

MILLWATER - PRECINCT 2 STAGE 4E AS-BUILT DRAWINGS

JUNE 2017

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS
PLAN IS INTENDED TO BE SOLELY USED AS
THE BASE DATA FOR THE PURPOSE 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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MILLWATER - PRECINCT 2 STAGE 4E

AS-BUILT DRAWINGS

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MILLWATER - PRECINCT 2 STAGE 04E AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
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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
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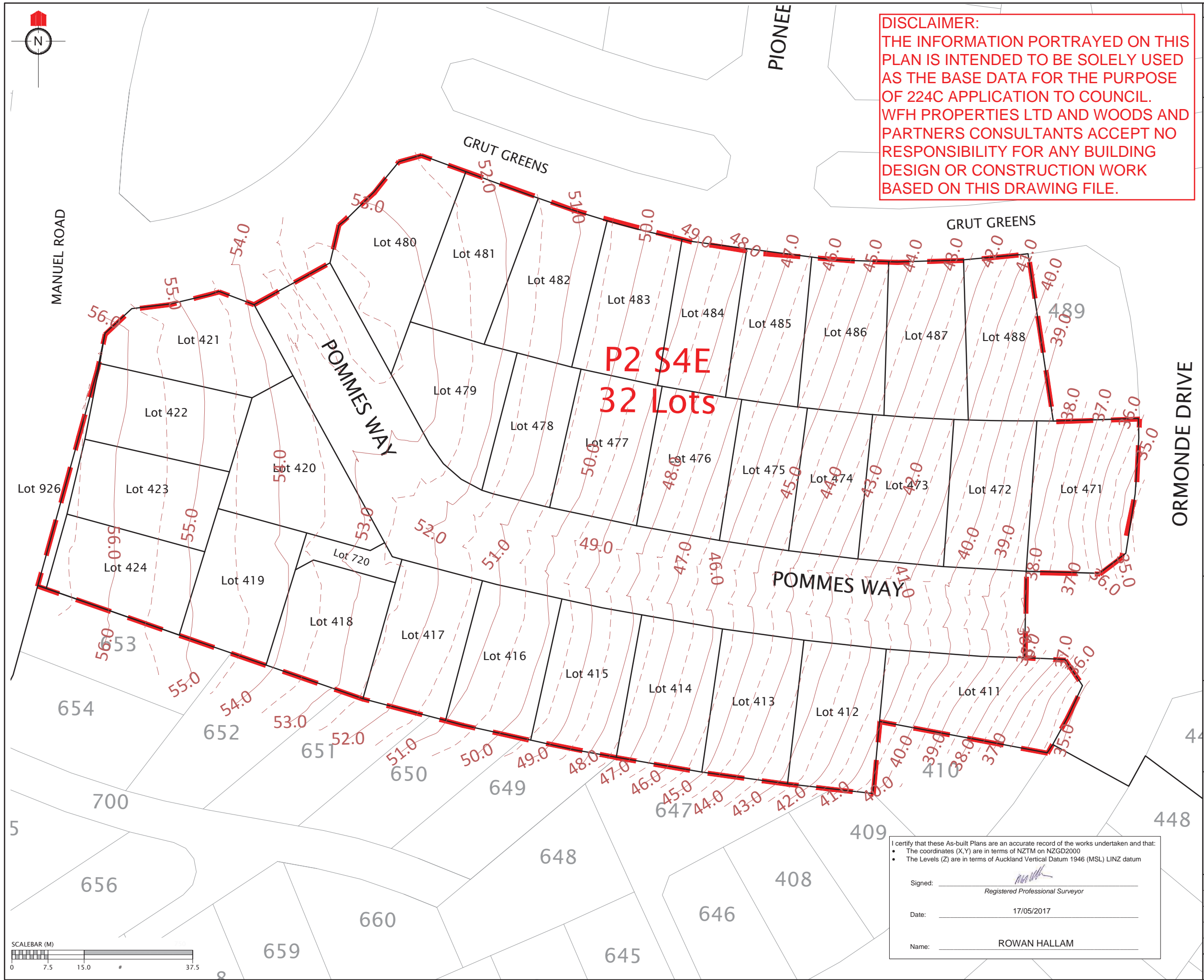
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LOCATION PLAN

NOT TO SCALE





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REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

CLIENT:

WFH PROPERTIES

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**MILLWATER
PRECINCT 2
STAGE 4E**

**FINAL CONTOUR
AS-BUILT PLAN**

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JULY 2017	
DWG. NO. 33222-04E-100-AB	REV.

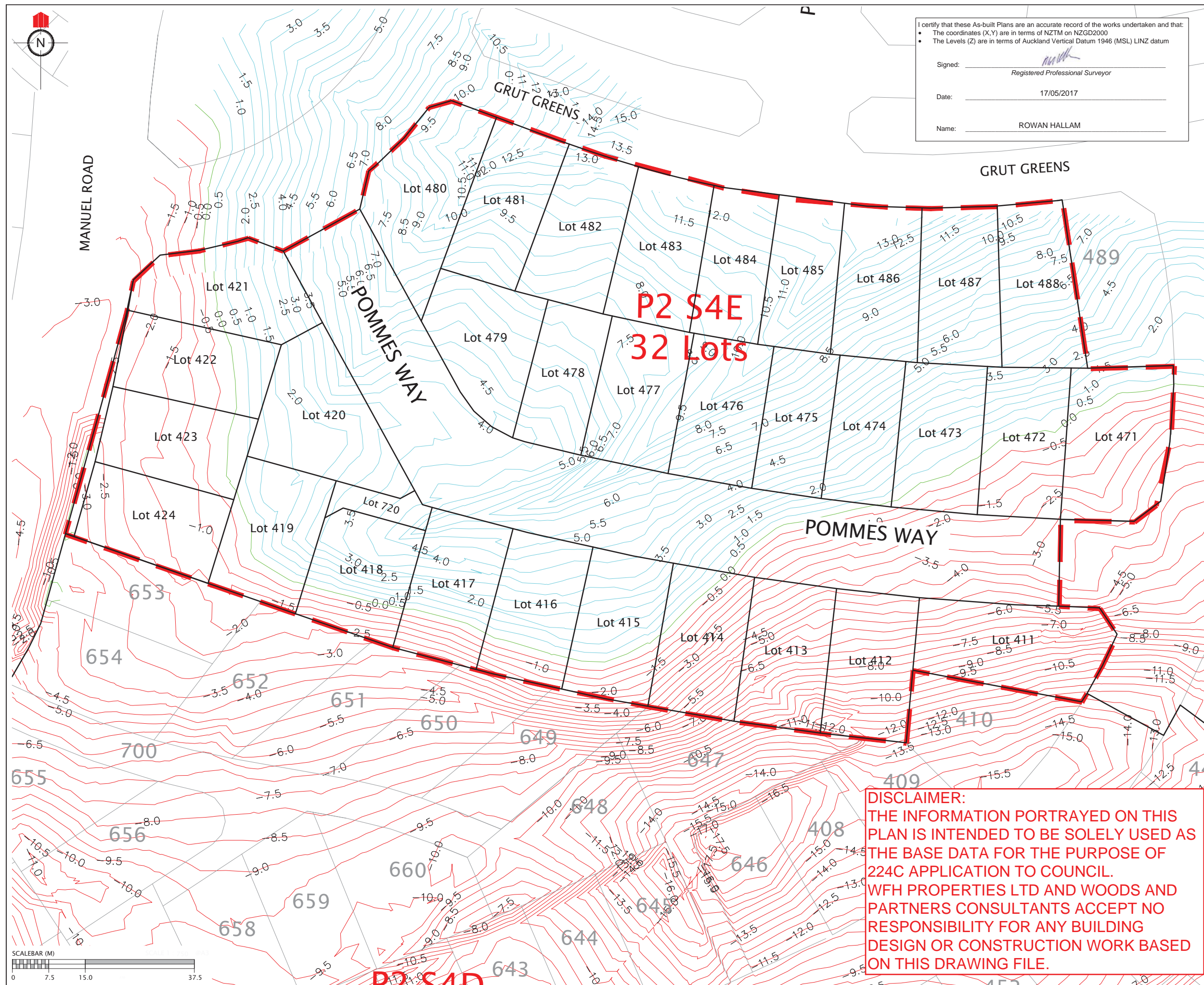
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 17/05/2017

