220.16	5949119.48
Lot 88	1749203.88	5949122.97
Lot 89	1749188.72	5949126.52
Lot 90	1749172.85	5949129.96
Lot 91	1749155.35	5949134.48
Lot 92	1749140.30	5949138.15
Lot 93	1749124.25	5949142.09
Lot 94	1749108.92	5949145.75
Lot 95	1749092.56	5949149.74
Lot 96	1749077.20	5949153.75
Lot 97	1749050.55	5949160.60
Lot 98	1749030.60	5949165.38
Lot 99	1749015.21	5949169.19
Lot 100	1749000.18	5949173.09
Lot 101	1748984.72	5949177.27
Lot 102	1748969.19	5949180.75
Lot 103	1748954.24	5949184.22
Lot 104	1748937.25	5949188.69
Lot 142	1749250.23	5949200.28

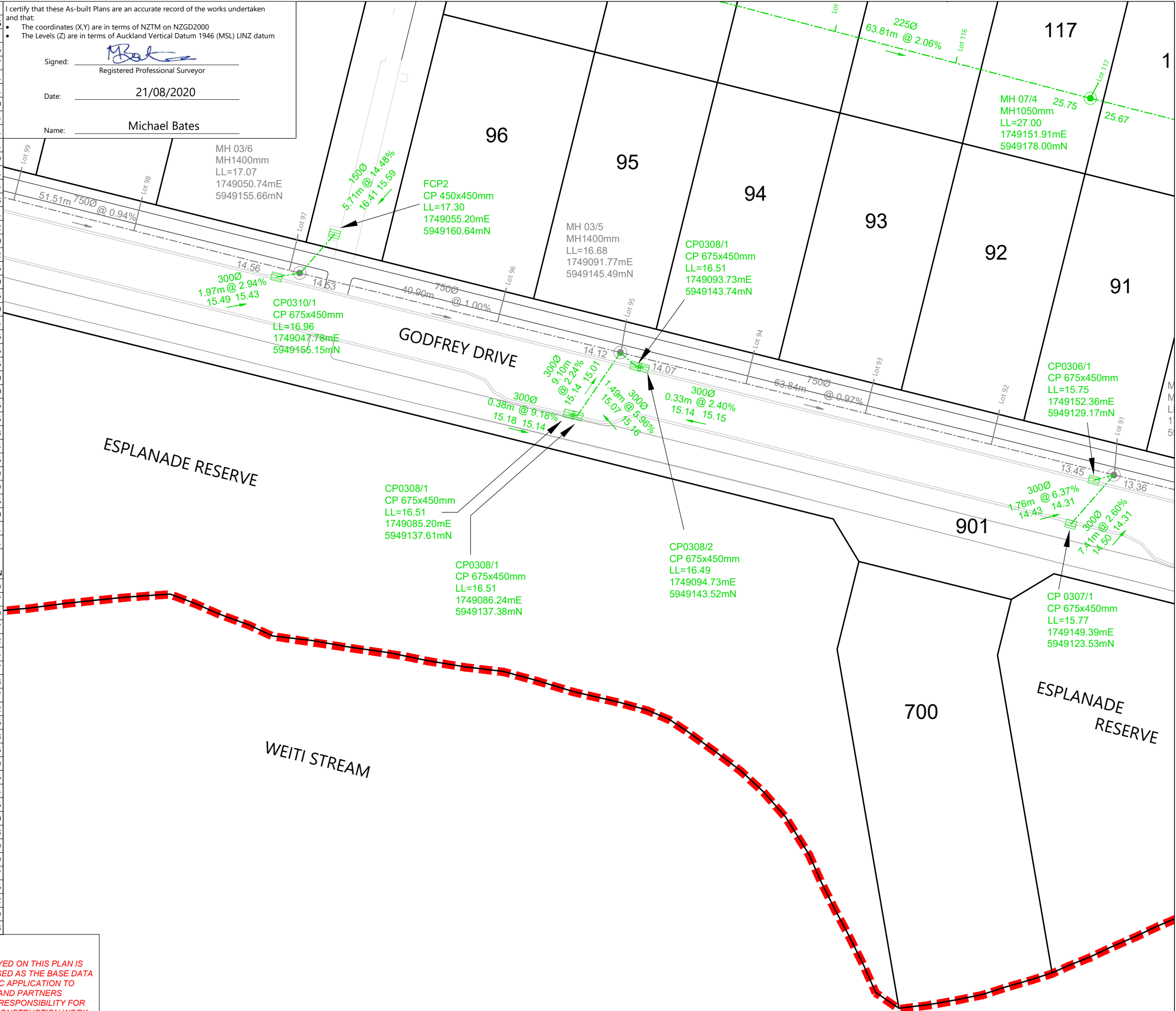
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 21/08/2020

Name: Michael Bates



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
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 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.
  - SOME INVERT LEVELS ARE MARK THE LEVELS AT THE ENTRY POINT OF DROP-PIPES INTO THE MH CHAMBER. THESE LEVELS HAVE BEEN CALCULATED FROM OBSERVATIONS TO THE TOP OF THE PIPE.

REVISION DETAILS		
NO	DESCRIPTION	DATE
1	ISSUED FOR INFORMATION	17/08/20
2	ISSUED FOR 224c	21/08/20

DESIGNED		WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
SURVEYED	WOODS	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-305-AB	


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SCHEDULE OF COORDINATES		
NAME	EASTING	NORTHING
Lot 105	1748930.05	5949229.06
Lot 106	1748950.91	5949229.27
Lot 107	1748966.04	5949225.51
Lot 108	1748983.09	5949221.31
Lot 109	1748997.68	5949218.30
Lot 110	1749014.68	5949213.74
Lot 111	1749029.13	5949209.81
Lot 112	1749045.74	5949206.61
Lot 113	1749087.55	5949195.19
Lot 114	1749104.49	5949191.21
Lot 115	1749119.42	5949187.34
Lot 116	1749134.87	5949183.28
Lot 117	1749152.94	5949180.01
Lot 118	1749165.80	5949175.42
Lot 119	1749181.23	5949171.80
Lot 120	1749198.74	5949167.42
Lot 121	1749214.21	5949163.16
Lot 122	1749228.15	5949160.70
Lot 123	1749255.56	5949152.15
Lot 124	1748941.87	5949272.70
Lot 125	1748959.43	5949268.54
Lot 126	1748976.50	5949264.06
Lot 127	1748991.00	5949259.75
Lot 128	1749006.21	5949256.56
Lot 129	1749034.28	5949249.80
Lot 130	1749039.56	5949248.10
Lot 131	1749053.74	5949244.46
Lot 132	1749095.32	5949234.35
Lot 133	1749108.22	5949230.73
Lot 134	1749123.22	5949226.94
Lot 135	1749139.88	5949223.05
Lot 136	1749152.38	5949219.29
Lot 137	1749167.59	5949215.69
Lot 138	1749182.56	5949211.95
Lot 139	1749196.23	5949208.50
Lot 140	1749212.88	5949205.51
Lot 141	1749231.05	5949201.51
Lot 79	1748923.01	5949286.89
Lot 80	1748917.76	5949268.57
Lot 81	1748912.80	5949250.09
Lot 82	1748910.37	5949235.17
Lot 83	1748904.76	5949217.02
Lot 84	1748907.07	5949198.64
Lot 85	1749262.45	5949122.27
Lot 87	1749220.16	5949119.48
Lot 88	1749203.88	5949122.97
Lot 89	1749188.72	5949126.52
Lot 90	1749172.85	5949129.96
Lot 91	1749155.35	5949134.48
Lot 92	1749140.30	5949138.15
Lot 93	1749124.25	5949142.09
Lot 94	1749108.92	5949145.75
Lot 95	1749092.56	5949149.74
Lot 96	1749077.20	5949153.75
Lot 97	1749050.55	5949160.60
Lot 98	1749030.60	5949165.38
Lot 99	1749015.21	5949169.19
Lot 100	1749000.18	5949173.09
Lot 101	1748984.72	5949177.27
Lot 102	1748969.19	5949180.75
Lot 103	1748954.24	5949184.22
Lot 104	1748937.25	5949188.69
Lot 142	1749250.23	5949200.28

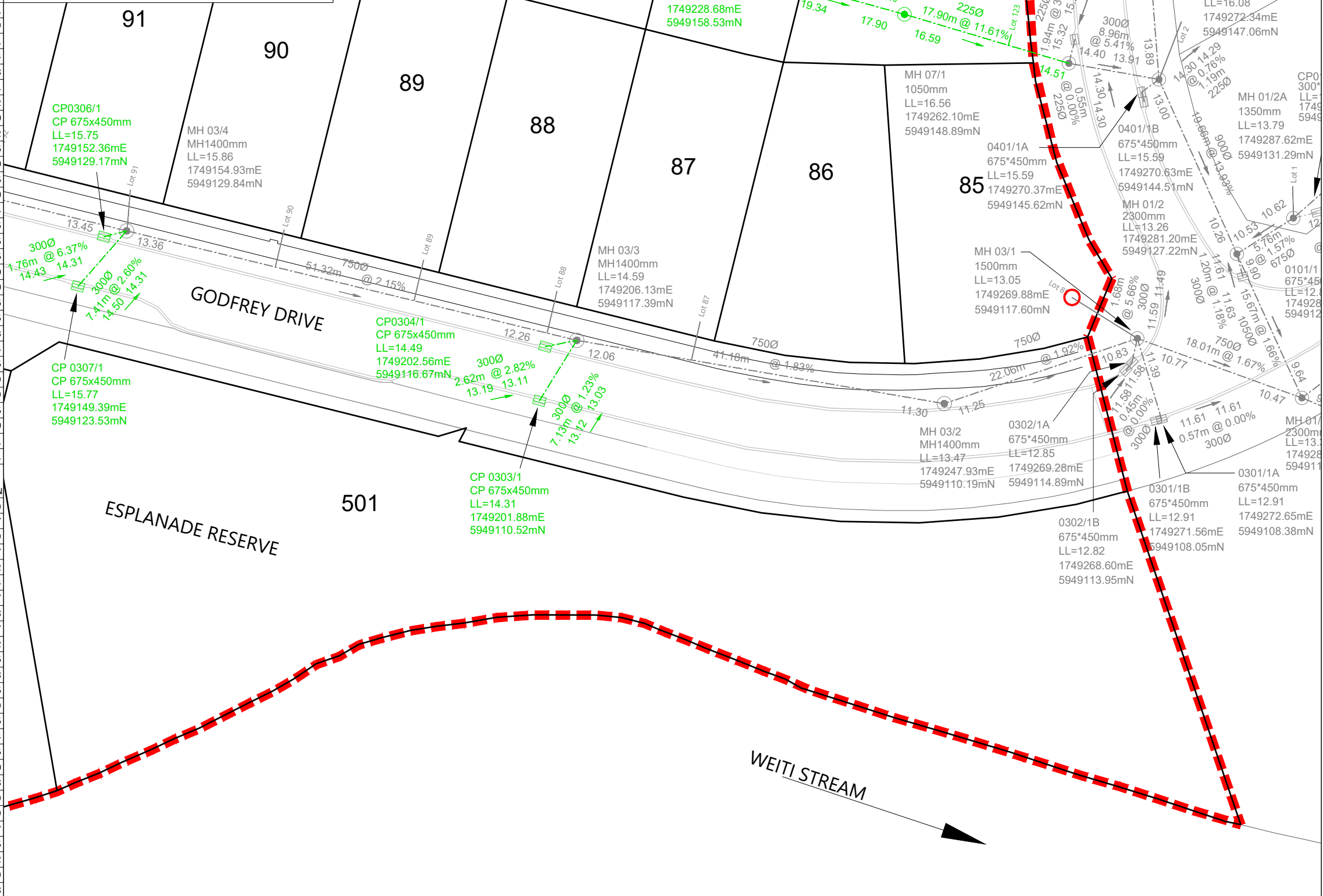
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
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 CARRIDGeways 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.
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REVISION DETAILS			
NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	BP	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**STORMWATER AS-BUILT  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-306-AB	

