

NOTES

1. CONTOURS ARE AT 0.25m INTERVALS.
2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

LEGEND

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

STAGE 2

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	04/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

N

MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2

FINAL SURFACE ASBUILT PLAN

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1000-AB	

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

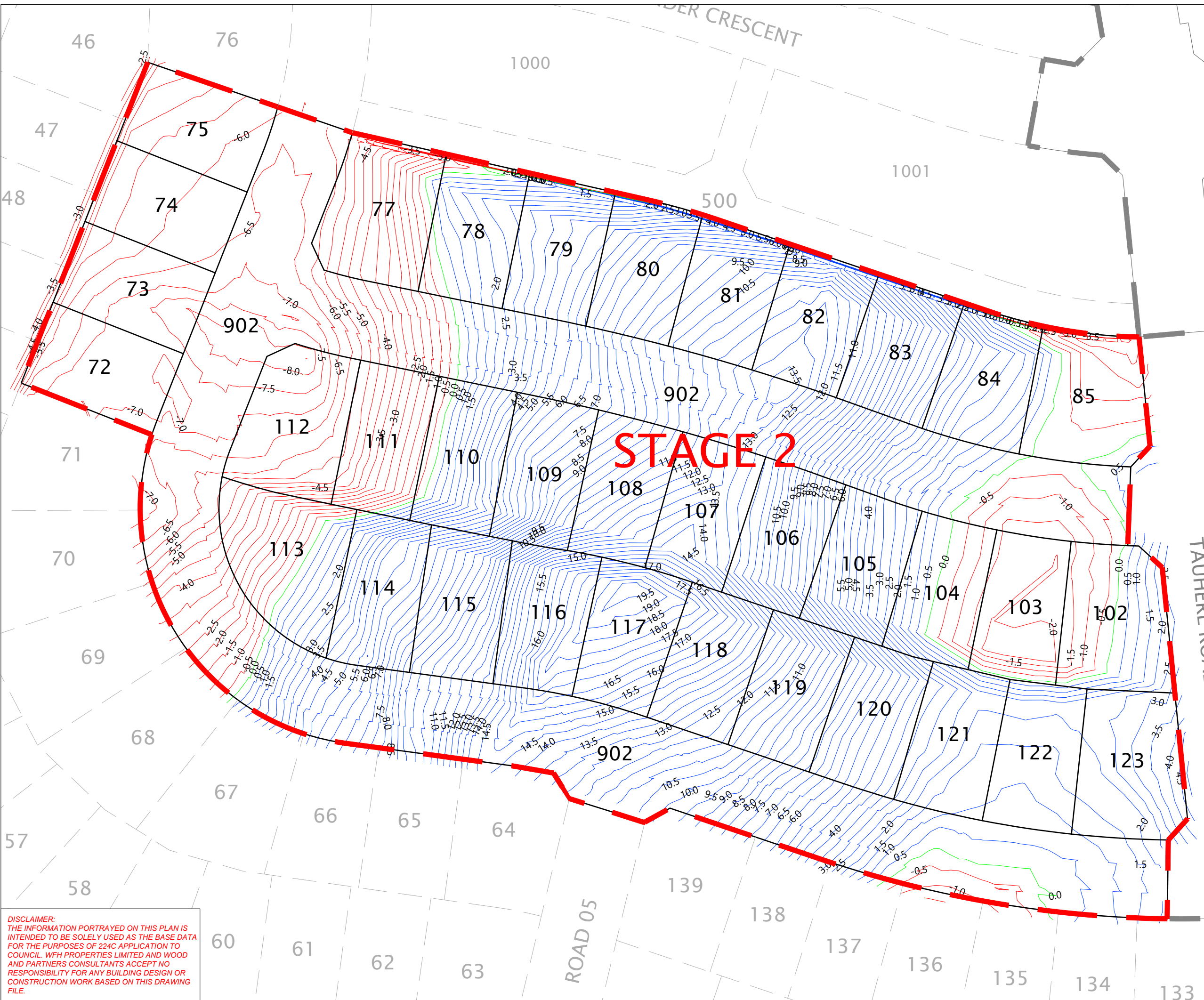
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Licensed Cadastral Surveyor

Date: 04/10/2023

Name: Samantha Muirhead

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 LIMITED 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
 2. BOUNDARIES SUBJECT TO FINAL SURVEY

LEGEND

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

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	
		WOODS.CO.NZ

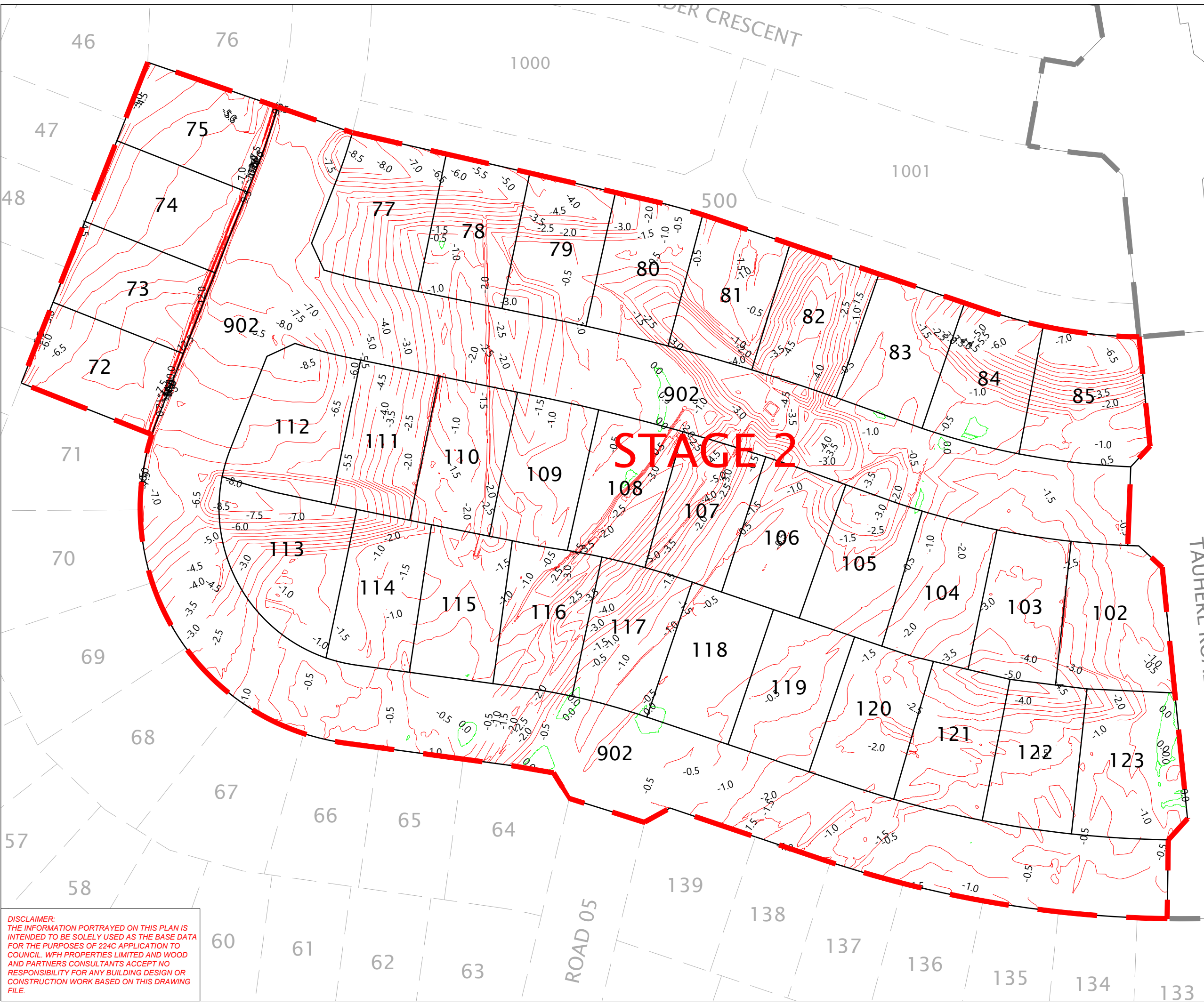


**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

CUT AND FILL ASBUILT
SHEET 1 OF 3
ORIGINAL SURFACE TO
FINAL SURFACE

STATUS	FOR INFORMATION	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1100-AB	

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NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. BOUNDARIES SUBJECT TO FINAL SURVEY

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

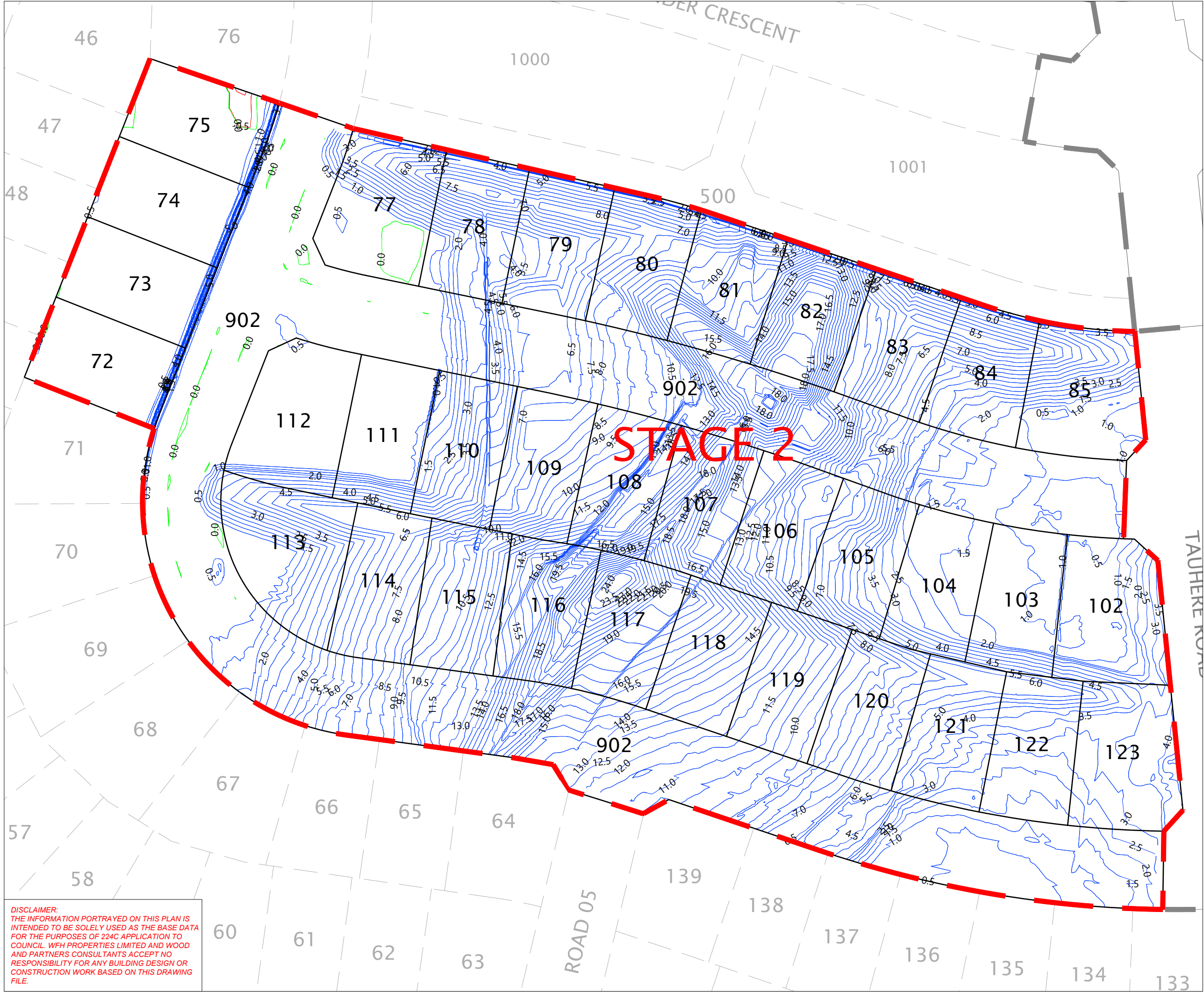
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**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

CUT AND FILL ASBUILT
SHEET 2 OF 3
ORIGINAL SURFACE TO
LOWEST SURFACE

STATUS	FOR INFORMATION	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1101-AB	

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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS
 2. BOUNDARIES SUBJECT TO FINAL SURVEY

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

STAGE 2

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

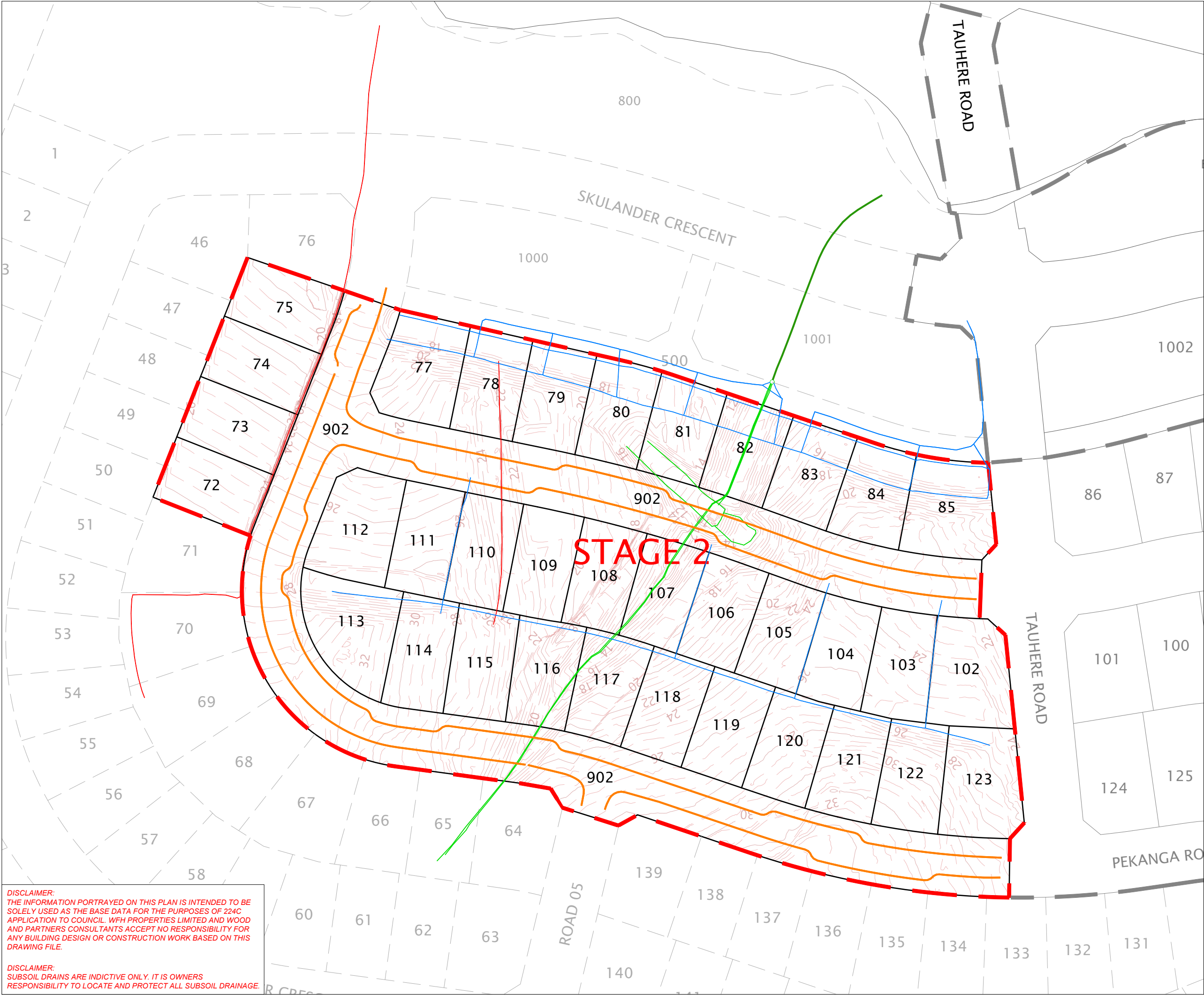
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**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

CUT AND FILL ASBUILT
SHEET 3 OF 3
LOWEST SURFACE TO
FINAL SURFACE

STATUS	FOR INFORMATION	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1102-AB	

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NOTES

- SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.
- BOUNDARIES SUBJECT TO FINAL SURVEY
- CONTOURS ARE AT 0.5m INTERVALS

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
- UNDERCHANNEL DRAINS
- COUNTERFORT DRAINS
- UNDERFILL DRAINS
- MANHOLE AND 300 ϕ PE OUTLET LINE
- - - STAGE BOUNDARIES
- LOT BOUNDARIES
- LOWEST SURFACE MAJOR CONTOURS
- - - LOWEST SURFACE MINOR CONTOURS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	
		WOODS.CO.NZ

N

**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

SUBSOILS ASBUILT PLAN

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1 : 1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1200-AB	

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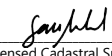
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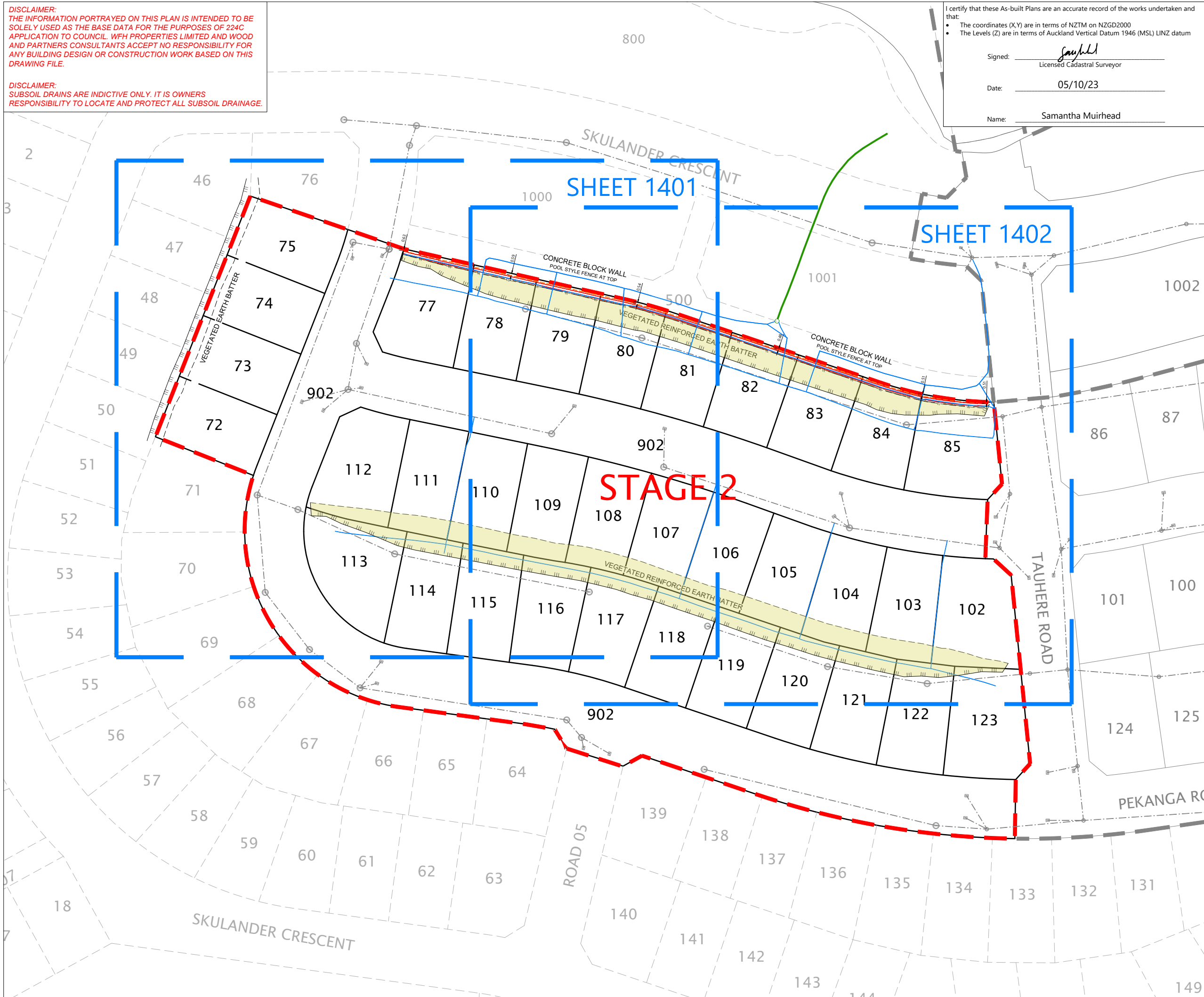
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- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/10/23