Name: ROWAN HALLAM



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: _____
17/05/2017

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.

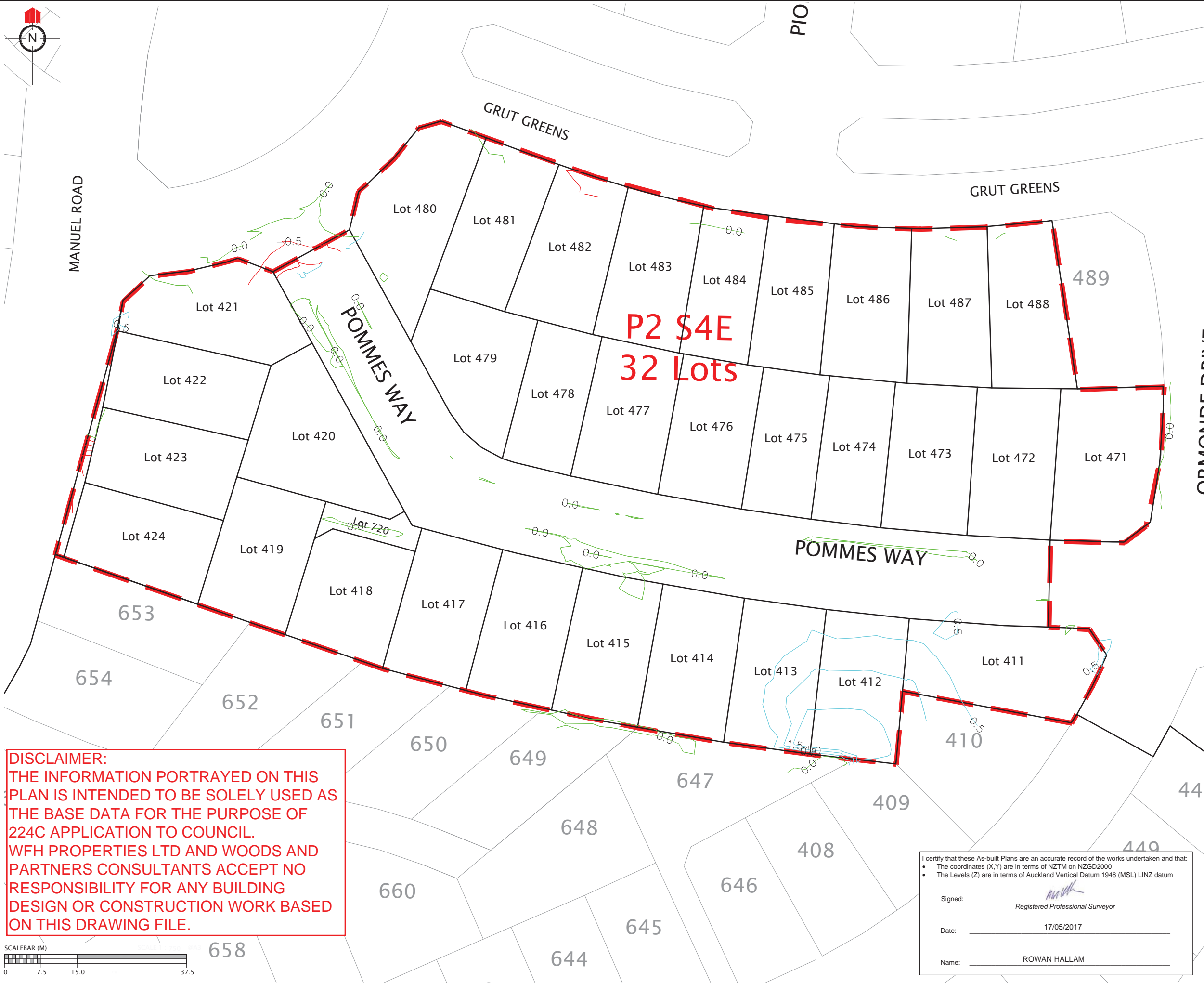
**MILLWATER
PRECINCT 2
STAGE 4E**

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

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JULY 2017	
DWG. NO. 33222-04E-110-AB	REV.

DISCLAIMER:
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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

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MILLWATER PRECINCT 2 STAGE 4E

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

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JULY 2017	
DWG. NO. 33222-04E-111-AB	REV.