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NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38
Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
Lot 82	1748909.57	5949234.85
Lot 83	1748904.92	5949217.16
Lot 84	1748905.91	5949197.32
Lot 85	1749262.03	5949121.84
Lot 86	1749228.93	5949119.11
Lot 87	1749220.08	5949120.47
Lot 88	1749204.51	5949124.18
Lot 89	1749187.90	5949128.16
Lot 90	1749172.51	5949131.76
Lot 91	1749159.17	5949135.02
Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

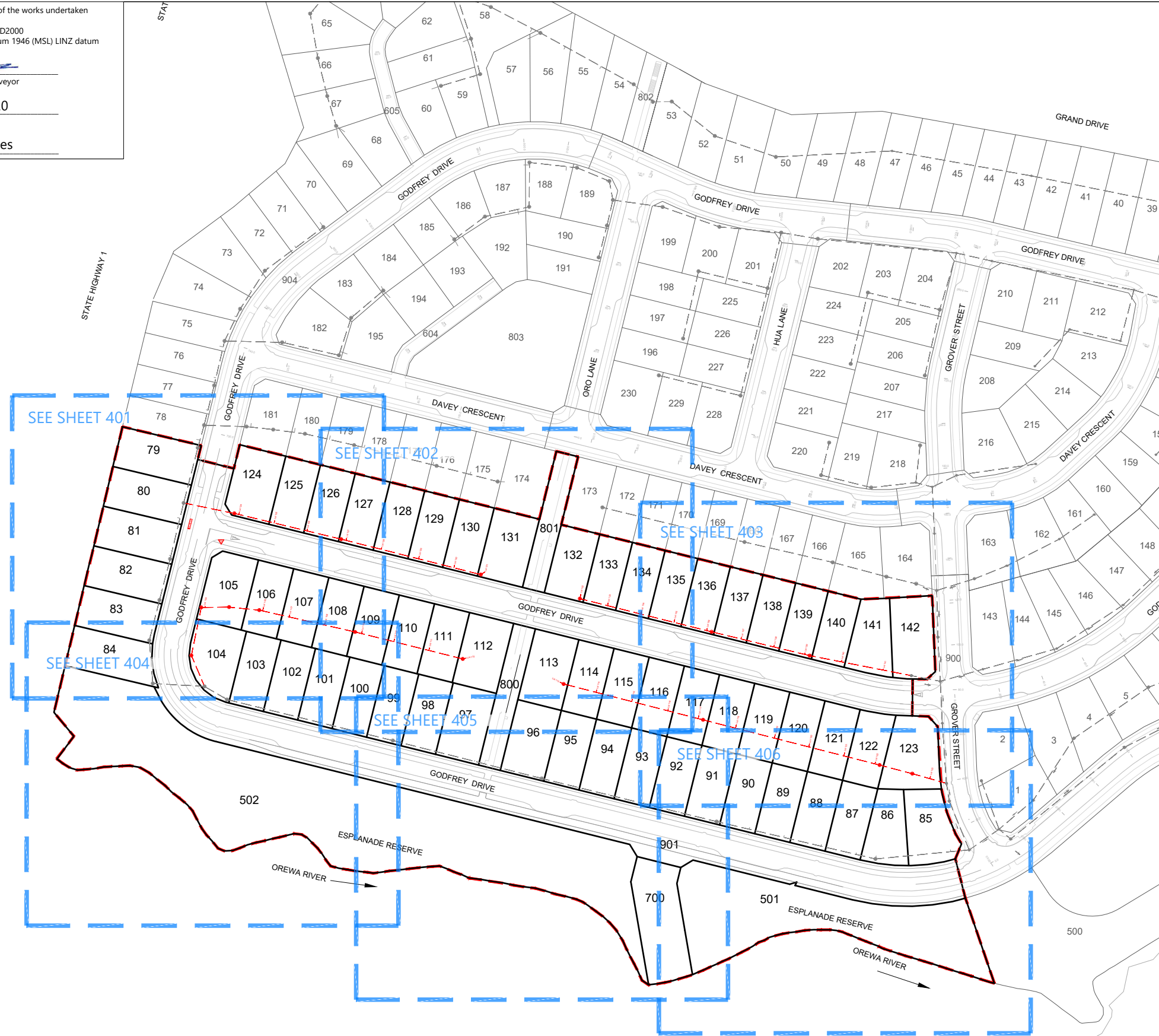
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING 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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REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	17/08/20
2	ISSUED FOR 224c		KR	21/08/20

SURVEYED	WOODS	WOODS Ltd
DESIGNED	MB	LEVEL 1 BUILDING B,
DRAWN	SK	8 NUGENT STREET, GRAFTON
CHECKED	AC	AUCKLAND 1023
APPROVED	MB	09 308 9229
		<a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>



## ARRAN HILL PRECINCT 5 STAGE 2

### WASTEWATER AS-BUILT OVERALL LAYOUT SHEET 1 OF 7

STATUS	AS BUILT	REV
SCALE	1:2000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-400-AB	

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Document No. C:\1205\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURVA\ASBUILT\37502-02-400-SEWER.DWG

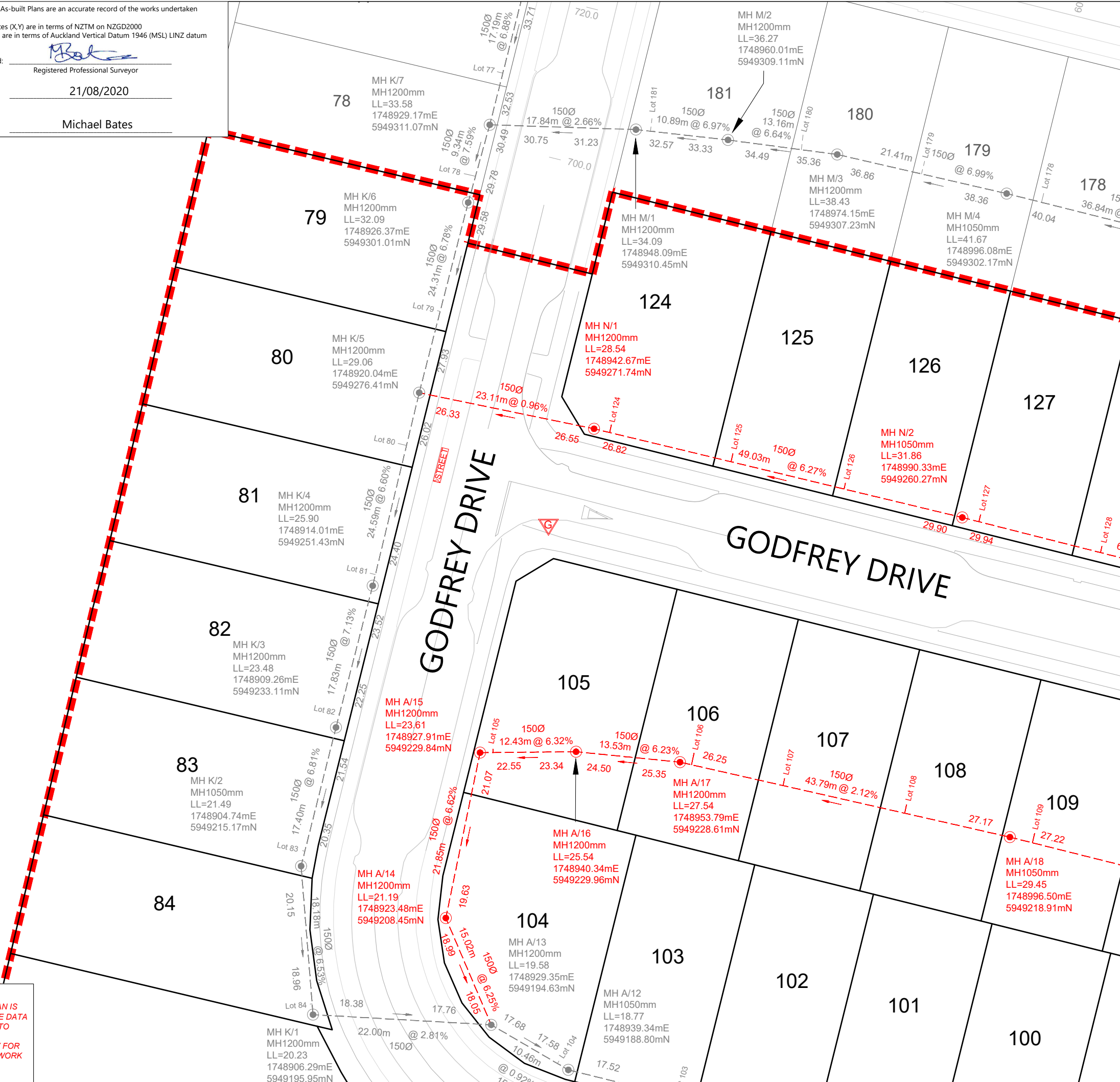


NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38
Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
Lot 82	1748909.57	5949234.85
Lot 83	1748904.92	5949217.16
Lot 84	1748905.91	5949197.32
Lot 85	1749262.03	5949121.84
Lot 86	1749228.93	5949119.11
Lot 87	1749220.08	5949120.47
Lot 88	1749204.51	5949124.18
Lot 89	1749187.90	5949128.16
Lot 90	1749172.51	5949131.76
Lot 91	1749159.17	5949135.02
Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

