

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

- LEGEND**
- MAJOR CONTOURS
 - MINOR CONTOURS
 - STAGE BOUNDARIES
 - LOT BOUNDARIES
 - TOP RETAINING WALL
 - BOTTOM RETAINING WALL

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

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


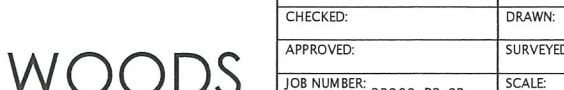
Signed: *[Signature]*
Registered Professional Surveyor

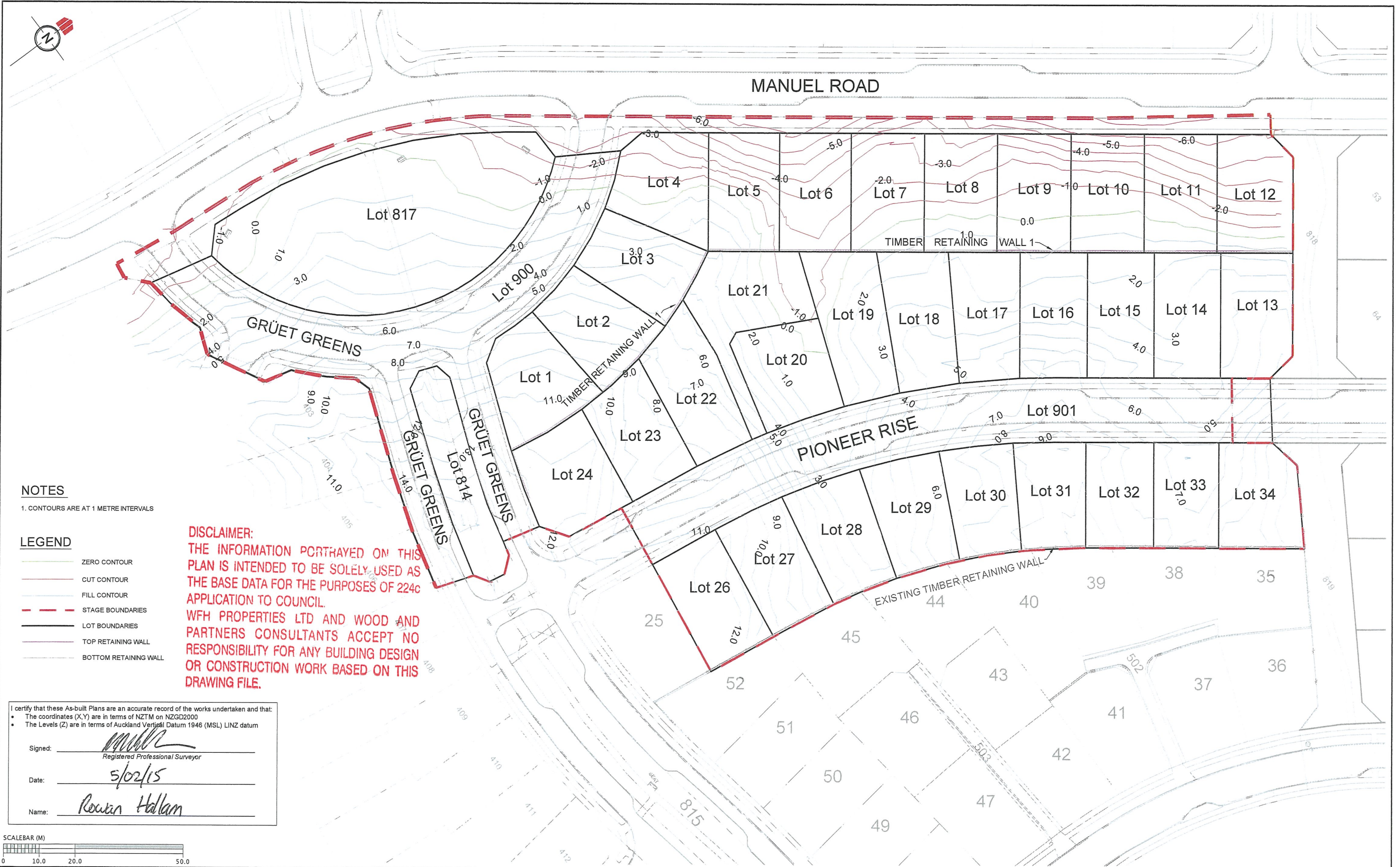
Date: *5/02/15*

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



REVISION DETAILS		NAME	DATE	CLIENT:	<div>MILLWATER – PRECINCT 3 STAGE 2B</div> <div>ASBUILT FINAL CONTOUR PLAN</div> <div>AUCKLAND COUNCIL</div>	<div></div>	<div></div>	DESIGNED:	ASBUILT	