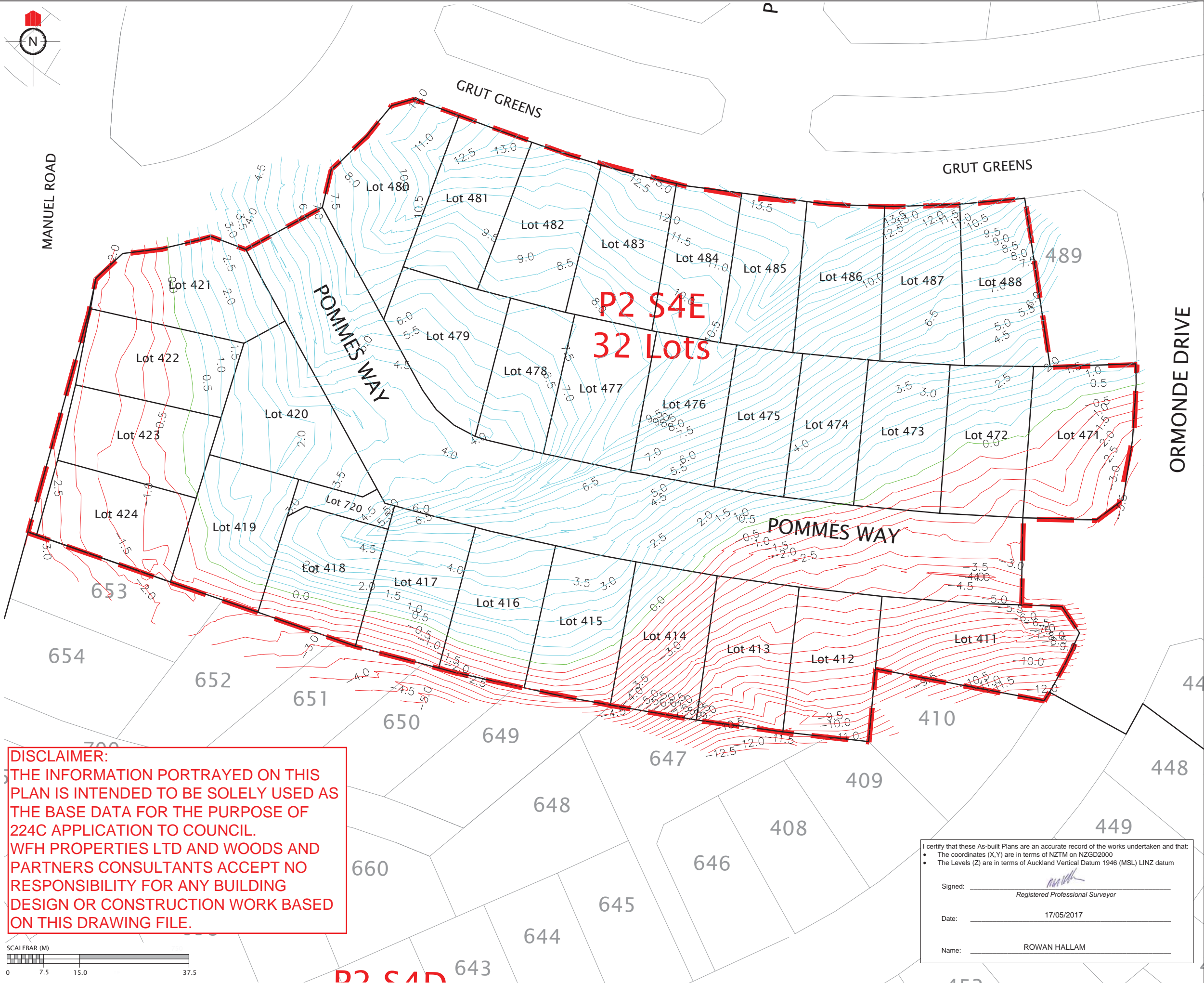
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 17/05/2017

Name: ROWAN HALLAM



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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

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**MILLWATER
PRECINCT 2
STAGE 4E**

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

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JULY 2017	
DWG. NO. 33222-04E-112-AB	REV.

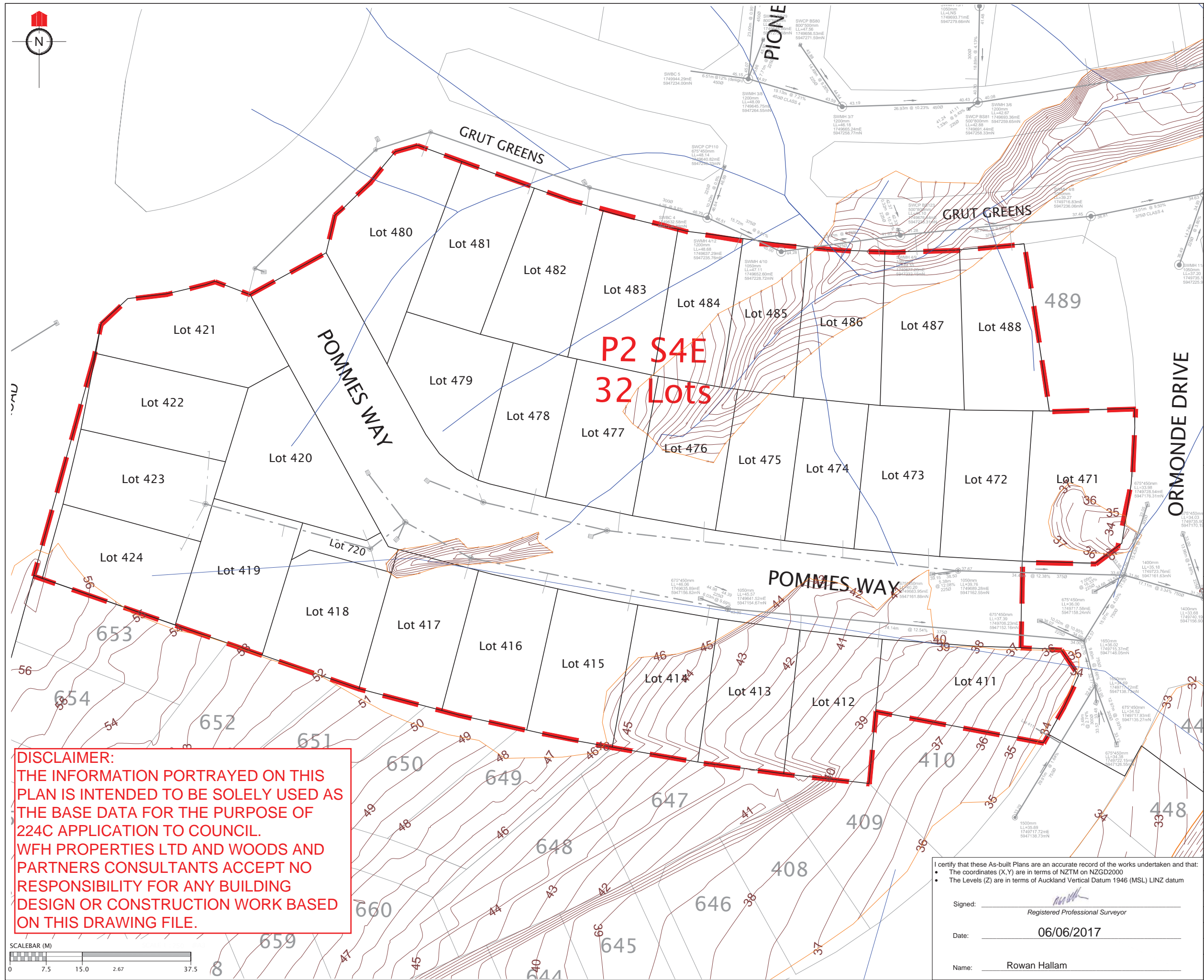
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 17/05/2017

Name: ROWAN HALLAM



REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

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

CLIENT:

WFH

PROPERTIES

WOODS

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MILLWATER PRECINCT 2

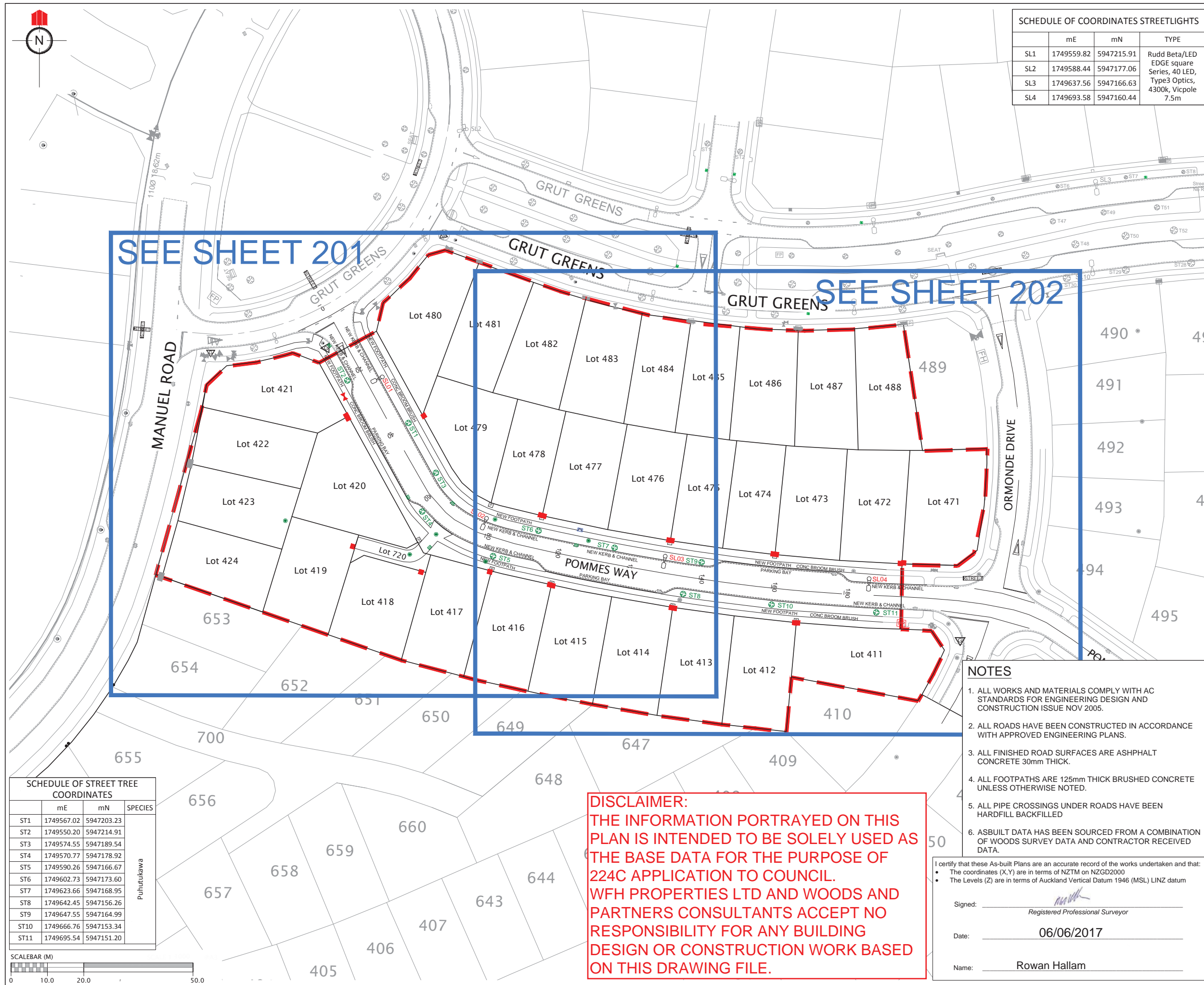
STAGE 4E

SHEAR KEY, UNDERCUTS & SUBSOIL DRAINS

AS-BUILT PLAN

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: HICKS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-04A-120-AB	REV.



SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
SL1	1749559.82	5947215.91	Rudd Beta/LED EDGE square Series, 40 LED, Type3 Optics, 4300k, Vicpole 7.5m
SL2	1749588.44	5947177.06	
SL3	1749637.56	5947166.63	
SL4	1749693.58	5947160.44	

REVISION DETAILS		NAME	DATE
2	STREET SIGNS ADDED	KR	19/06/2017

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:

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Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4E

ROADING AS-BUILT
PAGE 1 OF 3

AUCKLAND COUNCIL

DESIGNED: JB	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:1000 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-04E-200-AB	REV. 2

- 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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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: 06/06/2017

Name: Rowan Hallam

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SCHEDULE OF STREET TREE COORDINATES			
	mE	mN	SPECIES
ST1	1749567.02	5947203.23	Puhutukawa
ST2	1749550.20	5947214.91	
ST3	1749574.55	5947189.54	
ST4	1749570.77	5947178.92	
ST5	1749590.26	5947166.67	
ST6	1749602.73	5947173.60	
ST7	1749623.66	5947168.95	
ST8	1749642.45	5947156.26	
ST9	1749647.55	5947164.99	
ST10	1749666.76	5947153.34	
ST11	1749695.54	5947151.20	