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Signed:   
 Registered Professional Surveyor  
 Date: 21/08/2020  
 Name: Michael Bates



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

- NOTES**
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REVISION DETAILS		
	BY	DATE
1	ISSUED FOR INFORMATION	KR 17/08/20
2	ISSUED FOR 224c	KR 21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

WASTEWATER AS-BUILT  
SHEET 2 OF 7

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-401-AB	

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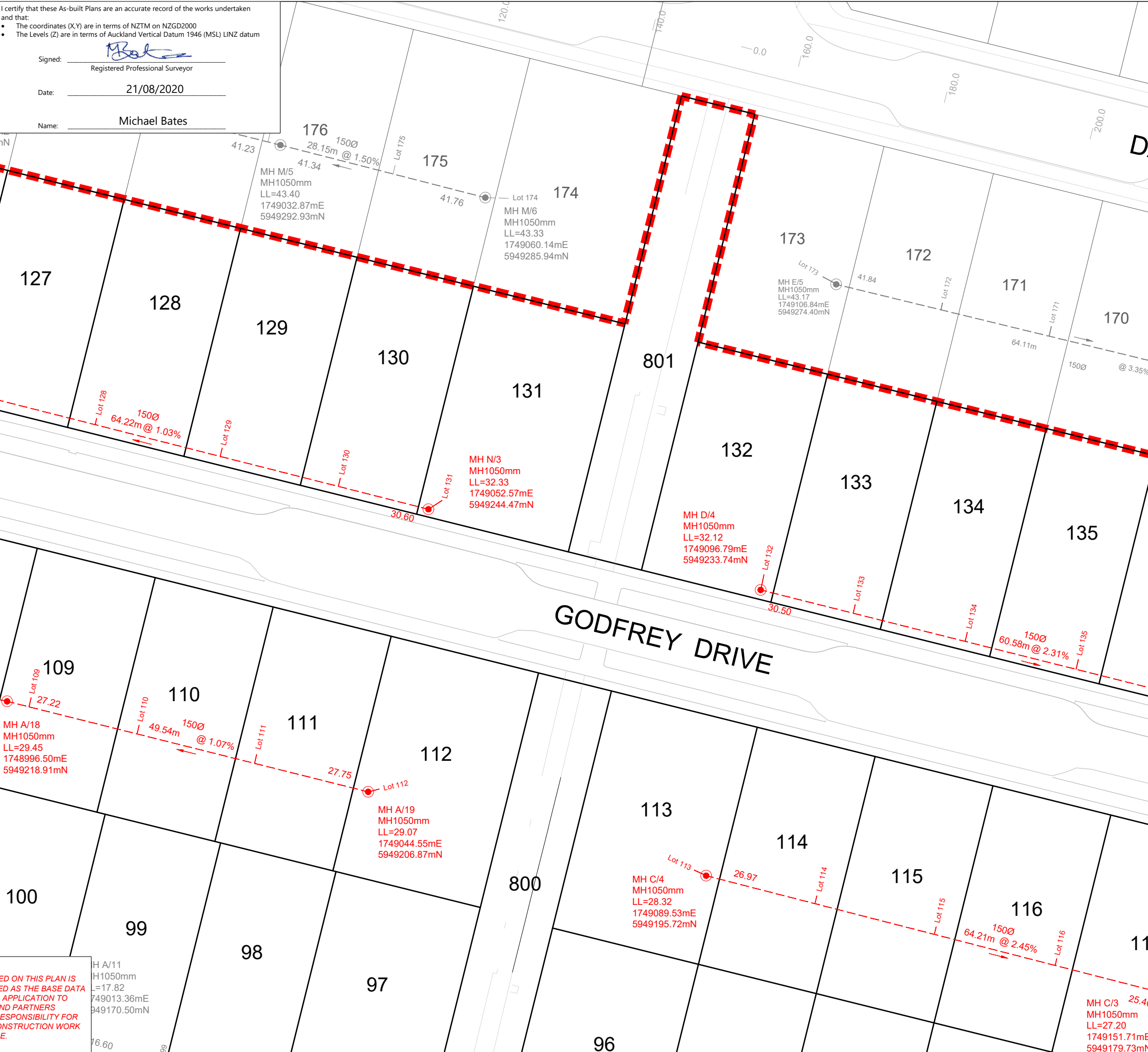




NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38

NAME	EASTING	NORTHING
Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
Lot 82	1748909.57	5949234.85
Lot 83	1748904.92	5949217.16
Lot 84	1748905.91	5949197.32
Lot 85	1749262.03	5949121.84
Lot 86	1749228.93	5949119.11
Lot 87	1749220.08	5949120.47
Lot 88	1749204.51	5949124.18
Lot 89	1749187.90	5949128.16
Lot 90	1749172.51	5949131.76
Lot 91	1749159.17	5949135.02
Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

**DISCLAIMER:**  
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LEGEND	
NEW SANITARY SEWER MANHOLE	●
NEW SANITARY SEWER	---
EXISTING 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.
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  - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**WASTEWATER AS-BUILT  
SHEET 3 OF 7**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-402-AB	

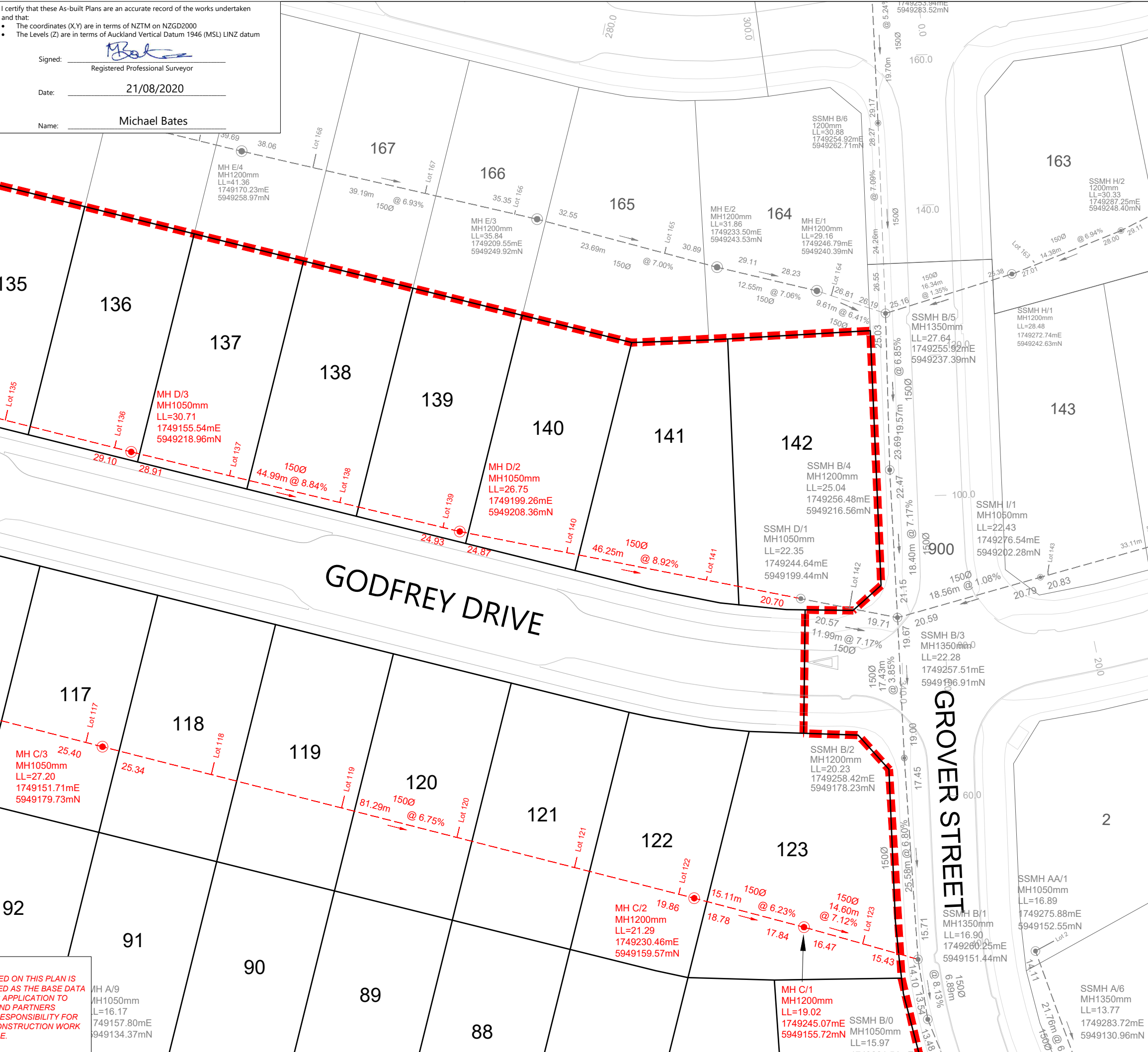
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NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38

NAME	EASTING	NORTHING
Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
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Lot 83	1748904.92	5949217.16
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Lot 86	1749228.93	5949119.11
Lot 87	1749220.08	5949120.47
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Lot 90	1749172.51	5949131.76
Lot 91	1749159.17	5949135.02
Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

NAME	EASTING	NORTHING
MH A/9	1749157.80mE	5949134.37mN



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: 21/08/2020

Name: Michael Bates

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

- NOTES**
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REVISION DETAILS			BY	DATE
1	ISSUED FOR INFORMATION		KR	17/08/20
2	ISSUED FOR 224c		KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**WASTEWATER AS-BUILT  
SHEET 4 OF 7**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-403-AB	

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NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38

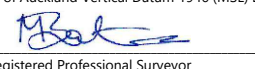
THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION

Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
Lot 82	1748909.57	5949234.85
Lot 83	1748904.92	5949217.16
Lot 84	1748905.91	5949197.32
Lot 85	1749262.03	5949121.84
Lot 86	1749228.93	5949119.11
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Lot 88	1749204.51	5949124.18
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Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