Name: Samantha Muirhead



NOTES

- SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.
- BOUNDARIES SUBJECT TO FINAL SURVEY

- LEGEND:**
- BOTTOM FACE OF WALL
 - TOP FACE OF WALL
 - RE SLOPE/RETAINING WALL DRAINAGE
 - MANHOLE AND 300Ø PE OUTLET LINE
 - FENCE
 - TOP OF BANK
 - BOTTOM OF BANK
 - BOUNDARY
 - 0.10m OFFSET TO BDY (FROM BOTTOM OF WALL)
 - STORMWATER LINE & MANHOLE
 - SLOPE STABILISATION DEVICE

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	
APPROVED		WOODS.CO.NZ



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

RETAINING WALL ASBUILT
SHEET 1 OF 3
LAYOUT SHEET

STATUS	ISSUED FOR 224C	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1400-AB	

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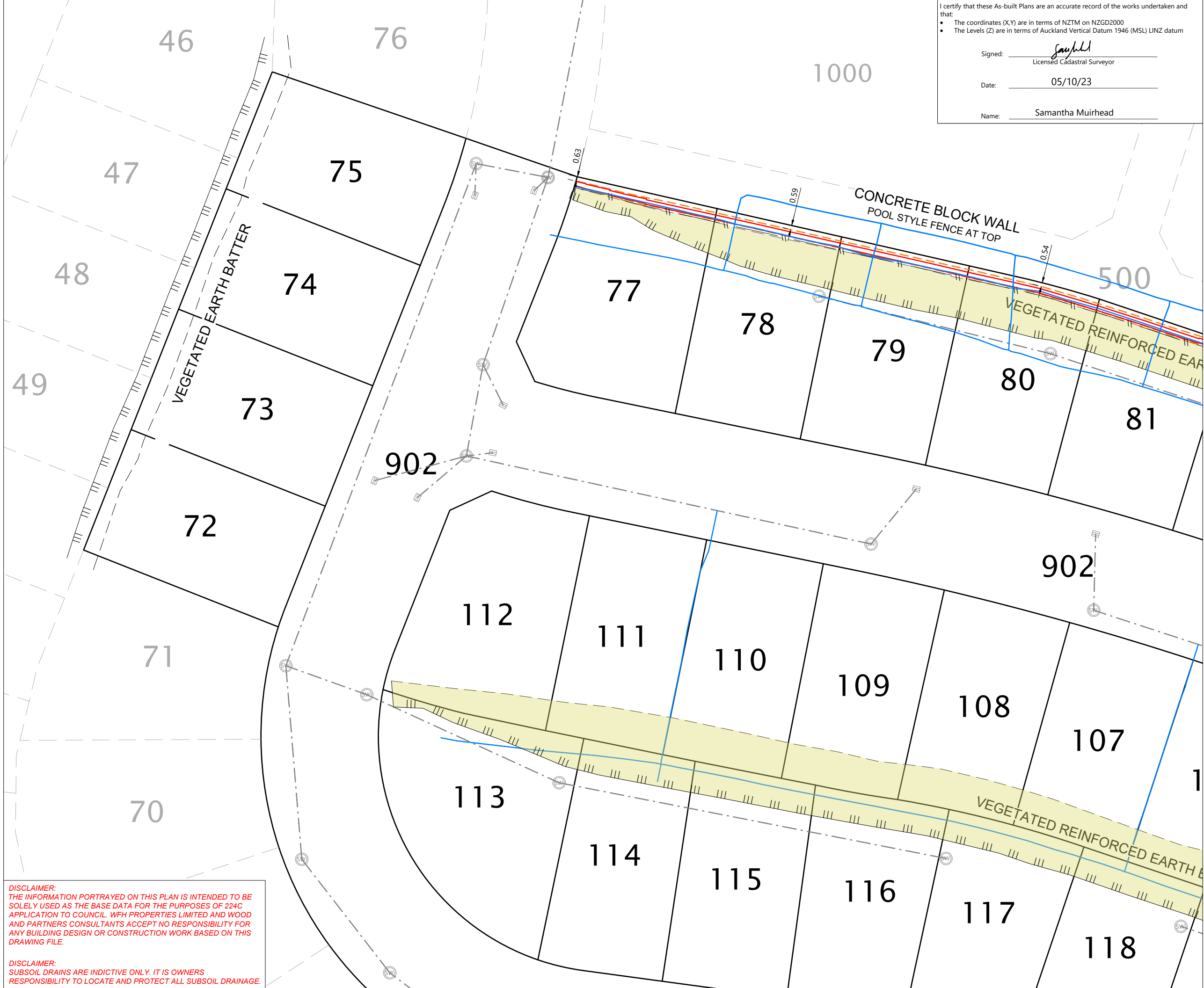
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Signed: Samantha Muirhead
 Licensed Cadastral Surveyor

Date: 05/10/23

Name: Samantha Muirhead



NOTES

- SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.
- BOUNDARIES SUBJECT TO FINAL SURVEY

- LEGEND:**
- BOTTOM FACE OF WALL
 - TOP FACE OF WALL
 - RE SLOPE/RETAINING WALL DRAINAGE
 - MANHOLE AND 300Ø PE OUTLET LINE
 - FENCE
 - TOP OF BANK
 - BOTTOM OF BANK
 - BOUNDARY
 - 0.10m OFFSET TO BDY (FROM BOTTOM OF WALL)
 - STORMWATER LINE & MANHOLE
 - SLOPE STABILISATION DEVICE

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

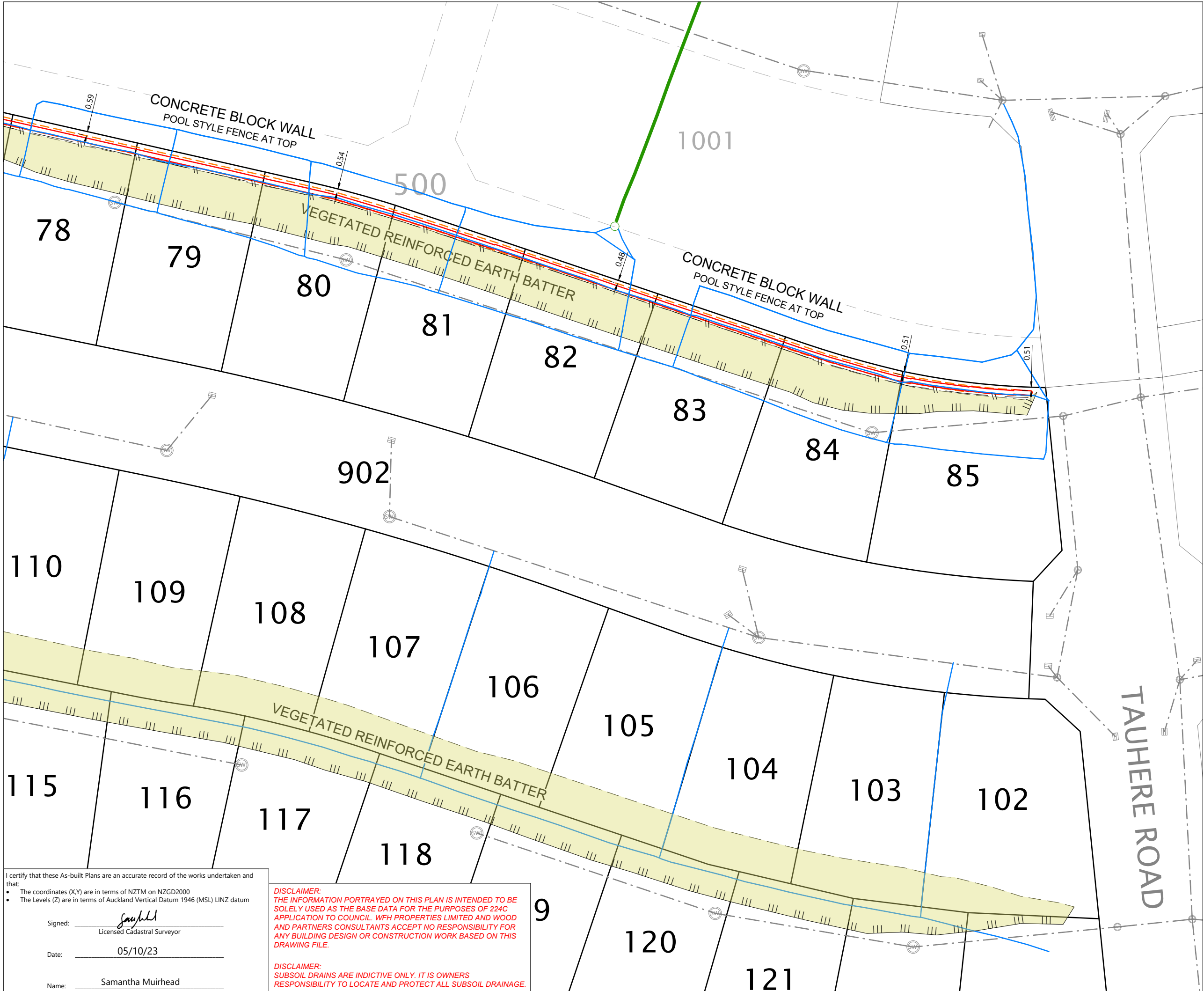
RETAINING WALL ASBUILT
SHEET 2 OF 3

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1401-AB	

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NOTES

- SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.
- BOUNDARIES SUBJECT TO FINAL SURVEY

LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- RE SLOPE/RETAINING WALL DRAINAGE
- MANHOLE AND 300Ø PE OUTLET LINE
- FENCE
- TOP OF BANK
- BOTTOM OF BANK
- BOUNDARY
- 0.10m OFFSET TO BDY (FROM BOTTOM OF WALL)
- STORMWATER LINE & MANHOLE
- SLOPE STABILISATION DEVICE

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	EC	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	
	WOODS.CO.NZ	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

RETAINING WALL ASBUILT
SHEET 3 OF 3

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-1402-AB	

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

Signed: *Samantha Muirhead*
Licensed Cadastral Surveyor

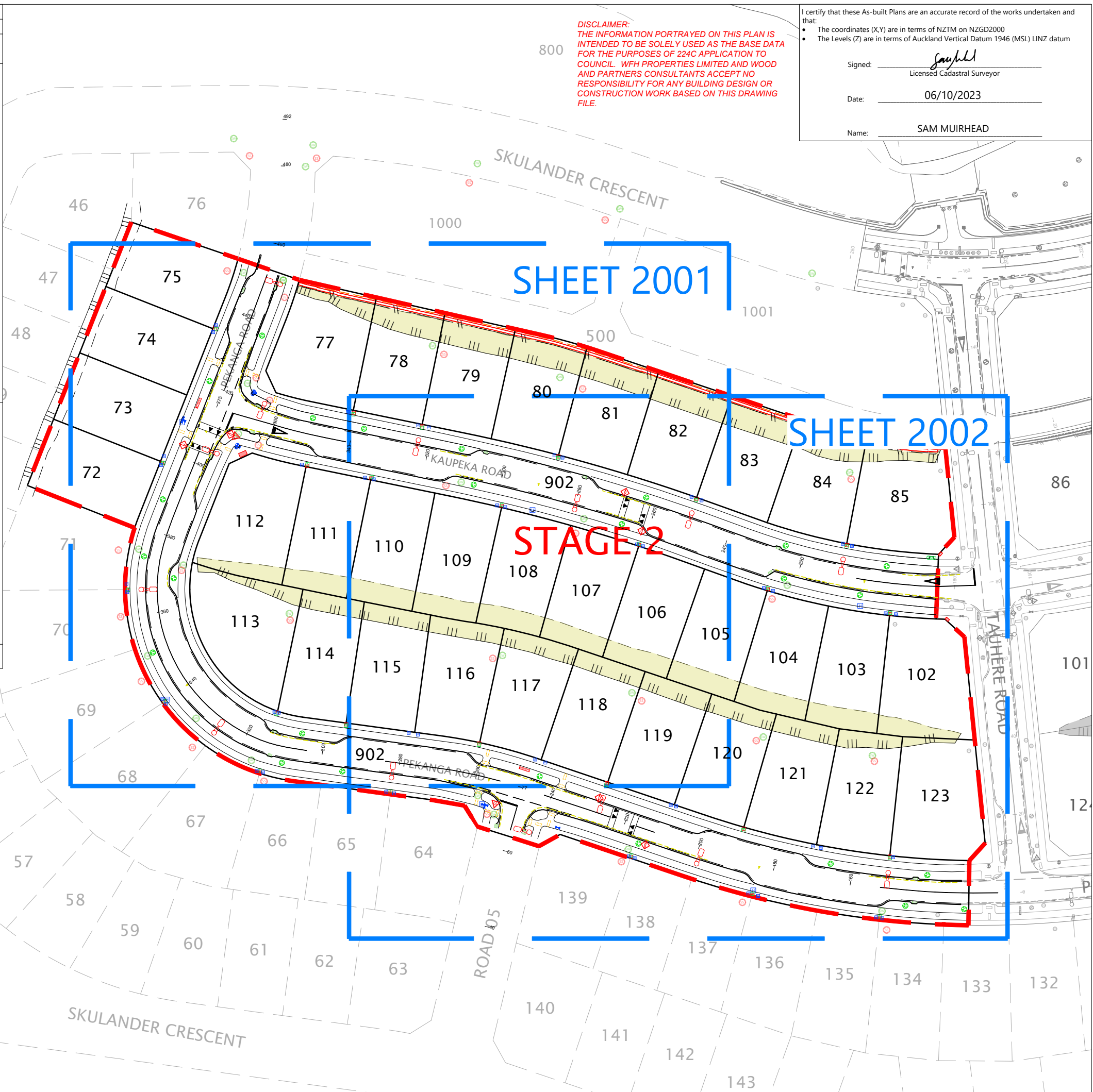
Date: 05/10/23

Name: Samantha Muirhead

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SCHEDULE OF COORDINATES			
STREET TREES			
ID	EASTING	NORTHING	SPECIES
ST01	1749133.85	5948879.41	LIQUIDAMBER
ST02	1749128.20	5948871.54	
ST03	1749109.03	5948882.32	
ST04	1749059.71	5948887.49	
ST05	1749034.36	5948904.75	
ST06	1748983.73	5948906.00	
ST07	1748973.43	5948915.74	
ST08	1748968.21	5948908.23	
ST09	1748935.10	5948936.53	
ST10	1748940.47	5948955.59	
ST11	1748932.83	5948961.21	
ST12	1748937.67	5948975.84	
ST13	1748949.67	5949006.18	
ST14	1748963.14	5949017.86	
ST15	1748976.20	5948996.71	
ST16	1748989.30	5948993.95	
ST17	1749014.34	5948988.82	
ST18	1749017.44	5948979.61	
ST19	1749055.46	5948969.50	
ST20	1749061.70	5948976.31	
ST21	1749097.50	5948963.97	
ST22	1749097.02	5948955.53	
ST23	1749116.54	5948951.30	
ST24	1749123.42	5948958.66	
ST25	1749143.31	5948870.67	
LIQUIDAMBER			
SCHEDULE OF COORDINATES			
STREET LIGHTS			
ID	EASTING	NORTHING	SPECIES
SL01	1749123.80	5948880.02	MICHELIA
SL02	1749074.63	5948882.35	
SL03	1749050.66	5948899.23	
SL04	1749031.67	5948890.42	
SL05	1748996.34	5948904.42	
SL06	1748950.82	5948915.93	
SL07	1748932.14	5948952.70	
SL08	1748951.56	5948987.56	
SL09	1748963.77	5949000.37	
SL10	1748967.83	5949031.04	
SL11	1749003.26	5948991.03	
SL12	1749043.32	5948973.22	
SL13	1749073.40	5948972.33	
SL14	1749112.24	5948960.43	
LIQUIDAMBER			



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Signed: *[Signature]*
 Licensed Cadastral Surveyor

Date: 06/10/2023

Name: SAM MUIRHEAD



NOTES

- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY

LEGEND

[Symbol]	STREET LIGHT
[Symbol]	ROAD NAME SIGN
[Symbol]	GIVE WAY SIGN
[Symbol]	SPEED HUMP SIGN
[Symbol]	STREET TREE
[Symbol]	TACTILE PAVING
[Symbol]	ROAD MARKINGS
[Symbol]	TRANSFORMER
[Symbol]	POWER LINK PILLAR
[Symbol]	POWER BOX
[Symbol]	TELECOM PLINTH
[Symbol]	TELECOM MANHOLE
[Symbol]	SS MANHOLE (NEW/EX)
[Symbol]	SW MANHOLE (NEW/EX)
[Symbol]	CATCH PIT/BERM SUMP
[Symbol]	WATER SLUICE VALVE
[Symbol]	WATER PEET VALVE
[Symbol]	FIRE HYDRANT
[Symbol]	CONC BLOCK WALL
[Symbol]	POOL STYLE FENCE
[Symbol]	RE SLOPE

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	EC	06/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

