

MILLWATER - PRECINCT 2 STAGE 4D AS-BUILT DRAWINGS

AUGUST 2017

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



WOODS
Engineers. Surveyors. Planners.

MILLWATER - PRECINCT 2 STAGE 4D

AS-BUILT DRAWINGS

CONTENT INDEX AND LOCALITY PLAN

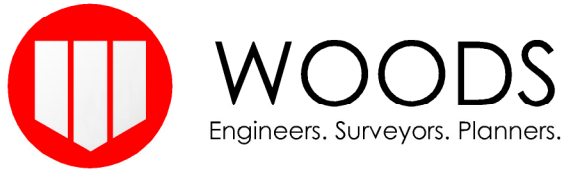
COVER PAGE	
000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 04A AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100 - 102	Final Contour As-Built Plan
110	Cut/Fill Original Surface - Earthwork Surface As-Built Plan
111	Cut/Fill Earthworks Surface - Final Surface As-Built Plan
112	Cut/Fill Original Surface - Final Surface As-Built Plan
120	Cut/Fill - Shear Key, Undercut & Subsoil Drains As-Built Plan
130 - 131	Retaining Wall As-Built Plan
200 - 203	Roading As-Built Plans
300 - 304	Stormwater As-Built Plan
400 - 403	Wastewater As-Built Plan
600 - 603	Watermain As-Built Plan

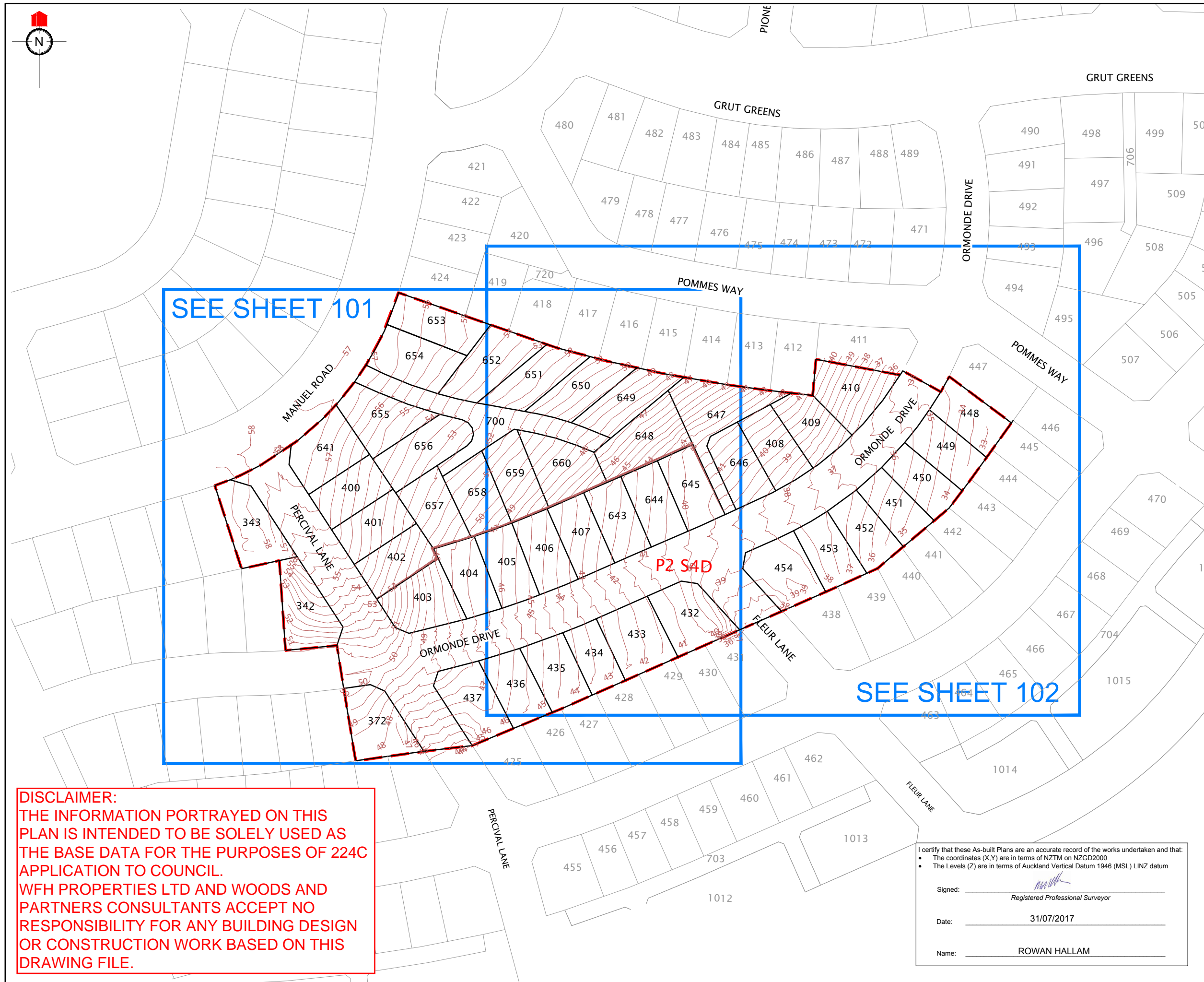
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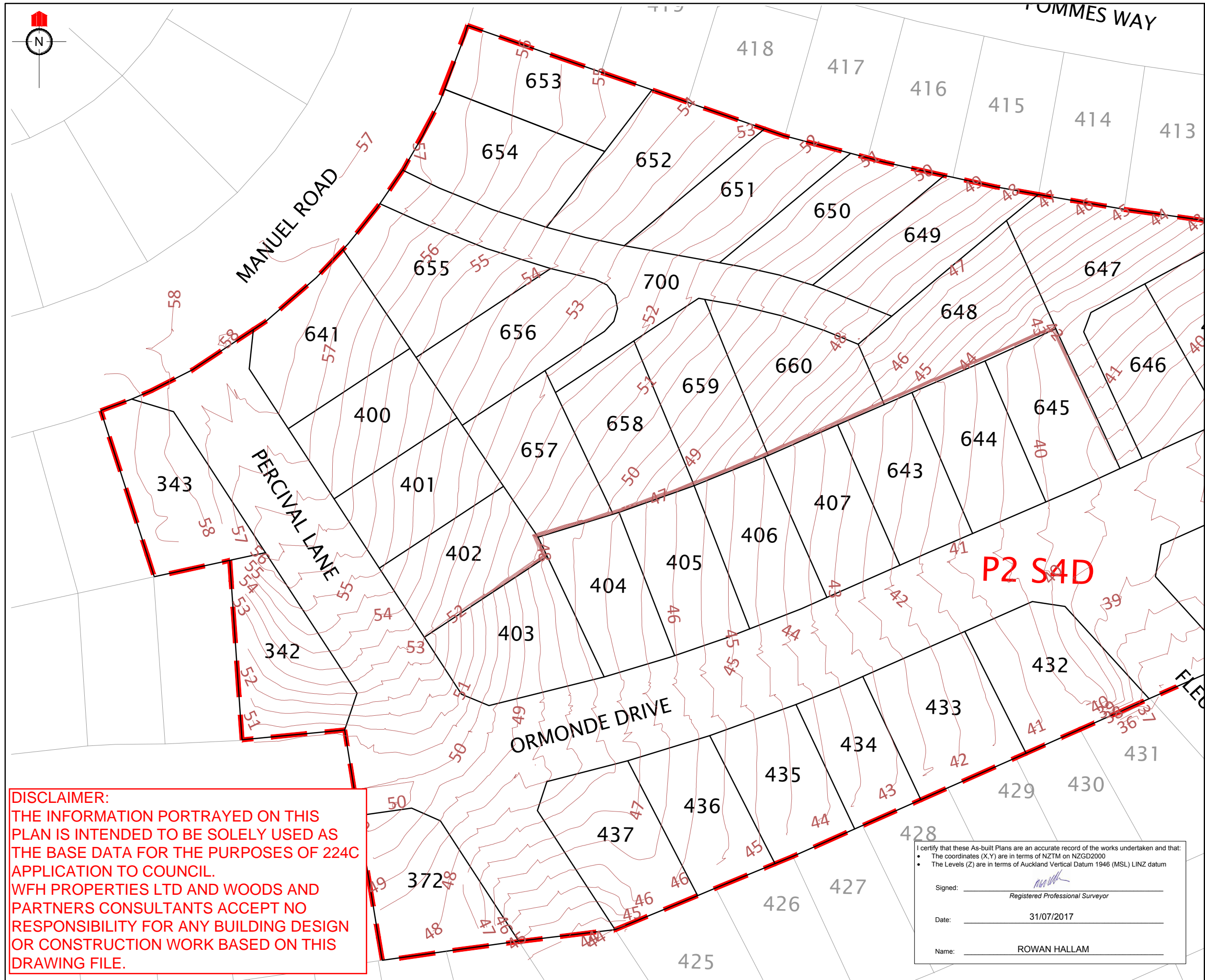
LOCATION PLAN

NOT TO SCALE





REVISION DETAILS		NAME	DATE
<div>NOTES</div> <div>1. CONTOURS ARE AT 0.5 METER INTERVALS</div>			
<div>LEGEND</div> <div><div>CONTOURS MAJOR</div><div>CONTOURS MINOR</div><div>STAGE BOUNDARIES</div><div>LOT BOUNDARIES</div></div>			
CLIENT:			
<div>WFH PROPERTIES</div>			
<div>WOODS</div> <div>Engineers. Surveyors. Planners.</div>			
MILLWATER PRECINCT 2 STAGE 4D			
FINAL CONTOUR AS-BUILT PLAN			
AUCKLAND COUNCIL			
DESIGNED: RV	ASBUILT		
CHECKED: KR	DRAWN: KR		
APPROVED: RH	SURVEYED: WOODS		
JOB NUMBER: 33221	SCALE: 1:1500 @ A3		
ISSUED: JULY 2017			
DWG. NO. 33221-04D-100-AB	REV.		



REVISION DETAILS		NAME	DATE
<div>NOTES</div> <div>1. CONTOURS ARE AT 0.5 METER INTERVALS</div>			
<div>LEGEND</div> <div><div>CONTOURS MAJOR</div><div>CONTOURS MINOR</div><div>STAGE BOUNDARIES</div><div>LOT BOUNDARIES</div></div>			
CLIENT:			
<div>WFH</div> <div>PROPERTIES</div>			
<div>WOODS</div> <div>Engineers. Surveyors. Planners.</div>			
MILLWATER PRECINCT 2 STAGE 4D			
FINAL CONTOUR AS-BUILT PLAN			
AUCKLAND COUNCIL			
DESIGNED:	JB	ASBUILT	
CHECKED:	KR	DRAWN:	KR
APPROVED:	RH	SURVEYED:	WOODS
JOB NUMBER:	33221	SCALE:	1:750 @ A3
ISSUED:	JULY 2017		
DWG. NO.	33221-04D-101-AB		REV.

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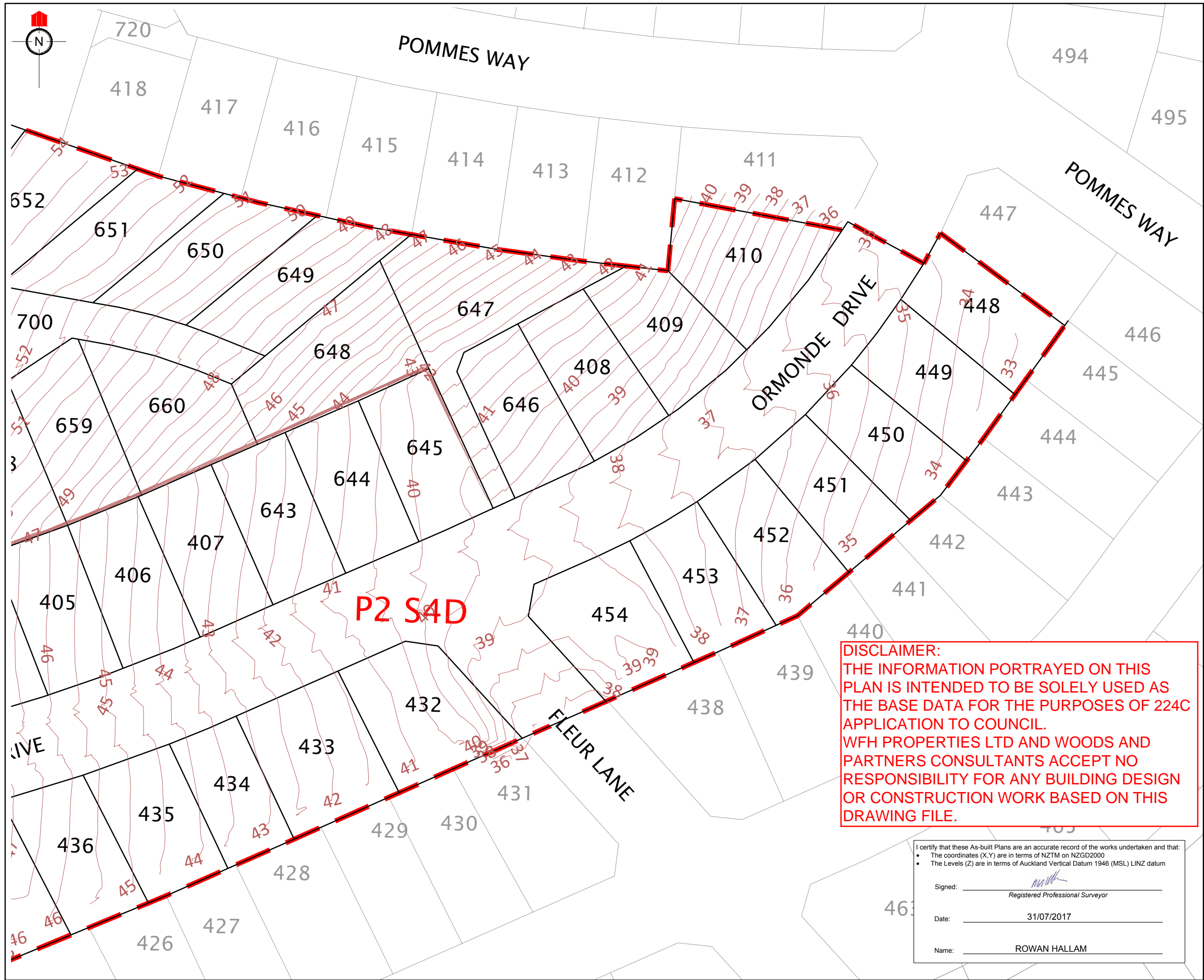
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 31/07/2017

Name: ROWAN HALLAM



REVISION DETAILS

NAME

DATE

NOTES

1. CONTOURS ARE AT 0.5 METER INTERVALS

LEGEND

CONTOURS MAJOR

CONTOURS MINOR

STAGE BOUNDARIES

LOT BOUNDARIES

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4D

FINAL CONTOUR
AS-BUILT PLAN

AUCKLAND COUNCIL

DESIGNED: JB

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33221

ISSUED: JULY 2017

DWG. NO. 33221-04D-102-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:750 @ A3

REV.