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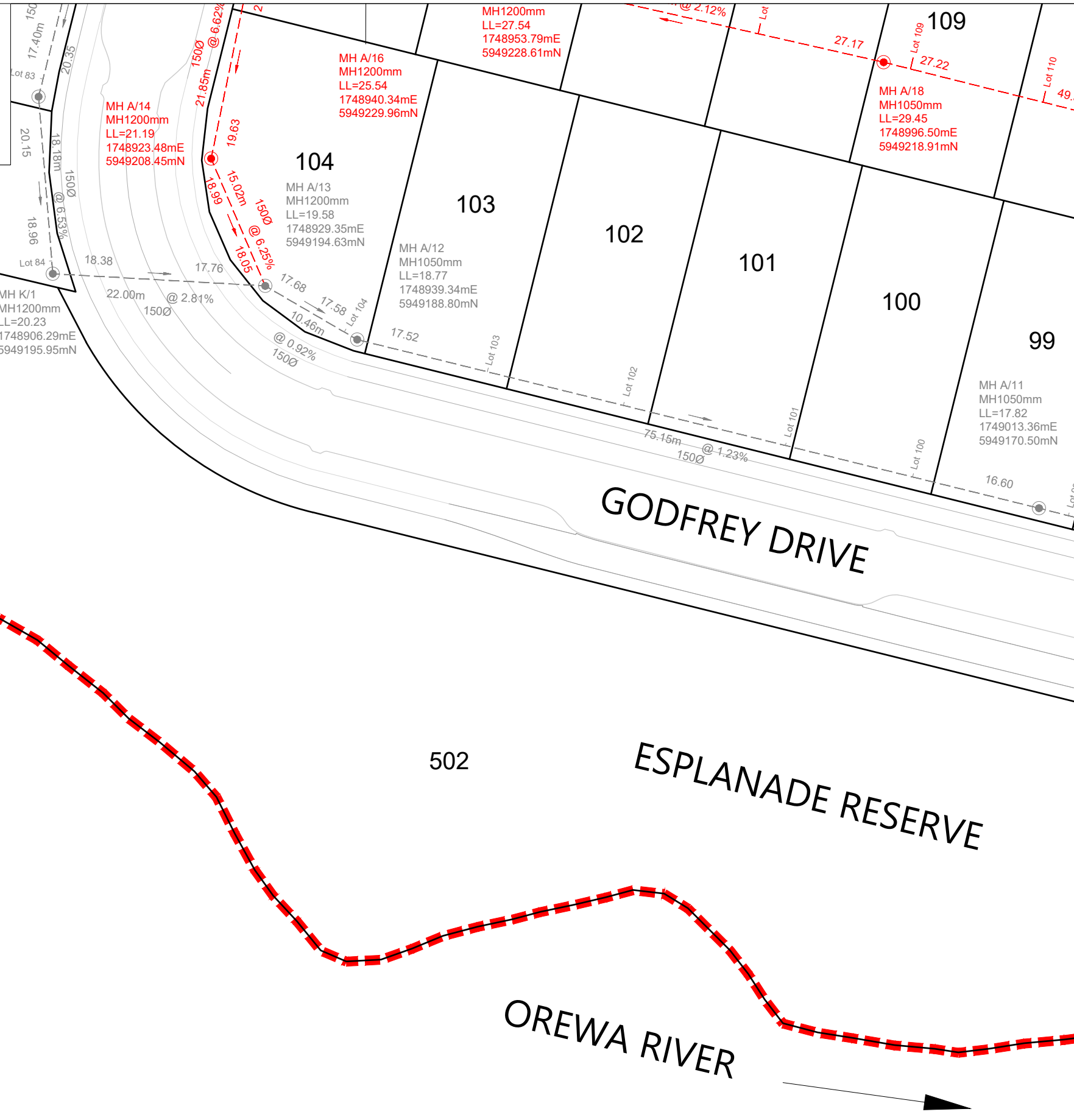
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 21/08/2020

Name: Michael Bates



**LEGEND**

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

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**REVISION DETAILS**

	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/08/20
2 ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
 STAGE 2**

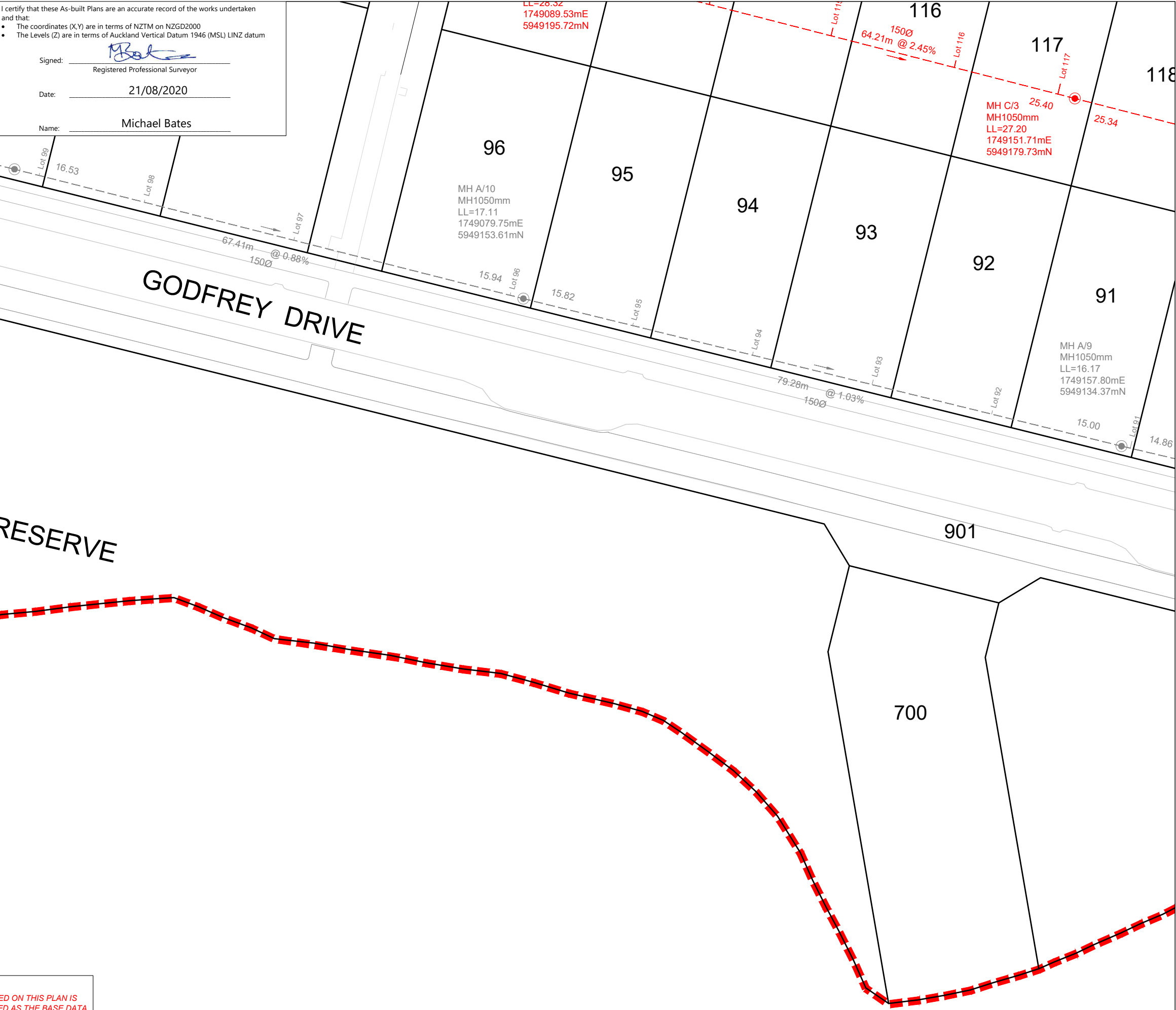
WASTEWATER AS-BUILT  
 SHEET 5 OF 7

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-404-AB	



NAME	EASTING	NORTHING
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
Lot 111	1749029.71	5949211.83
Lot 112	1749046.02	5949207.24
Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
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Lot 132	1749097.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
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NAME	EASTING	NORTHING
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Lot 85	1749262.03	5949121.84
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Lot 98	1749030.36	5949166.48
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Lot 100	1748999.73	5949174.25
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Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47



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Signed: Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

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

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/08/20
2 ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**WASTEWATER AS-BUILT  
SHEET 6 OF 7**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-405-AB	

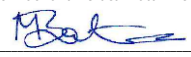
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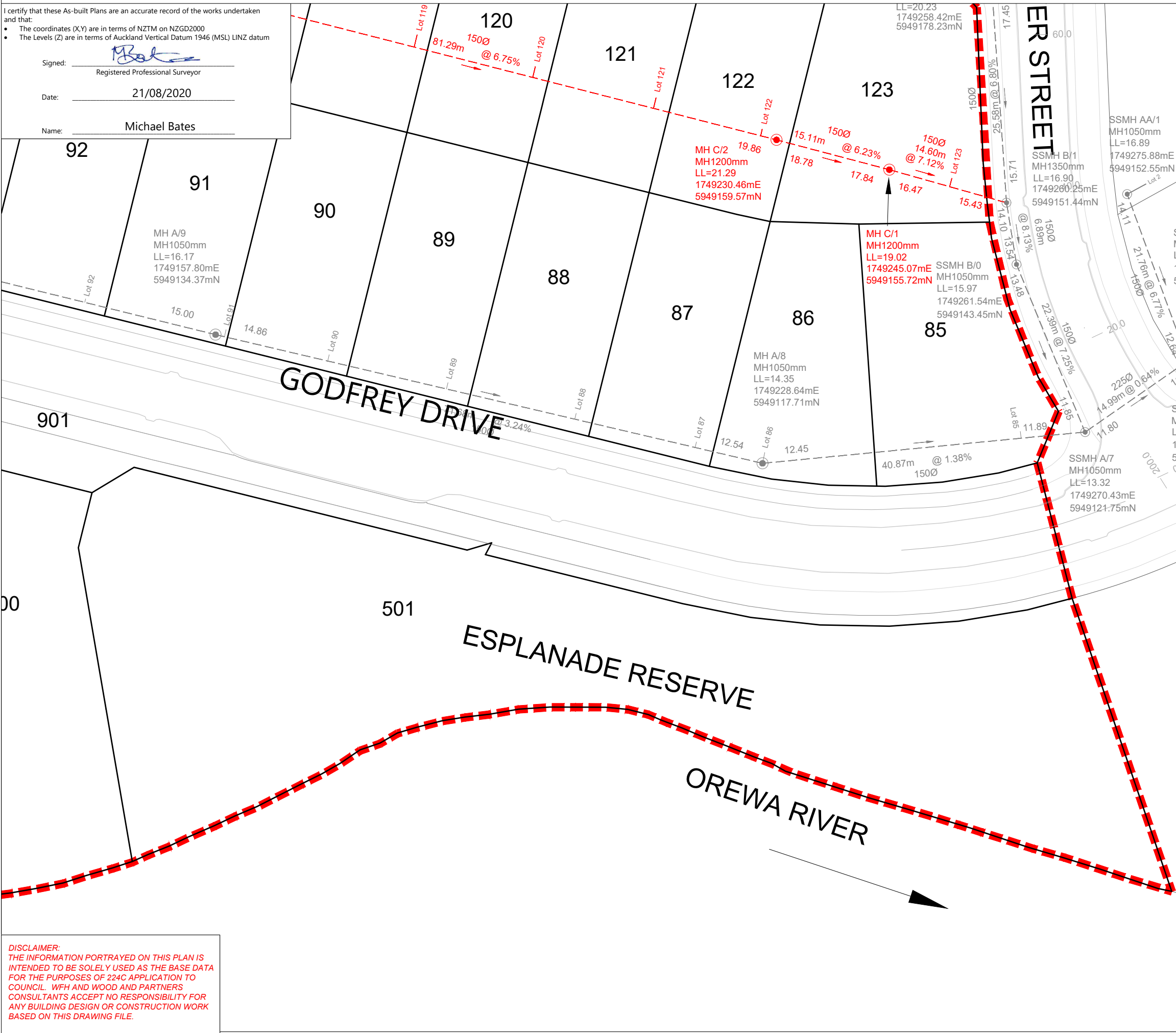
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Signed:   
 Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates



SCHEDULE OF COORDINATES		
NAME	EASTING	NORTHING
<b>WASTEWATER LOT CONNECTIONS</b>		
Lot 105	1748929.59	5949230.31
Lot 106	1748955.62	5949229.77
Lot 107	1748967.34	5949226.51
Lot 108	1748983.12	5949223.10
Lot 109	1748999.71	5949219.40
Lot 110	1749014.08	5949215.75
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Lot 113	1749087.95	5949196.47
Lot 114	1749104.27	5949193.03
Lot 115	1749120.15	5949188.92
Lot 116	1749136.20	5949184.66
Lot 117	1749149.83	5949181.62
Lot 118	1749166.59	5949177.64
Lot 119	1749183.91	5949173.17
Lot 120	1749199.22	5949169.04
Lot 121	1749214.86	5949165.02
Lot 122	1749228.61	5949160.95
Lot 123	1749253.18	5949154.60
Lot 124	1748944.92	5949272.25
Lot 125	1748960.64	5949268.52
Lot 126	1748975.21	5949264.72
Lot 127	1748992.71	5949260.63
Lot 128	1749008.42	5949256.55
Lot 129	1749025.13	5949252.60
Lot 130	1749040.86	5949248.61
Lot 131	1749054.38	5949245.64
Lot 132	1749079.23	5949235.75
Lot 133	1749109.38	5949231.78
Lot 134	1749124.29	5949228.10
Lot 135	1749139.08	5949224.49
Lot 136	1749153.55	5949220.45
Lot 137	1749168.79	5949216.52
Lot 138	1749183.45	5949212.91
Lot 139	1749197.17	5949209.54
Lot 140	1749213.62	5949206.24
Lot 141	1749232.19	5949202.38
Lot 79	1748922.38	5949287.02
Lot 80	1748917.30	5949269.85
Lot 81	1748913.67	5949253.06
Lot 82	1748909.57	5949234.85
Lot 83	1748904.92	5949217.16
Lot 84	1748905.91	5949197.32
Lot 85	1749262.03	5949121.84
Lot 86	1749228.93	5949119.11
Lot 87	1749220.08	5949120.47
Lot 88	1749204.51	5949124.18
Lot 89	1749187.90	5949128.16
Lot 90	1749172.51	5949131.76
Lot 91	1749159.17	5949135.02
Lot 92	1749140.97	5949139.00
Lot 93	1749125.41	5949143.02
Lot 94	1749109.75	5949146.66
Lot 95	1749094.10	5949150.42
Lot 96	1749078.10	5949154.38
Lot 97	1749049.90	5949161.61
Lot 98	1749030.36	5949166.48
Lot 99	1749016.64	5949169.98
Lot 100	1748999.73	5949174.25
Lot 101	1748985.90	5949177.57
Lot 102	1748968.32	5949182.00
Lot 103	1748953.57	5949185.72
Lot 104	1748938.12	5949189.95
Lot 142	1749251.52	5949200.47

LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING 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.
  - SOME INVERT LEVELS ARE MARK THE LEVELS AT THE ENTRY POINT OF DROP-PIPES INTO THE MH CHAMBER. THESE LEVELS HAVE BEEN CALCULATED FROM OBSERVATIONS TO THE TOP OF THE PIPE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**WASTEWATER AS-BUILT  
SHEET 7 OF 7**

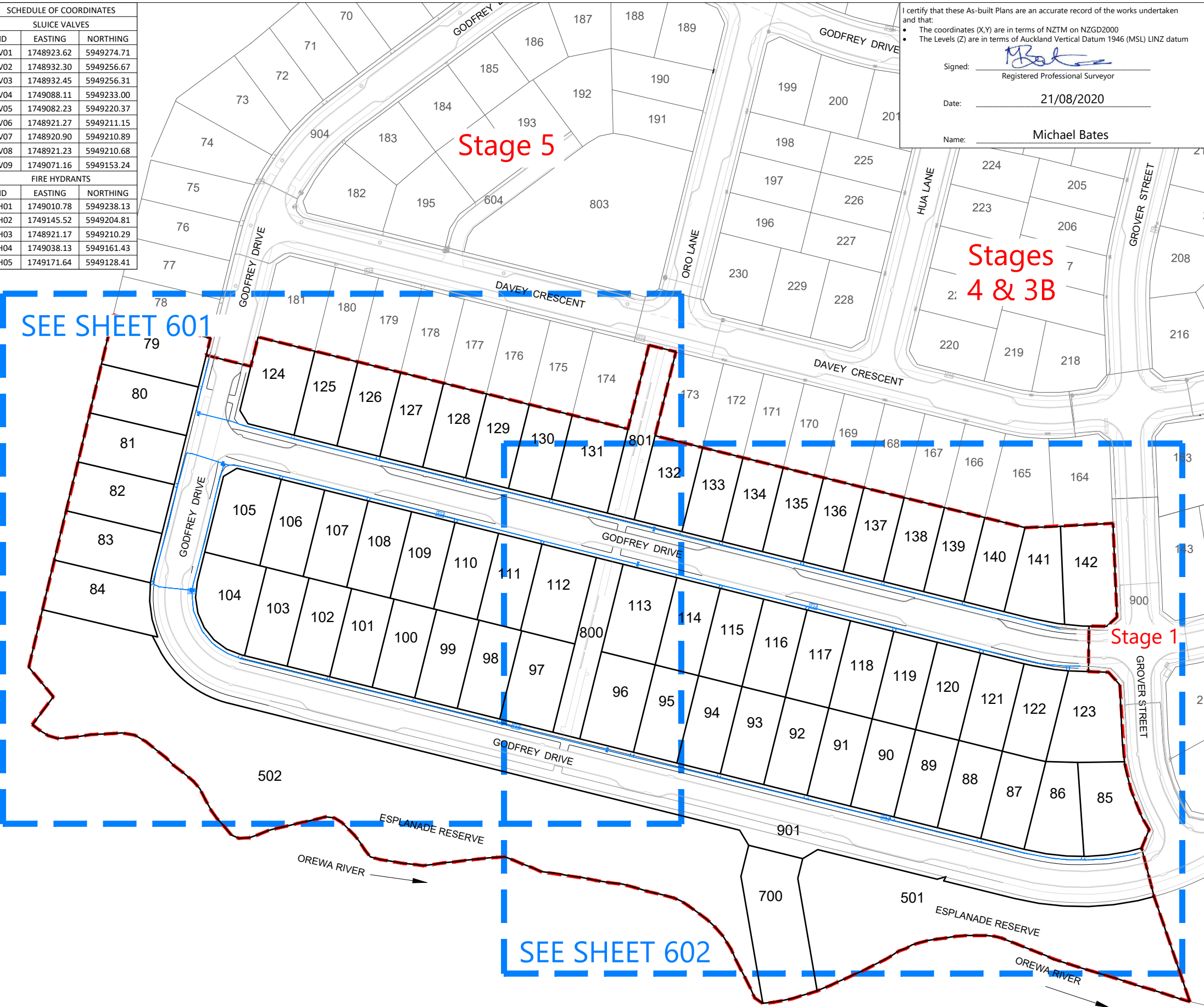
STATUS	AS BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-406-AB	

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

Document No. C:\1205\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\URV\ASBUILTS\37502-02-406-SEWER.DWG