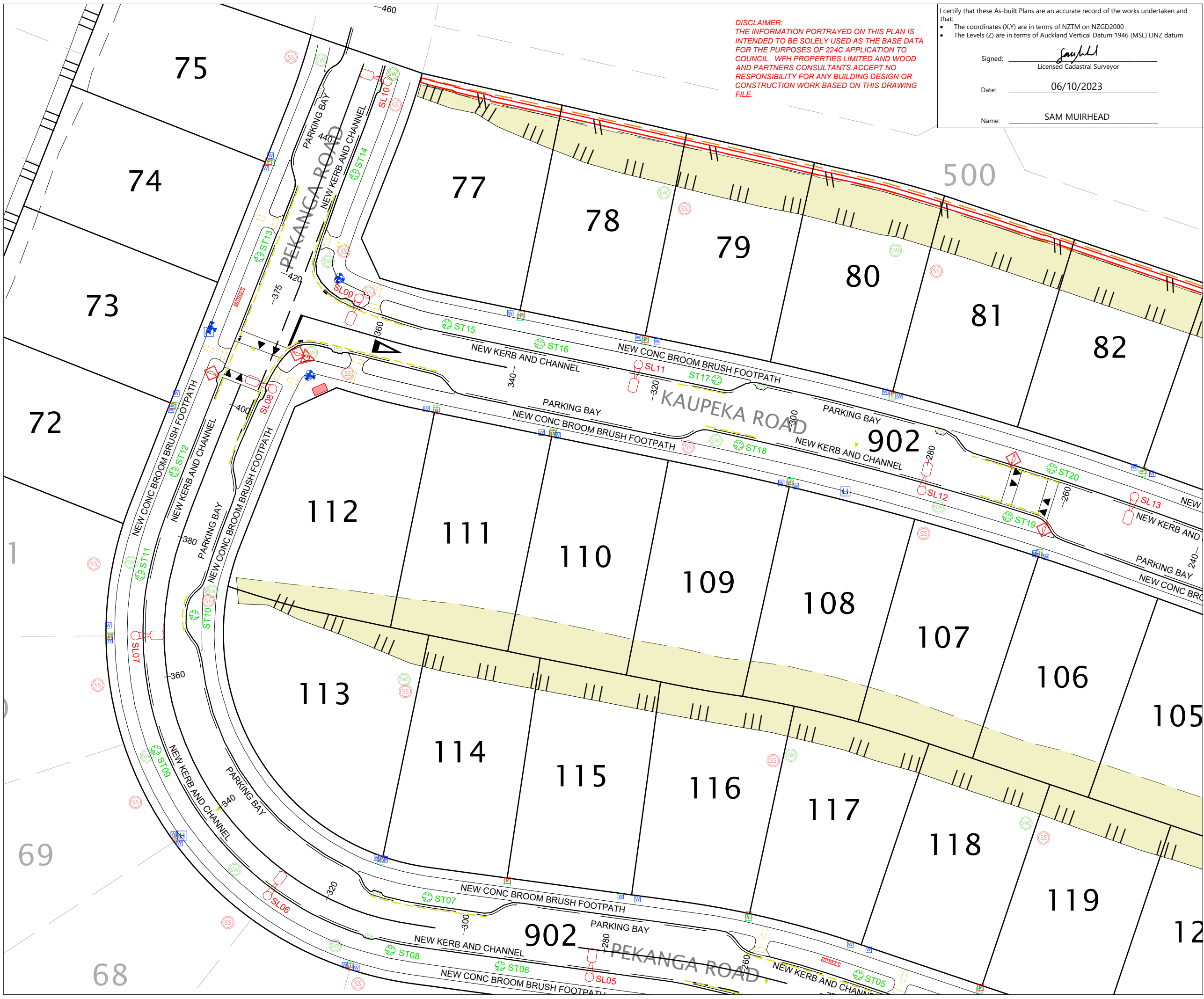


**MILLWATER OREWA WEST
 PRECINCT 6 - STAGE 2**

ROADING ASBUILT PLAN
 SHEET 1 OF 3
 OVERALL LAYOUT

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-2000-AB	

Plot Date: 8:40:29 am:9 October 2023, SAMANTHAM
 File: C:\125\ENERGY\DATA\WP-PEK-APP-01\P21-400 - PRECINCT 6 STAGE 2_10825\CAD\SURV\AB S2\P21-400-00-2000-AB ROADING.DWG



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Signed: *[Signature]*
 Licensed Cadastral Surveyor

Date: 06/10/2023

Name: SAM MUIRHEAD



NOTES

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- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY

LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- GIVE WAY SIGN
- SPEED HUMP SIGN
- STREET TREE
- TACTILE PAVING
- ROAD MARKINGS
- TRANSFORMER
- POWER LINK PILLAR
- POWER BOX
- TELECOM PLINTH
- TELECOM MANHOLE
- SS MANHOLE (NEW/EX)
- SW MANHOLE (NEW/EX)
- CATCH PIT/BERM SUMP
- WATER SLUICE VALVE
- WATER PEET VALVE
- FIRE HYDRANT
- CONC BLOCK WALL
- POOL STYLE FENCE
- RE SLOPE

REVISION DETAILS	BY	DATE
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		WOODS.CO.NZ

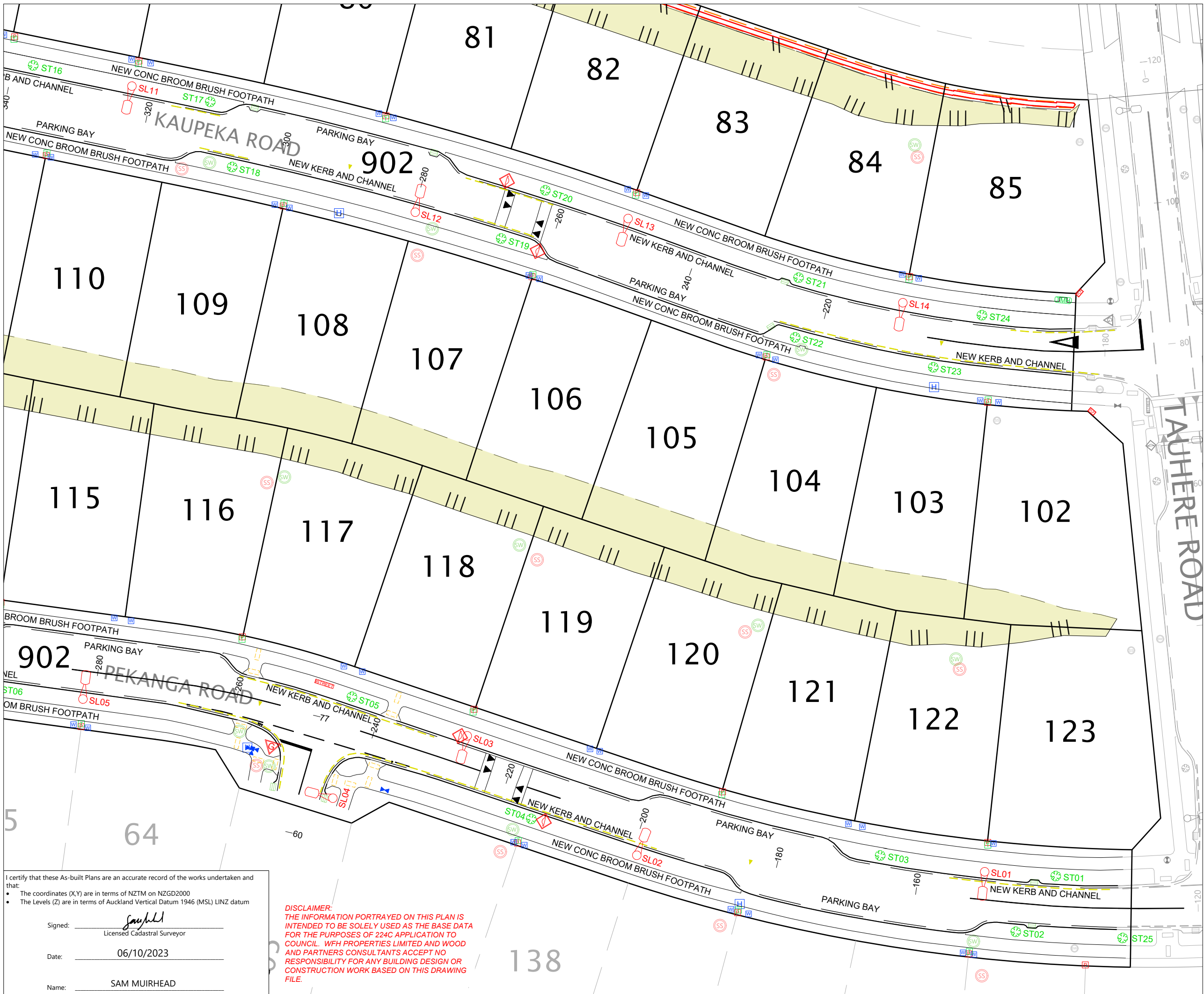


**MILLWATER OREWA WEST
 PRECINCT 6 - STAGE 2**

ROADING ASBUILT PLAN
 SHEET 2 OF 3

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-2001-AB	

Plot Date: 8:40:29 am:9 October 2023, SAMANTHAM
 File: C:\12DSYNERGY\DATA\WP-PEW-APP-01\P21-400-00-2001-AB - PRECINCT 6 STAGE 2_10825\CAD\SURV\AB S2\P21-400-00-2001-AB ROADING.DWG



NOTES

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- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY

LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- GIVE WAY SIGN
- SPEED HUMP SIGN
- STREET TREE
- TACTILE PAVING
- ROAD MARKINGS
- TRANSFORMER
- POWER LINK PILLAR
- POWER BOX
- TELECOM PLINTH
- TELECOM MANHOLE
- SS MANHOLE (NEW/EX)
- SW MANHOLE (NEW/EX)
- CATCH PIT/BERM SUMP
- WATER SLUICE VALVE
- WATER PET VALVE
- FIRE HYDRANT
- CONC BLOCK WALL
- POOL STYLE FENCE
- RE SLOPE

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	EC	06/10/23

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DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

ROADING ASBUILT PLAN
SHEET 3 OF 3

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-2002-AB	

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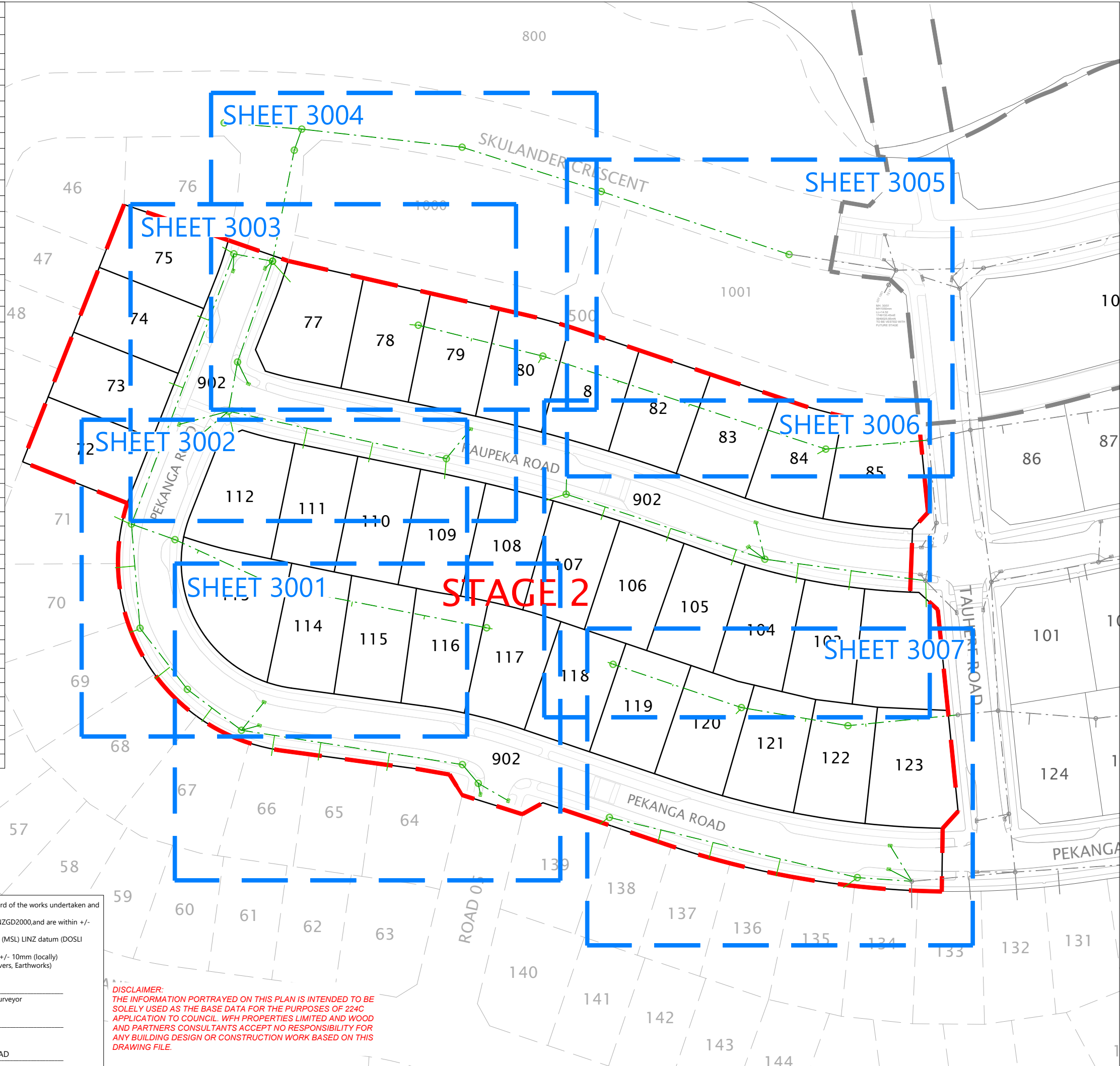
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SCHEDULE OF COORDINATES		
STORMWATER LOT CONNECTIONS		
LOT	EASTING	NORTHING
LOT 64	1748998.60	5948898.30
LOT 65	1748980.57	5948901.00
LOT 66	1748968.30	5948902.23
LOT 67	1748949.99	5948911.16
LOT 68	1748937.70	5948922.38
LOT 69	1748930.99	5948934.55
LOT 70	1748927.25	5948951.56
LOT 71	1748927.04	5948965.00
LOT 72	1748934.71	5948983.56
LOT 73	1748941.45	5949000.21
LOT 74	1748948.88	5949017.72
LOT 75	1748955.45	5949035.77
LOT 77	1748973.29	5949026.62
LOT 78	1749004.62	5949015.45
LOT 79	1749020.77	5949011.11
LOT 80	1749038.45	5949005.39
LOT 81	1749059.30	5949000.13
LOT 82	1749077.93	5948993.96
LOT 83	1749096.28	5948987.83
LOT 84	1749111.75	5948981.47
LOT 85	1749133.59	5948983.87
LOT 102	1749140.32	5948941.27
LOT 103	1749119.97	5948945.77
LOT 104	1749106.09	5948947.61
LOT 105	1749089.07	5948952.29
LOT 106	1749072.05	5948958.53
LOT 107	1749054.87	5948964.18
LOT 108	1749040.22	5948969.18
LOT 109	1749013.76	5948974.93
LOT 110	1748993.82	5948979.35
LOT 111	1748976.55	5948982.92
LOT 112	1748958.92	5948984.21
LOT 113	1748948.82	5948955.37
LOT 114	1748975.68	5948944.36
LOT 115	1748989.33	5948941.45
LOT 116	1749008.36	5948938.05
LOT 117	1749026.33	5948935.52
LOT 118	1749056.68	5948926.72
LOT 119	1749073.68	5948920.51
LOT 120	1749090.35	5948913.21
LOT 121	1749108.56	5948911.18
LOT 122	1749124.49	5948909.85
LOT 123	1749138.14	5948911.33
LOT 135	1749118.56	5948867.58
LOT 136	1749100.89	5948870.60
LOT 137	1749083.30	5948875.32
LOT 138	1749069.81	5948879.30
LOT 139	1749054.57	5948884.22



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

- NOTES**
- ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC CLASS SN16.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	SM	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**STORMWATER ASBUILT PLAN
SHEET 1 OF 8
LAYOUT SHEET**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3000-AB	

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

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 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

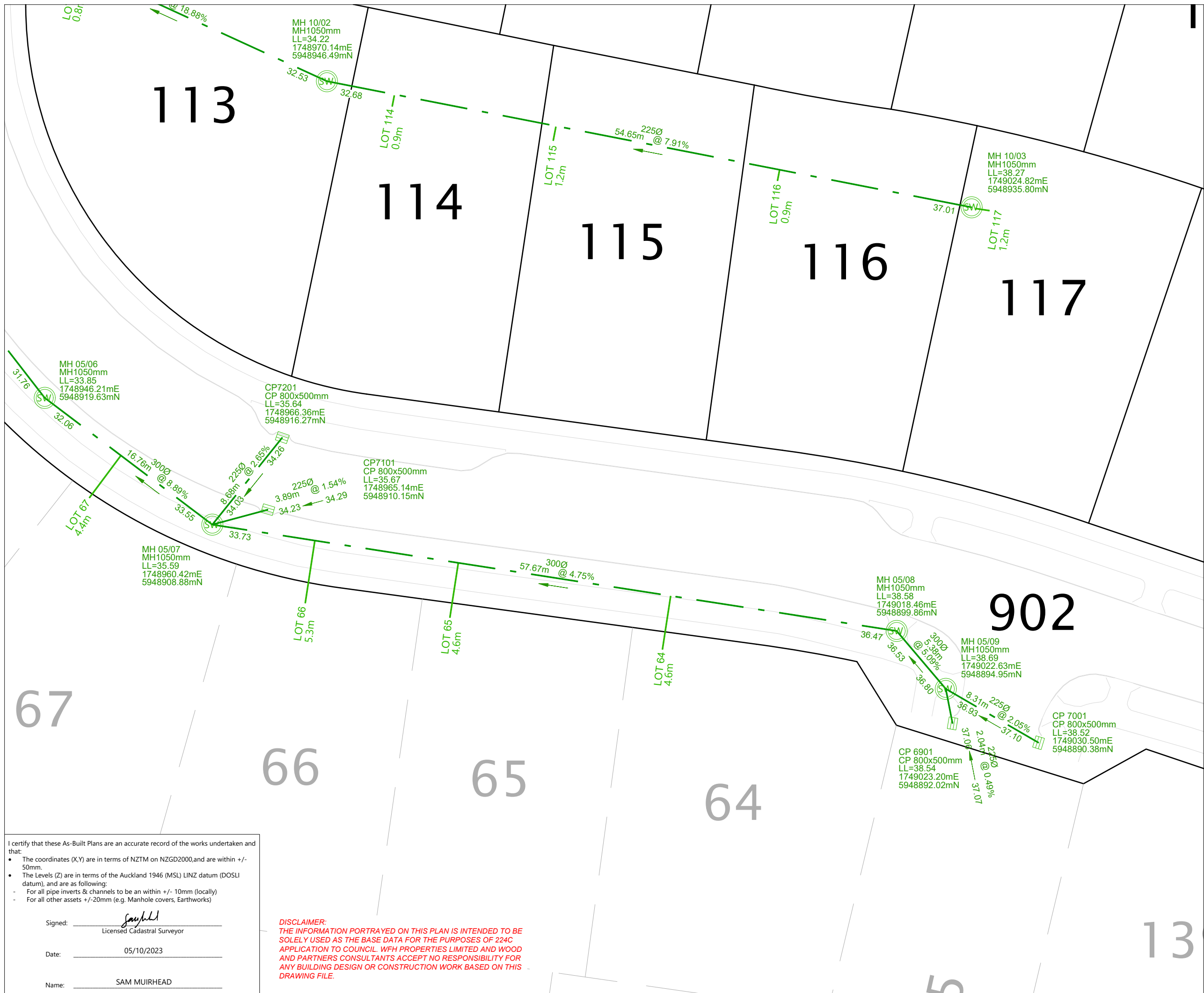
Signed: Licensed Cadastral Surveyor

Date: 05/10/2023

Name: SAM MUIRHEAD

DISCLAIMER:
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Plot Date: 1:22:26 pm:5 October 2023; SAMANTHAM
File: C:\12DS\ENERGY\DATA\WP-PEN-APP-01\P21-400 - PRECINCT 6 STAGE 2 - 10825\CAD\SURV\AB S2\P21-400-00-3000-AB STORMWATER.DWG



LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	05/10/23

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DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	