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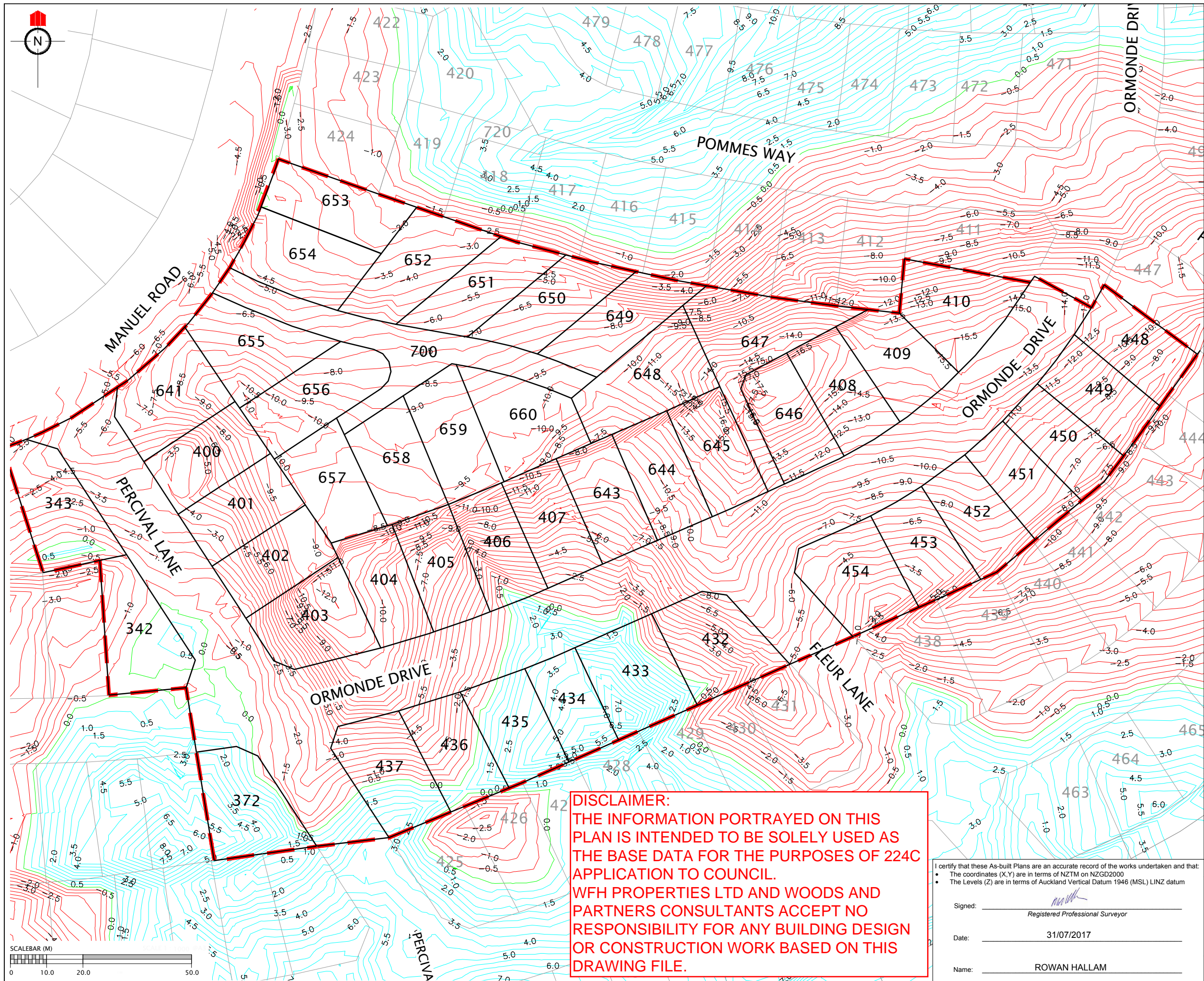
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Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: ROWAN HALLAM



REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4D**

CUT/FILL CONTOUR AS-BUILT
ORIGINAL SURFACE -
EARTHWORKS SURFACE

AUCKLAND COUNCIL

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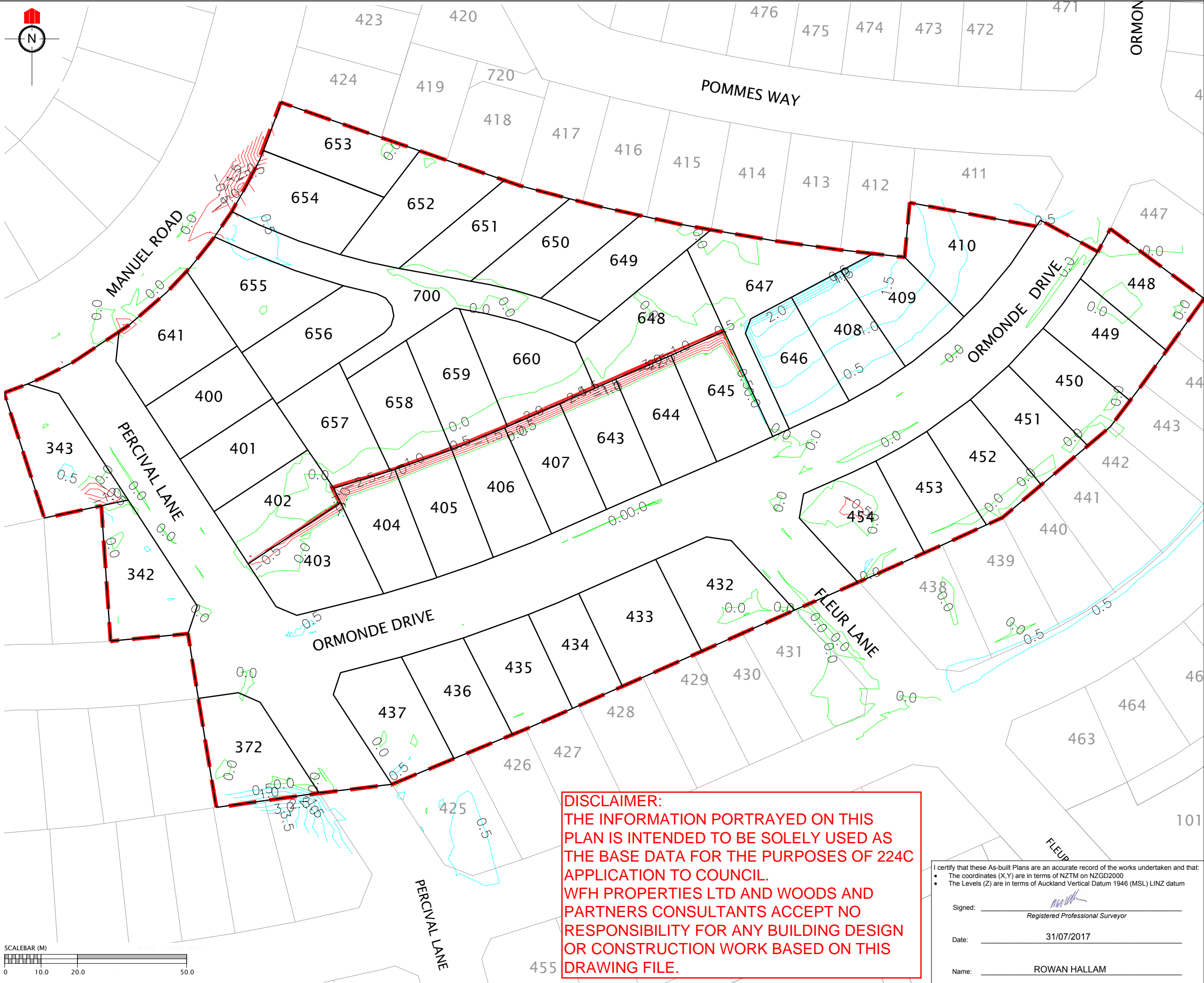
Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: ROWAN HALLAM

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1000 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-110-AB	REV.

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REVISION DETAILS	NAME	DATE

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

CLIENT:

WFH
PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4D**

CUT/FILL CONTOUR AS-BUILT
EARTHWORKS SURFACE - FINAL
SURFACE

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1000 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-111-AB	REV.

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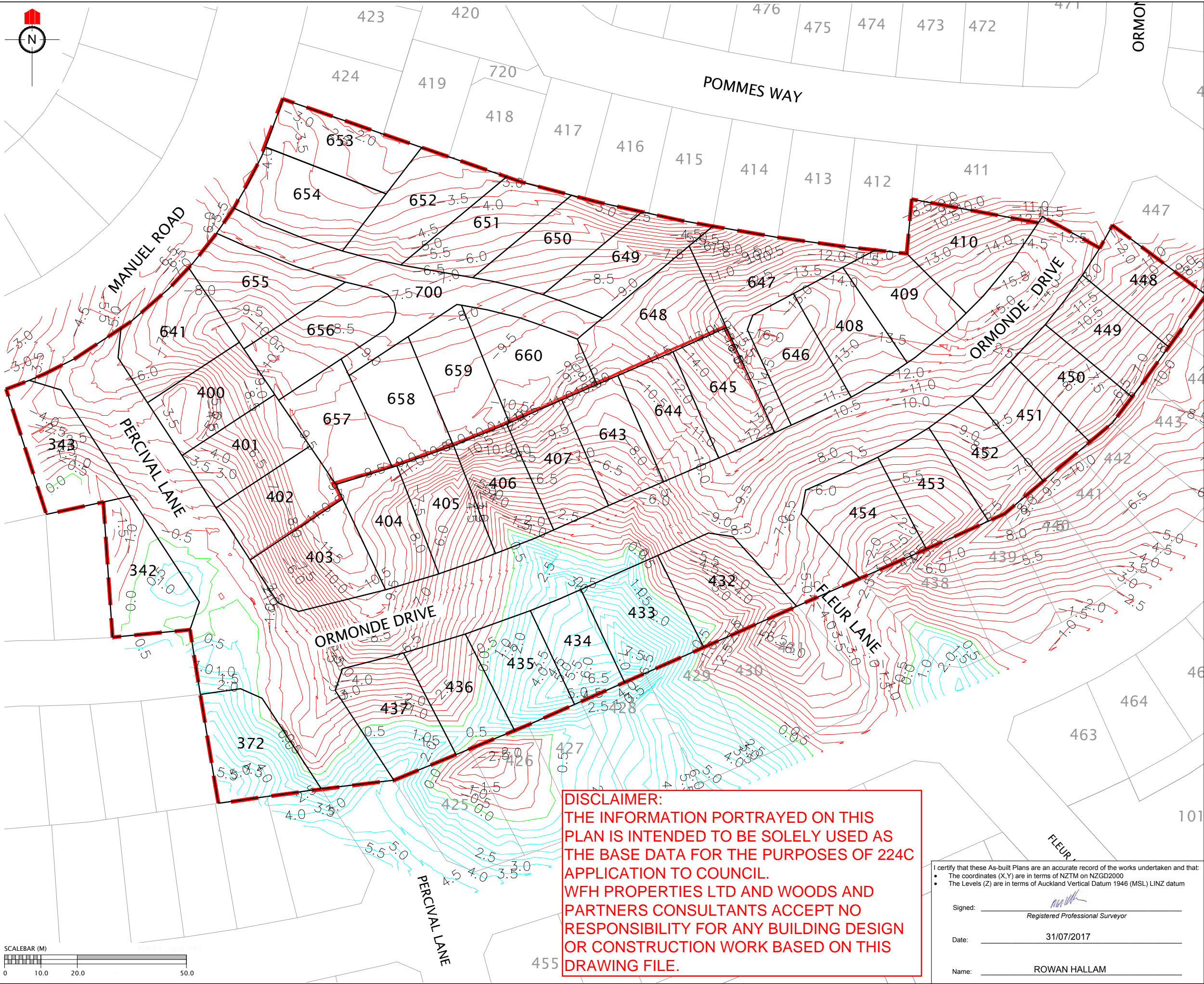
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Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: ROWAN HALLAM



REVISION DETAILS		NAME	DATE

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

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

CLIENT:

MILLWATER PRECINCT 2 STAGE 4D

CUT/FILL CONTOUR AS-BUILT ORIGINAL SURFACE - FINAL SURFACE

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1000 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-112-AB	REV.