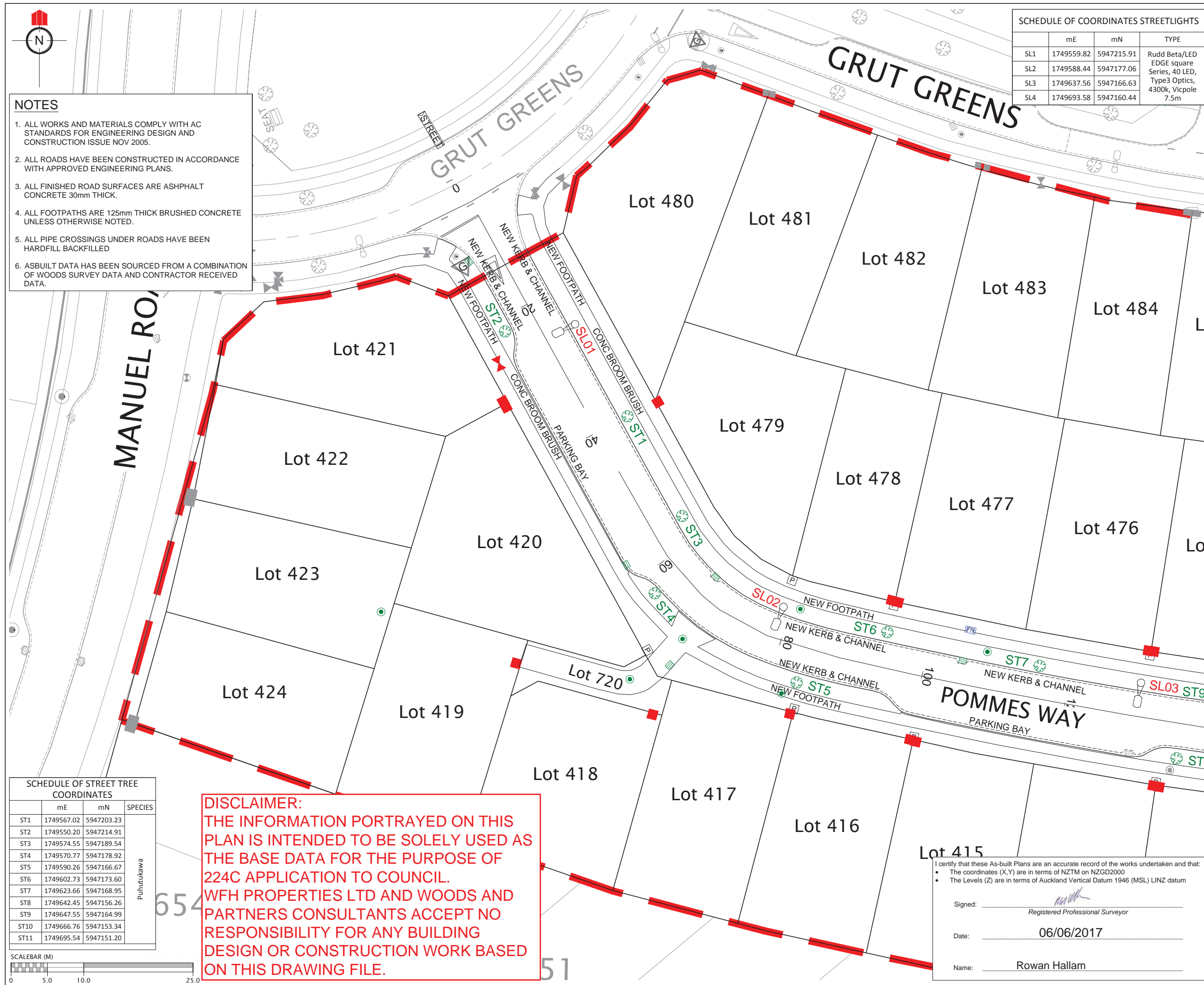
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0