1. DRAWING ISSUED		AC	29/01/15	CHECKED:				DRAWN: RM		
				APPROVED:				SURVEYED: WOODS		
				JOB NUMBER: 33302-P3-2B				SCALE: 1:1000 @ A3		
				ISSUED: JAN 2015						
				DWG. NO. 33302-2B-AB-100				REV. 1		



NOTES

1. CONTOURS ARE AT 1 METRE INTERVALS

LEGEND

- ZERO CONTOUR
- CUT CONTOUR
- FILL CONTOUR
- STAGE BOUNDARIES
- LOT BOUNDARIES
- TOP RETAINING WALL
- BOTTOM RETAINING WALL

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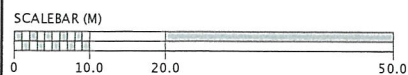
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Registered Professional Surveyor

Date: 5/02/15

Name: Rowan Haddam



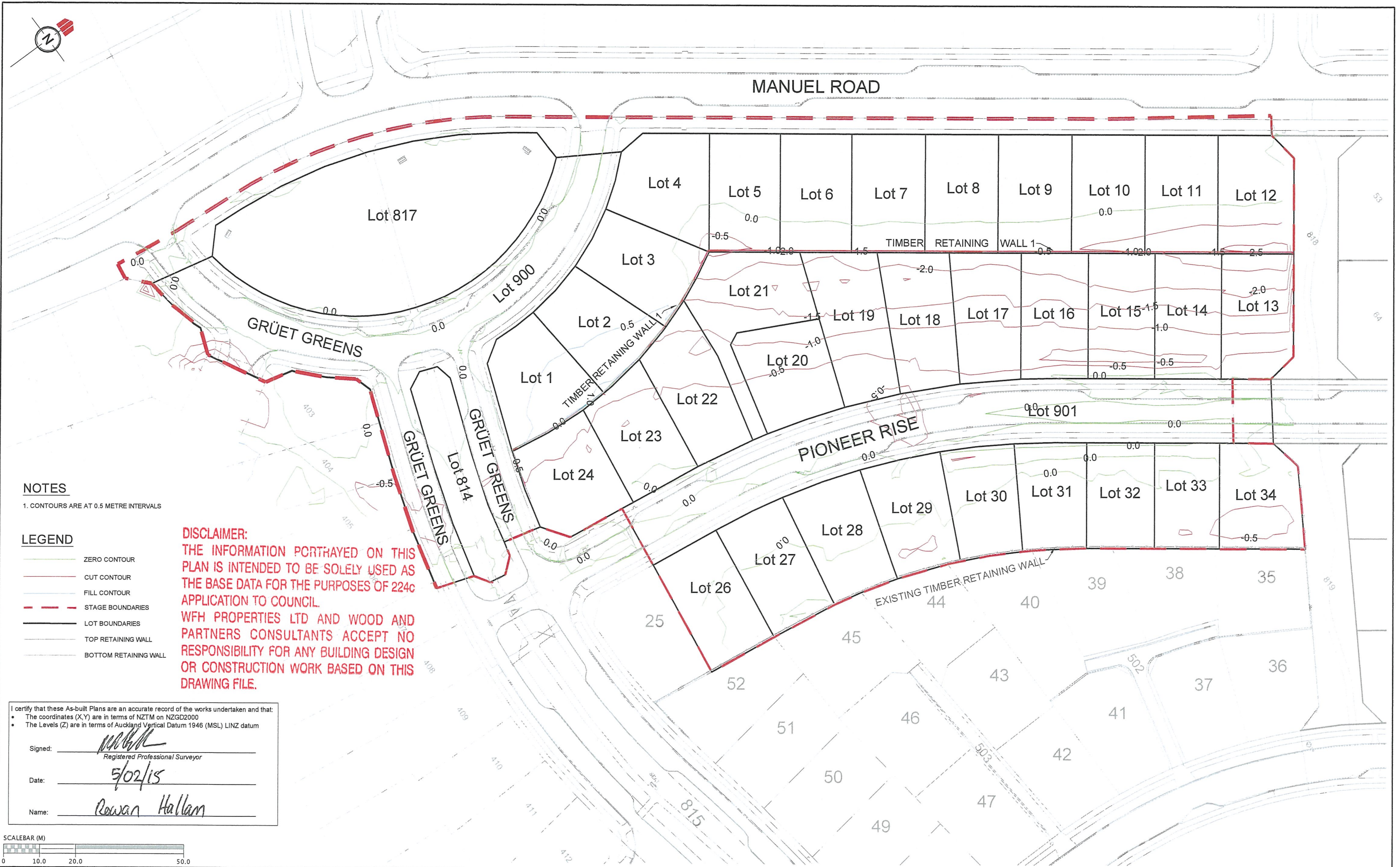
REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AC	29/01/15