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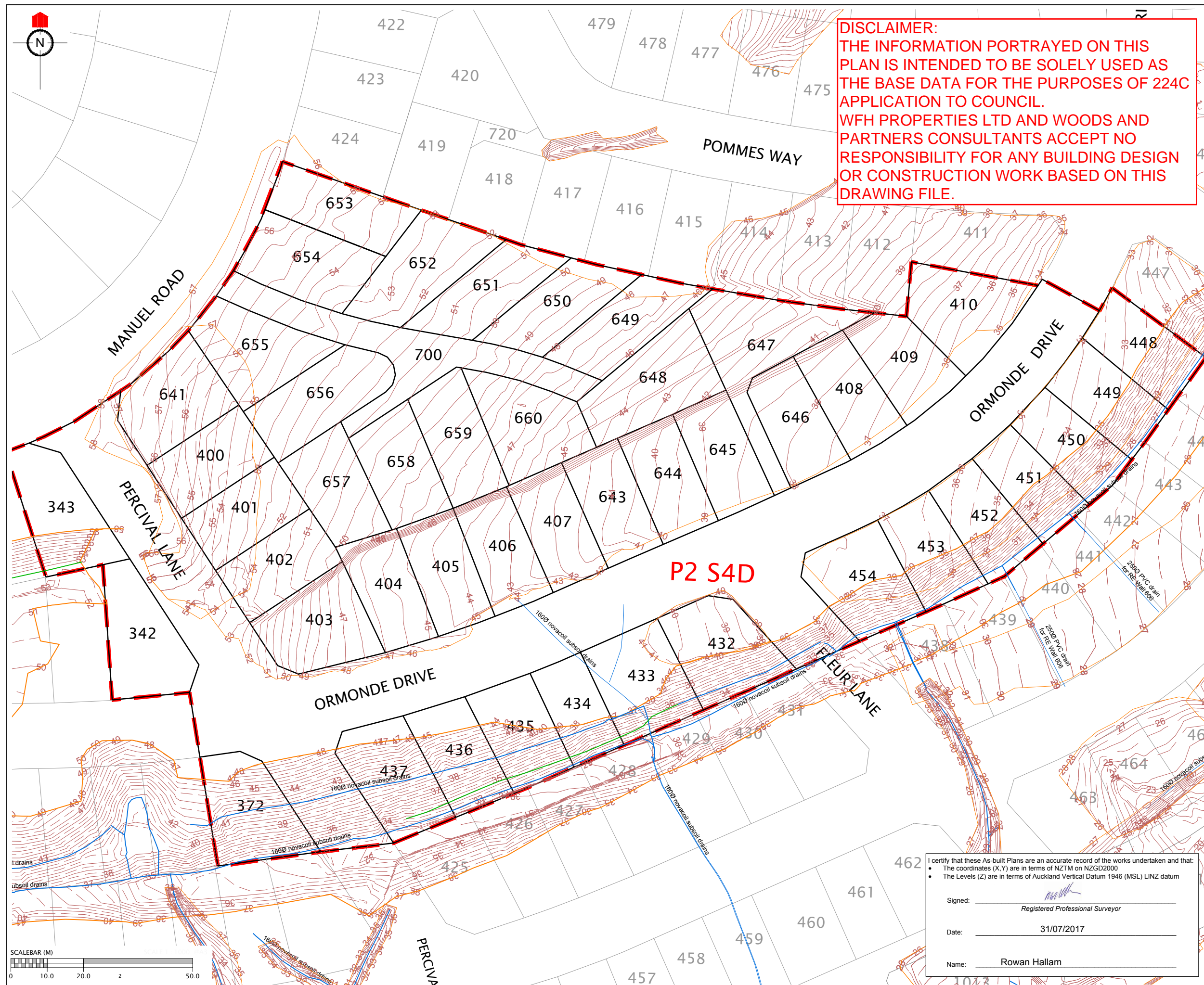
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Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: ROWAN HALLAM



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REVISION DETAILS		NAME	DATE

LEGEND

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4D**

**SHEAR KEY, UNDERCUTS &
SUBSOIL DRAINS
AS-BUILT PLAN**

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1000 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-120-AB	REV.

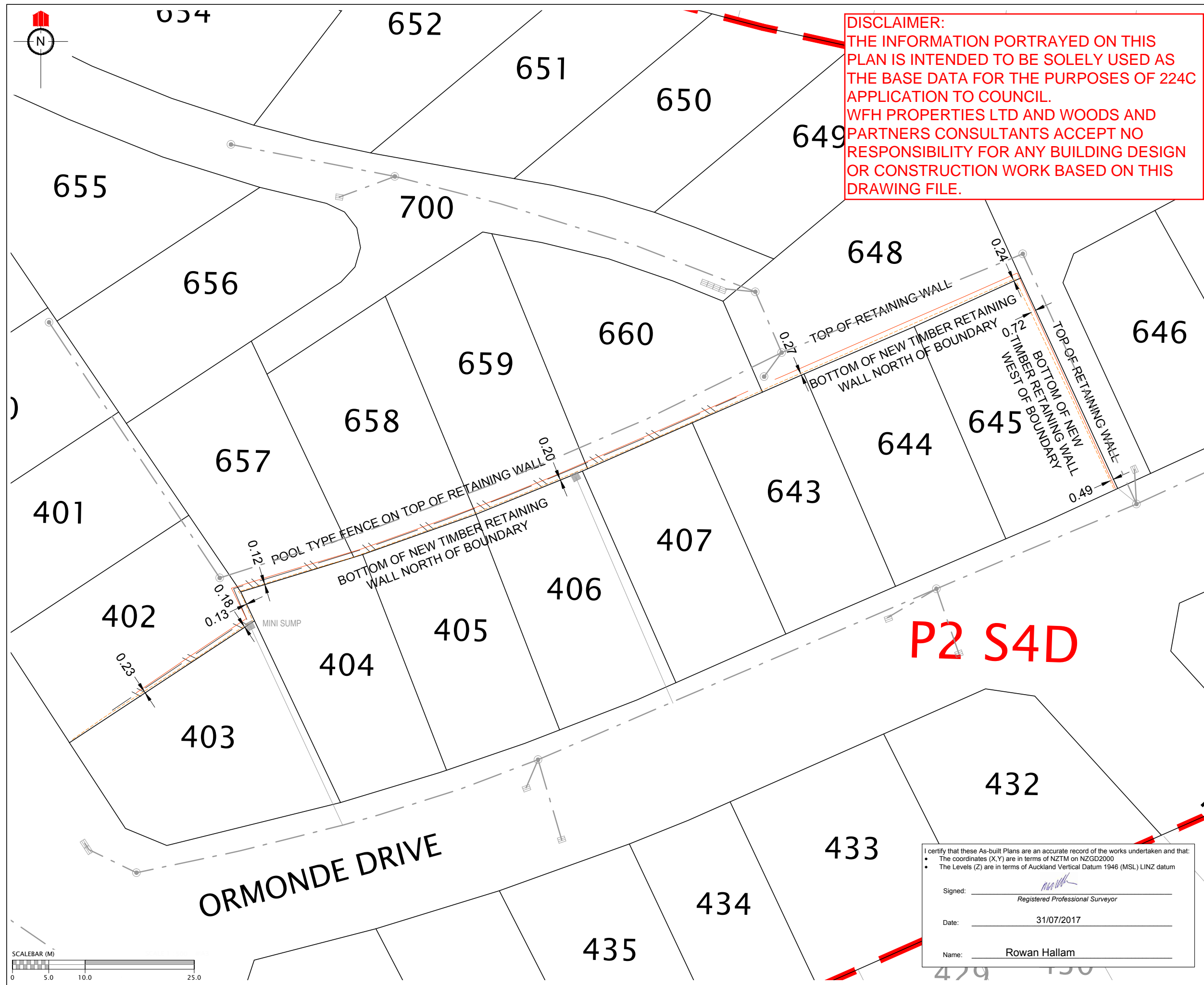
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REVISION DETAILS		NAME	DATE

NOTE:
BOTTOM FACE OF WALL AS SHOWN IS FRONT FACE OF WOODEN POSTS

BOTTOM FACE OF WALL AS SHOWN ON PLAN

POSTS  WOODEN RETAINING WALL

LEGEND:

-  BOTTOM FACE OF WALL
-  TOP FACE OF WALL
-  EXISTING WALL
-  CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
-  FENCES
-  STORMWATER LINE
-  BOUNDARY
-  WALL DRAINAGE

CLIENT:

WFH PROPERTIES

WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4D


RETAINING WALL AS-BUILT PAGE 2 OF 2

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-131-AB	REV.

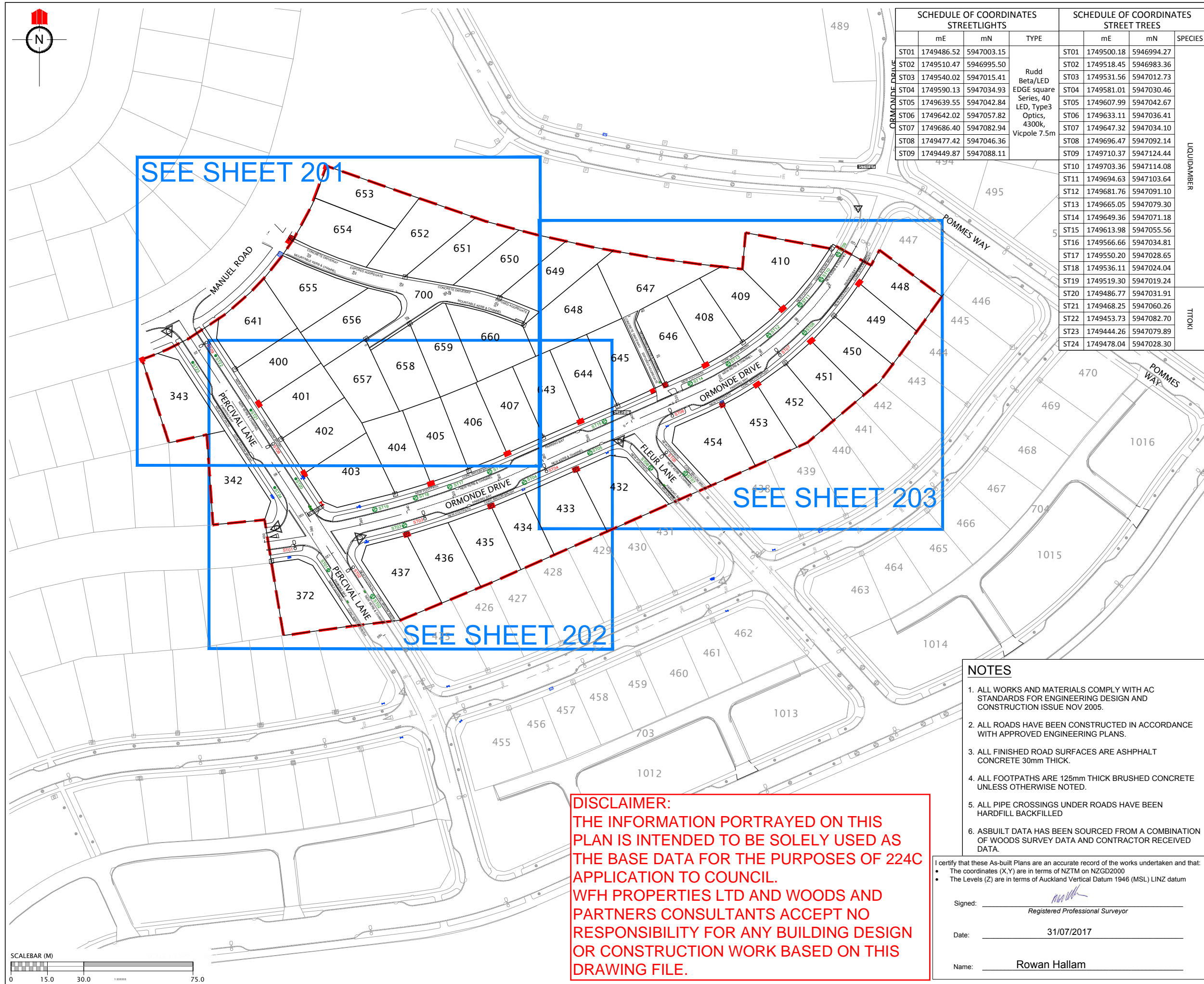
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Signed:  Registered Professional Surveyor

Date: 31/07/2017

Name: Rowan Hallam



SCHEDULE OF COORDINATES STREETLIGHTS				SCHEDULE OF COORDINATES STREET TREES			
	mE	mN	TYPE		mE	mN	SPECIES
ST01	1749486.52	5947003.15	Rudd Beta/LED EDGE square Series, 40 LED, Type3 Optics, 4300k, Vicolpole 7.5m	ST01	1749500.18	5946994.27	LIQUIDAMBER
ST02	1749510.47	5946995.50		ST02	1749518.45	5946983.36	
ST03	1749540.02	5947015.41		ST03	1749531.56	5947012.73	
ST04	1749590.13	5947034.93		ST04	1749581.01	5947030.46	
ST05	1749639.55	5947042.84		ST05	1749607.99	5947042.67	
ST06	1749642.02	5947057.82		ST06	1749633.11	5947036.41	
ST07	1749686.40	5947082.94		ST07	1749647.32	5947034.10	
ST08	1749477.42	5947046.36		ST08	1749696.47	5947092.14	
ST09	1749449.87	5947088.11		ST09	1749710.37	5947124.44	
				ST10	1749703.36	5947114.08	TTOKI
				ST11	1749694.63	5947103.64	
				ST12	1749681.76	5947091.10	
				ST13	1749665.05	5947079.30	
				ST14	1749649.36	5947071.18	
				ST15	1749613.98	5947055.56	
				ST16	1749566.66	5947034.81	
				ST17	1749550.20	5947028.65	
				ST18	1749536.11	5947024.04	
				ST19	1749519.30	5947019.24	
				ST20	1749486.77	5947031.91	
				ST21	1749468.25	5947060.26	
				ST22	1749453.73	5947082.70	
				ST23	1749444.26	5947079.89	
				ST24	1749478.04	5947028.30	

REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

GAS METER

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4DROADING AS-BUILT
PAGE 1 OF 4

AUCKLAND COUNCIL

DESIGNED: RV

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33221

ISSUED: AUGUST 2017

DWG. NO. 33221-04D-200-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:1500 @ A3

REV.