**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**STORMWATER ASBUILT PLAN
SHEET 2 OF 8**

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3001-AB	

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

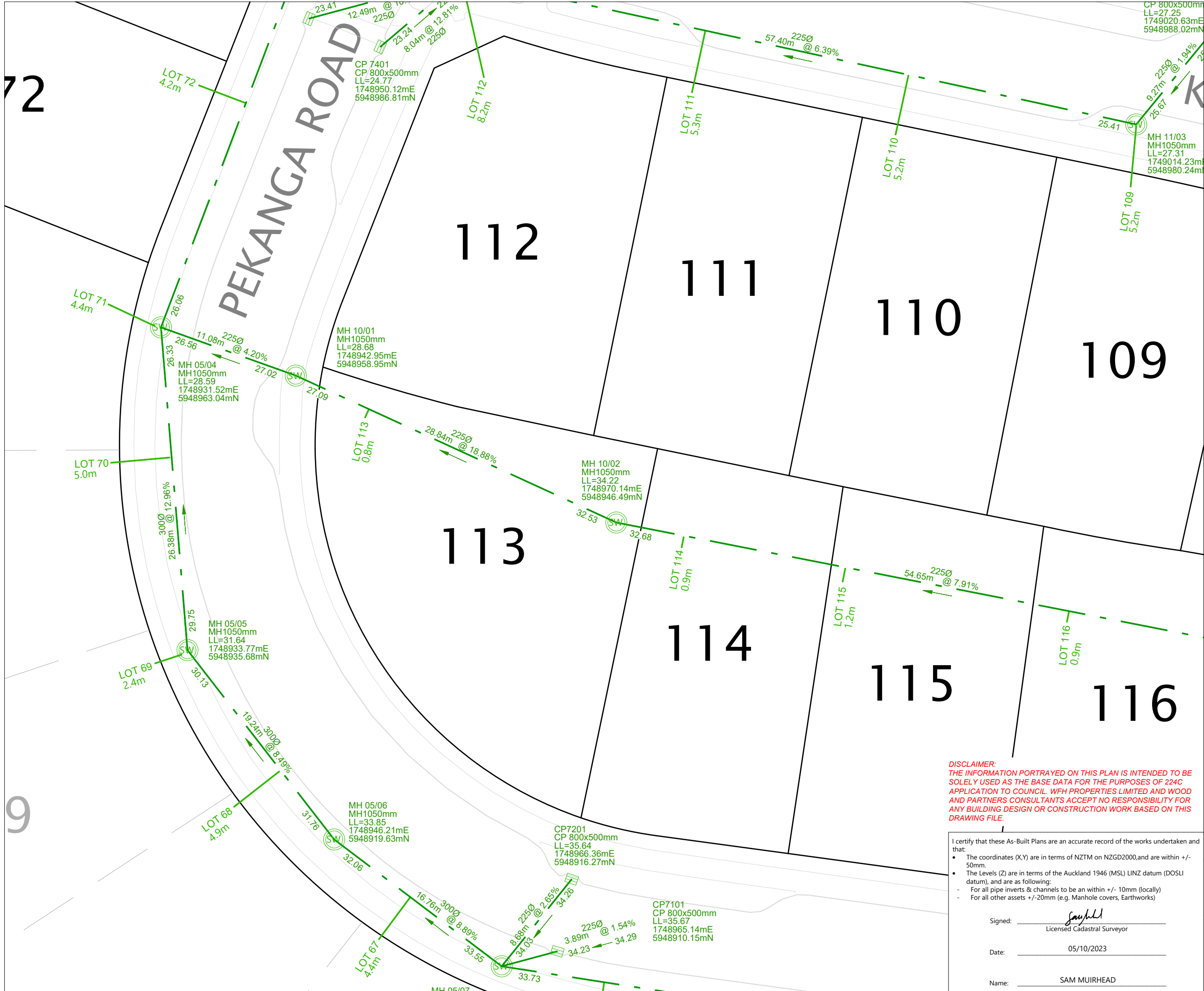
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Date: 05/10/2023

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LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**STORMWATER ASBUILT PLAN
SHEET 3 OF 8**

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3002-AB	

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Signed: [Signature]
 Licensed Cadastral Surveyor
 Date: 05/10/2023
 Name: SAM MUIRHEAD

LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

NOTES

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1 ISSUED FOR INFORMATION	SM	05/10/23

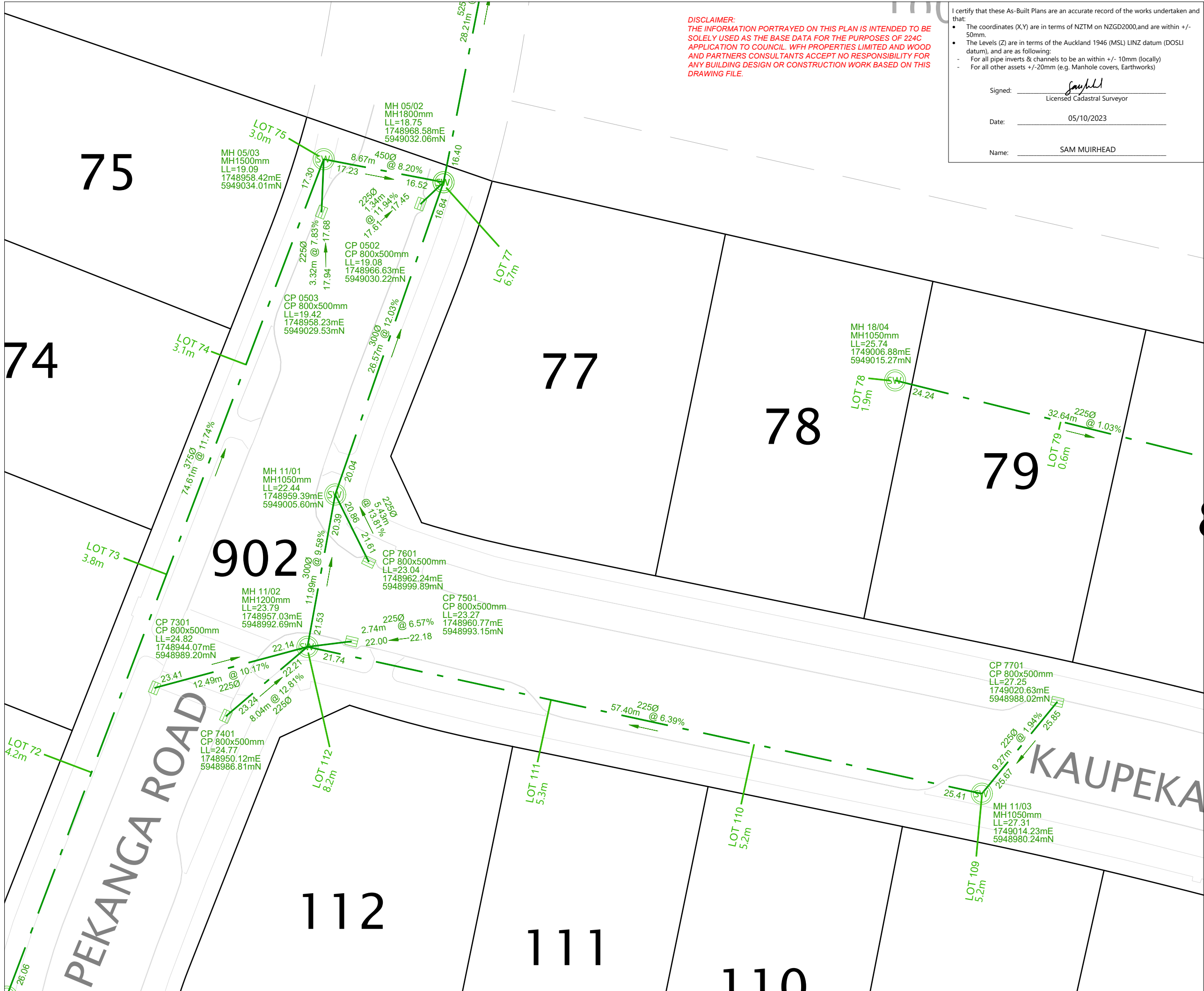
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	
		WOODS.CO.NZ



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

STORMWATER ASBUILT PLAN SHEET 4 OF 8

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3003-AB	





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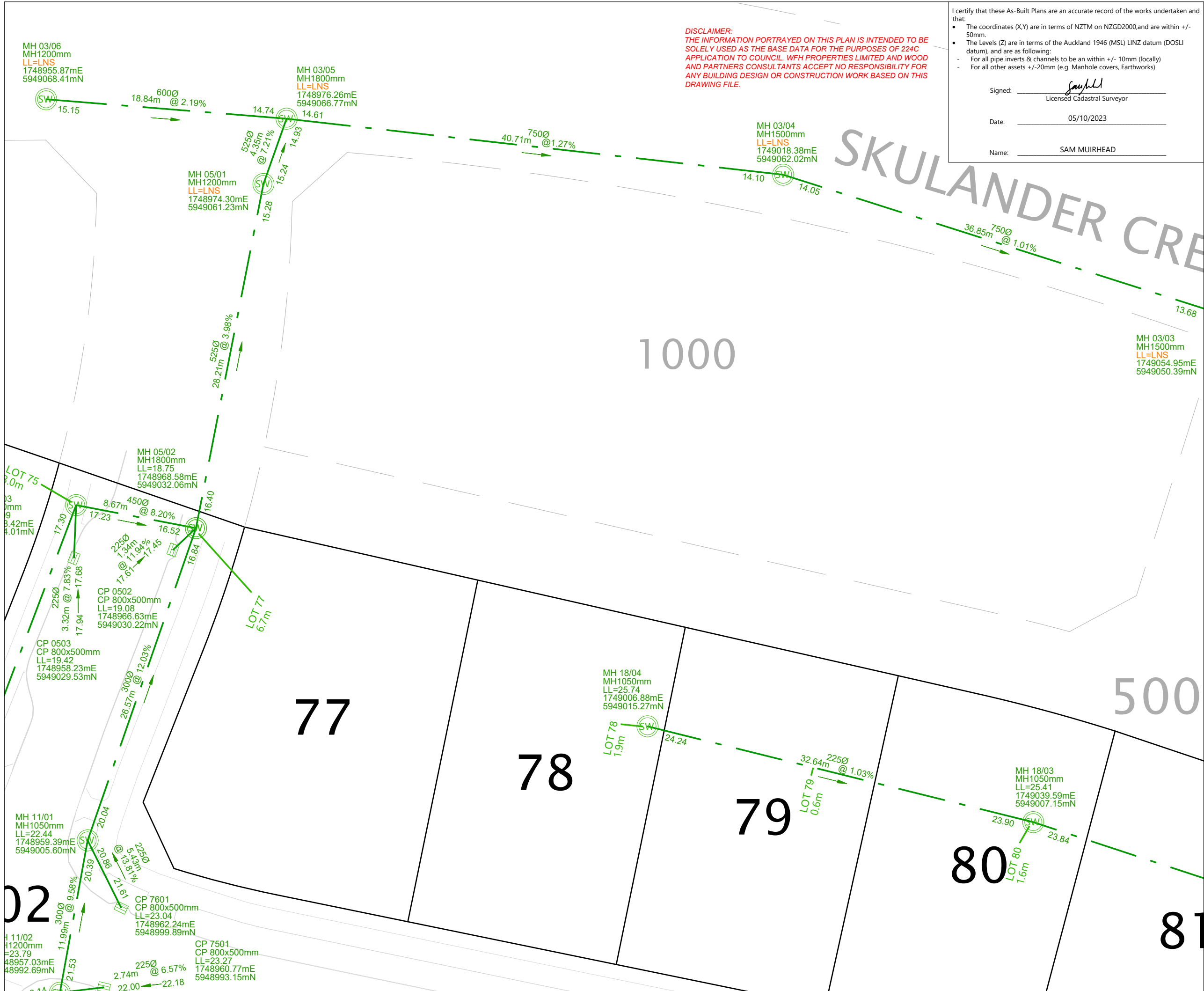
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Signed: [Signature]
 Licensed Cadastral Surveyor

Date: 05/10/2023

Name: SAM MUIRHEAD



LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

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SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
 PRECINCT 6 - STAGE 2**

STORMWATER ASBUILT PLAN
 SHEET 5 OF 8

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3004-AB	


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CRESCENT

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Signed: 
 Licensed Cadastral Surveyor

Date: 05/10/2023

Name: SAM MUIRHEAD



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

NOTES

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

STORMWATER ASBUILT PLAN SHEET 6 OF 8

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3005-AB	

MH 03/03
 MH1500mm
 LL=LNS
 1749054.95mE
 5949050.39mN

MH 03/02
 MH1200mm
 LL=LNS
 1749104.27mE
 5949033.84mN

CP0701
 CP800x500mm
 LL=14.18
 1749129.49mE
 5949038.98mN

CP0801
 CP800x500mm
 LL=14.17
 1749129.24mE
 5949032.47mN

MH. 03/01
 MH1650mm
 LL=14.31
 1749132.37mE
 5949029.20mN

DCP0802
 DCP800x500mm
 LL=13.77
 1749139.19mE
 5949028.06mN

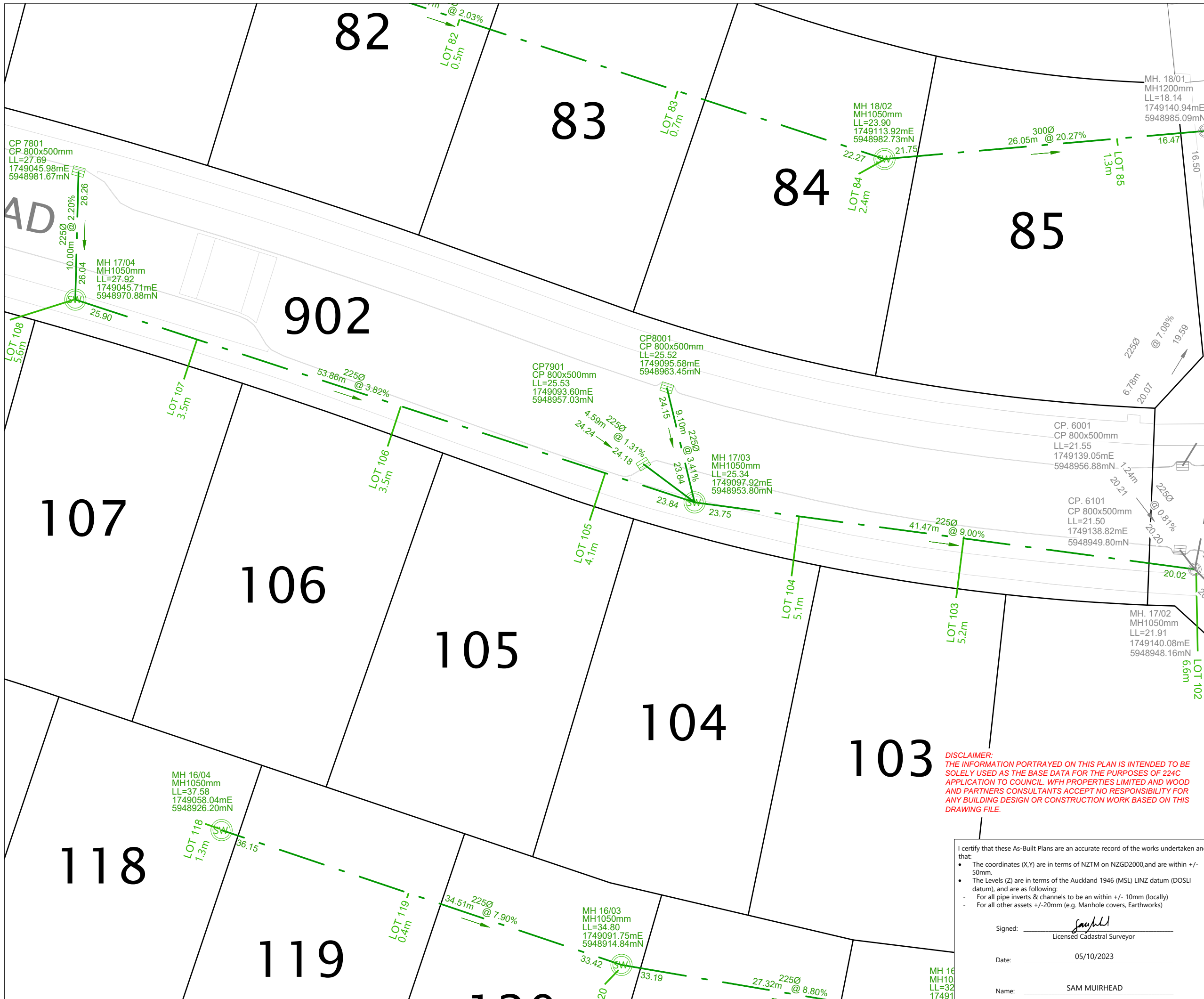
MH. 30/01
 MH1050mm
 LL=14.52
 1749130.45mE
 5949025.85mN
 TO BE VESTED WITH FUTURE STAGE

MH. 18/01
 MH1200mm
 LL=18.14
 1749140.94mE
 5948985.09mN

MH 18/02
 MH1050mm
 LL=23.90
 1749113.92mE
 5948982.73mN

Plot Date: 1:22:27 pm:5 October 2023: SAMANTHAM

File: C:\12SD\ENERGY\DATA\WP-PEN-APP-01\P21-400 - PRECINCT 6 STAGE 2 - 10825\CAD\SURV\AB S2\P21-400-00-3000-AB STORMWATER.DWG



LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**STORMWATER ASBUILT PLAN
SHEET 7 OF 8**

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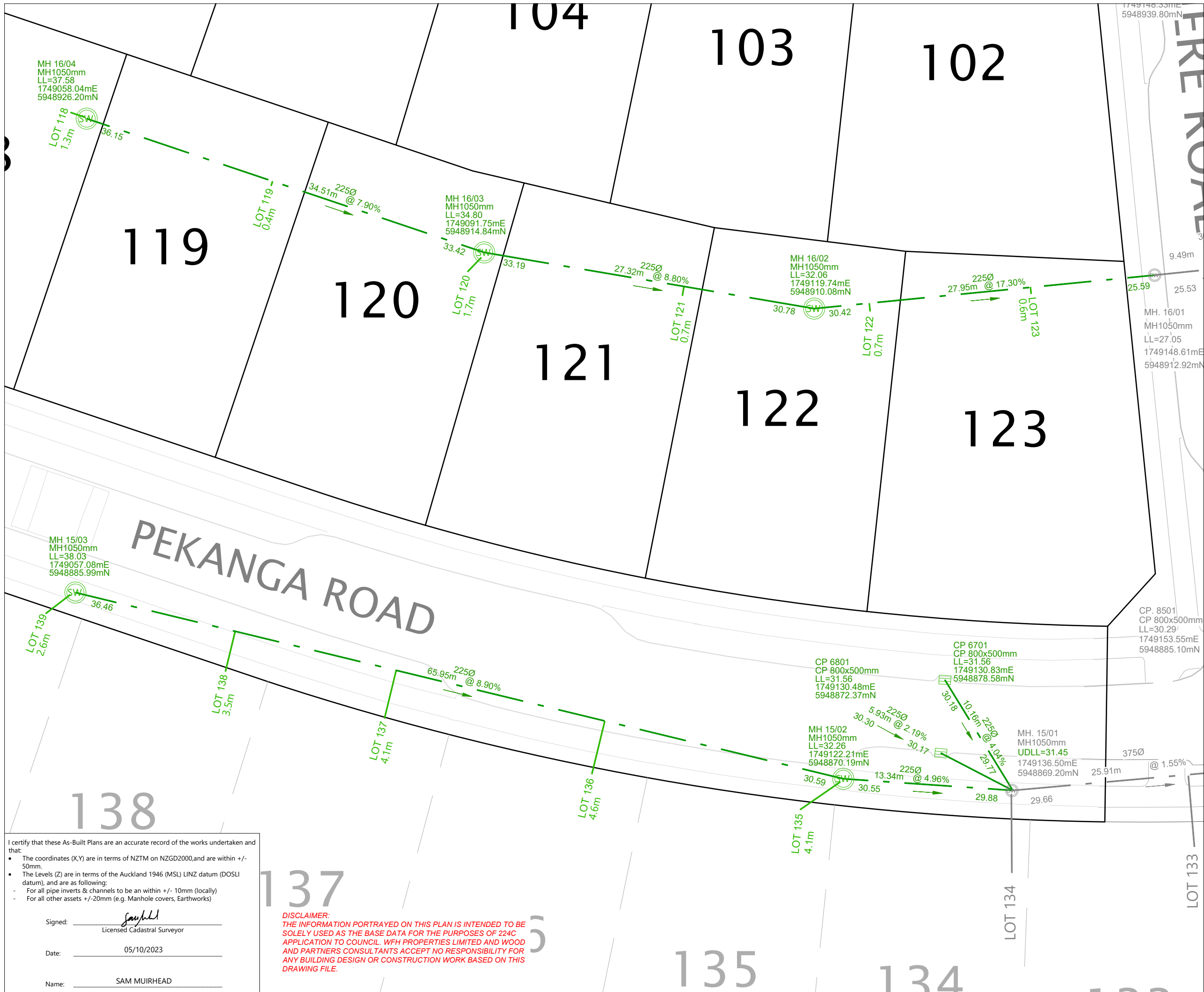
Signed: Licensed Cadastral Surveyor