10.0

20.0

50.0



REVISION DETAILS

2 STREET SIGNS ADDED

NAME

KR

DATE

19/06/2017

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 4E

ROADING AS-BUILT
PAGE 2 OF 3

AUCKLAND COUNCIL

DESIGNED: JB

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33222

ISSUED: JUNE 2017

DWG. NO. 33222-04E-201-AB

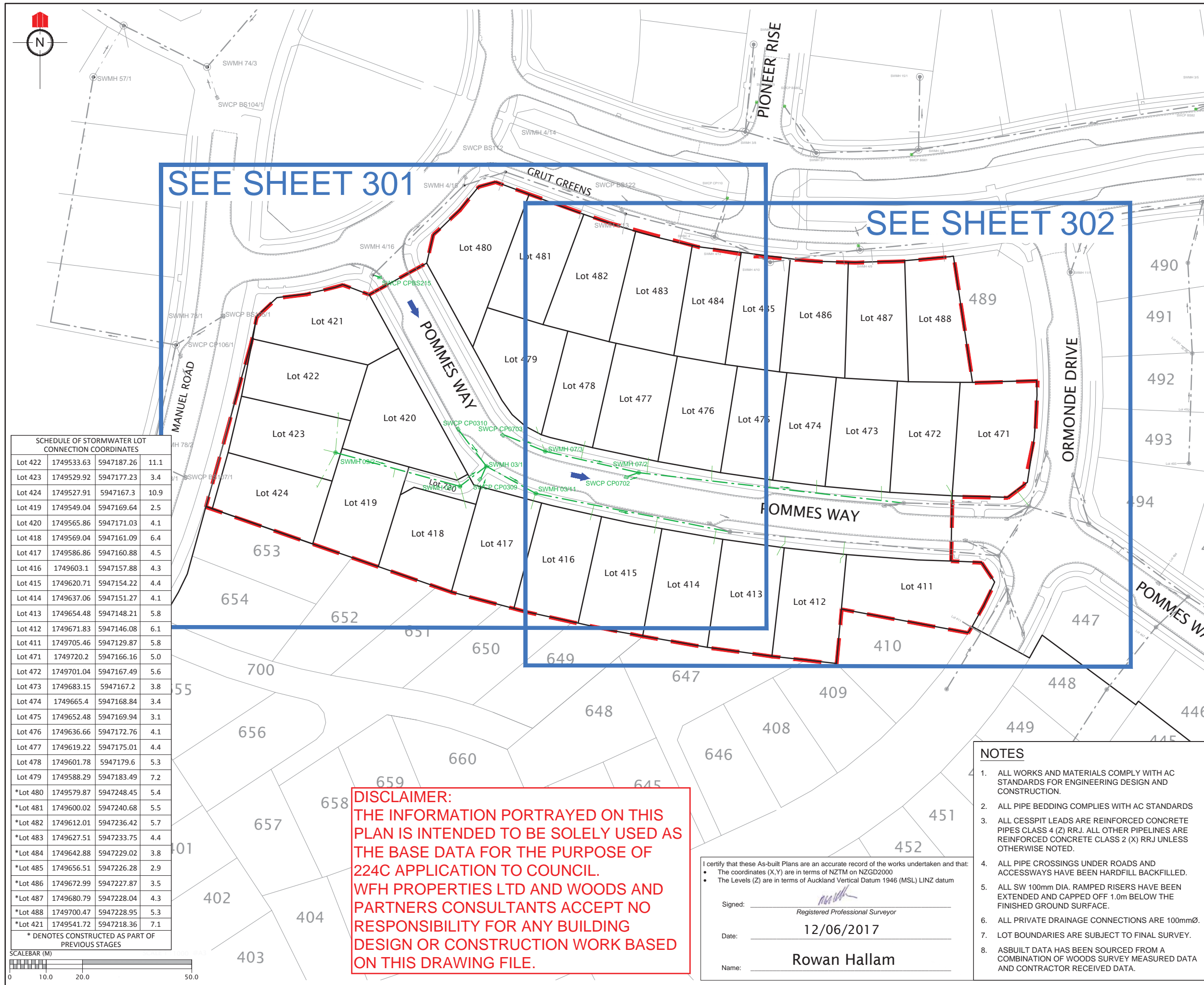
ASBUILT

DRAWN: KR

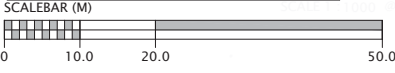
SURVEYED: WOODS

SCALE: 1:500 @ A3

REV. 2



SCHEDULE OF STORMWATER LOT CONNECTION COORDINATES			
Lot 422	1749533.63	5947187.26	11.1
Lot 423	1749529.92	5947177.23	3.4
Lot 424	1749527.91	5947167.3	10.9
Lot 419	1749549.04	5947169.64	2.5
Lot 420	1749565.86	5947171.03	4.1
Lot 418	1749569.04	5947161.09	6.4
Lot 417	1749586.86	5947160.88	4.5
Lot 416	1749603.1	5947157.88	4.3
Lot 415	1749620.71	5947154.22	4.4
Lot 414	1749637.06	5947151.27	4.1
Lot 413	1749654.48	5947148.21	5.8
Lot 412	1749671.83	5947146.08	6.1
Lot 411	1749705.46	5947129.87	5.8
Lot 471	1749720.2	5947166.16	5.0
Lot 472	1749701.04	5947167.49	5.6
Lot 473	1749683.15	5947167.2	3.8
Lot 474	1749665.4	5947168.84	3.4
Lot 475	1749652.48	5947169.94	3.1
Lot 476	1749636.66	5947172.76	4.1
Lot 477	1749619.22	5947175.01	4.4
Lot 478	1749601.78	5947179.6	5.3
Lot 479	1749588.29	5947183.49	7.2
*Lot 480	1749579.87	5947248.45	5.4
*Lot 481	1749600.02	5947240.68	5.5
*Lot 482	1749612.01	5947236.42	5.7
*Lot 483	1749627.51	5947233.75	4.4
*Lot 484	1749642.88	5947229.02	3.8
*Lot 485	1749656.51	5947226.28	2.9
*Lot 486	1749672.99	5947227.87	3.5
*Lot 487	1749680.79	5947228.04	4.3
*Lot 488	1749700.47	5947228.95	5.3
*Lot 421	1749541.72	5947218.36	7.1
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGES			



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

Signed: _____
Registered Professional Surveyor

Date: 12/06/2017

Name: Rowan Hallam

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 - 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.
 - 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
1.			

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

CLIENT:

WFH PROPERTIES

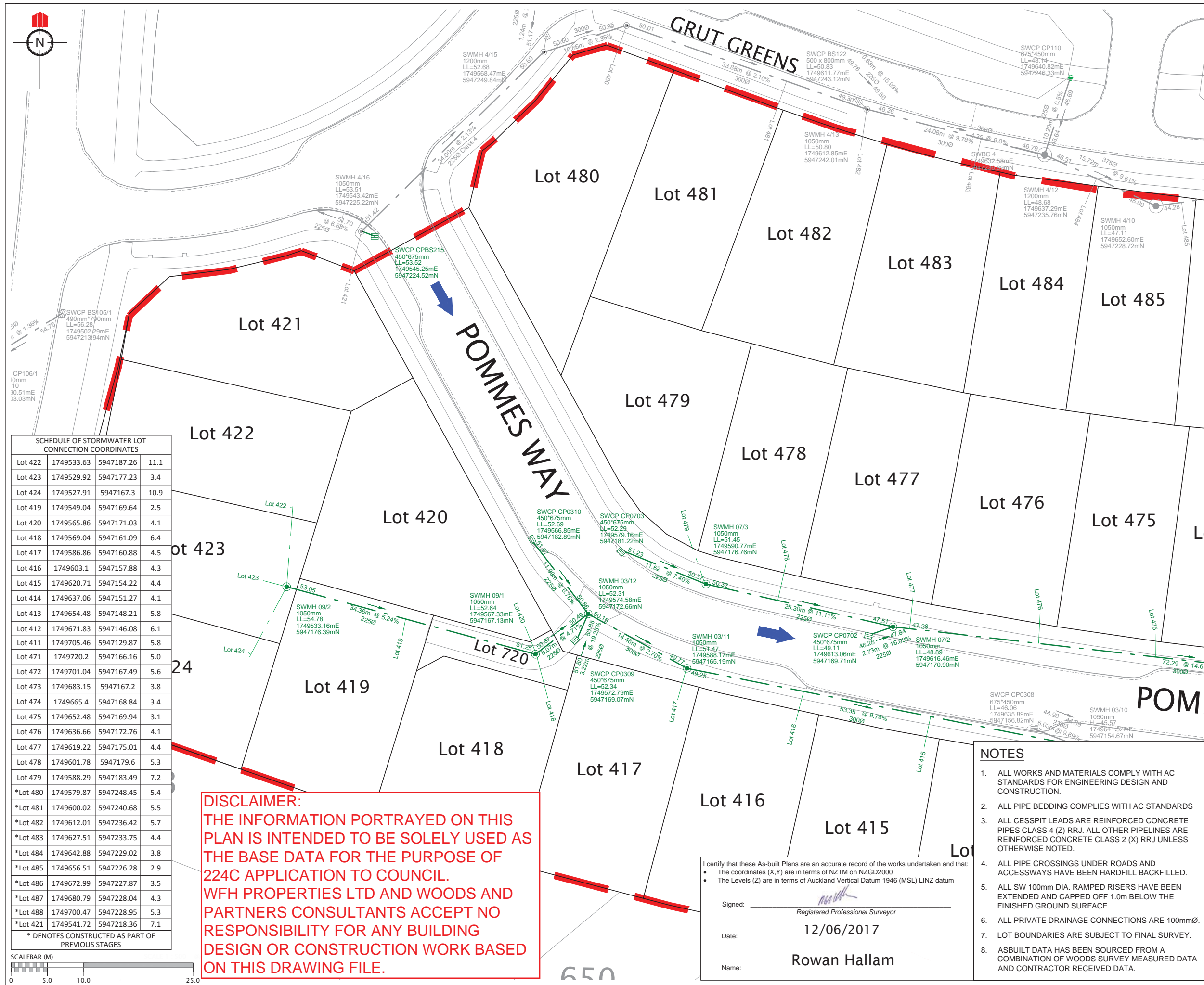
WOODS
Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4E

STORMWATER AS-BUILT
Sheet 1 of 3

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:1000 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-4E-300-AB	REV.



REVISION DETAILS		NAME	DATE

LEGEND

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

CLIENT:

WFH
PROPERTIES

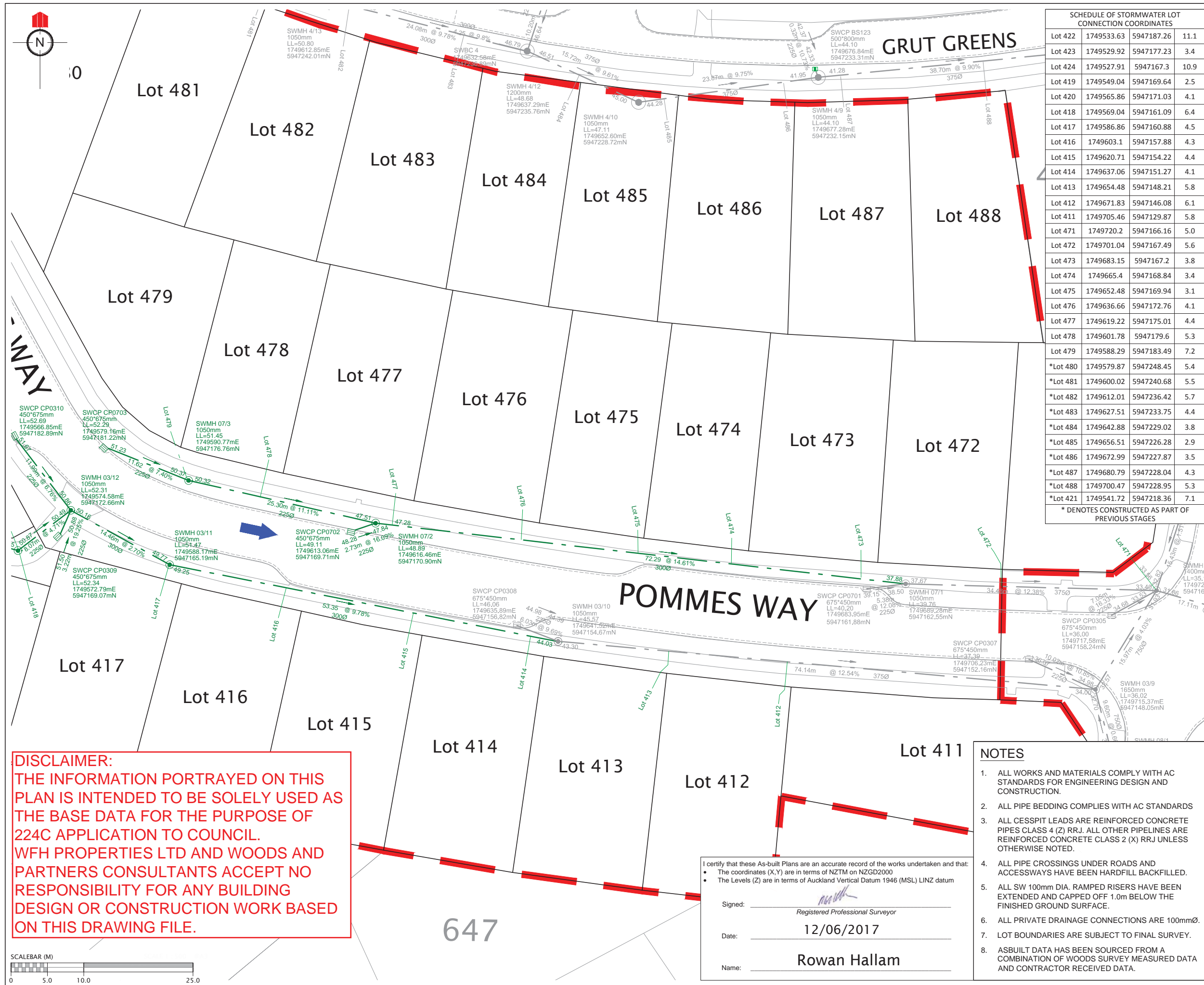
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MILLWATER PRECINCT 2 STAGE 4E

STORMWATER AS-BUILT
Sheet 2 of 3

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KH
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:500 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-4E-301-AB	REV.



SCHEDULE OF STORMWATER LOT CONNECTION COORDINATES			
Lot 422	1749533.63	5947187.26	11.1
Lot 423	1749529.92	5947177.23	3.4
Lot 424	1749527.91	5947167.3	10.9
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Lot 475	1749652.48	5947169.94	3.1
Lot 476	1749636.66	5947172.76	4.1
Lot 477	1749619.22	5947175.01	4.4
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*Lot 483	1749627.51	5947233.75	4.4
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*Lot 487	1749680.79	5947228.04	4.3
*Lot 488	1749700.47	5947228.95	5.3
*Lot 421	1749541.72	5947218.36	7.1
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGES			

REVISION DETAILS

NAME

DATE

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2

STAGE 4E

STORMWATER AS-BUILT

Sheet 3 of 3

AUCKLAND COUNCIL

DESIGNED: JG

ASBUILT

CHECKED: KR

DRAWN: KH

APPROVED: RH

SURVEYED: WOODS

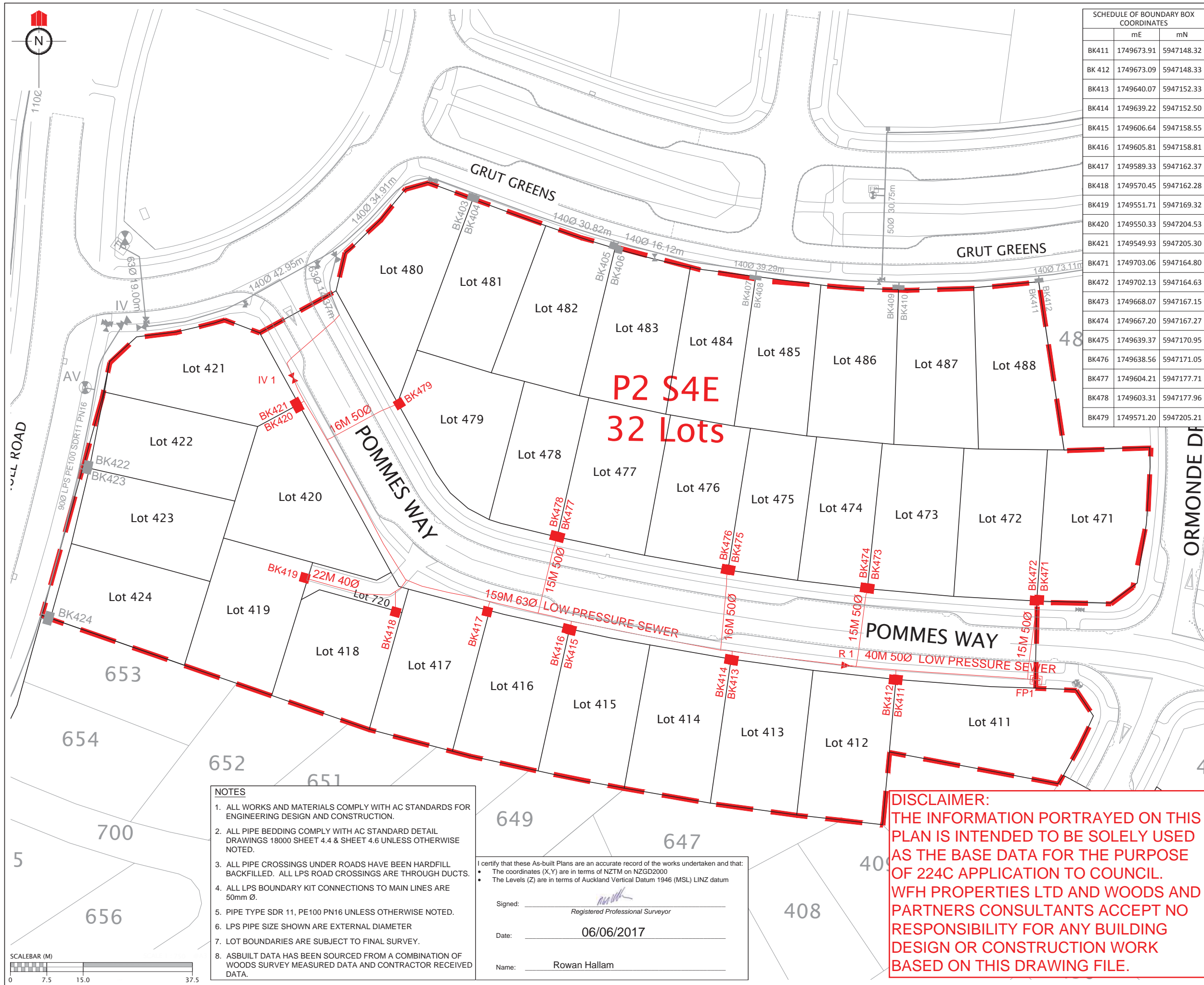
JOB NUMBER: 33222

SCALE: 1:500 @ A3

ISSUED: JUNE 2017

DWG. NO. 33222-4E-302-AB

REV.