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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE.

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.

2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.

3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.

4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.

5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED

6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

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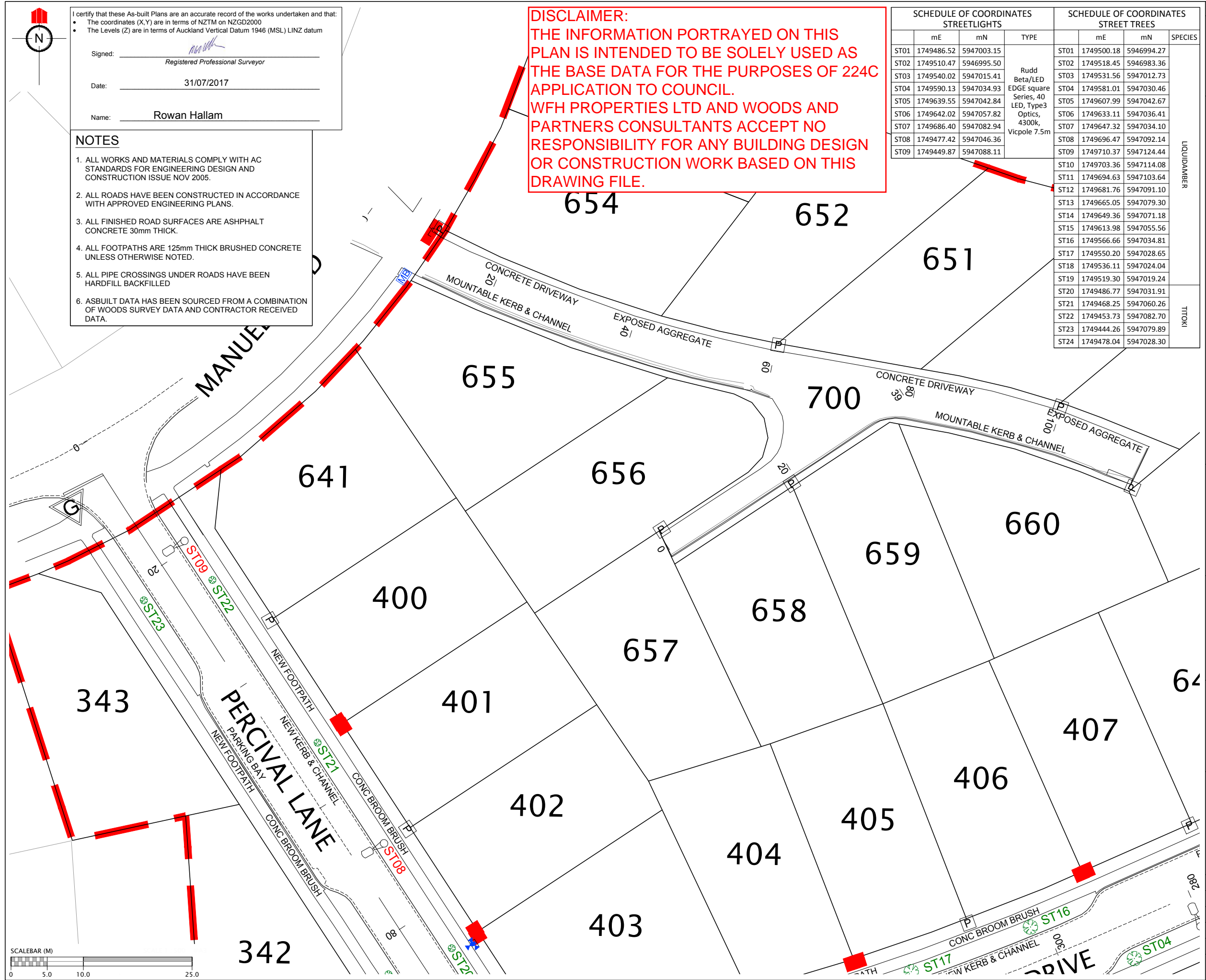
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Date: 31/07/2017

Name: Rowan Hallam



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SCHEDULE OF COORDINATES STREETLIGHTS				SCHEDULE OF COORDINATES STREET TREES			
	mE	mN	TYPE		mE	mN	SPECIES
ST01	1749486.52	5947003.15	Rudd Beta/LED EDGE Square Series, 40 LED, Type3 Optics, 4300k, Vicipole 7.5m	ST01	1749500.18	5946994.27	LIQUIDAMBER
ST02	1749510.47	5946995.50		ST02	1749518.45	5946983.36	
ST03	1749540.02	5947015.41		ST03	1749531.56	5947012.73	
ST04	1749590.13	5947034.93		ST04	1749581.01	5947030.46	
ST05	1749639.55	5947042.84		ST05	1749607.99	5947042.67	
ST06	1749642.02	5947057.82		ST06	1749633.11	5947036.41	
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ST09	1749449.87	5947088.11		ST09	1749710.37	5947124.44	
				ST10	1749703.36	5947114.08	TTOKI
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				ST12	1749681.76	5947091.10	
				ST13	1749665.05	5947079.30	
				ST14	1749649.36	5947071.18	
				ST15	1749613.98	5947055.56	
				ST16	1749566.66	5947034.81	
				ST17	1749550.20	5947028.65	
				ST18	1749536.11	5947024.04	
				ST19	1749519.30	5947019.24	
				ST20	1749486.77	5947031.91	
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				ST22	1749453.73	5947082.70	
				ST23	1749444.26	5947079.89	
				ST24	1749478.04	5947028.30	

REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

GAS METER

TELECOMMUNICATIONS MANHOLE

CLIENT:

MILLWATER PRECINCT 2 STAGE 4D

ROADING AS-BUILT PAGE 2 OF 4

AUCKLAND COUNCIL

DESIGNED: RV

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33221

ISSUED: AUGUST 2017

DWG. NO. 33221-04D-201-AB

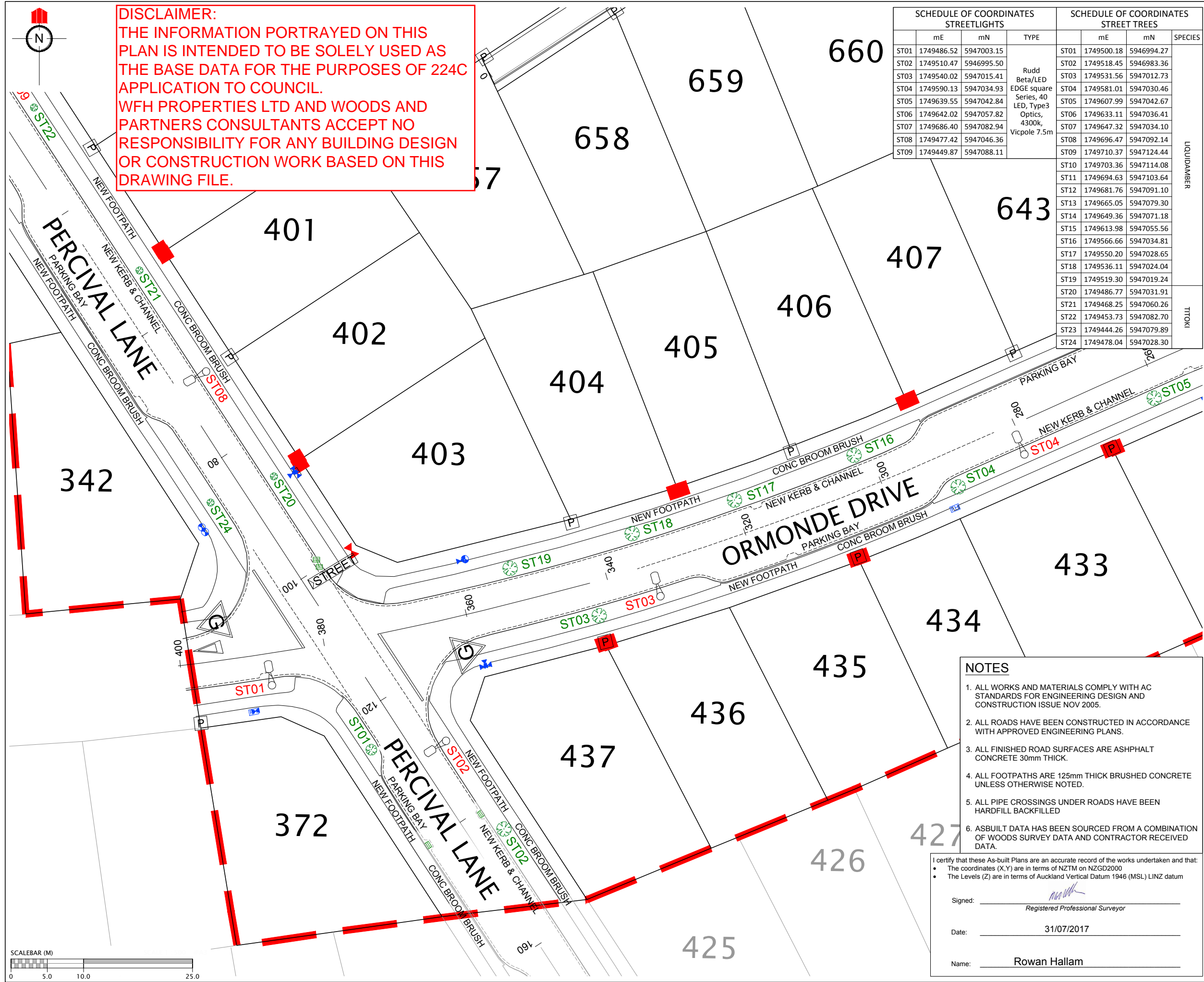
ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:500 @ A3

REV.



REVISION DETAILS		NAME	DATE

CLIENT:

WFH
PROPERTIES

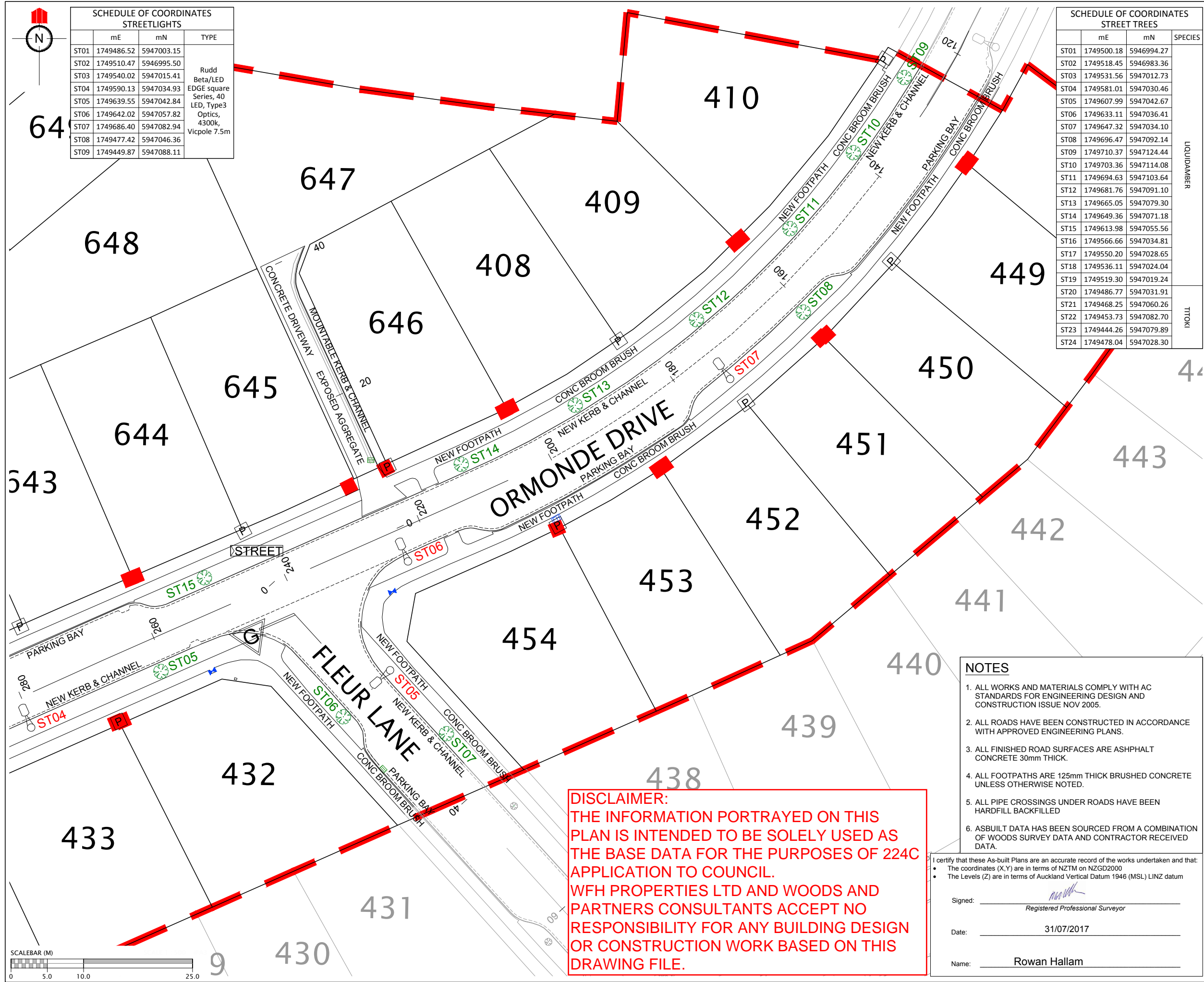
WOODS
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**MILLWATER
PRECINCT 2
STAGE 4D**

**ROADING AS-BUILT
PAGE 3 OF 4**

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: AUGUST 2017	
DWG. NO. 33221-04D-202-AB	REV.



SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
ST01	1749486.52	5947003.15	Rudd Beta/LED EDGE square Series, 40 LED, Type3 Optics, 4300k, Vicpole 7.5m
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ST05	1749639.55	5947042.84	
ST06	1749642.02	5947057.82	
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ST04	1749581.01	5947030.46	
ST05	1749607.99	5947042.67	
ST06	1749633.11	5947036.41	
ST07	1749647.32	5947034.10	
ST08	1749696.47	5947092.14	
ST09	1749710.37	5947124.44	
ST10	1749703.36	5947114.08	
ST11	1749694.63	5947103.64	TTOKI
ST12	1749681.76	5947091.10	
ST13	1749665.05	5947079.30	
ST14	1749649.36	5947071.18	
ST15	1749613.98	5947055.56	
ST16	1749566.66	5947034.81	
ST17	1749550.20	5947028.65	
ST18	1749536.11	5947024.04	
ST19	1749519.30	5947019.24	
ST20	1749486.77	5947031.91	
ST21	1749468.25	5947060.26	
ST22	1749453.73	5947082.70	
ST23	1749444.26	5947079.89	
ST24	1749478.04	5947028.30	

REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

GAS METER

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4D

ROADING AS-BUILT
PAGE 4 OF 4

AUCKLAND COUNCIL

DESIGNED: RV

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33221

ISSUED: AUGUST 2017

DWG. NO. 33221-04D-203-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:500 @ A3

REV.

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

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

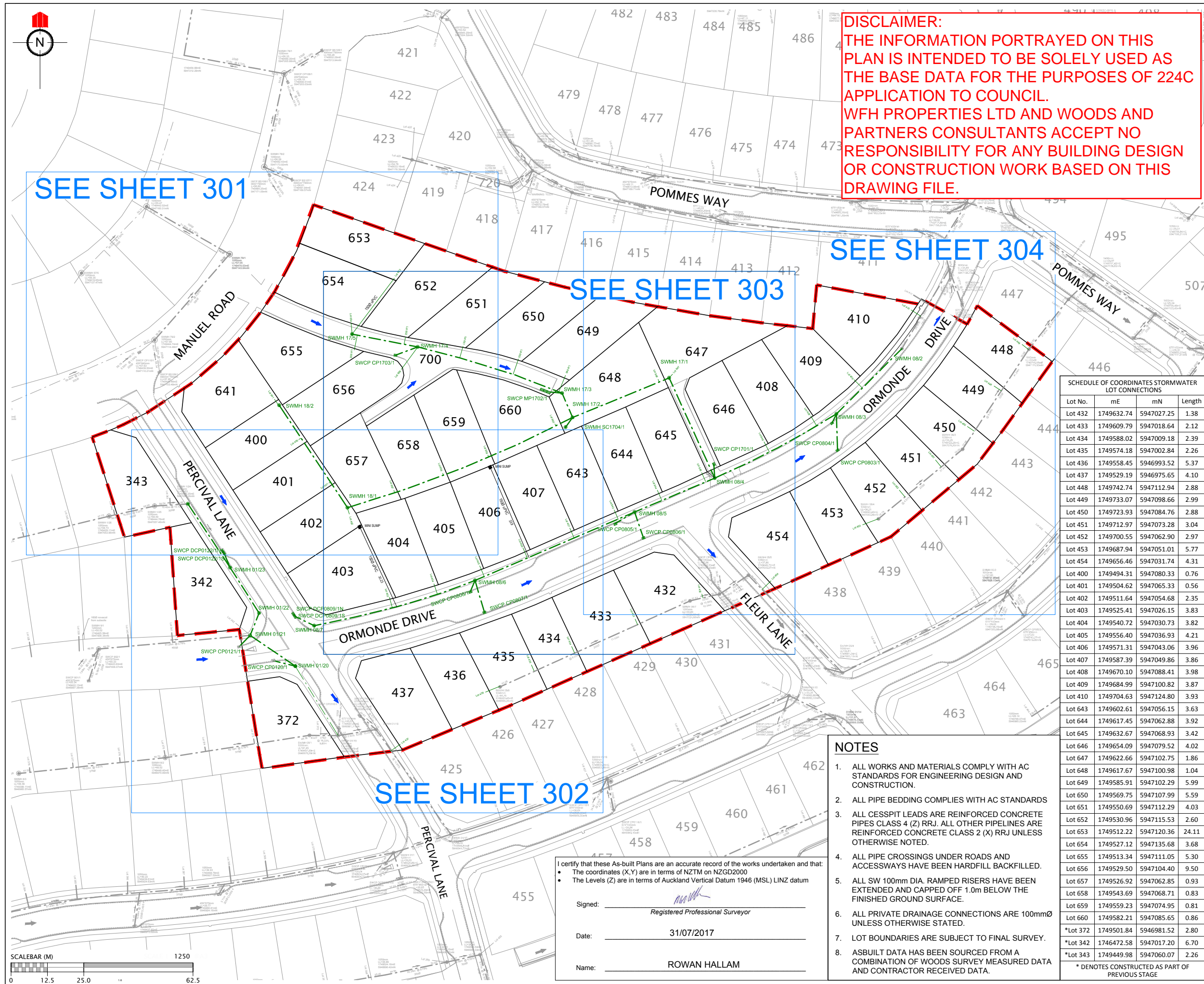
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: Rowan Hallam

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



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REVISION DETAILS		NAME	DATE

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

SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot No.	mE	mN	Length
Lot 432	1749632.74	5947027.25	1.38
Lot 433	1749609.79	5947018.64	2.12
Lot 434	1749588.02	5947009.18	2.39
Lot 435	1749574.18	5947002.84	2.26
Lot 436	1749558.45	5946993.52	5.37
Lot 437	1749529.19	5946975.65	4.10
Lot 448	1749742.74	5947112.94	2.88
Lot 449	1749733.07	5947098.66	2.99
Lot 450	1749723.93	5947084.76	2.88
Lot 451	1749712.97	5947073.28	3.04
Lot 452	1749700.55	5947062.90	2.97
Lot 453	1749687.94	5947051.01	5.77
Lot 454	1749656.46	5947031.74	4.31
Lot 400	1749494.31	5947080.33	0.76
Lot 401	1749504.62	5947065.33	0.56
Lot 402	1749511.64	5947054.68	2.35
Lot 403	1749525.41	5947026.15	3.83
Lot 404	1749540.72	5947030.73	3.82
Lot 405	1749556.40	5947036.93	4.21
Lot 406	1749571.31	5947043.06	3.96
Lot 407	1749587.39	5947049.86	3.86
Lot 408	1749670.10	5947088.41	3.98
Lot 409	1749684.99	5947100.82	3.87
Lot 410	1749704.63	5947124.80	3.93
Lot 643	1749602.61	5947056.15	3.63
Lot 644	1749617.45	5947062.88	3.92
Lot 645	1749632.67	5947068.93	3.42
Lot 646	1749654.09	5947079.52	4.02
Lot 647	1749622.66	5947102.75	1.86
Lot 648	1749617.67	5947100.98	1.04
Lot 649	1749585.91	5947102.29	5.99
Lot 650	1749569.75	5947107.99	5.59
Lot 651	1749550.69	5947112.29	4.03
Lot 652	1749530.96	5947115.53	2.60
Lot 653	1749512.22	5947120.36	24.11
Lot 654	1749527.12	5947135.68	3.68
Lot 655	1749513.34	5947111.05	5.30
Lot 656	1749529.50	5947104.40	9.50
Lot 657	1749526.92	5947062.85	0.93
Lot 658	1749543.69	5947068.71	0.83
Lot 659	1749559.23	5947074.95	0.81
Lot 660	1749582.21	5947085.65	0.86
*Lot 372	1749501.84	5946981.52	2.80
*Lot 342	1746472.58	5947017.20	6.70
*Lot 343	1749449.98	5947060.07	2.26

* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGE

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 - ALL CESSPIT LEADS 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 UNLESS OTHERWISE STATED.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

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: _____
31/07/2017

Name: _____
ROWAN HALLAM

CLIENT:

WFH PROPERTIES

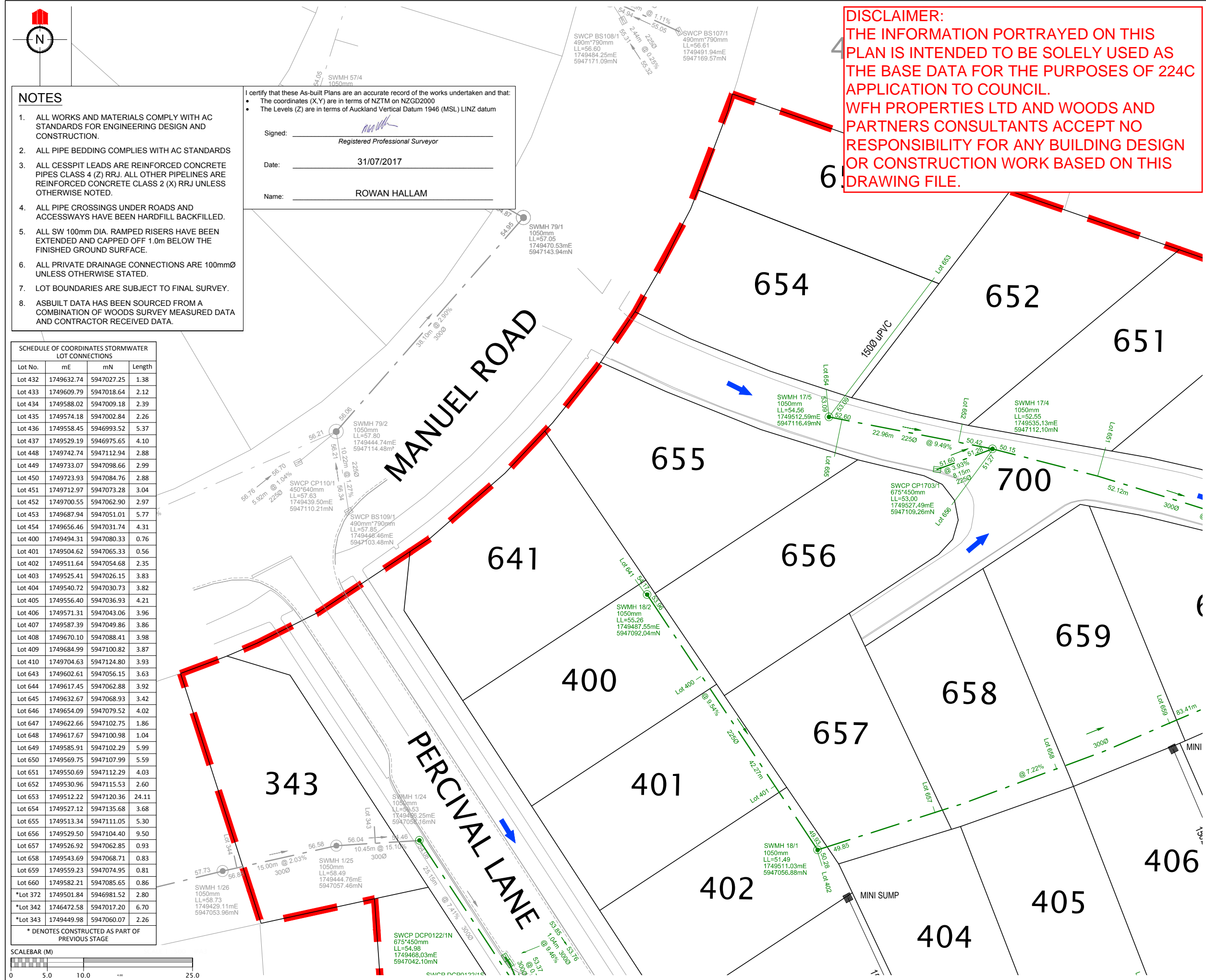
WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4D**