Date: 05/10/2023

Name: SAM MUIRHEAD

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3006-AB	

Plot Date: 1:22:27 pm:5 October 2023, SAMANTHAM
File: C:\125\ENERGY\DATA\WP-PEN-APP-01\P21-400 - PRECINCT 6 STAGE 2 - 10825\CAD\SURV\AB S2\P21-400-00-3000-AB STORMWATER.DWG



LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
STAGE BOUNDARY	
LID TO BE SET WITH FUTURE STAGE	LNS
UPDATED EXISTING LID LEVEL	UDLL

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	05/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**STORMWATER ASBUILT PLAN
SHEET 8 OF 8**

STATUS	AS-BUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-3007-AB	

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Date: 05/10/2023

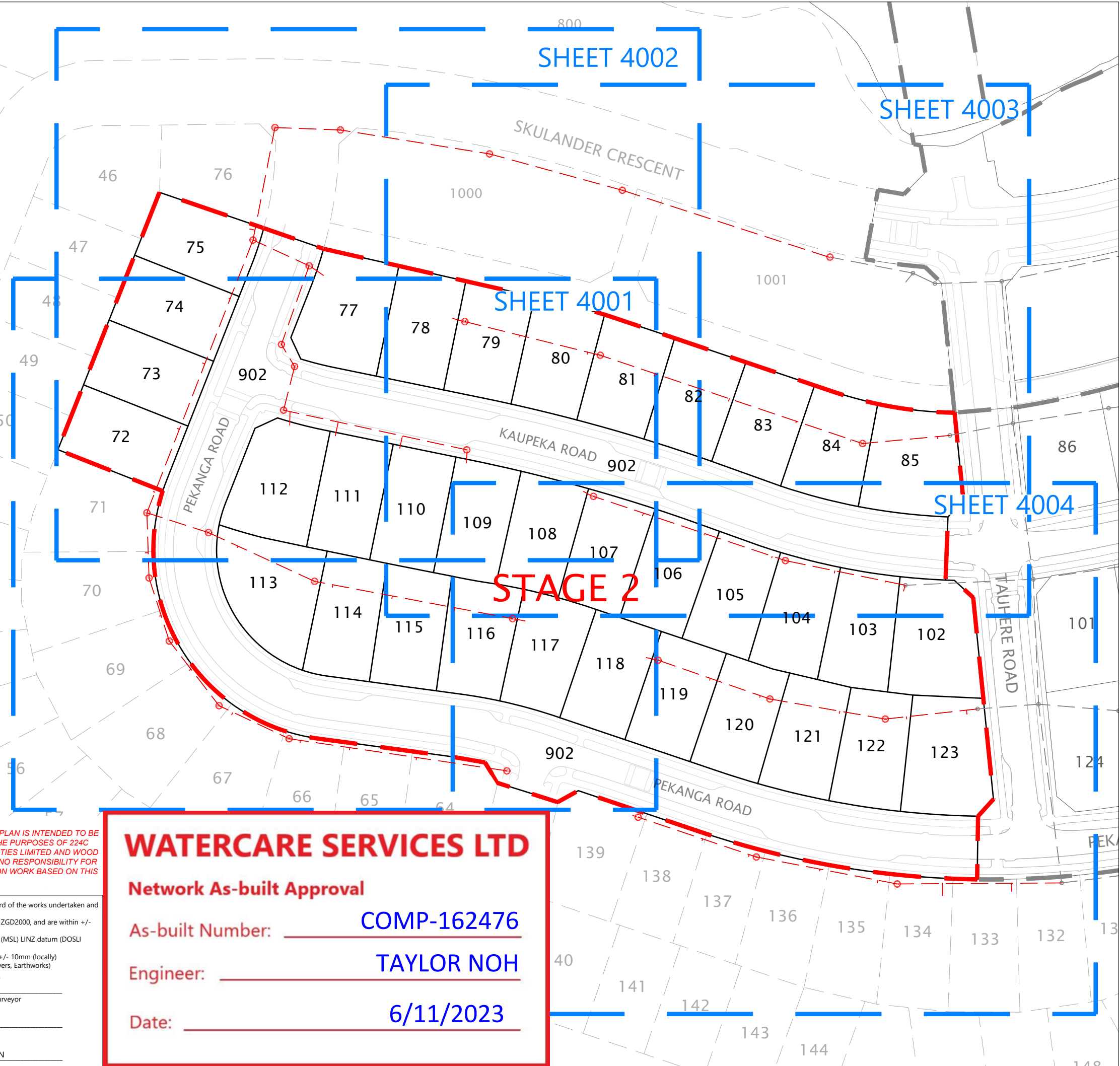
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Plot Date: 1:22:27 pm:5 October 2023, SAMANTHAM
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SCHEDULE OF COORDINATES		
WASTEWATER LOT CONNECTIONS		
LOT	EASTING	NORTHING
LOT 64	1748997.01	5948897.89
LOT 65	1748979.49	5948900.54
LOT 66	1748966.54	5948902.42
LOT 67	1748948.56	5948909.75
LOT 68	1748937.44	5948921.42
LOT 69	1748929.52	5948935.65
LOT 70	1748925.81	5948952.31
LOT 71	1748927.93	5948968.40
LOT 72	1748934.30	5948984.95
LOT 73	1748940.89	5949002.16
LOT 74	1748947.80	5949019.16
LOT 75	1748953.28	5949037.34
LOT 77	1748972.68	5949025.15
LOT 78	1749006.59	5949013.91
LOT 79	1749024.04	5949008.94
LOT 80	1749041.98	5949004.44
LOT 81	1749059.54	5948998.71
LOT 82	1749079.08	5948992.13
LOT 83	1749096.77	5948986.42
LOT 84	1749111.13	5948981.58
LOT 85	1749134.00	5948982.29
LOT 102	1749125.04	5948942.22
LOT 103	1749120.20	5948944.48
LOT 104	1749106.89	5948946.97
LOT 105	1749090.41	5948950.99
LOT 106	1749072.66	5948956.96
LOT 107	1749056.49	5948962.07
LOT 108	1749040.93	5948968.45
LOT 109	1749010.19	5948975.84
LOT 110	1748992.71	5948979.75
LOT 111	1748975.78	5948983.02
LOT 112	1748963.81	5948985.82
LOT 113	1748950.03	5948953.66
LOT 114	1748974.99	5948943.24
LOT 115	1748990.63	5948940.24
LOT 116	1749007.05	5948937.04
LOT 117	1749025.67	5948934.41
LOT 118	1749057.47	5948924.78
LOT 119	1749074.09	5948918.81
LOT 120	1749087.28	5948914.31
LOT 121	1749108.22	5948910.13
LOT 122	1749125.89	5948908.64
LOT 123	1749141.72	5948909.90
LOT 133	1749135.31	5948862.24
LOT 134	1749153.48	5948863.35
LOT 135	1749118.13	5948865.58
LOT 136	1749103.00	5948868.79
LOT 137	1749084.35	5948872.52
LOT 138	1749072.13	5948876.70
LOT 139	1749053.89	5948883.35



LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER	
LOT BOUNDARIES	
STAGE BOUNDARY	
DROP-PROTECTION STRUCTURE (DPS)	
LID TO BE SET WITH FUTURE STAGE	
UPDATED EXISTING LID LEVEL	

- NOTES**
- ALL WASTEWATER PIPES ARE 150mmØ uPVC SN16.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC SN16.
 - 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	SM	09/10/23
2 TEMP LID LEVELS ADDED	JM	30/10/23
3 LOT CONNECTION UPDATED	JM	03/11/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	JM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

WASTEWATER ASBUILT PLAN
SHEET 1 OF 5
LAYOUT SHEET

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-4000-AB	

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED 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, and are within +/- 50mm.
- The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as following:
 - For all pipe inverts & channels to be an within +/- 10mm (locally)
 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed:
Licensed Cadastral Surveyor

Date: 03/11/2023

Name: JOHN MADDEN

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-162476

Engineer: TAYLOR NOH

Date: 6/11/2023

Plot Date: 1:4:15 pm:3 November 2023: EDWINC
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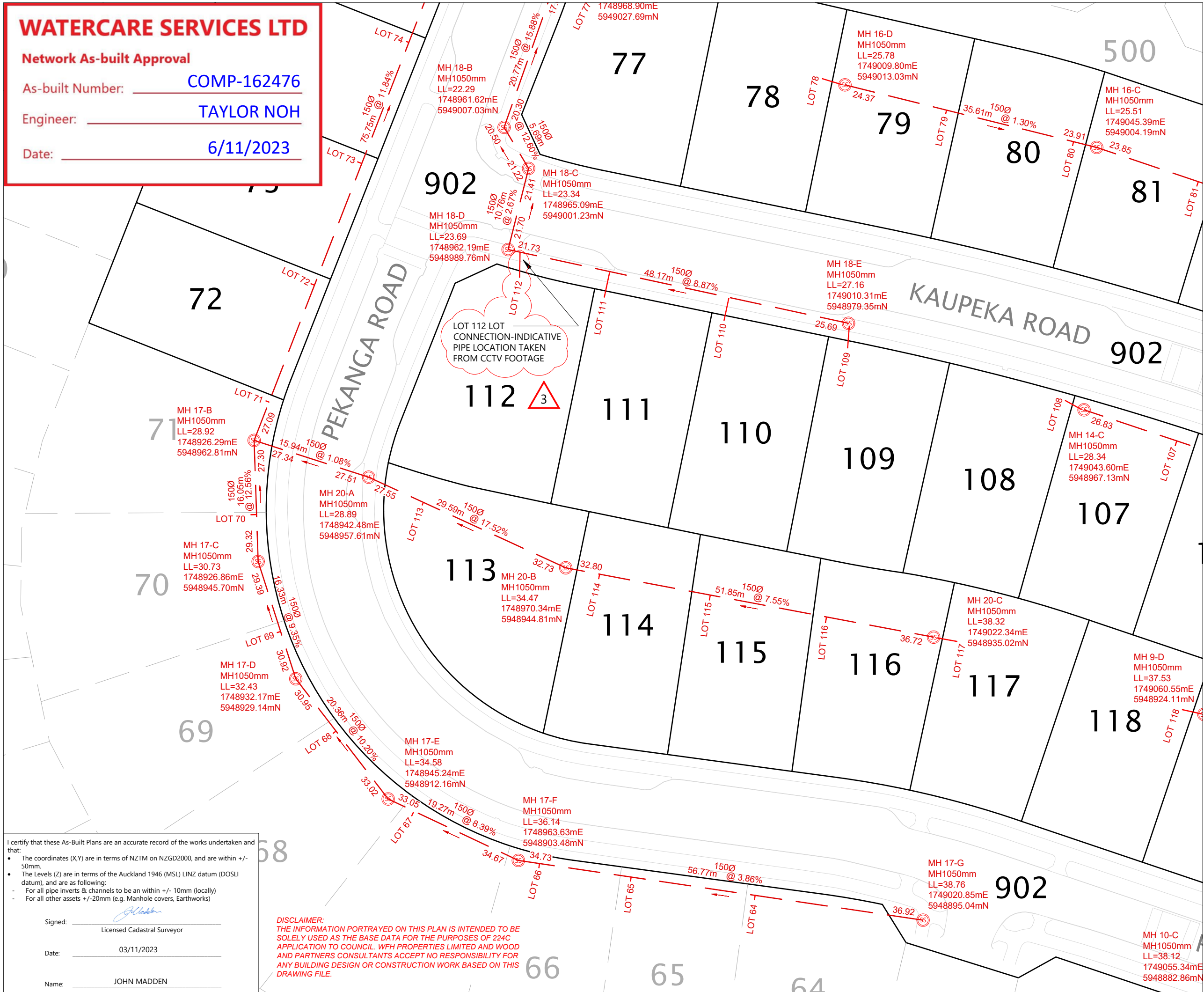
WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-162476

Engineer: TAYLOR NOH

Date: 6/11/2023



LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER	
LOT BOUNDARIES	
STAGE BOUNDARY	
DROP-PROTECTION STRUCTURE (DPS)	
LID TO BE SET WITH FUTURE STAGE	
UPDATED EXISTING LID LEVEL	

- NOTES**
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 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC SN16.
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	09/10/23
2 TEMP LID LEVELS ADDED	JM	30/10/23
3 LOT CONNECTION UPDATED	JM	03/11/23

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	WOODS	8 NUGENT STREET
DRAWN	RL	GRAFTON
CHECKED	JM	AUCKLAND 1023
APPROVED	JM	WOODS.CO.NZ



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

WASTEWATER ASBUILT PLAN SHEET 2 OF 5

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-4001-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, and are within +/- 50mm.
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- For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: John Madden
Licensed Cadastral Surveyor

Date: 03/11/2023

Name: JOHN MADDEN

DISCLAIMER:
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WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-162476

Engineer: TAYLOR NOH

Date: 6/11/2023

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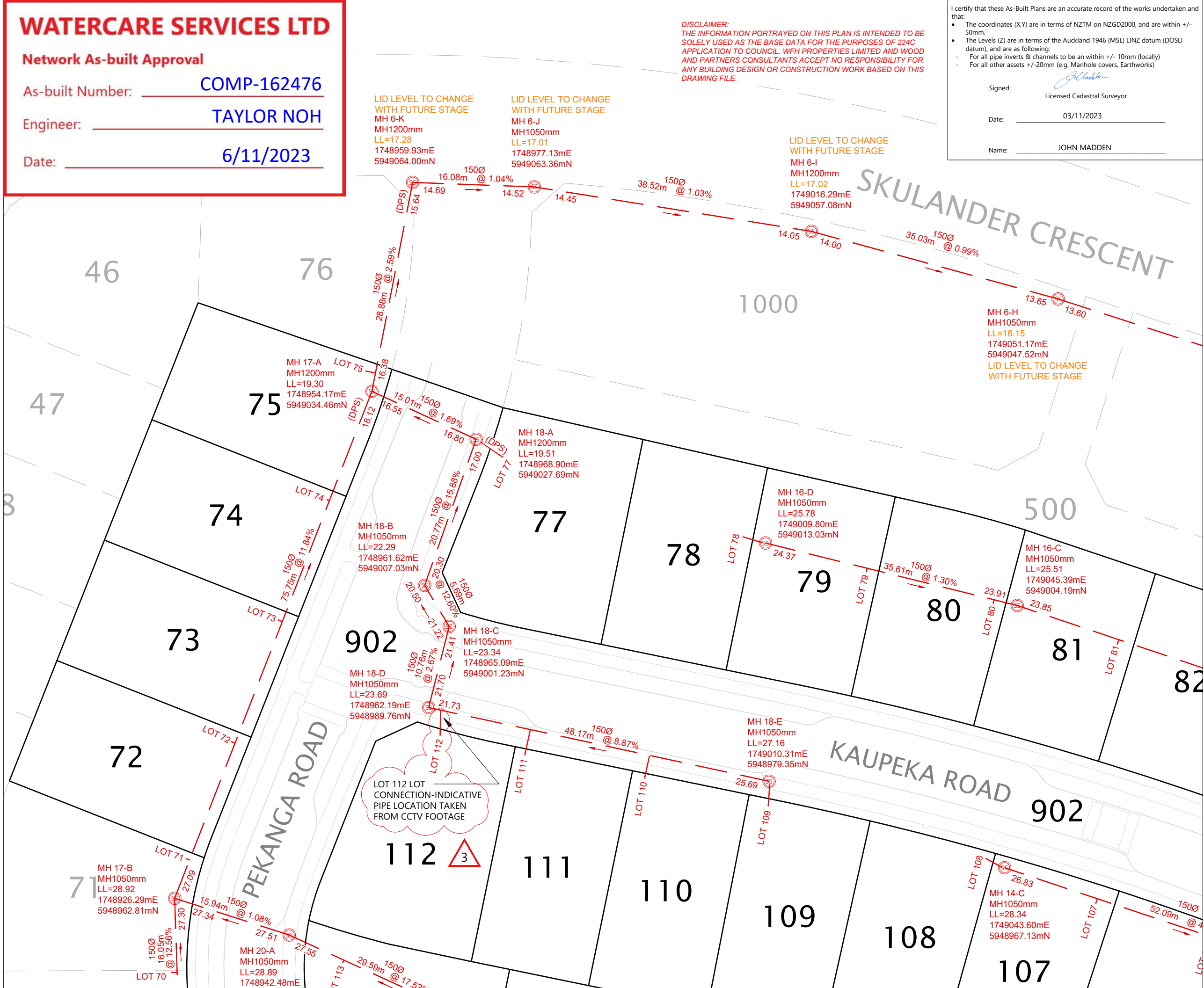
I certify that these As-Built Plans are an accurate record of the works undertaken and that:

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- The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as following:
 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: [Signature]
Licensed Cadastral Surveyor

Date: 03/11/2023

Name: JOHN MADDEN



LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER	
LOT BOUNDARIES	
STAGE BOUNDARY	
DROP-PROTECTION STRUCTURE (DPS)	
LID TO BE SET WITH FUTURE STAGE	
UPDATED EXISTING LID LEVEL	

- NOTES**
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REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	SM	09/10/23
2	TEMP LID LEVELS ADDED	JM	30/10/23
3	LOT CONNECTION UPDATED	JM	03/11/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	JM	