MILLWATER – PRECINCT 3 STAGE 2B
ASBUILT – ORIGINAL SURFACE – EARTHWORK SURFACE, CUT/FILL CONTOUR PLAN
AUCKLAND COUNCIL

**WOODS**
Engineers, Surveyors, Planners.

DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-P3-2B	SCALE: 1:1000 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-120	REV. 1



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

- LEGEND**
- ZERO CONTOUR
 - CUT CONTOUR
 - FILL CONTOUR
 - STAGE BOUNDARIES
 - LOT BOUNDARIES
 - TOP RETAINING WALL
 - BOTTOM RETAINING WALL

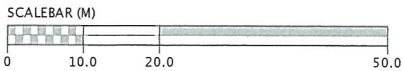
DISCLAIMER:
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• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: [Signature]
Registered Professional Surveyor

Date: 5/02/15

Name: Rewan Hallam



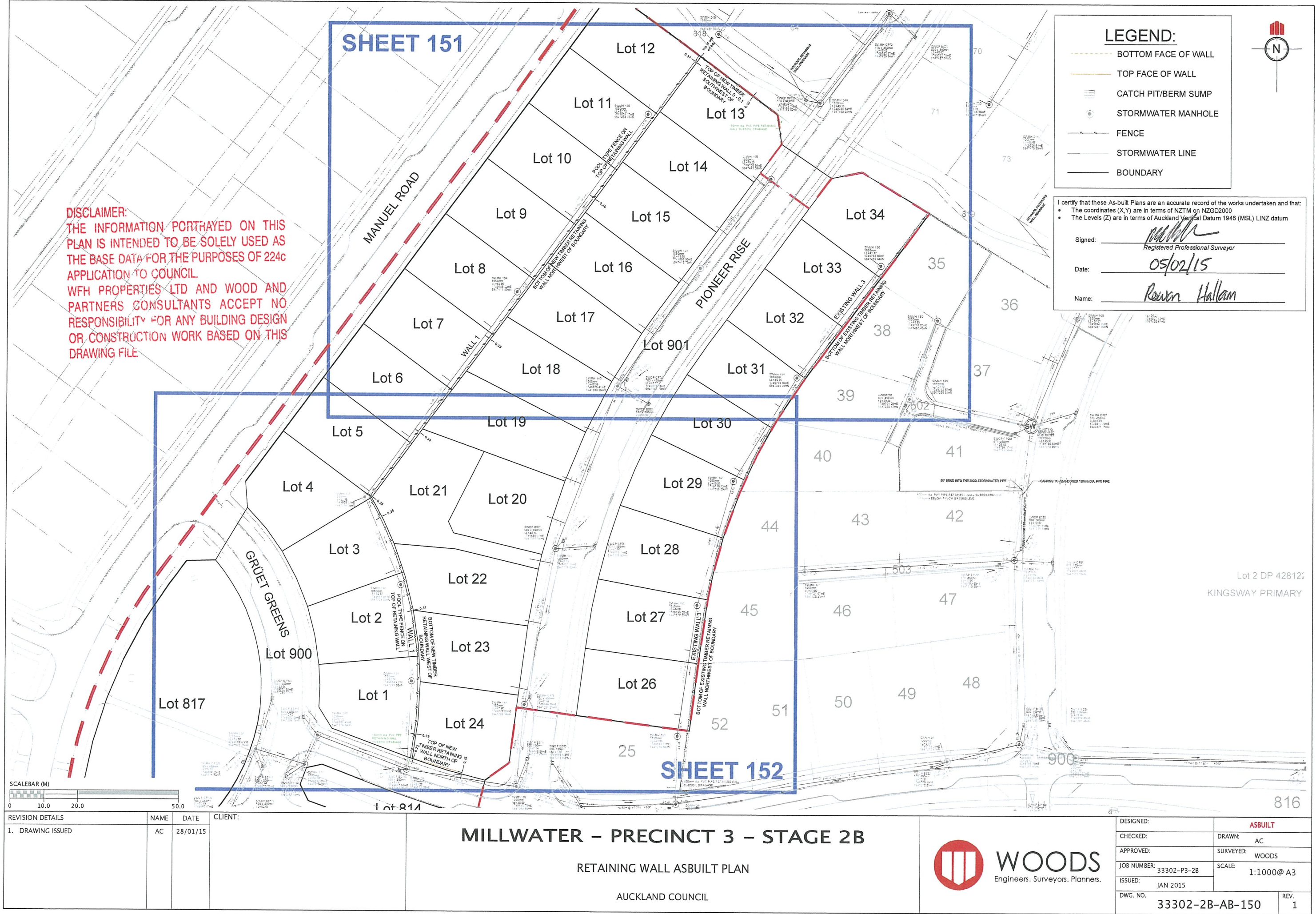
REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AC	29/01/15