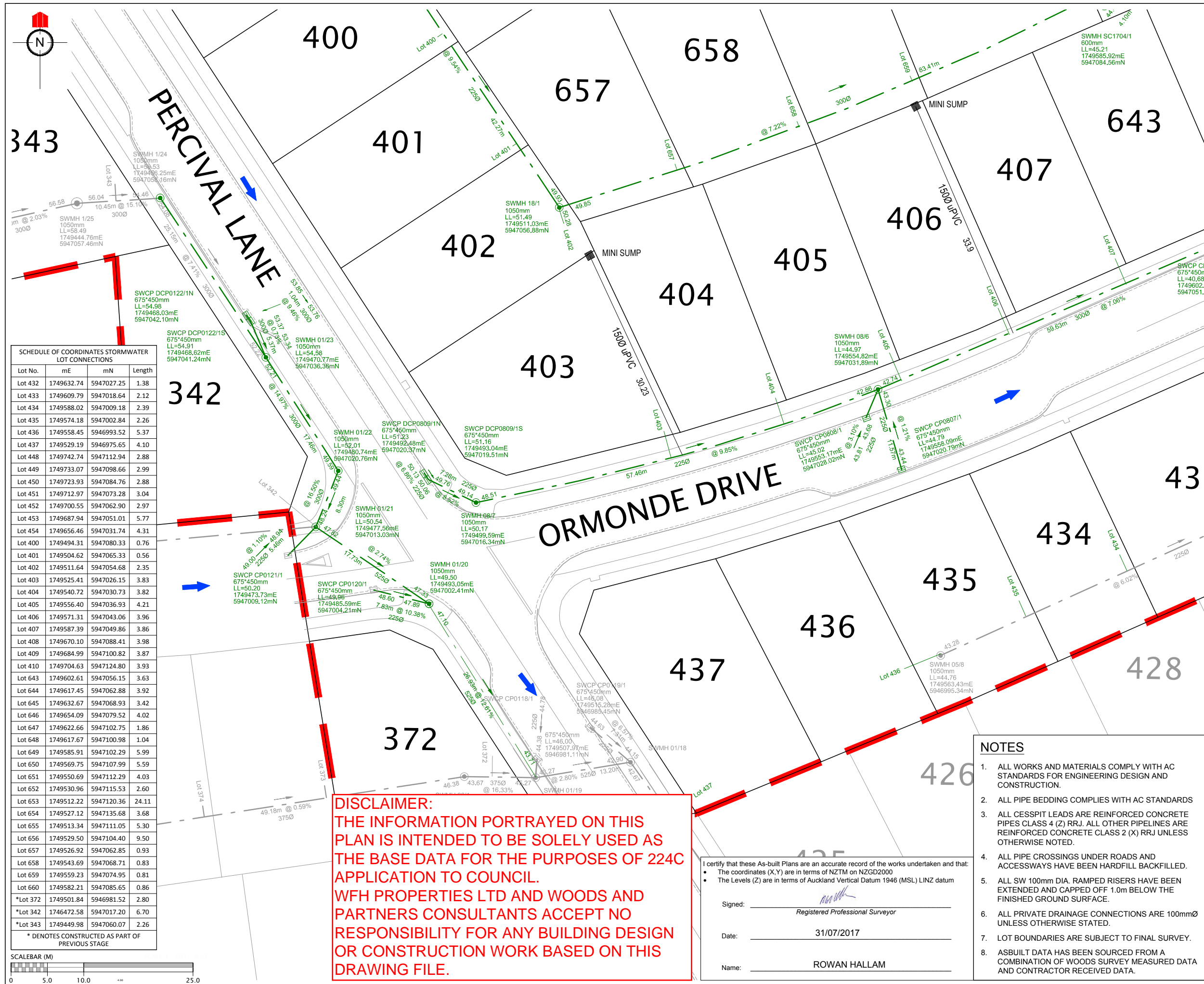
**STORMWATER AS-BUILT
OVERALL LAYOUT
Sheet 1 of 5**

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1250 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-300-AB	REV.



REVISION DETAILS		NAME	DATE
LEGEND			
STORMWATER MANHOLE			
STORMWATER CESSPIT			
STORMWATER DOUBLE CESSPIT			
OVERLAND FLOW			
NEW STORMWATER			
EXISTING STORMWATER			
RETAINING WALL DRAINAGE			
STAGE BOUNDARY			
CLIENT:			
MILLWATER PRECINCT 2 STAGE 4D			
STORMWATER AS-BUILT Sheet 2 of 5			
AUCKLAND COUNCIL			
DESIGNED: RV		ASBUILT	
CHECKED: KR		DRAWN: KH	
APPROVED: MRH		SURVEYED: WOODS	
JOB NUMBER: 33221		SCALE: 1:500 @ A3	
ISSUED: JULY 2017			
DWG. NO. 33221-04D-301-AB			REV.



SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot No.	mE	mN	Length
Lot 432	1749632.74	5947027.25	1.38
Lot 433	1749609.79	5947018.64	2.12
Lot 434	1749588.02	5947009.18	2.39
Lot 435	1749574.18	5947002.84	2.26
Lot 436	1749558.45	5946993.52	5.37
Lot 437	1749529.19	5946975.65	4.10
Lot 448	1749742.74	5947112.94	2.88
Lot 449	1749733.07	5947098.66	2.99
Lot 450	1749723.93	5947084.76	2.88
Lot 451	1749712.97	5947073.28	3.04
Lot 452	1749700.55	5947062.90	2.97
Lot 453	1749687.94	5947051.01	5.77
Lot 454	1749656.46	5947031.74	4.31
Lot 400	1749494.31	5947080.33	0.76
Lot 401	1749504.62	5947065.33	0.56
Lot 402	1749511.64	5947054.68	2.35
Lot 403	1749525.41	5947026.15	3.83
Lot 404	1749540.72	5947030.73	3.82
Lot 405	1749556.40	5947036.93	4.21
Lot 406	1749571.31	5947043.06	3.96
Lot 407	1749587.39	5947049.86	3.86
Lot 408	1749670.10	5947088.41	3.98
Lot 409	1749684.99	5947100.82	3.87
Lot 410	1749704.63	5947124.80	3.93
Lot 643	1749602.61	5947056.15	3.63
Lot 644	1749617.45	5947062.88	3.92
Lot 645	1749632.67	5947068.93	3.42
Lot 646	1749654.09	5947079.52	4.02
Lot 647	1749622.66	5947102.75	1.86
Lot 648	1749617.67	5947100.98	1.04
Lot 649	1749585.91	5947102.29	5.99
Lot 650	1749569.75	5947107.99	5.59
Lot 651	1749550.69	5947112.29	4.03
Lot 652	1749530.96	5947115.53	2.60
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Lot 654	1749527.12	5947135.68	3.68
Lot 655	1749513.34	5947111.05	5.30
Lot 656	1749529.50	5947104.40	9.50
Lot 657	1749526.92	5947062.85	0.93
Lot 658	1749543.69	5947068.71	0.83
Lot 659	1749559.23	5947074.95	0.81
Lot 660	1749582.21	5947085.65	0.86
*Lot 372	1749501.84	5946981.52	2.80
*Lot 342	1746472.58	5947017.20	6.70
*Lot 343	1749449.98	5947060.07	2.26
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGE			

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

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

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

Signed: _____
Date: 31/07/2017
Name: ROWAN HALLAM

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

REVISION DETAILS		NAME	DATE

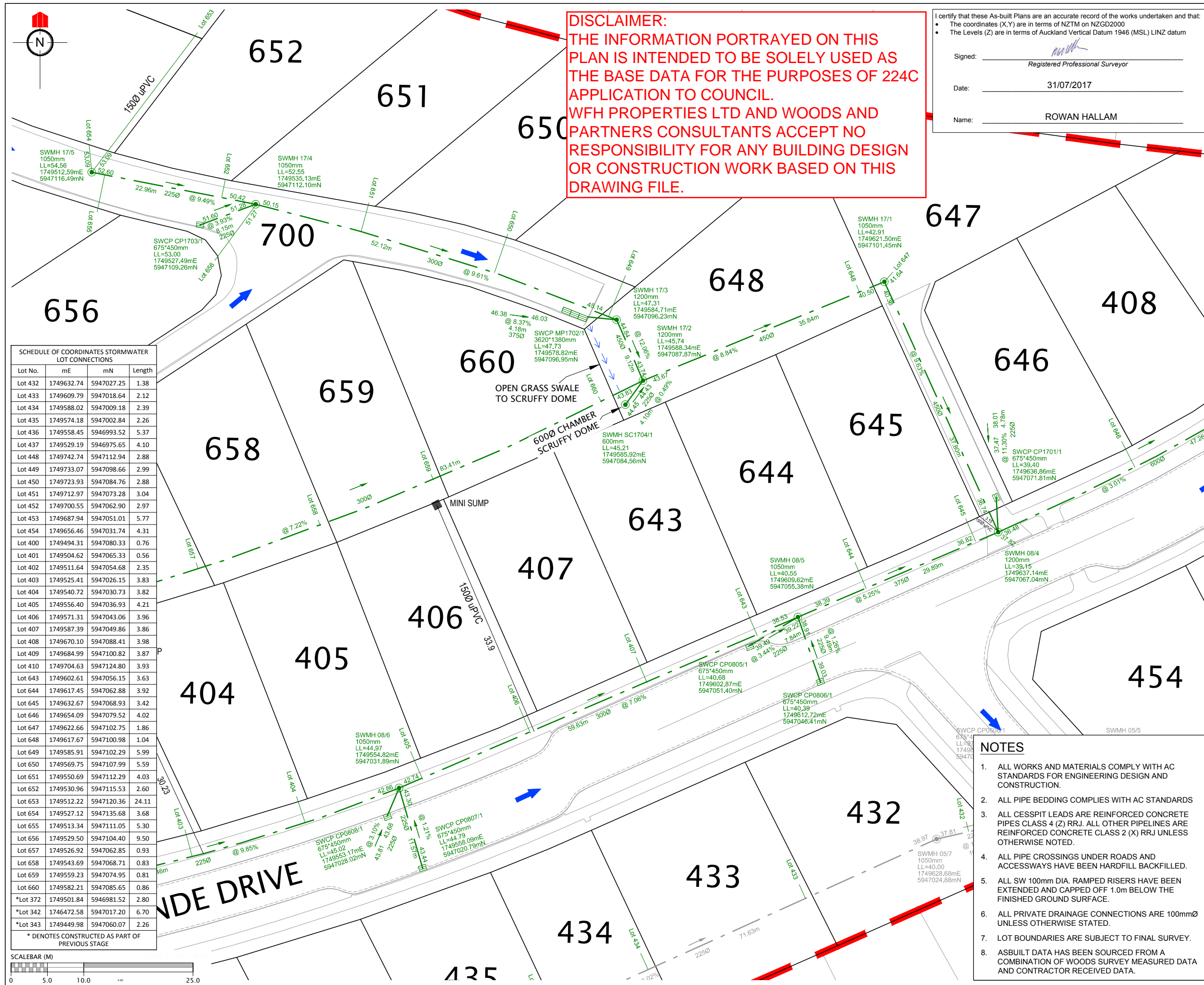
LEGEND
STORMWATER MANHOLE
STORMWATER CESSPIT
STORMWATER DOUBLE CESSPIT
OVERLAND FLOW
NEW STORMWATER
EXISTING STORMWATER
RETAINING WALL DRAINAGE
STAGE BOUNDARY

CLIENT:
WFH PROPERTIES
WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4D

STORMWATER AS-BUILT
Sheet 3 of 5
AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-302-AB	REV.