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

WASTEWATER ASBUILT PLAN SHEET 3 OF 5

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-4002-AB	

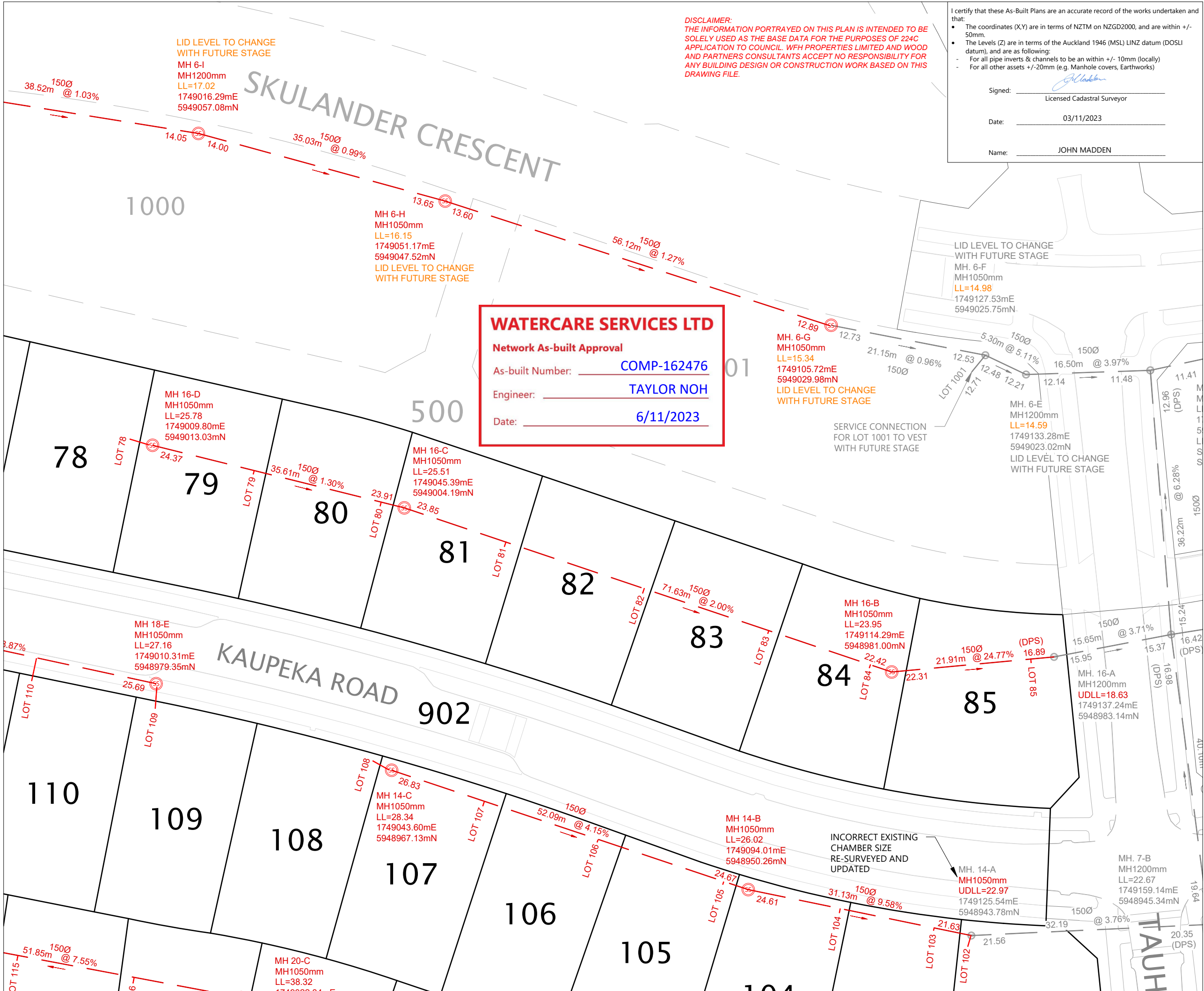
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DISCLAIMER:
 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN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

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 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: Licensed Cadastral Surveyor
 Date: 03/11/2023
 Name: JOHN MADDEN



WATERCARE SERVICES LTD
 Network As-built Approval
 As-built Number: COMP-162476
 Engineer: TAYLOR NOH
 Date: 6/11/2023

LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER	
LOT BOUNDARIES	
STAGE BOUNDARY	
DROP-PROTECTION STRUCTURE (DPS)	
LID TO BE SET WITH FUTURE STAGE	
UPDATED EXISTING LID LEVEL	

- NOTES**
- ALL WASTEWATER PIPES ARE 150mmØ uPVC SN16.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC SN16.
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 - 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	SM	09/10/23
2	TEMP LID LEVELS ADDED	JM	30/10/23
3	LOT CONNECTION UPDATED	JM	03/11/23

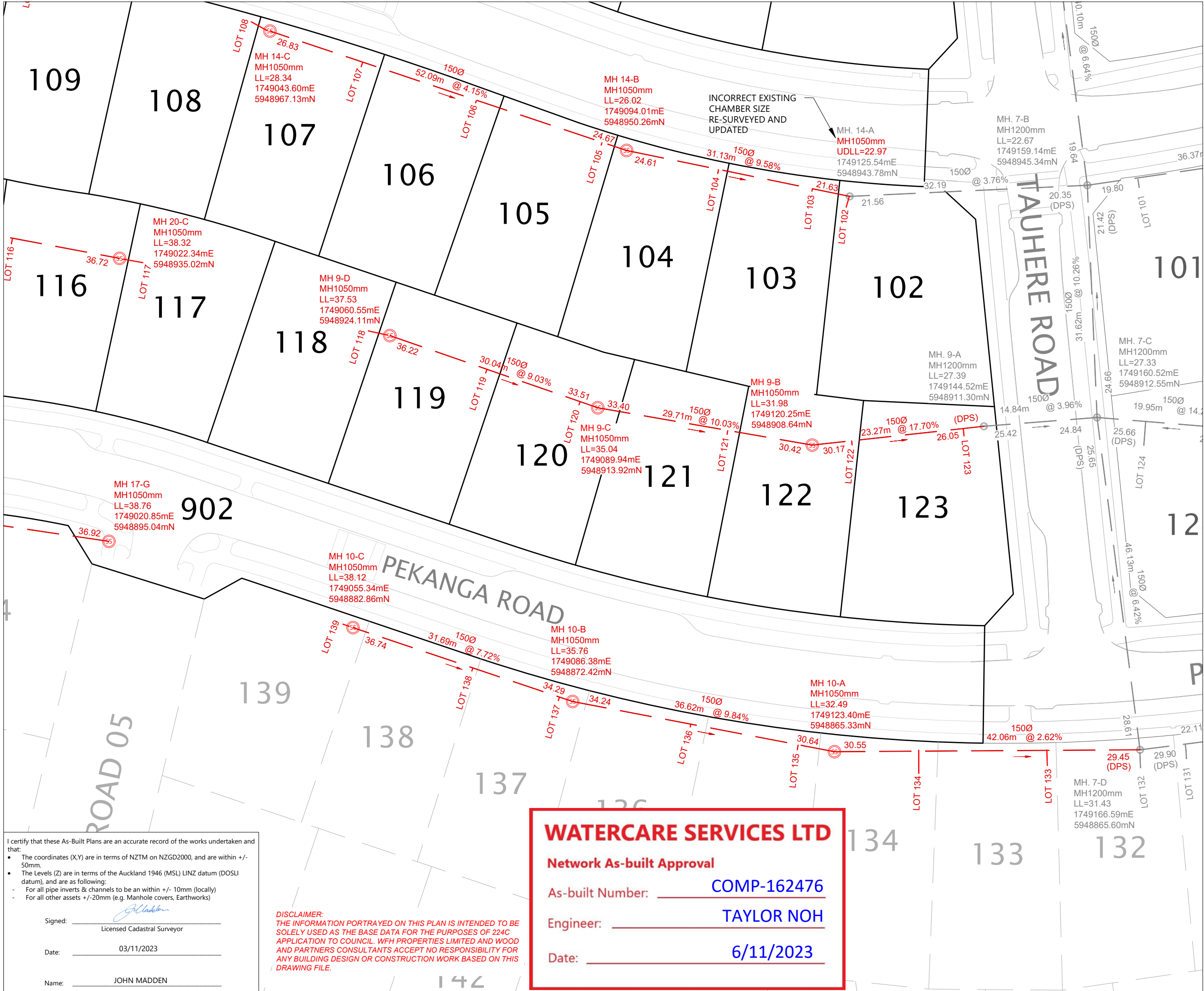
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	RL	
CHECKED	JM	
APPROVED	JM	
	WOODS.CO.NZ	



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

WASTEWATER ASBUILT PLAN SHEET 4 OF 5

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-4003-AB	



LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- LOT BOUNDARIES
- STAGE BOUNDARY
- DROP-PROTECTION STRUCTURE (DPS)
- LID TO BE SET WITH FUTURE STAGE
- UPDATED EXISTING LID LEVEL

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	09/10/23
2 TEMP LID LEVELS ADDED	JM	30/10/23
3 LOT CONNECTION UPDATED	JM	03/11/23

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	WOODS	8 NUGENT STREET
DRAWN	RL	GRAFTON
CHECKED	JM	AUCKLAND 1023
APPROVED	JM	WOODS.CO.NZ



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**WASTEWATER ASBUILT PLAN
SHEET 5 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-4004-AB	

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- For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed:
Licensed Cadastral Surveyor

Date: 03/11/2023

Name: JOHN MADDEN

DISCLAIMER:
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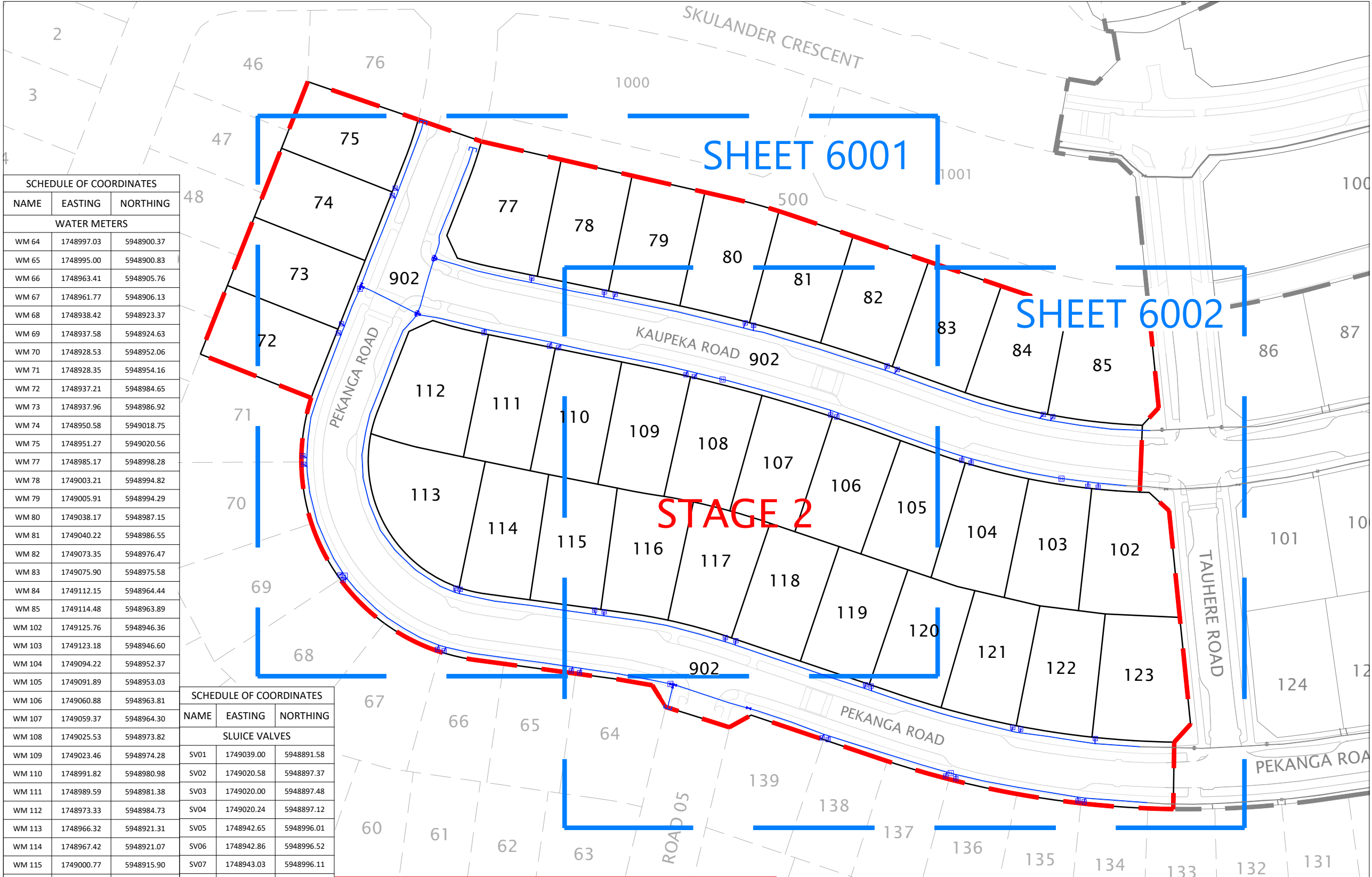
WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-162476

Engineer: TAYLOR NOH

Date: 6/11/2023



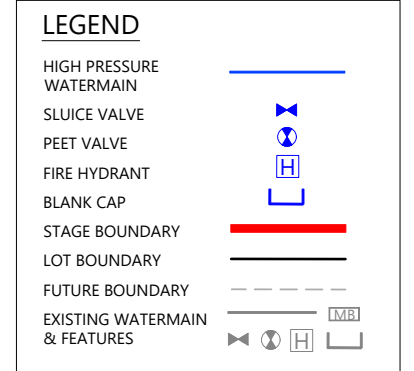
SCHEDULE OF COORDINATES

NAME	EASTING	NORTHING
WATER METERS		
WM 64	1748997.03	5948900.37
WM 65	1748995.00	5948900.83
WM 66	1748963.41	5948905.76
WM 67	1748961.77	5948906.13
WM 68	1748938.42	5948923.37
WM 69	1748937.58	5948924.63
WM 70	1748928.53	5948952.06
WM 71	1748928.35	5948954.16
WM 72	1748937.21	5948984.65
WM 73	1748937.96	5948986.92
WM 74	1748950.58	5949018.75
WM 75	1748951.27	5949020.56
WM 77	1748985.17	5948998.28
WM 78	1749003.21	5948994.82
WM 79	1749005.91	5948994.29
WM 80	1749038.17	5948987.15
WM 81	1749040.22	5948986.55
WM 82	1749073.35	5948976.47
WM 83	1749075.90	5948975.58
WM 84	1749112.15	5948964.44
WM 85	1749114.48	5948963.89
WM 102	1749125.76	5948946.36
WM 103	1749123.18	5948946.60
WM 104	1749094.22	5948952.37
WM 105	1749091.89	5948953.03
WM 106	1749060.88	5948963.81
WM 107	1749059.37	5948964.30
WM 108	1749025.53	5948973.82
WM 109	1749023.46	5948974.28
WM 110	1748991.82	5948980.98
WM 111	1748989.59	5948981.38
WM 112	1748973.33	5948984.73
WM 113	1748966.32	5948921.31
WM 114	1748967.42	5948921.07
WM 115	1749000.77	5948915.90
WM 116	1749003.14	5948915.47
WM 117	1749033.23	5948909.07
WM 118	1749035.83	5948908.30
WM 119	1749068.02	5948897.39
WM 120	1749069.39	5948897.06
WM 121	1749104.54	5948886.79
WM 122	1749106.51	5948886.38
WM 123	1749125.04	5948884.02
WM 134	1749122.28	5948868.32
WM 135	1749120.75	5948868.58
WM 136	1749090.44	5948874.08
WM 137	1749087.92	5948874.72
WM 138	1749058.74	5948883.79
WM 139	1749057.22	5948884.20

SCHEDULE OF COORDINATES

NAME	EASTING	NORTHING
SLUICE VALVES		
SV01	1749039.00	5948891.58
SV02	1749020.58	5948897.37
SV03	1749020.00	5948897.48
SV04	1749020.24	5948897.12
SV05	1748942.65	5948996.01
SV06	1748942.86	5948996.52
SV07	1748943.03	5948996.11
SV08	1748956.99	5948989.35
PEET VALVES		
PV01	1748960.97	5949003.45
PV02	1748961.20	5949003.11
PV03	1748960.78	5949002.96
PV04	1748956.78	5948989.71
PV05	1748956.60	5948989.26
FIRE HYDRANTS		
FH01	1749089.17	5948875.47
FH02	1749019.58	5948897.57
FH03	1748938.78	5948924.44
FH04	1748942.54	5948995.60
FH05	1749032.54	5948973.08
FH06	1749116.65	5948948.50

- NOTES**
- PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM CONRACTOR DATA AND WOODS SURVEY DATA.



REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	JM	30/04/23
2	DRAFT - AMMENDED LABELS	JM	18/05/23
3	ISSUED FOR ASBUILT	EC	04/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	



MILLWATER OREWA WEST PRECINCT 6 - STAGE 2

WATERMAIN ASBUILT PLAN SHEET 1 OF 3

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-6000-AB	

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-162476

Engineer: TAYLOR NOH

Date: 6/11/2023

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, and are within +/- 50mm.
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 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: [Signature]
Licensed Cadastral Surveyor

Date: 04/10/2023

Name: SAM MUIRHEAD

DISCLAIMER:
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Plot Date: 4:51:13 pm 4 October 2023, SAMANTHAM
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: Licensed Cadastral Surveyor
Date: 04/10/2023
Name: SAM MUIRHEAD

NOTES

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LEGEND

- HIGH PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- STAGE BOUNDARY
- LOT BOUNDARY
- FUTURE BOUNDARY
- EXISTING WATERMAIN & FEATURES

REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	JM	30/04/23
2	DRAFT - AMMENDED LABELS	JM	18/05/23
3	ISSUED FOR ASBUILT	EC	04/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