SCHEDULE OF BOUNDARY BOX COORDINATES		
	mE	mN
BK411	1749673.91	5947148.32
BK 412	1749673.09	5947148.33
BK413	1749640.07	5947152.33
BK414	1749639.22	5947152.50
BK415	1749606.64	5947158.55
BK416	1749605.81	5947158.81
BK417	1749589.33	5947162.37
BK418	1749570.45	5947162.28
BK419	1749551.71	5947169.32
BK420	1749550.33	5947204.53
BK421	1749549.93	5947205.30
BK471	1749703.06	5947164.80
BK472	1749702.13	5947164.63
BK473	1749668.07	5947167.15
BK474	1749667.20	5947167.27
BK475	1749639.37	5947170.95
BK476	1749638.56	5947171.05
BK477	1749604.21	5947177.71
BK478	1749603.31	5947177.96
BK479	1749571.20	5947205.21

REVISION DETAILS

	NAME	DATE
2 plans updated	KR	19/06/2017

LEGEND

BK##	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
ISOLATION VALVE		
IV 1	1749549.32	5947210.49
REDUCER		
R 1	1749664.08	5947151.17
FLUSHING PIT		
FP 1	1749702.43	5947148.23

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4E

WASTEWATER ASBUILT PLAN

AUCKLAND COUNCIL

DESIGNED: JG	AS-BUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-04E-400-AB	REV. 2

- NOTES
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.

2. ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.

3. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.

4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.

5. PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.

6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER

7. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

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

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: _____

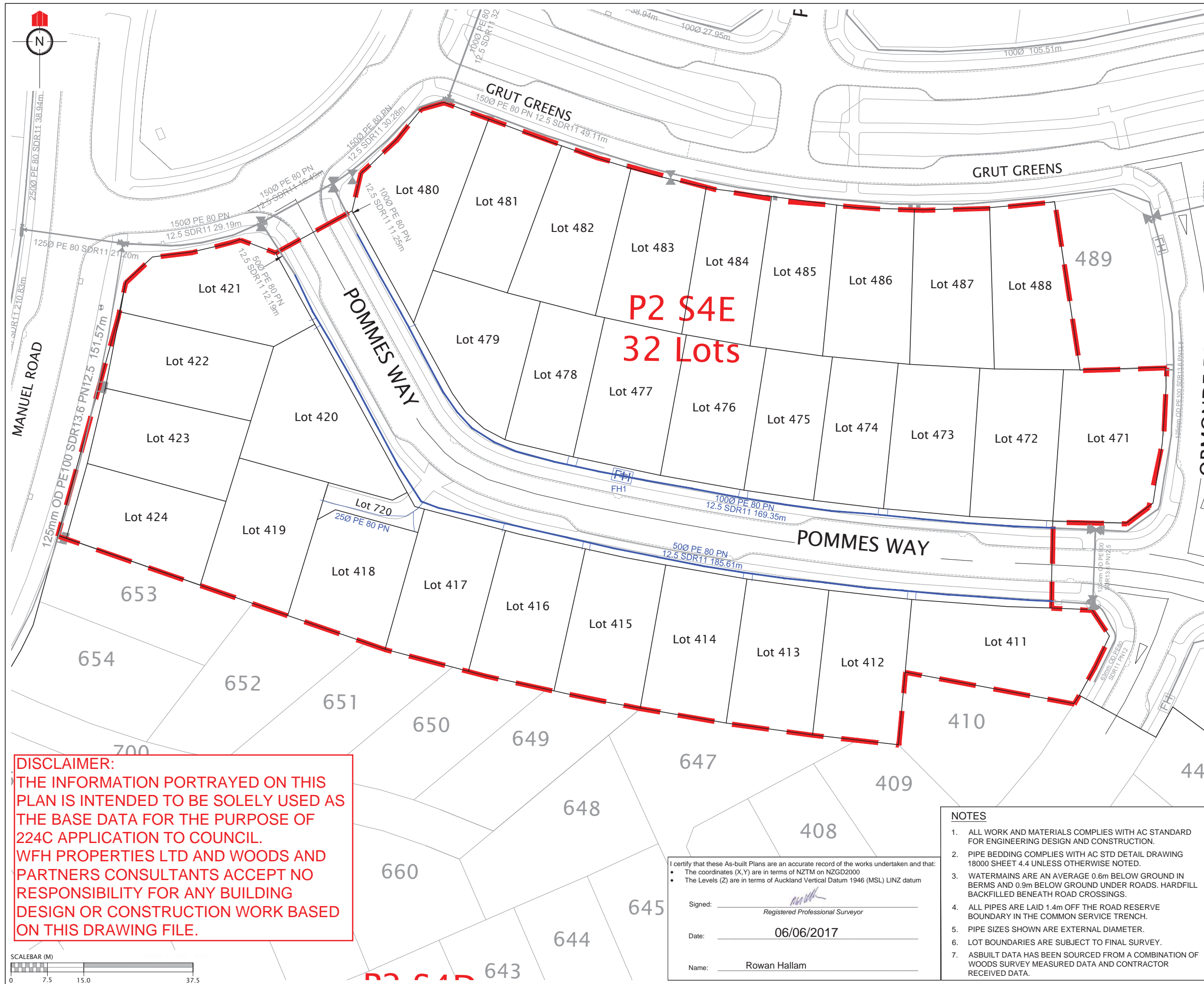
Registered Professional Surveyor

Date: 06/06/2017

Name: Rowan Hallam

DISCLAIMER:

THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSE 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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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 06/06/2017

Name: Rowan Hallam

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

REVISION DETAILS		NAME	DATE

LEGEND

EXISTING WATERMAIN —

HIGH PEASURE WATERMAIN —

SLUICE VALVE SV1

PEET VALVE PV

FIRE HYDRANT FH

BLANK CAP BC1

STAGE BOUNDARY —

	mE	mN
FH1	1749613.87	5947173.84

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4E

WATERMAIN ASBUILT PLAN

AUCKLAND COUNCIL

DESIGNED: JG	AS-BUILT
CHECKED: KR	DRAWN: KH
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33222	SCALE: 1:750 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33222-04E-600-AB	REV.