REVISION DETAILS

REVISION DETAILS	NAME	DATE

LEGEND

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

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4D

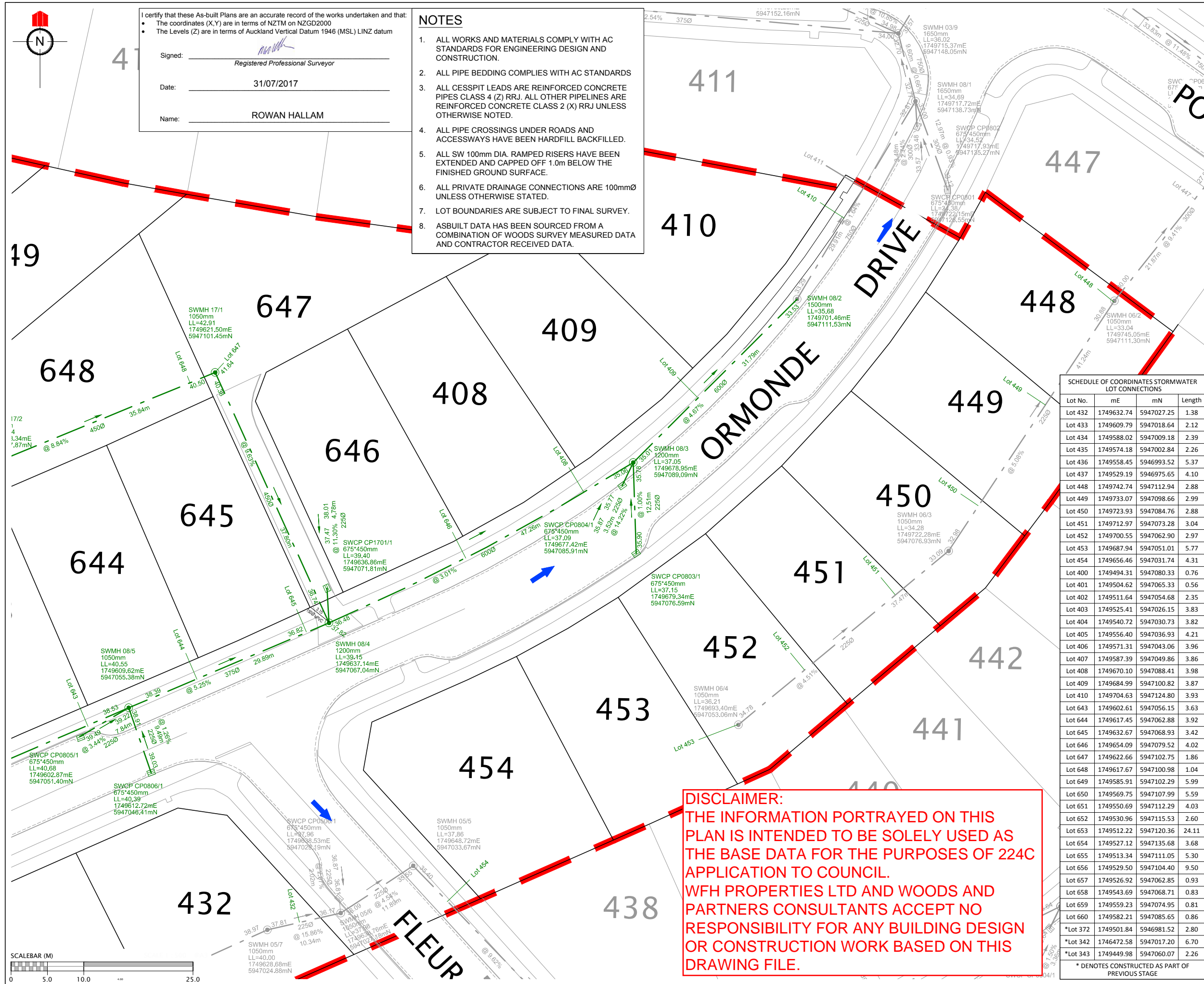
STORMWATER AS-BUILT
Sheet 4 of 5

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-303-AB	REV.

NOTES

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REVISION DETAILS

NAME

DATE

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

RETAINING WALL DRAINAGE

STAGE BOUNDARY

CLIENT:

WFH PROPERTIES

WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4D

STORMWATER AS-BUILT Sheet 5 of 5

AUCKLAND COUNCIL

DESIGNED: RV

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33221

ISSUED: JULY 2017

DWG. NO. 33221-04D-304-AB

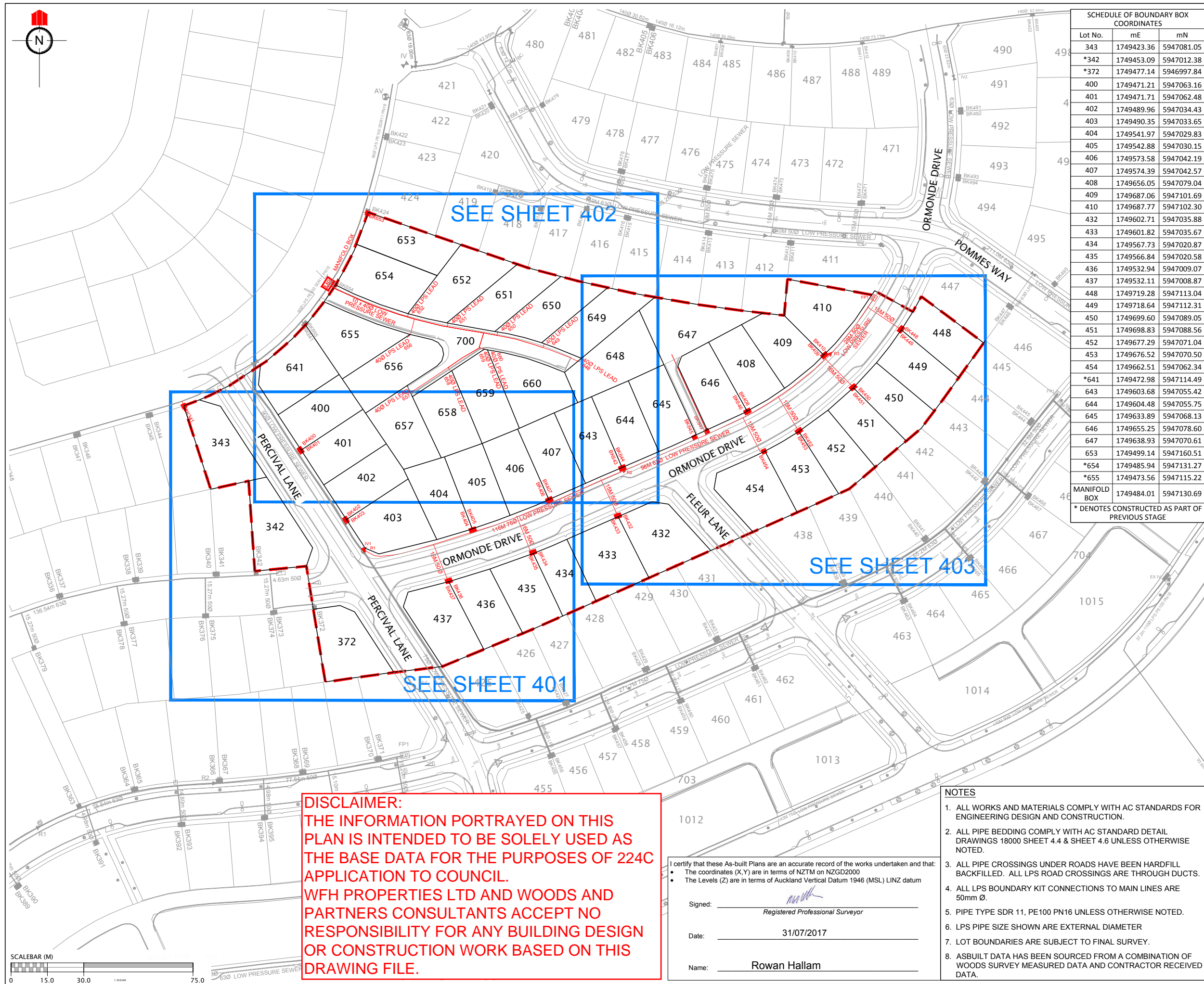
ASBUILT

DRAWN: KH

SURVEYED: WOODS

SCALE: 1:500 @ A3

REV.



SCHEDULE OF BOUNDARY BOX COORDINATES		
Lot No.	mE	mN
343	1749423.36	5947081.05
*342	1749453.09	5947012.38
*372	1749477.14	5946997.84
400	1749471.21	5947063.16
401	1749471.71	5947062.48
402	1749489.96	5947034.43
403	1749490.35	5947033.65
404	1749541.97	5947029.83
405	1749542.88	5947030.15
406	1749573.58	5947042.19
407	1749574.39	5947042.57
408	1749656.05	5947079.04
409	1749687.06	5947101.69
410	1749687.77	5947102.30
432	1749602.71	5947035.88
433	1749601.82	5947035.67
434	1749567.73	5947020.87
435	1749566.84	5947020.58
436	1749532.94	5947009.07
437	1749532.11	5947008.87
448	1749719.28	5947113.04
449	1749718.64	5947112.31
450	1749699.60	5947089.05
451	1749698.83	5947088.56
452	1749677.29	5947071.04
453	1749676.52	5947070.50
454	1749662.51	5947062.34
*641	1749472.98	5947114.49
643	1749603.68	5947055.42
644	1749604.48	5947055.75
645	1749633.89	5947068.13
646	1749655.25	5947078.60
647	1749638.93	5947070.61
653	1749499.14	5947160.51
*654	1749485.94	5947131.27
*655	1749473.56	5947115.22
MANIFOLD BOX	1749484.01	5947130.69
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGE		

REVISION DETAILS		NAME	DATE

LEGEND	
BK60	BOUNDARY KIT
IV	ISOLATION VALVE
FP	FLUSHING POINT
AV	AIR VALVE
R	REDUCER
---	LOW PRESSURE SEWER
---	EXISTING LOW PRESSURE SEWER
---	STAGE BOUNDARY

SCHEDULE OF COORDINATES		
	mE	Mn
REDUCER		
R1	1749497.63	5947021.91
R2	1749605.94	5947054.97
R3	1749690.70	5947103.33
FLUSHING PIT		
FP1	1749707.94	5947125.66
ISOLATION VALVE		
IV1	1749497.42	5947021.66

CLIENT:

Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4D

WASTEWATER ASBUILT PLAN PAGE 1 OF 4

AUCKLAND COUNCIL	
DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:1500 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-400-AB	REV.

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

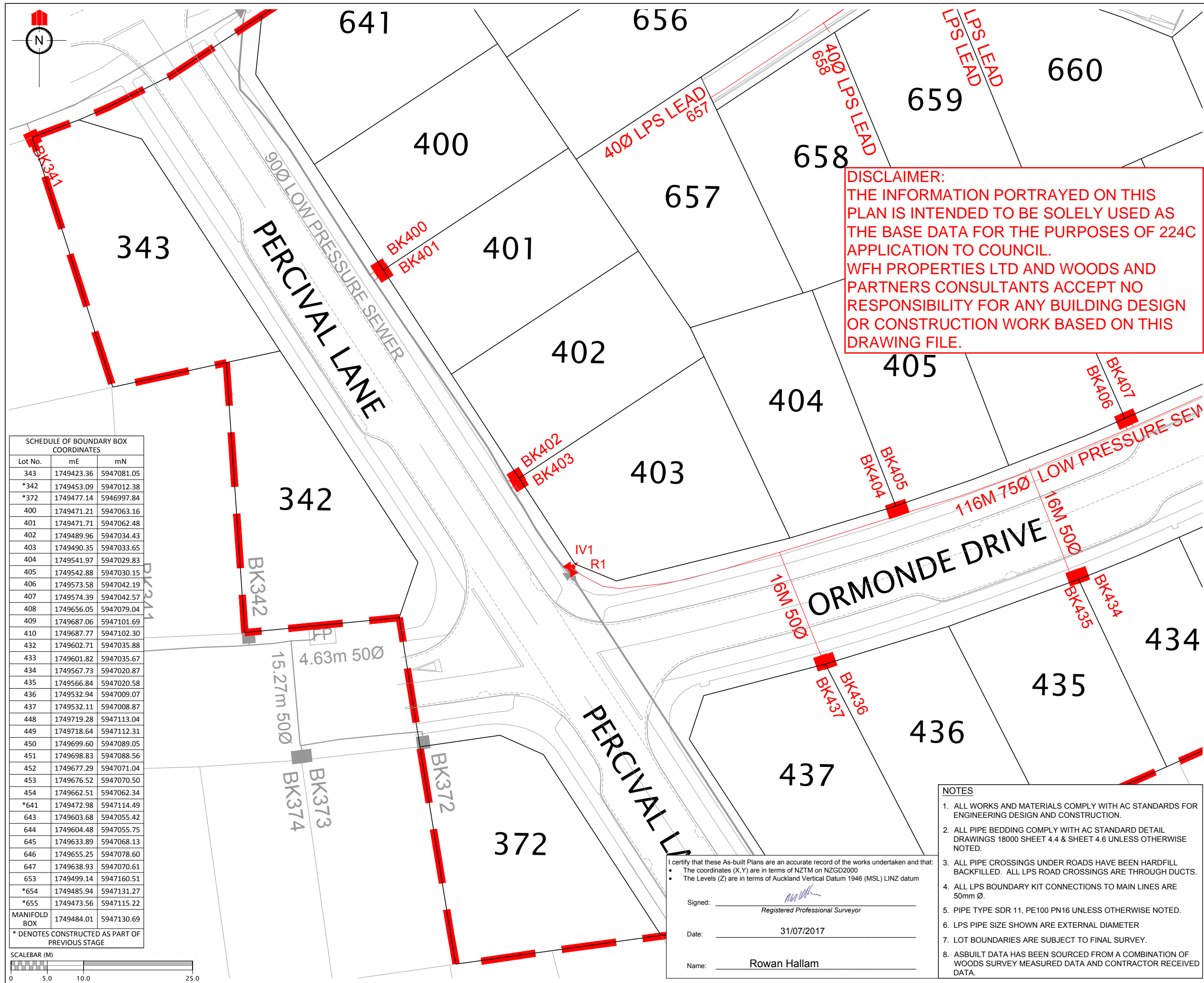
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Rowan Hallam
Registered Professional Surveyor

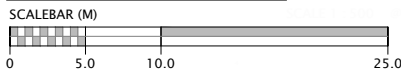
Date: 31/07/2017

Name: Rowan Hallam

- NOTES
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
 - ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
 - PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
 - LPS PIPE SIZE 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.