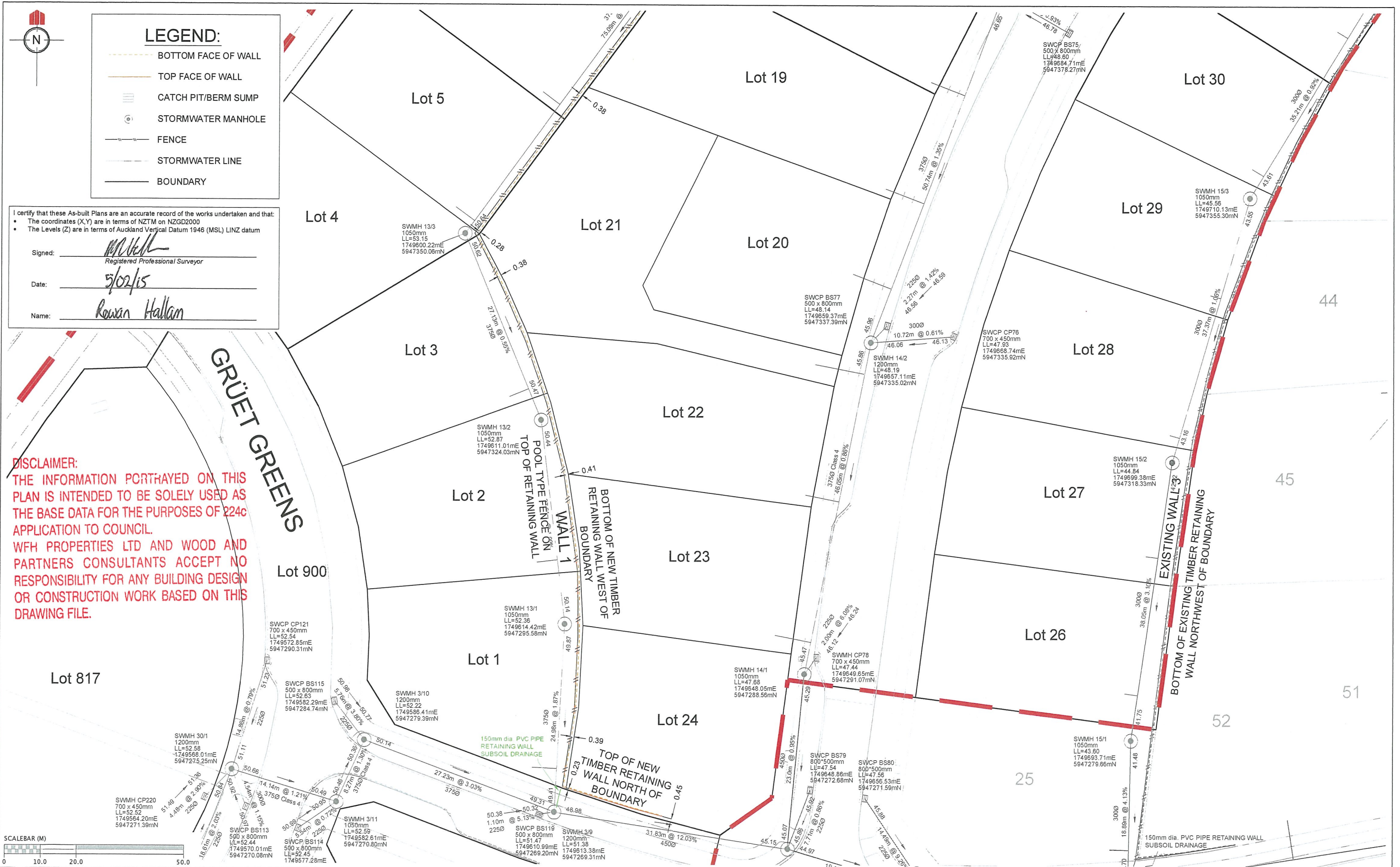


MILLWATER – PRECINCT 3 STAGE 2B
ASBUILT – EARTHWORK SURFACE – FINAL SURFACE, CUT/FILL CONTOUR PLAN
AUCKLAND COUNCIL



DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-P3-2B	SCALE: 1:1000 @ A3
ISSUED:	
DWG. NO. 33302-2B-AB-121	REV. 1