SCHEDULE OF COORDINATES			SCHEDULE OF COORDINATES		
LOT CONNECTIONS			SLUICE VALVES		
ID	EASTING	NORTHING	ID	EASTING	NORTHING
WM79	1748924.14	5949284.67	SV01	1748923.62	5949274.71
WM80	1748923.92	5949283.80	SV02	1748932.30	5949256.67
WM81	1748915.37	5949249.37	SV03	1748932.45	5949256.31
WM82	1748915.14	5949248.23	SV04	1749088.11	5949233.00
WM83	1748906.63	5949213.92	SV05	1749082.23	5949220.37
WM84	1748906.52	5949212.77	SV06	1748921.27	5949211.15
WM85	1749243.74	5949114.05	SV07	1748920.90	5949210.89
WM86	1749242.58	5949114.19	SV08	1748921.23	5949210.68
WM87	1749206.52	5949120.20	SV09	1749071.16	5949153.24
WM88	1749204.89	5949120.77	FIRE HYDRANTS		
WM89	1749175.00	5949128.31	ID	EASTING	NORTHING
WM90	1749173.58	5949128.77	FH01	1749010.78	5949238.13
WM91	1749143.86	5949135.92	FH02	1749145.52	5949204.81
WM92	1749142.42	5949136.39	FH03	1748921.17	5949210.29
WM93	1749112.23	5949143.80	FH04	1749038.13	5949161.43
WM94	1749111.10	5949144.26	FH05	1749171.64	5949128.41
WM95	1749080.93	5949151.61			
WM96	1749079.62	5949151.87			
WM97	1749032.35	5949163.49			
WM98	1749031.47	5949163.82			
WM99	1749001.81	5949171.23			
WM100	1749001.19	5949171.53			
WM101	1748970.98	5949179.08			
WM102	1748970.20	5949179.33			
WM103	1748939.34	5949186.83			
WM104	1748938.18	5949187.24			
WM105	1748952.81	5949251.42			
WM106	1748953.81	5949251.24			
WM107	1748984.38	5949243.65			
WM108	1748985.35	5949243.54			
WM109	1749015.87	5949235.83			
WM110	1749016.85	5949235.61			
WM111	1749047.22	5949228.09			
WM112	1749048.23	5949227.84			
WM113	1749095.97	5949216.07			
WM114	1749111.54	5949212.14			
WM115	1749112.50	5949211.71			
WM116	1749142.88	5949204.26			
WM117	1749143.82	5949204.08			
WM118	1749174.29	5949196.49			
WM119	1749175.40	5949196.34			
WM120	1749205.48	5949188.70			
WM121	1749207.06	5949188.31			
WM122	1749237.08	5949182.25			
WM123	1749238.22	5949181.90			
WM124	1748957.09	5949266.60			
WM125	1748958.14	5949266.38			
WM126	1748987.80	5949258.96			
WM127	1748988.89	5949258.69			
WM128	1749019.31	5949251.29			
WM129	1749020.38	5949250.87			
WM130	1749050.44	5949243.45			
WM131	1749051.40	5949243.12			
WM132	1749097.51	5949231.63			
WM133	1749111.75	5949228.10			
WM134	1749112.91	5949227.85			
WM135	1749141.12	5949220.93			
WM136	1749142.16	5949220.63			
WM137	1749170.25	5949213.61			
WM138	1749171.27	5949213.33			
WM139	1749199.48	5949206.39			
WM140	1749200.37	5949206.01			
CONNECTIONS INSTALLED DURING PREVIOUS STAGES					
WM 141	1749235.57	5949198.15			
WM 142	1749236.94	5949198.27			



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: 21/08/2020

Name: Michael Bates

- 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 APPROXIMATELY 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	—
WATERMAIN	—
SLUICE VALVE	⊠
FIRE HYDRANT	FH#
LOT CONNECTION	— WM#
STAGE BOUNDARY	---

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	SK	
CHECKED	AC	
APPROVED	MB	



**MILLWATER PRECINCT 5  
OREWA WEST  
STAGE 2**

**WATERMAIN AS-BUILT  
SHEET 1 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-05-600-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 AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Document No. C:\1205\ENERGY\DATA\WIP-PEN-APP-01\137502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURV\ASBUILTS\37502-05-600-WATERMAIN.DWG





SCHEDULE OF COORDINATES			SCHEDULE OF COORDINATES		
LOT CONNECTIONS			SLUICE VALVES		
ID	EASTING	NORTHING	ID	EASTING	NORTHING
WM79	1748924.14	5949284.67	SV01	1748923.62	5949274.71
WM80	1748923.92	5949283.80	SV02	1748932.30	5949256.67
WM81	1748915.37	5949249.37	SV03	1748932.45	5949256.31
WM82	1748915.14	5949248.23	SV04	1749088.11	5949233.00
WM83	1748906.63	5949213.92	SV05	1749082.23	5949220.37
WM84	1748906.52	5949212.77	SV06	1748921.27	5949211.15
WM85	1749243.74	5949114.05	SV07	1748920.90	5949210.89
WM86	1749242.58	5949114.19	SV08	1748921.23	5949210.68
WM87	1749206.52	5949120.20	SV09	1749071.16	5949153.24
WM88	1749204.89	5949120.77	FIRE HYDRANTS		
WM89	1749175.00	5949128.31	ID	EASTING	NORTHING
WM90	1749173.58	5949128.77	FH01	1749010.78	5949238.13
WM91	1749143.86	5949135.92	FH02	1749145.52	5949204.81
WM92	1749142.42	5949136.39	FH03	1748921.17	5949210.29
WM93	1749112.23	5949143.80	FH04	1749038.13	5949161.43
WM94	1749111.10	5949144.26	FH05	1749171.64	5949128.41
WM95	1749080.93	5949151.61			
WM96	1749079.62	5949151.87			
WM97	1749032.35	5949163.49			
WM98	1749031.47	5949163.82			
WM99	1749001.81	5949171.23			
WM100	1749001.19	5949171.53			
WM101	1748970.98	5949179.08			
WM102	1748970.20	5949179.33			
WM103	1748939.34	5949186.83			
WM104	1748938.18	5949187.24			
WM105	1748952.81	5949251.42			
WM106	1748953.81	5949251.24			
WM107	1748984.38	5949243.65			
WM108	1748985.35	5949243.54			
WM109	1749015.87	5949235.83			
WM110	1749016.85	5949235.61			
WM111	1749047.22	5949228.09			
WM112	1749048.23	5949227.84			
WM113	1749095.97	5949216.07			
WM114	1749111.54	5949212.14			
WM115	1749112.50	5949211.71			
WM116	1749142.88	5949204.26			
WM117	1749143.82	5949204.08			
WM118	1749174.29	5949196.49			
WM119	1749175.40	5949196.34			
WM120	1749205.48	5949188.70			
WM121	1749207.06	5949188.31			
WM122	1749237.08	5949182.25			
WM123	1749238.22	5949181.90			
WM124	1748957.09	5949266.60			
WM125	1748958.14	5949266.38			
WM126	1748987.80	5949258.96			
WM127	1748988.89	5949258.69			
WM128	1749019.31	5949251.29			
WM129	1749020.38	5949250.87			
WM130	1749050.44	5949243.45			
WM131	1749051.40	5949243.12			
WM132	1749097.51	5949231.63			
WM133	1749111.75	5949228.10			
WM134	1749112.91	5949227.85			
WM135	1749141.12	5949220.93			
WM136	1749142.16	5949220.63			
WM137	1749170.25	5949213.61			
WM138	1749171.27	5949213.33			
WM139	1749199.48	5949206.39			
WM140	1749200.37	5949206.01			
CONNECTIONS INSTALLED DURING PREVIOUS STAGES					
WM 141	1749235.57	5949198.15			
WM 142	1749236.94	5949198.27			



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: Michael Bates  
Registered Professional Surveyor

Date: 21/08/2020

Name: Michael Bates

- 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 APPROXIMATELY 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	—
WATERMAIN	—
SLUICE VALVE	⊕
FIRE HYDRANT	FH
LOT CONNECTION	— WM#
STAGE BOUNDARY	- - -

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

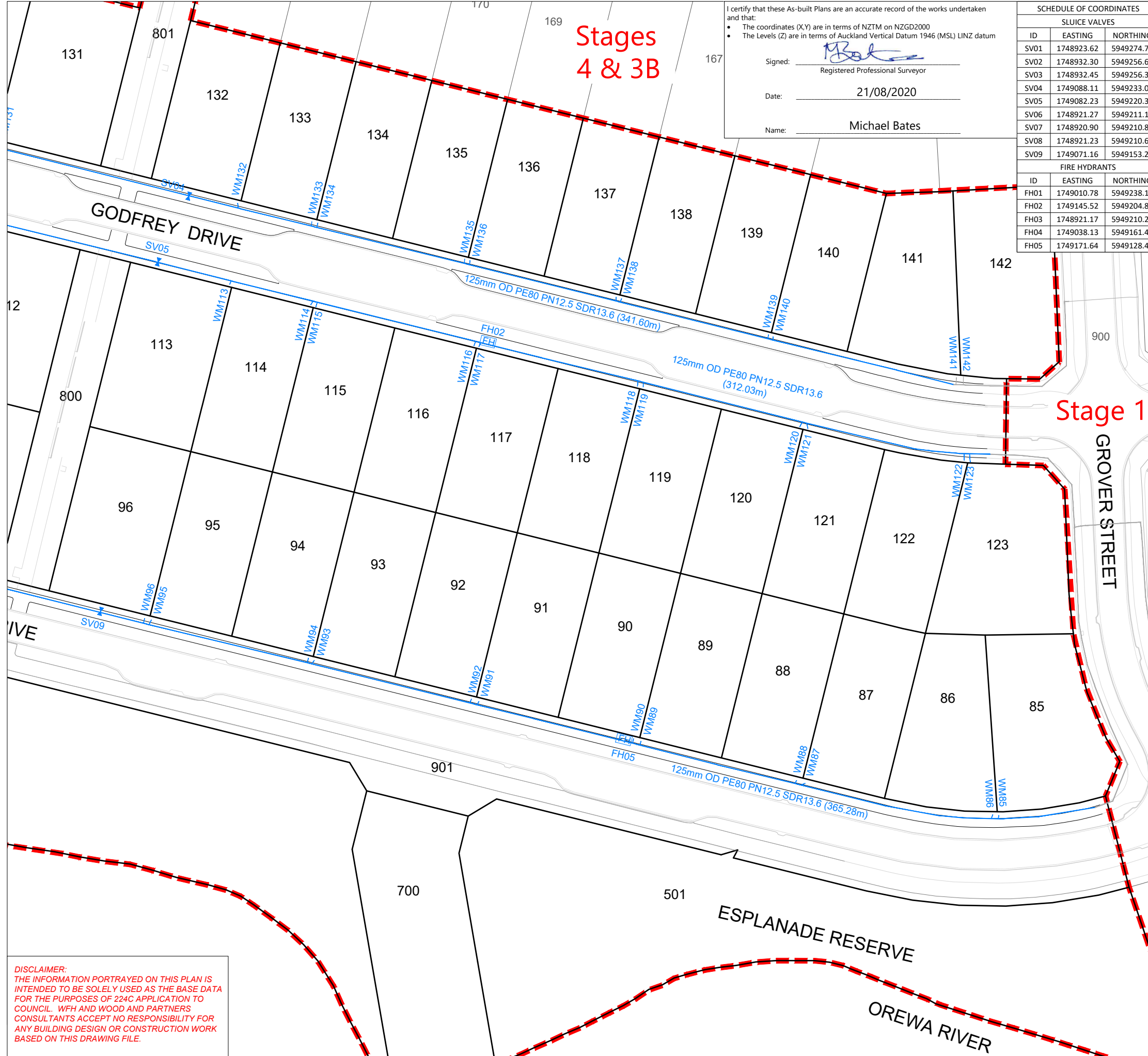


**MILLWATER PRECINCT 5  
OREWA WEST  
STAGE 2  
WATERMAIN AS-BUILT  
SHEET 2 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-05-601-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 AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Document No. C:\1205\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\ASBUILT\37502-05-600-WATERMAIN.DWG