SCHEDULE OF BOUNDARY BOX COORDINATES		
Lot No.	mE	mN
343	1749423.36	5947081.05
*342	1749453.09	5947012.38
*372	1749477.14	5946997.84
400	1749471.21	5947063.16
401	1749471.71	5947062.48
402	1749489.96	5947034.43
403	1749490.35	5947033.65
404	1749541.97	5947029.83
405	1749542.88	5947030.15
406	1749573.58	5947042.19
407	1749574.39	5947042.57
408	1749656.05	5947079.04
409	1749687.06	5947101.69
410	1749687.77	5947102.30
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433	1749601.82	5947035.67
434	1749567.73	5947020.87
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436	1749532.94	5947009.07
437	1749532.11	5947008.87
448	1749719.28	5947113.04
449	1749718.64	5947112.31
450	1749699.60	5947089.05
451	1749698.83	5947088.56
452	1749677.29	5947071.04
453	1749676.52	5947070.50
454	1749662.51	5947062.34
*641	1749472.98	5947114.49
643	1749603.68	5947055.42
644	1749604.48	5947055.75
645	1749633.89	5947068.13
646	1749655.25	5947078.60
647	1749638.93	5947070.61
653	1749499.14	5947160.51
*654	1749485.94	5947131.27
*655	1749473.56	5947115.22
MANIFOLD BOX	1749484.01	5947130.69



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

FAILS		NAME	DATE

CLIENT:



MILLWATER
PRECINCT 2
STAGE 4D

WASTEWATER ASBUILT PLAN
PAGE 2 OF 4

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: JULY 2017	
DWG. NO. 33221-04D-401-AB	REV.

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
 - ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
 - PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
 - LPS PIPE SIZE 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.

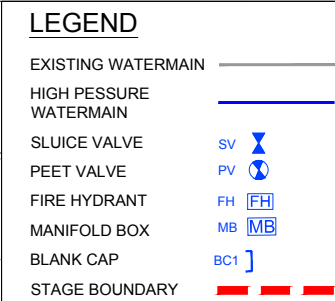
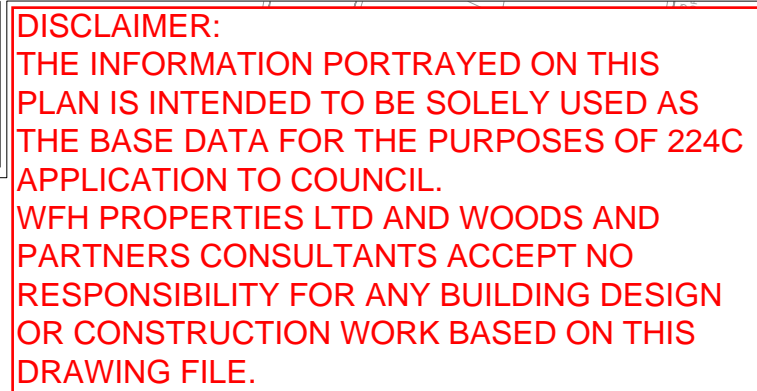
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 31/07/2017

Name: Rowan Hallam



REVISION DETAILS			NAME	DATE
SCHEDULE OF COORDINATES				
	mE	mN		
FIRE HYDRANTS				
FH1	1749483.97	5946999.50		
FH2	1749580.55	5947027.55		
FH3	1749662.44	5947063.71		
SLUICE VALVES				
SV1	1749484.24	5946999.6		
SV2	1749515.62	5947005.77		
SV3	1749515.83	5947006.14		
SV4	1749519.22	5947005.92		
SV5	1749615.06	5947042.73		
SV6	1749639.84	5947053.65		
SV7	1749512.43	5947020.31		
SV8	1749489.98	5947032.27		
SV9	1749489.23	5947032.23		
SV10	1749489.6	5947032.77		
PEET VALVES				
PV1	1749513.07	5947020.52		
PV2	1749477.28	5947024.25		
PV3	1749476.84	5947024.89		
MANIFOLD BOX				
MB1	1749480.17	5947124.57		

CLIENT:

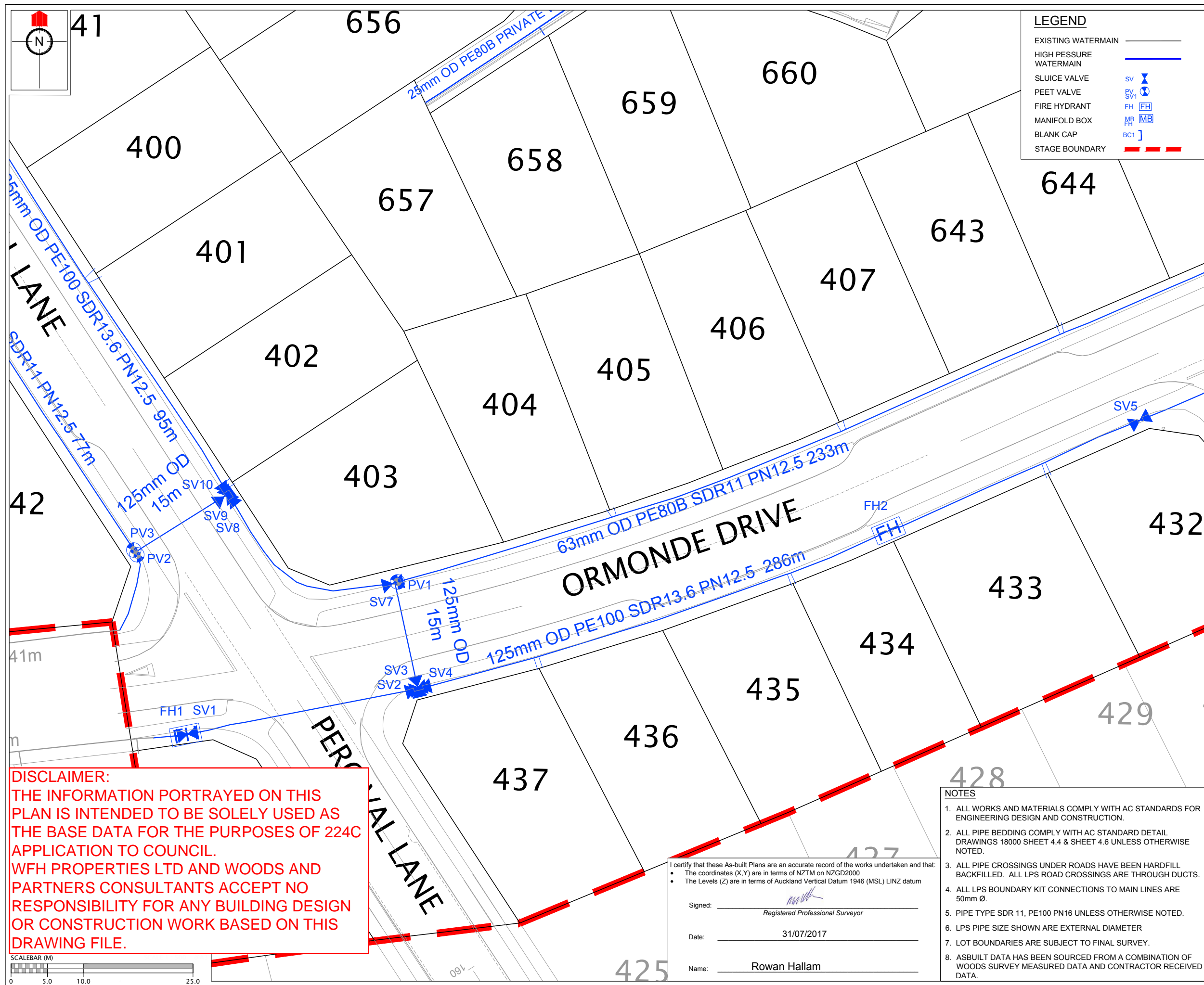


MILLWATER
PRECINCT 2
STAGE 4D

WATERMAIN ASBUILT PLAN
PAGE 1 OF 4

AUCKLAND COUNCIL

DESIGNED:	RV	ASBUILT	
CHECKED:	KR	DRAWN:	KR
APPROVED:	RH	SURVEYED:	WOODS
JOB NUMBER:	33221	SCALE:	1:1500 @ A3
ISSUED:	AUGUST 2017		
DWG. NO.		33221-04D-600-AR	REV.



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LEGEND

EXISTING WATERMAIN ———

HIGH PRESSURE WATERMAIN ———

SLUICE VALVE SV

PEET VALVE PV

FIRE HYDRANT FH

MANIFOLD BOX MB

BLANK CAP BC1

STAGE BOUNDARY ———

REVISION DETAILS		NAME	DATE

SCHEDULE OF COORDINATES		
	mE	mN
FIRE HYDRANTS		
FH1	1749483.97	5946999.50
FH2	1749580.55	5947027.55
FH3	1749662.44	5947063.71
SLUICE VALVES		
SV1	1749484.24	5946999.6
SV2	1749515.62	5947005.77
SV3	1749515.83	5947006.14
SV4	1749519.22	5947005.92
SV5	1749615.06	5947042.73
SV6	1749639.84	5947053.65
SV7	1749512.43	5947020.31
SV8	1749489.98	5947032.27
SV9	1749489.23	5947032.23
SV10	1749489.6	5947032.77
PEET VALVES		
PV1	1749513.07	5947020.52
PV2	1749477.28	5947024.25
PV3	1749476.84	5947024.89
MANIFOLD BOX		
MB1	1749480.17	5947124.57

CLIENT:

MILLWATER PRECINCT 2 STAGE 4D

WATERMAIN ASBUILT PLAN PAGE 3 OF 4

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: MAY 2017	
DWG. NO. 33221-04D-602-AB	REV.

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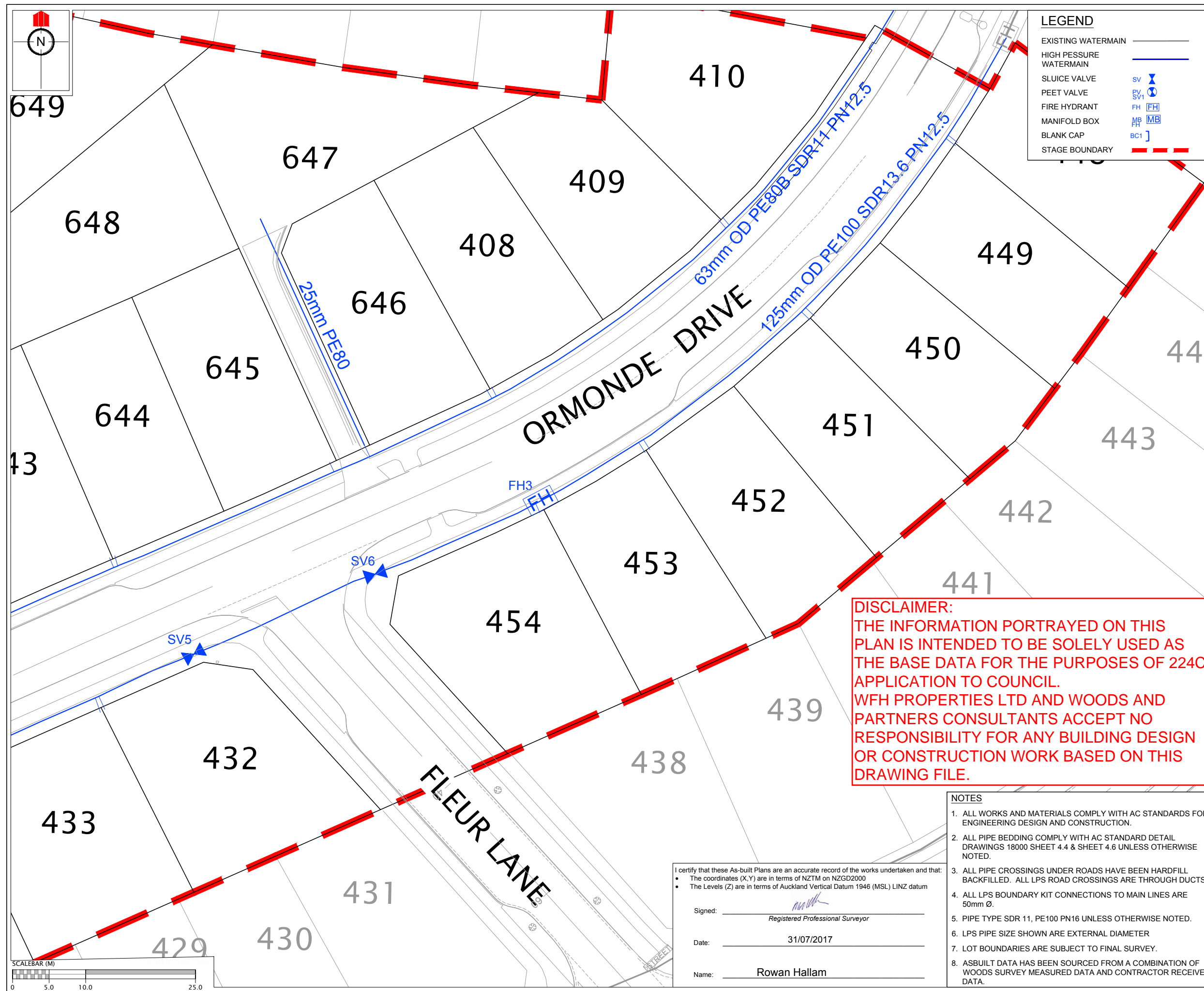
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 31/07/2017

Name: Rowan Hallam



REVISION DETAILS

NAME

DATE

SCHEDULE OF COORDINATES		
	mE	mN
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FH2	1749580.55	5947027.55
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PV3	1749476.84	5947024.89
MANIFOLD BOX		
MB1	1749480.17	5947124.57

CLIENT:

MILLWATER
PRECINCT 2
STAGE 4D

WATERMAIN ASBUILT PLAN
PAGE 4 OF 4

AUCKLAND COUNCIL

DESIGNED: RV	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33221	SCALE: 1:500 @ A3
ISSUED: AUGUST 2017	
DWG. NO. 33221-04D-603-AB	REV.

DISCLAIMER:
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Name: Rowan Hallam