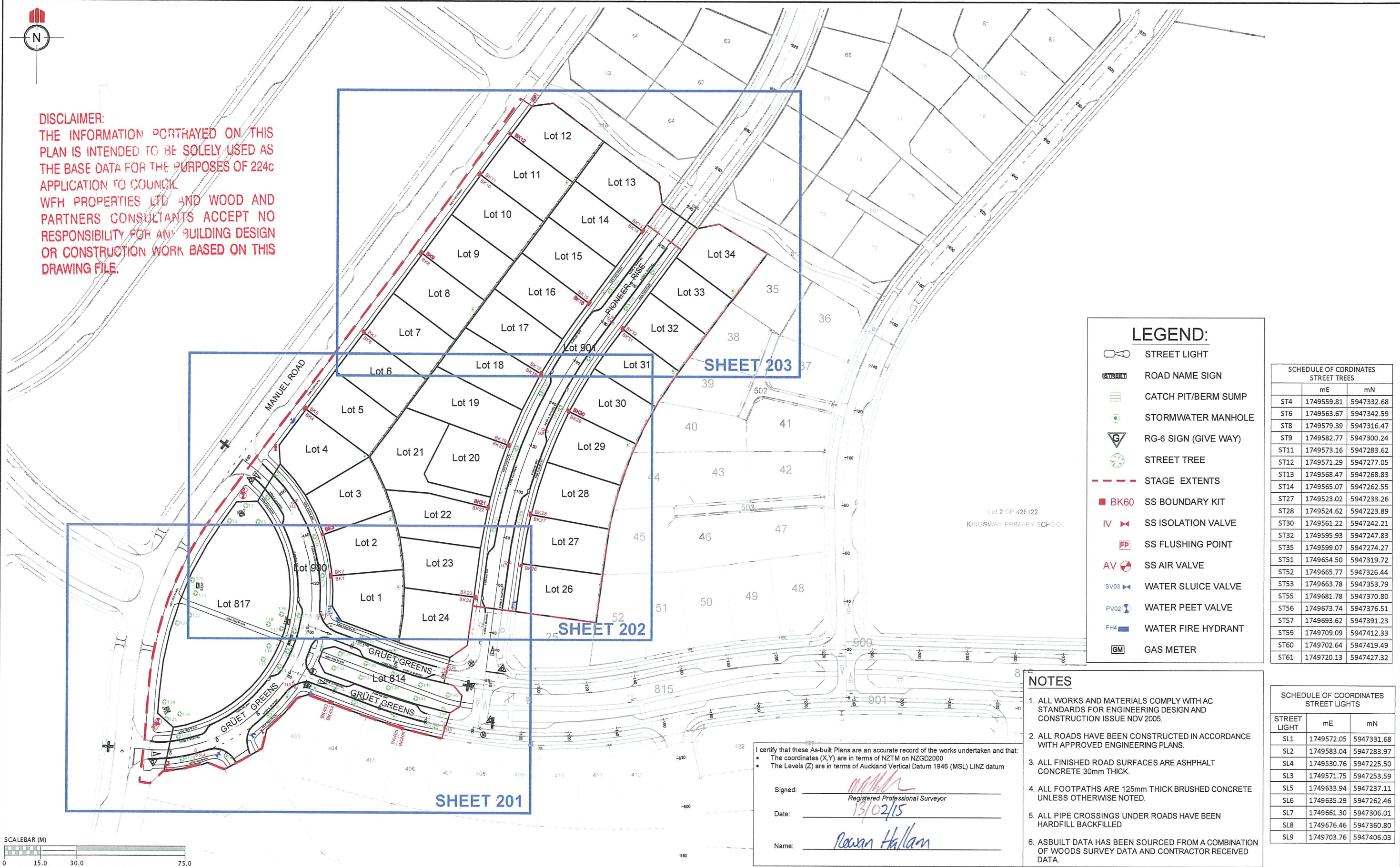




MILLWATER – PRECINCT 3 – STAGE 2A
 RETAINING WALL ASBUILT PLAN
 SHEET 2 OF 2
 AUCKLAND COUNCIL



DESIGNED:	ASBUILT
CHECKED:	DRAWN: AC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-P3-2A	SCALE: 1:500@ A3
ISSUED: NOV 2014	
DWG. NO. 33302-2A-AB-152	REV. 1



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

LEGEND:

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- BK60 SS BOUNDARY KIT
- IV SS ISOLATION VALVE
- FP SS FLUSHING POINT
- AV SS AIR VALVE
- SV03 WATER SLUICE VALVE
- PV02 WATER PEET VALVE
- FH4 WATER FIRE HYDRANT
- GM GAS METER

SCHEDULE OF COORDINATES STREET TREES		
	mE	mN
ST4	1749559.81	5947332.68
ST6	1749563.67	5947342.59
ST8	1749579.39	5947316.47
ST9	1749582.77	5947300.24
ST11	1749573.16	5947283.62
ST12	1749571.29	5947277.05
ST13	1749568.47	5947268.83
ST14	1749565.07	5947262.55
ST27	1749523.02	5947233.26
ST28	1749524.62	5947223.89
ST30	1749561.22	5947242.21
ST32	1749595.93	5947247.83
ST35	1749599.07	5947274.27
ST51	1749654.50	5947319.72
ST52	1749665.77	5947326.44
ST53	1749663.78	5947353.79
ST55	1749681.78	5947370.80
ST56	1749673.74	5947376.51
ST57	1749693.62	5947391.23
ST59	1749709.09	5947412.33
ST60	1749702.64	5947419.49
ST61	1749720.13	5947427.32

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.

SCHEDULE OF COORDINATES STREET LIGHTS		
STREET LIGHT	mE	mN
SL1	1749572.05	5947331.68
SL2	1749583.04	5947283.97
SL4	1749530.76	5947225.50
SL3	1749571.75	5947253.59
SL5	1749633.94	5947237.11
SL6	1749635.29	5947262.46
SL7	1749661.30	5947306.01
SL8	1749676.46	5947360.80
SL9	1749703.76	5947406.03

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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: *[Signature]*
Registered Professional Surveyor
Date: *13/02/15*
Name: *Ronan Hallam*

REVISION DETAILS

1. DRAWING ISSUED	AC	03/02/15
-------------------	----	----------

NAME

AC

DATE

03/02/15

CLIENT:

MILLWATER – PRECINCT 3 –STAGE 2B

ASBUILT ROAD LAYOUT
OVERALL PLAN

AUCKLAND COUNCIL

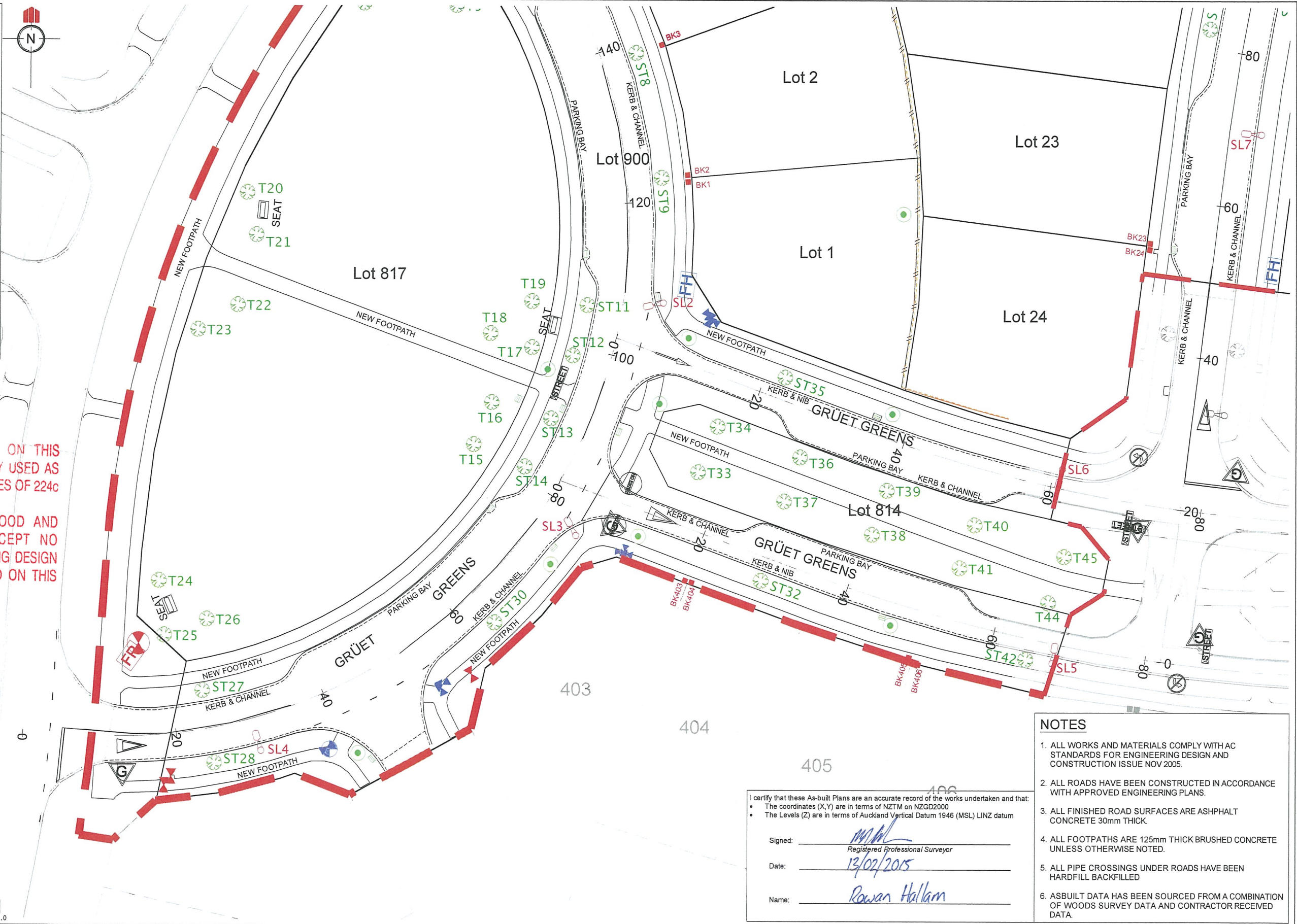
WOODS
Engineers. Surveyors. Planners.

DESIGNED:	AS-BUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-2B	SCALE: 1:1500 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-200	REV. 1

LEGEND:

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- BK60 SS BOUNDARY KIT
- IV SS ISOLATION VALVE
- FP SS FLUSHING POINT
- AV SS AIR VALVE
- SV03 WATER SLUICE VALVE
- PV02 WATER PEET VALVE
- FH4 WATER FIRE HYDRANT
- GM GAS METER

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NOTES

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- 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.