Stages  
4 & 3B

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: 21/08/2020

Name: Michael Bates

SCHEDULE OF COORDINATES				SCHEDULE OF COORDINATES			
SLUICE VALVES				LOT CONNECTIONS			
ID	EASTING	NORTHING		ID	EASTING	NORTHING	
SV01	1748923.62	5949274.71		WM79	1748924.14	5949284.67	
SV02	1748932.30	5949256.67		WM80	1748923.92	5949283.80	
SV03	1748932.45	5949256.31		WM81	1748915.37	5949249.37	
SV04	1749088.11	5949233.00		WM82	1748915.14	5949248.23	
SV05	1749082.23	5949220.37		WM83	1748906.63	5949213.92	
SV06	1748921.27	5949211.15		WM84	1748906.52	5949212.77	
SV07	1748920.90	5949210.89		WM85	1749243.74	5949114.05	
SV08	1748921.23	5949210.68		WM86	1749242.58	5949114.19	
SV09	1749071.16	5949153.24		WM87	1749206.52	5949120.20	

FIRE HYDRANTS			
ID	EASTING	NORTHING	
FH01	1749010.78	5949238.13	
FH02	1749145.52	5949204.81	
FH03	1748921.17	5949210.29	
FH04	1749038.13	5949161.43	
FH05	1749171.64	5949128.41	

- 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 APPROXIMATELY 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
- WATERMAIN
- SLUICE VALVE
- FIRE HYDRANT
- LOT CONNECTION
- STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/08/20
2	ISSUED FOR 224c	KR	21/08/20

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

**WFH**  
PROPERTIES

**MILLWATER PRECINCT 5  
OREWA WEST  
STAGE 2**

WATERMAIN AS-BUILT  
SHEET 3 OF 3

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-05-602-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 AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Document No. C:\1205\ENERGY\DATA\WP-PEN-APP-01\17502 - PRECINCT 5 STAGE 2\_326\DRAWINGS\SURV\ASBUILTS\37502-05-602-WATERMAIN.DWG





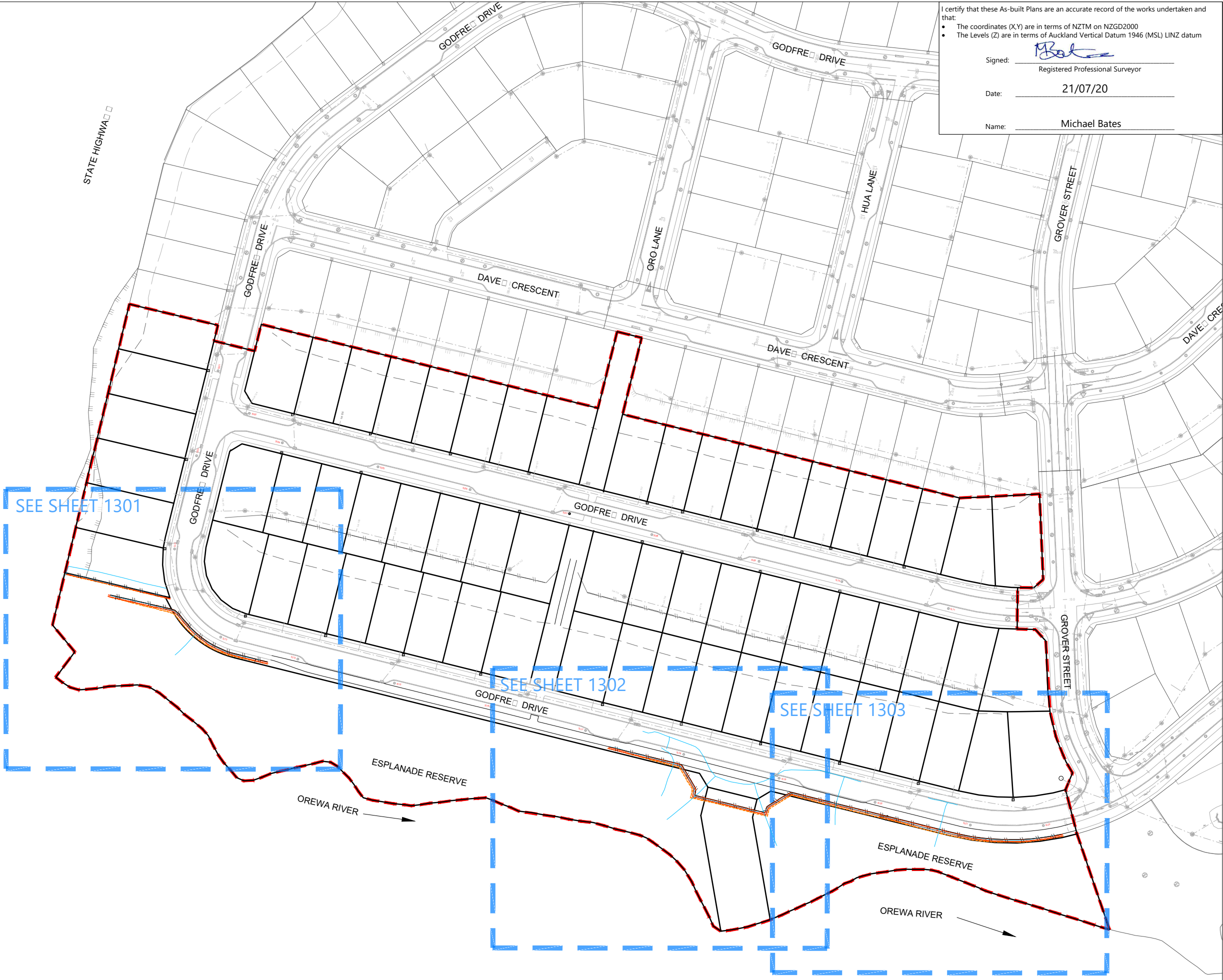
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: *Michael Bates*  
 Registered Professional Surveyor

Date: 21/07/20

Name: Michael Bates



**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- PVC 150Ø SUBSOIL DRAINS
- NOVACOIL 150Ø SUBSOIL DRAINS
- FENCE
- TOP OF BANK
- BOTTOM OF BANK
- BOUNDARY
- ← 19.05m BW → OFFSET TO BOUNDARY
- ← 17.05m F → OFFSET TO FENCE
- STORMWATER LINE & MANHOLE
- STORMWATER LINE & CESSPIT
- DEADMAN
- SLOPE STABILISATION DEVICE
- SUBSOIL BUBBLE-UP CHAMBER

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	21/07/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	CJ	
CHECKED	MB	
APPROVED	MB	



**ARRAN HILL PRECINCT 5  
 STAGE 2**

RETAINING WALL AS-BUILT  
 OVERALL LAYOUT  
 SHEET 1 OF 4

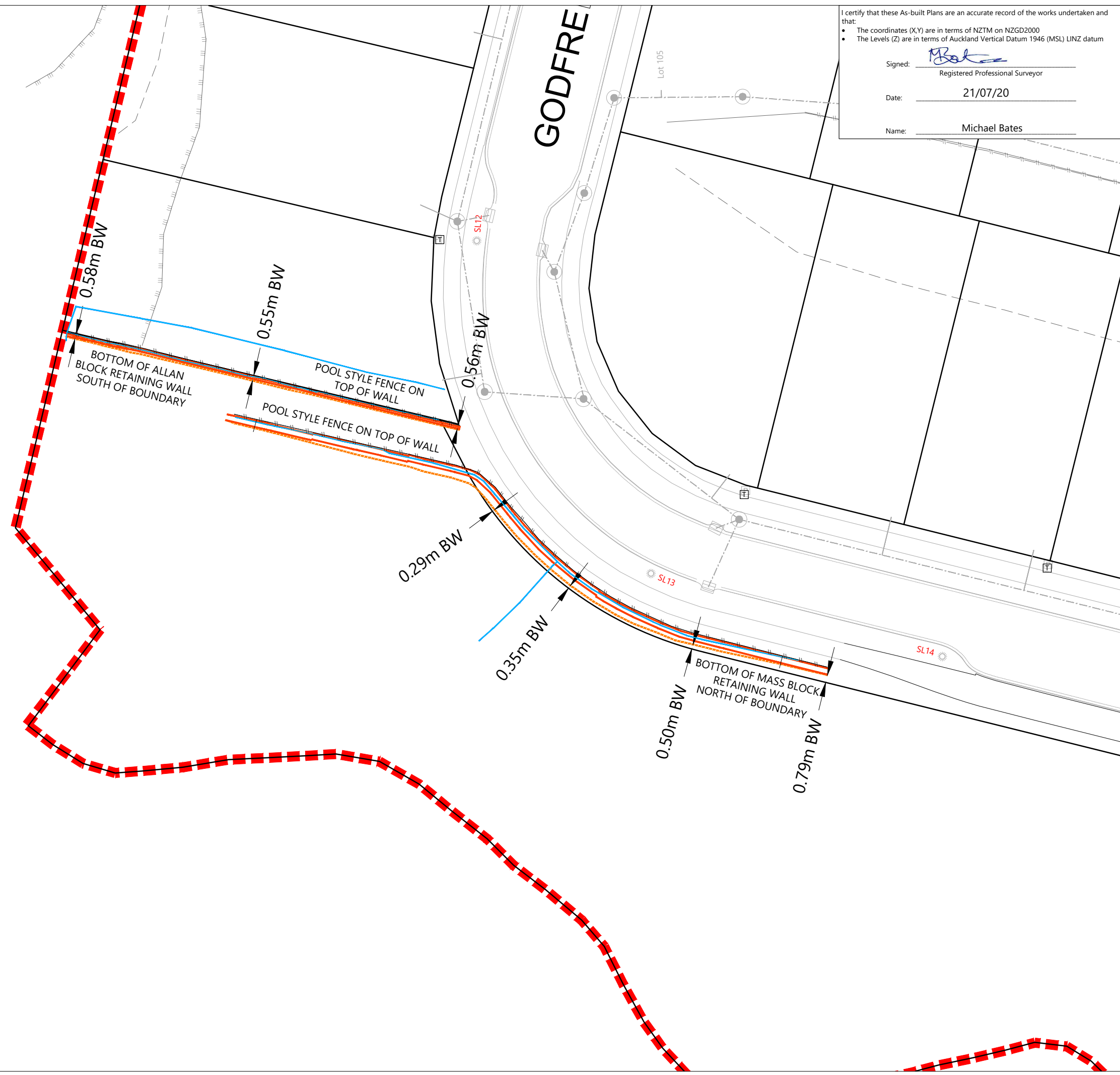
STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-1300-AB	