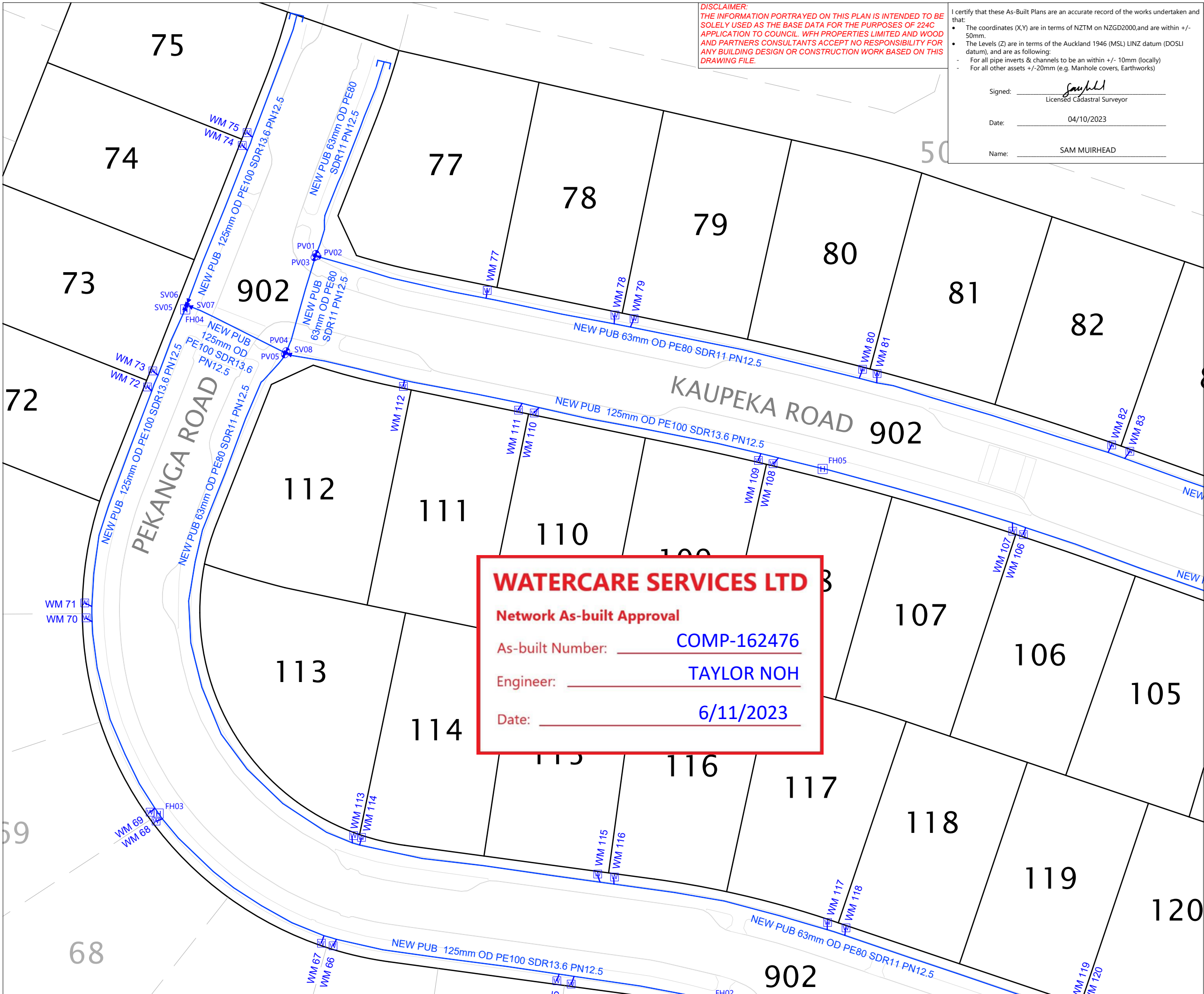


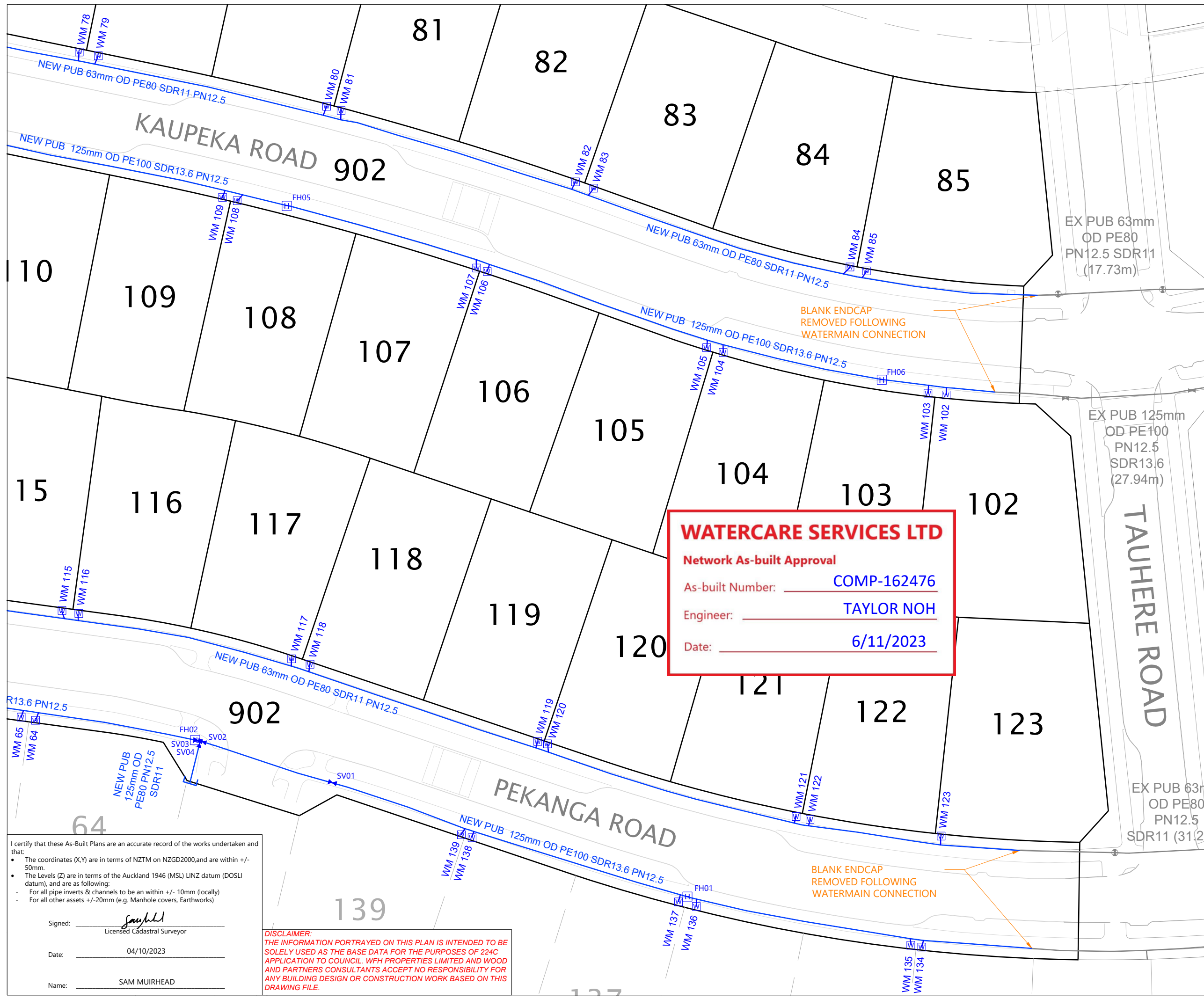
MILLWATER OREWА WEST PRECINCT 6 - STAGE 2

WATERMAIN ASBUILT PLAN
SHEET 2 OF 3

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-6001-AB	

WATERCARE SERVICES LTD
Network As-built Approval
As-built Number: COMP-162476
Engineer: TAYLOR NOH
Date: 6/11/2023





- NOTES**
1. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 2. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 3. ASBUILT DATA HAS BEEN SOURCED FROM CONRACTOR DATA AND WOODS SURVEY DATA.

LEGEND

- HIGH PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- STAGE BOUNDARY
- LOT BOUNDARY
- FUTURE BOUNDARY
- EXISTING WATERMAIN & FEATURES

WATERCARE SERVICES LTD
 Network As-built Approval
 As-built Number: COMP-162476
 Engineer: TAYLOR NOH
 Date: 6/11/2023

REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	JM	30/04/23
2	DRAFT - AMMENDED LABELS	JM	18/05/23
3	ISSUED FOR ASBUILT	EC	04/10/23

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	JM	
APPROVED	SM	

WFH PROPERTIES

**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 2**

**WATERMAIN ASBUILT PLAN
SHEET 3 OF 3**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-6002-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, and are within +/- 50mm.
- The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as following:
 - For all pipe inverts & channels to be an within +/- 10mm (locally)
 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: [Signature]
 Licensed Cadastral Surveyor

Date: 04/10/2023

Name: SAM MUIRHEAD

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

Plot Date: 4:51:13 pm 4 October 2023, SAMANTHAM
 File: C:\12DS\ENERGY\DATA\WP-FEN-APP-01\P21-400-00-6002-AB WATERMAIN.DWG

SCHEDULE OF COORDINATES

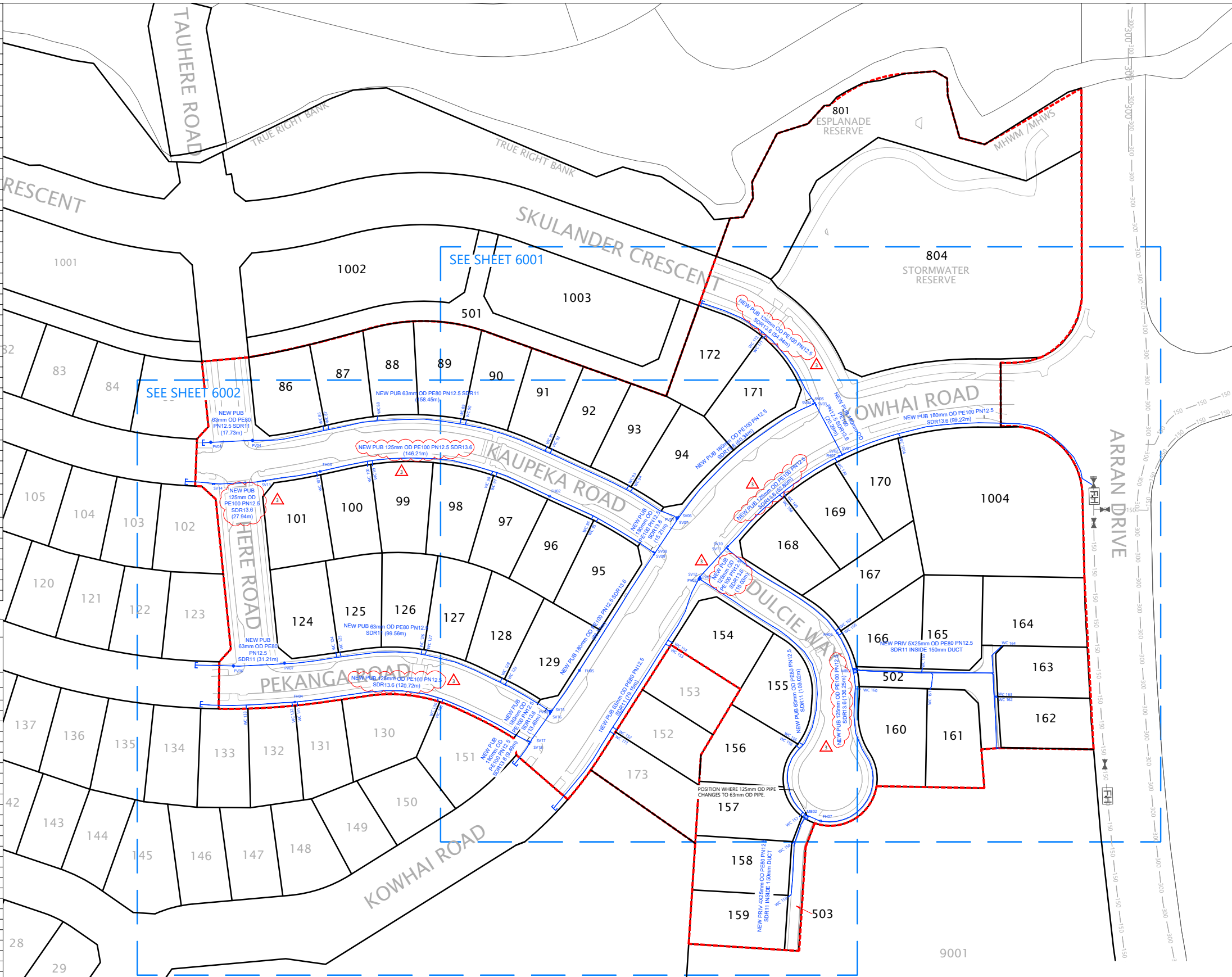
WATER RETICULATION LOT CONNECTIONS

NAME	EASTING	NORTHING
WC 86	1749181.15	5948966.46
WC 87	1749182.90	5948966.97
WC 88	1749200.67	5948970.04
WC 89	1749230.09	5948969.13
WC 90	1749232.07	5948968.80
WC 91	1749260.29	5948959.16
WC 92	1749262.28	5948958.34
WC 93	1749289.25	5948945.40
WC 94	1749290.64	5948944.47
WC 95	1749277.54	5948932.53
WC 96	1749275.94	5948933.38
WC 97	1749242.12	5948948.40
WC 98	1749240.44	5948948.89
WC 99	1749198.76	5948952.24
WC 100	1749196.97	5948952.00
WC 101	1749179.23	5948948.55
WC 102	1749185.71	5948886.61
WC 103	1749187.13	5948886.67
WC 104	1749216.18	5948887.35
WC 105	1749217.77	5948887.14
WC 106	1749244.56	5948877.39
WC 107	1749246.37	5948876.55
WC 108	1749304.64	5948889.85
WC 109	1749349.12	5948854.73
WC 110	1749348.06	5948853.76
WC 111	1749349.45	5948828.49
WC 112	1749346.80	5948818.94
WC 113	1749345.42	5948800.12
WC 114	1749371.04	5948873.52
WC 115	1749395.53	5948873.35
WC 116	1749419.26	5948870.52
WC 117	1749419.18	5948871.04
WC 118	1749421.03	5948888.89
WC 119	1749392.85	5948880.71
WC 120	1749364.82	5948893.38
WC 121	1749363.52	5948895.11
WC 122	1749343.87	5948940.86
WC 123	1749344.76	5948941.54
WC 124	1749362.80	5948953.42
WC 125	1749336.40	5948997.21
WC 126	1749335.51	5948998.22
WC 127	1749384.99	5948962.63
WC 128	1749221.69	5948869.27
WC 129	1749172.18	5948867.53
WC 130	1749170.46	5948867.53
WC 131	1749154.19	5948866.55
WC 132	1749223.21	5948868.78
WC 133	1749285.16	5948858.97
WC 134	1749303.86	5948888.63
WC 135	1749284.21	5948857.51

SCHEDULE OF COORDINATES

WATER RETICULATION VALVES, HYDRANTS AND MANIFOLD BOXES

NAME	EASTING	NORTHING
SV01	1749364.86	5948956.40
SV02	1749364.06	5948955.97
SV03	1749355.04	5948974.18
SV04	1749354.59	5948974.28
SV05	1749354.58	5948974.82
SV06	1749306.67	5948933.98
SV07	1749306.24	5948933.44
SV08	1749298.09	5948921.76
SV09	1749298.22	5948921.34
SV10	1749323.91	5948923.62
SV11	1749323.95	5948923.21
SV12	1749314.18	5948912.81
SV13	1749160.48	5948946.98
SV14	1749142.62	5948945.88
SV15	1749261.90	5948865.68
SV16	1749261.56	5948865.13
SV17	1749254.13	5948854.91
SV18	1749254.24	5948854.52
PV01	1749306.19	5948933.90
PV02	1749314.01	5948912.36
PV03	1749314.37	5948912.49
PV04	1749156.35	5948961.26
PV05	1749141.57	5948960.63
PV06	1749149.60	5948881.67
PV07	1749167.61	5948882.67
PV08	1749261.37	5948865.57
FH01	1749363.43	5948955.66
FH02	1749261.17	5948941.59
FH03	1749180.21	5948950.35
FH04	1749171.30	5948868.91
FH05	1749271.75	5948879.94
FH06	1749362.76	5948893.31
FH07	1749356.92	5948826.96
MB1	1749369.06	5948880.04
MB2	1749351.68	5948828.34



- 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.

LEGEND

- EXISTING WATERMAIN
- HIGH PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- WATER METER BANK
- STAGE BOUNDARY
- LOT BOUNDARY

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	04/04/22
2	ISSUED FOR 224C	MD	05/07/22
3	PIPE SPECS CORRECTED	EC	04/10/23

SURVEYED WOODS
DESIGNED WOODS
DRAWN MD
CHECKED RV
APPROVED KR

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



ARRAN HILL PRECINCT 6 STAGE 1
WATERMAIN ASBUILT PLAN
LAYOUT SHEET
SHEET 1 OF 3

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6000-AB	

PIPE MATERIAL UPDATED

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, and are within +/- 50mm.
- The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as following:
 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: Licensed Cadastral Surveyor
 Date: 04/10/2023
 Name: SAM MUIRHEAD

DISCLAIMER:
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804
 STORMWATER
 RESERVE

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Signed: [Signature]
 Licensed Cadastral Surveyor

Date: 04/10/2023

Name: SAM MUIRHEAD



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 - 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: —50—50—, —100—100—, —150—150—, —300—300—

HIGH PESSURE WATERMAIN: ————

SLUICE VALVE: [Symbol]

PEET VALVE: [Symbol]

FIRE HYDRANT: [Symbol]

BLANK CAP: [Symbol]

WATER METER BANK: [Symbol]

STAGE BOUNDARY: [Symbol]

LOT BOUNDARY: [Symbol]

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	04/04/22
2 ISSUED FOR 224C	MD	05/07/22
3 PIPE SPECS CORRECTED	EC	04/10/23

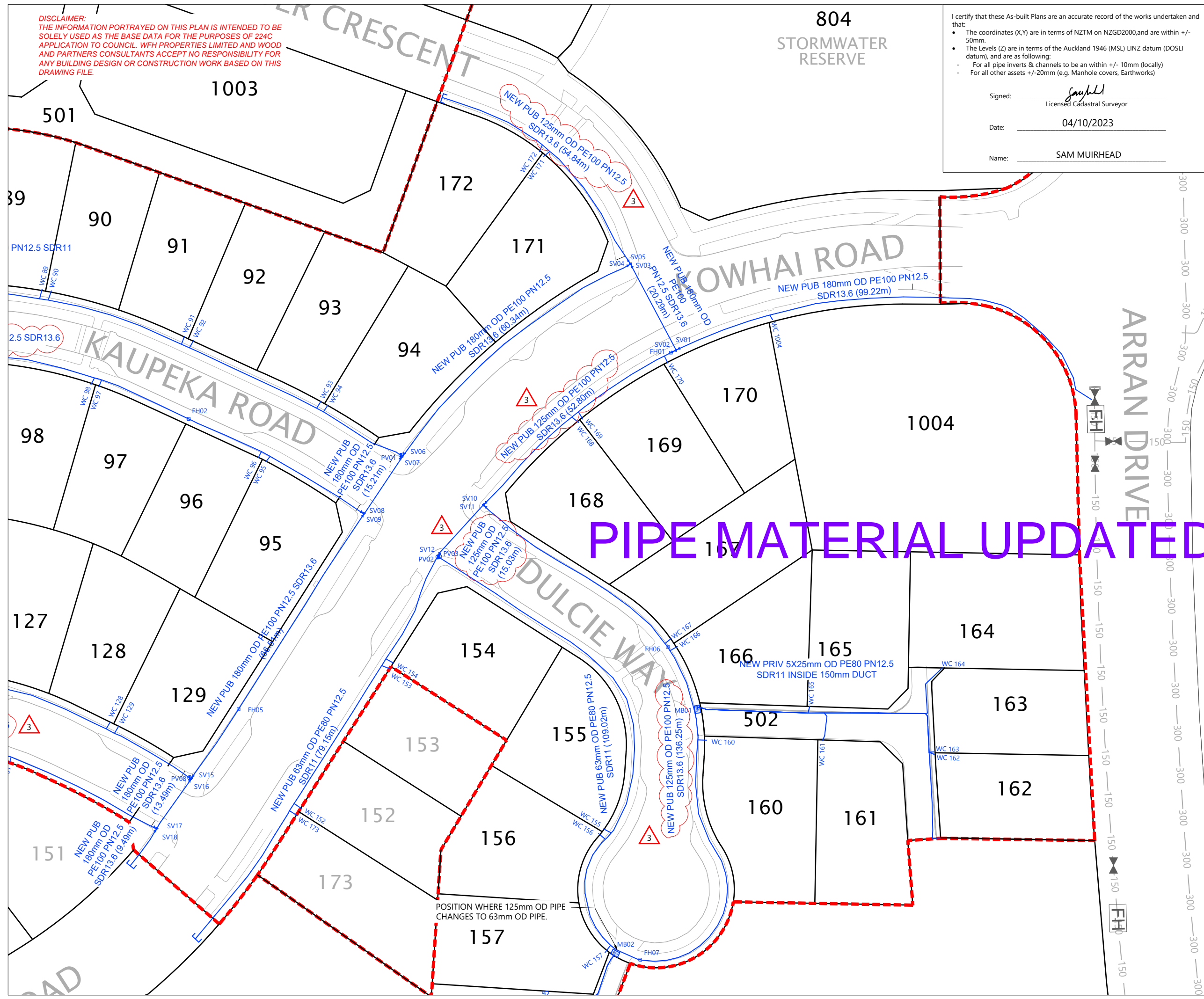
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



**ARRAN HILL
 PRECINCT 6 STAGE 1**

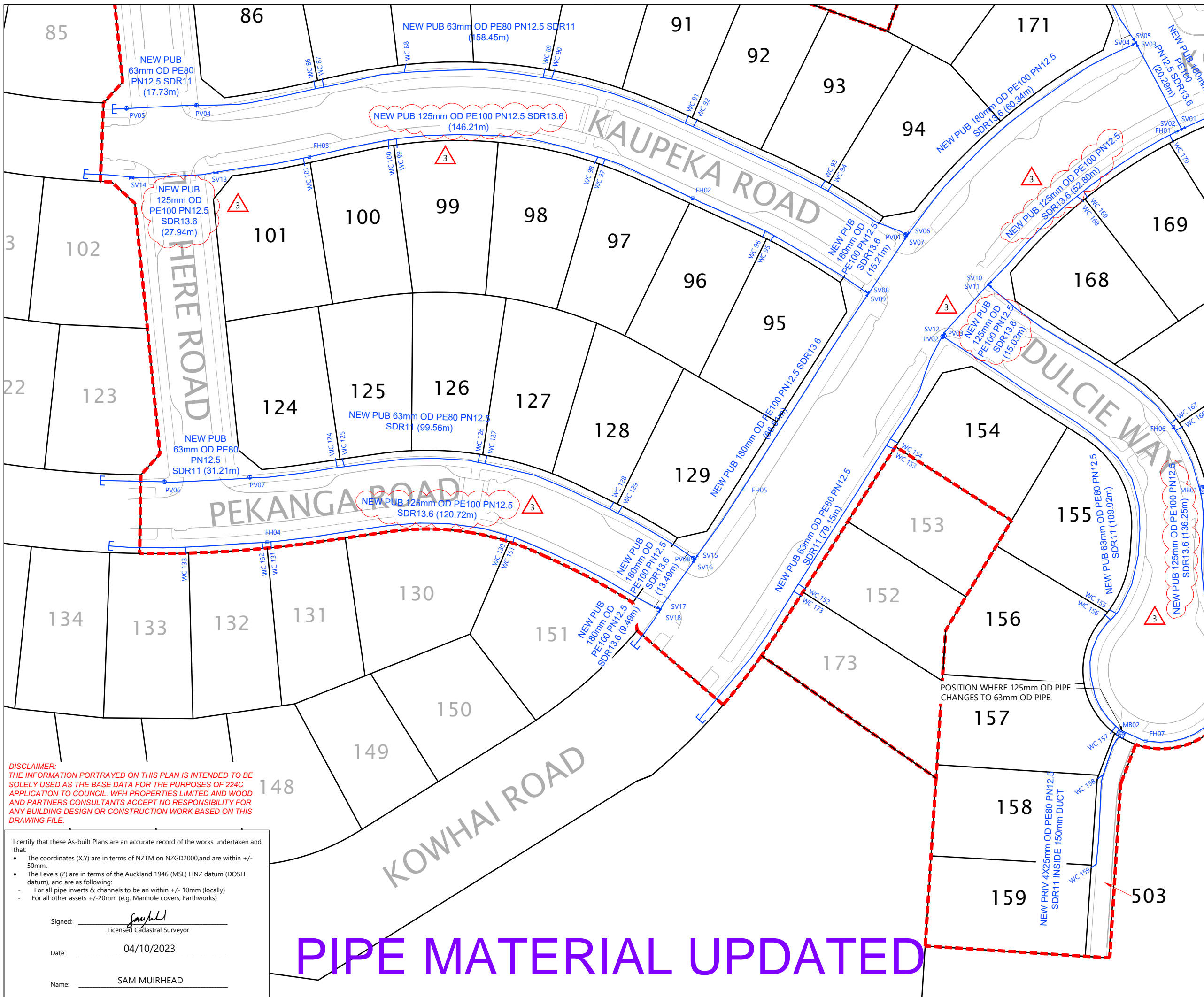
**WATERMAIN ASBUILT PLAN
 SHEET 2 OF 3**

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6001-AB	



PIPE MATERIAL UPDATED

POSITION WHERE 125mm OD PIPE CHANGES TO 63mm OD PIPE.



- NOTES**
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LEGEND

EXISTING WATERMAIN	— 50 — 50 — — 100 — 100 — — 300 — 300 —
HIGH PRESSURE WATERMAIN	— — —
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
WATER METER BANK	
STAGE BOUNDARY	
LOT BOUNDARY	

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	04/04/22
2	ISSUED FOR 224C	MD	05/07/22
3	PIPE SPECS CORRECTED	EC	04/10/23

SURVEYED WOODS
DESIGNED WOODS
DRAWN MD
CHECKED RV
APPROVED KR

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



**ARRAN HILL
 PRECINCT 6 STAGE 1
 WATERMAIN ASBUILT PLAN
 SHEET 3 OF 3**

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6002-AB	

DISCLAIMER:
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed:
 Licensed Cadastral Surveyor

Date: 04/10/2023

Name: SAM MUIRHEAD

PIPE MATERIAL UPDATED

PIPE MATERIAL UPDATED



SCHEDULE OF COORDINATES		
WATER RETICULATION LOT CONNECTIONS		
NAME	EASTING	NORTHING
LOT 1002	1749234.21	5949035.56
LOT 1003	1749305.04	5949011.38
LOT 173	1749284.21	5948857.51
LOT 152	1749285.16	5948858.97
LOT 153	1749303.86	5948888.63

SCHEDULE OF COORDINATES		
WATER RETICULATION VALVES AND HYDRANTS		
NAME	EASTING	NORTHING
FH 1	1749301.16	5949014.68
FH 2	1749213.36	5949038.71
FH 3	1749129.16	5949029.15
SV 1	1749137.17	5949023.66

WATER METERS		
LOT	EASTING	NORTHING
LOT 1002	1749234.41	5949036.38
LOT 1003	1749305.94	5949012.28

- NOTES**
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LEGEND

HIGH PRESSURE WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
WATER METER BANK	
STAGE BOUNDARY	
LOT BOUNDARY	
FUTURE BOUNDARY	
EXISTING WATERMAIN & FEATURES	
FUTURE WATERMAIN	

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	SM	20/12/22
2	CERTIFICATION AMENDED	SM	10/01/23
3	WATER METERS ADDED	SM	01/02/23
4	PIPE SPECS CORRECTED	EC	04/10/23

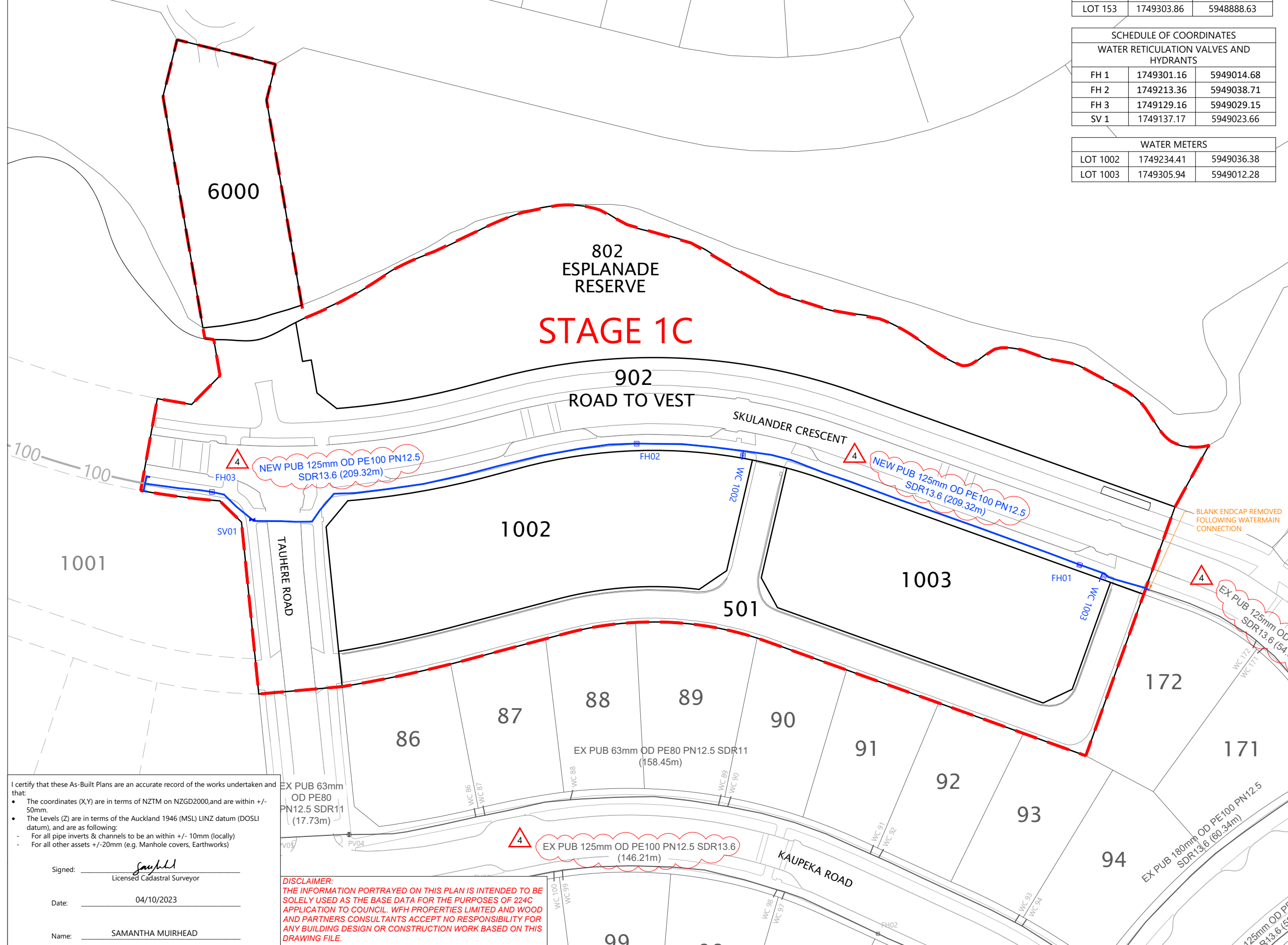
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	SM	



MILLWATER OREWA WEST PRECINCT 6 - STAGE 1B/1C

WATERMAIN ASBUILT PLAN SHEET 1 OF 2

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-006-00-6000-AB	



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 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: *Samantha Muirhead*
Licensed Cadastral Surveyor

Date: 04/10/2023

Name: SAMANTHA MUIRHEAD

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SCHEDULE OF COORDINATES		
WATER RETICULATION LOT CONNECTIONS		
NAME	EASTING	NORTHING
LOT 1002	1749234.21	5949035.56
LOT 1003	1749305.04	5949011.38
LOT 173	1749284.21	5948857.51
LOT 152	1749285.16	5948858.97
LOT 153	1749303.86	5948888.63

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 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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LEGEND

HIGH PRESSURE WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
WATER METER BANK	
STAGE BOUNDARY	
LOT BOUNDARY	
FUTURE BOUNDARY	
EXISTING WATERMAIN & FEATURES	
FUTURE WATERMAIN	

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	SM	20/12/22
2	CERTIFICATION AMENDED	SM	10/01/23
3	WATER METERS ADDED	SM	01/02/23
4	PIPE SPECS CORRECTED	EC	10/04/23

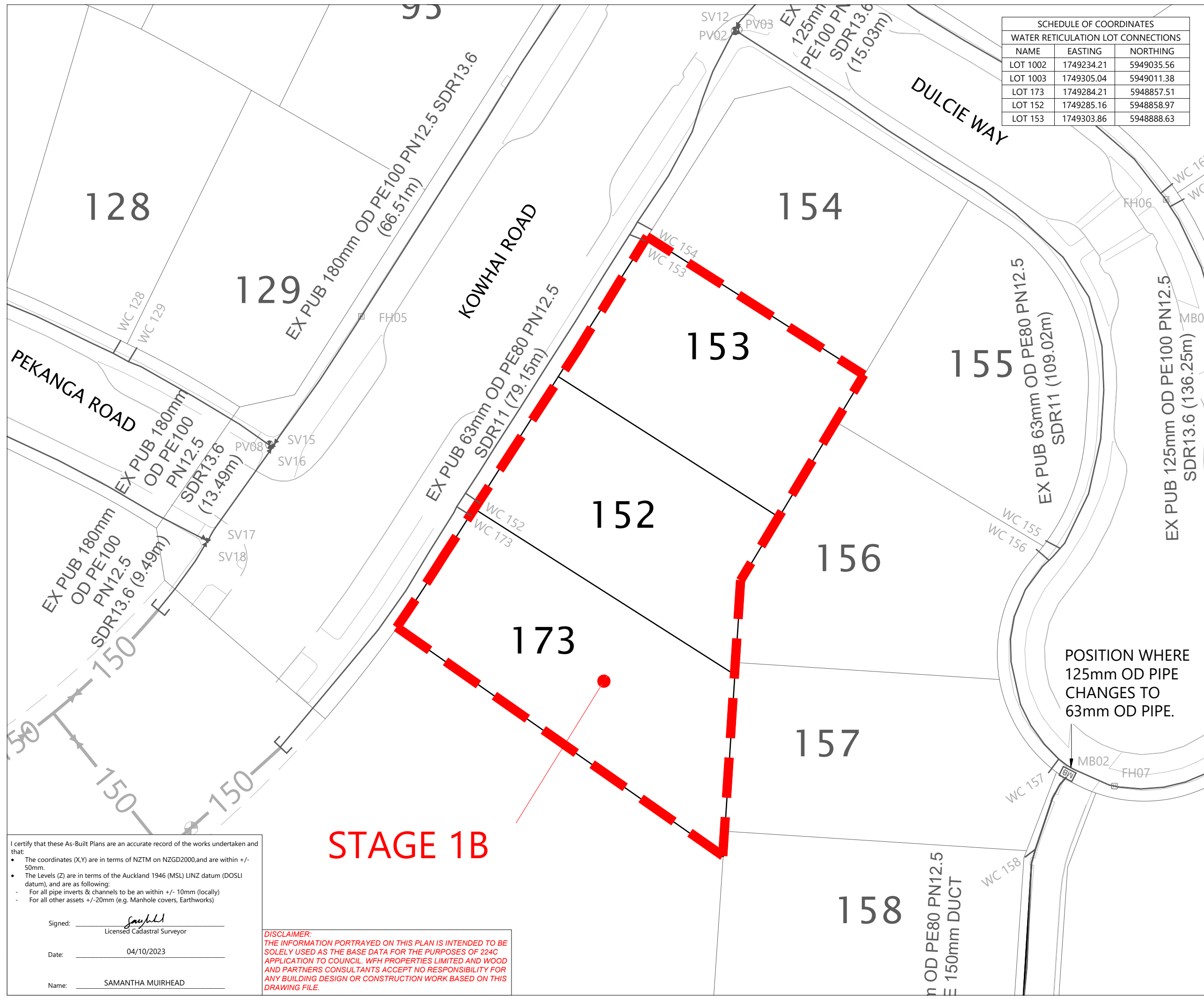
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 1B/1C**

**WATERMAIN ASBUILT PLAN
SHEET 2 OF 2**

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-006-00-6001-AB	



STAGE 1B

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

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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: *Samantha Muirhead*
Licensed Cadastral Surveyor

Date: 04/10/2023

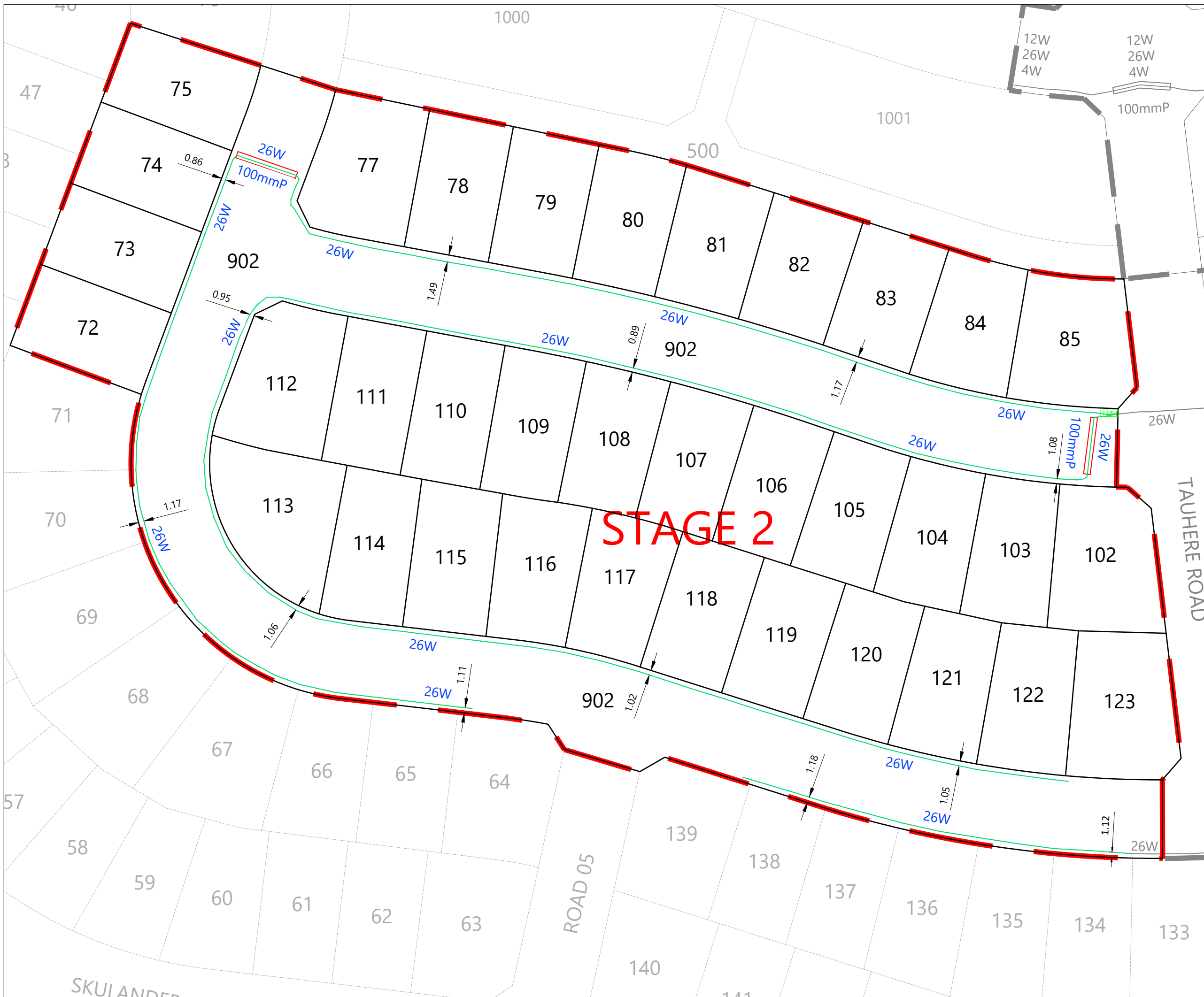
Name: SAMANTHA MUIRHEAD

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LEGEND	
LOT BOUNDARIES	
EXISTING BOUNDARIES	
TELECOM RIBBONET	
EXISTING TELECOM RIBBONET	
100mm TELECOM DUCT	
TELECOMMUNICATIONS COVER	

DISCLAIMER:
 THIS DRAWING WAS PREPARED BY WOODS RELATING TO THE PROVISIONS OF THE AGREEMENT BETWEEN CHORUS LTD AND WFH. THE INFORMATION PRESENTED IN THIS DRAWING IS A RESULT OF COLLATING TELECOM AS-BUILT INFORMATION SUPPLIED BY CONTRACTORS, FOR CIVIL WORKS IN STAGE 2, OF ARRAN HILL PRECINCT 6.

WOODS AND PARTNERS CONSULTANTS MAKES NO WARRANTIES THAT THE CONTENTS OF THIS DRAWING ENSURE ACCURATE TELECOM INFORMATION. IT IS THE DOCUMENT USER'S SOLE RESPONSIBILITY TO LOCATE THE TELECOM UNDERGROUND PIPES, CABLES, DUCTING & OTHER CHORUS PROPERTY PRIOR TO EXCAVATION AND/OR PROJECT PLANNING. WFH PROPERTIES LIMITED & WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING.



STAGE 2

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	SM	05/10/23

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

ARRAN HILL PRECINCT 6 STAGE 2

TELECOMS ASBUILT PLAN

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P21-400-00-7000-AB	