Document No. C:\1205\ENERGY\DATA\WP-PEN-APP-01\37502 - PRECINCT 5 STAGE 2\_326\Drawings\Sur\Asbuilts\37502-02-130-WALLS.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: 21/07/20  
 Name: Michael Bates



**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- PVC 150Ø SUBSOIL DRAINS
- NOVACOIL 150Ø SUBSOIL DRAINS
- FENCE
- TOP OF BANK
- BOTTOM OF BANK
- BOUNDARY
- 19.05m BW OFFSET TO BOUNDARY
- 17.05m F OFFSET TO FENCE
- STORMWATER LINE & MANHOLE
- STORMWATER LINE & CESSPIT
- DEADMAN
- SLOPE STABILISATION DEVICE
- SUBSOIL BUBBLE-UP CHAMBER

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	21/07/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	CJ	
CHECKED	MB	
APPROVED	MB	

**ARRAN HILL PRECINCT 5  
STAGE 2**

**RETAINING WALL AS-BUILT  
SHEET 2 OF 4**

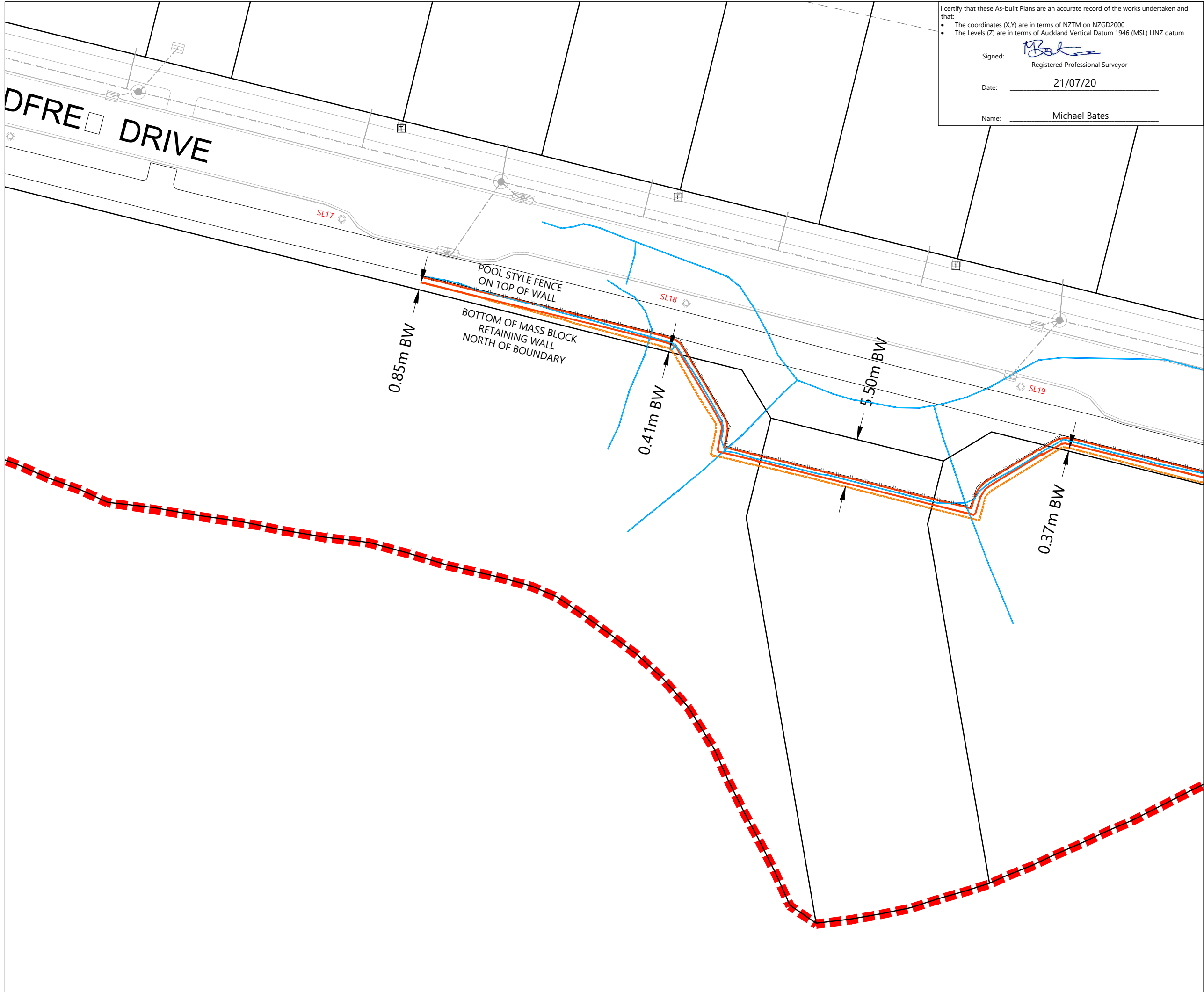
STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-1301-AB	



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: 21/07/20  
 Name: Michael Bates



**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- PVC 150ø SUBSOIL DRAINS
- NOVACOIL 150ø SUBSOIL DRAINS
- FENCE
- TOP OF BANK
- BOTTOM OF BANK
- BOUNDARY
- OFFSET TO BOUNDARY
- OFFSET TO FENCE
- STORMWATER LINE & MANHOLE
- STORMWATER LINE & CESSPIT
- DEADMAN
- SLOPE STABILISATION DEVICE
- SUBSOIL BUBBLE-UP CHAMBER

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	21/07/20

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	MB	
DRAWN	CJ	
CHECKED	MB	
APPROVED	MB	

N

**ARRAN HILL PRECINCT 5  
STAGE 2**

**RETAINING WALL AS-BUILT  
SHEET 3 OF 4**

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-1302-AB	



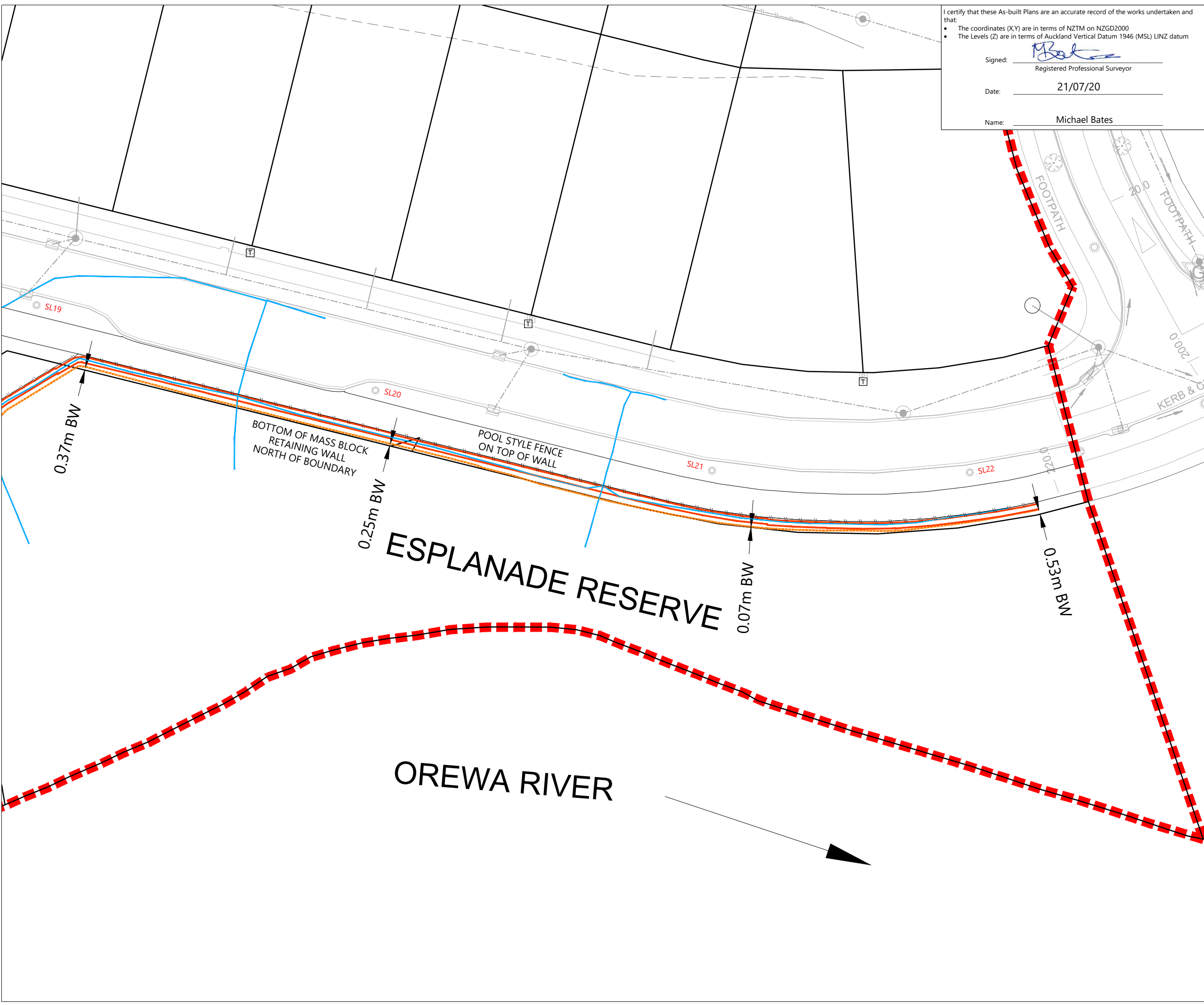
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Signed: *Michael Bates*  
Registered Professional Surveyor

Date: 21/07/20

Name: Michael Bates



**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- PVC 150ø SUBSOIL DRAINS
- NOVACOIL 150ø SUBSOIL DRAINS
- FENCE
- TOP OF BANK
- BOTTOM OF BANK
- BOUNDARY
- 19.05m BW— OFFSET TO BOUNDARY
- 17.05m F— OFFSET TO FENCE
- STORMWATER LINE & MANHOLE
- STORMWATER LINE & CESSPIT
- DEADMAN
- SLOPE STABILISATION DEVICE
- SUBSOIL BUBBLE-UP CHAMBER

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	21/07/20

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



**ARRAN HILL PRECINCT 5  
STAGE 2**

**RETAINING WALL AS-BUILT  
SHEET 4 OF 4**

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37502-02-1303-AB	