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Signed: *[Signature]*
Registered Professional Surveyor

Date: *13/02/2015*

Name: *Ronan Hallam*

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AC	03/02/15

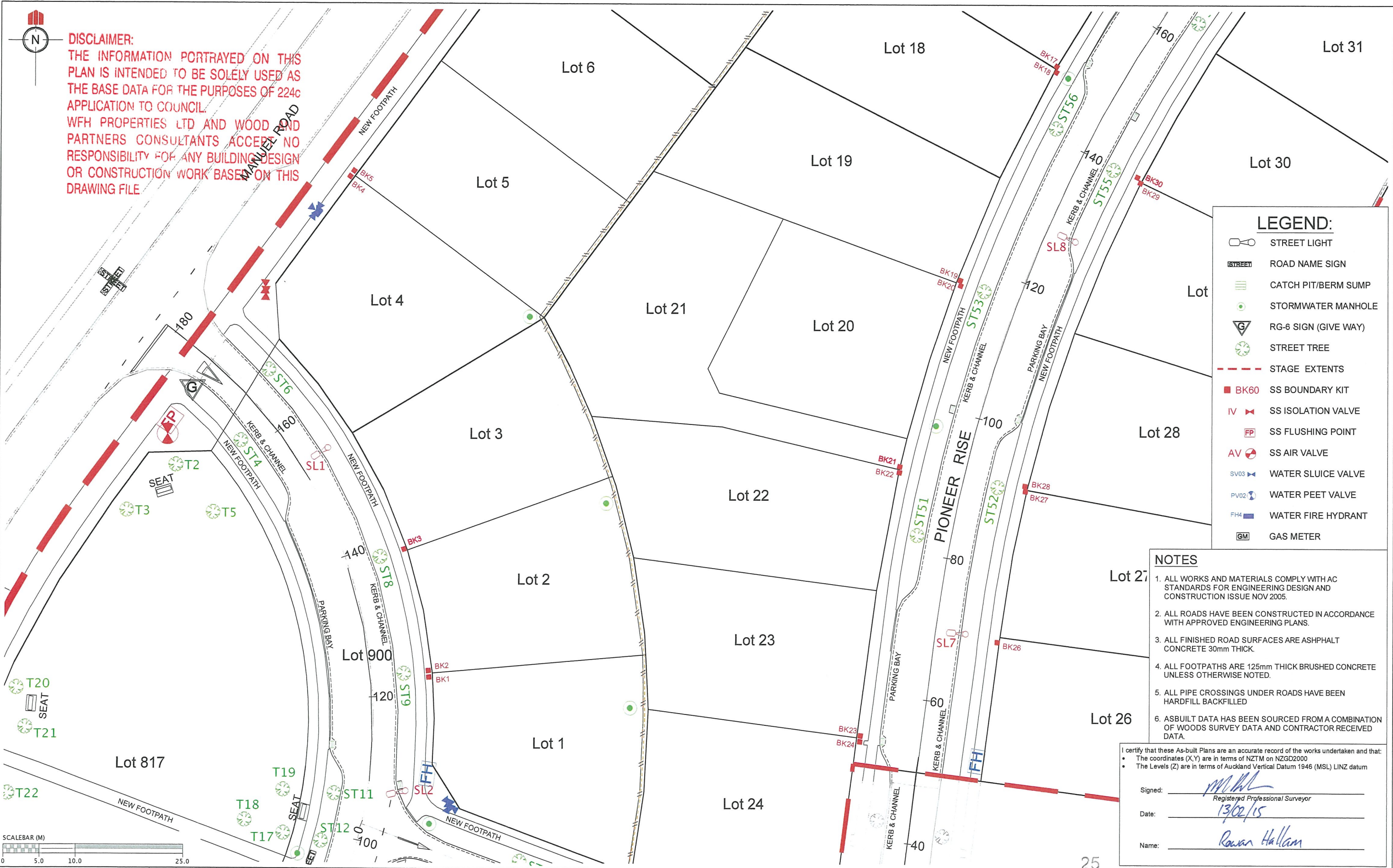
CLIENT:

WFH
PROPERTIES

MILLWATER – PRECINCT 3 – STAGE 2B
ASBUILT ROAD LAYOUT
SHEET 1 OF 3
AUCKLAND COUNCIL

WOODS
Engineers. Surveyors. Planners.

DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-2B	SCALE: 1:500 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-201	REV. 1



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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

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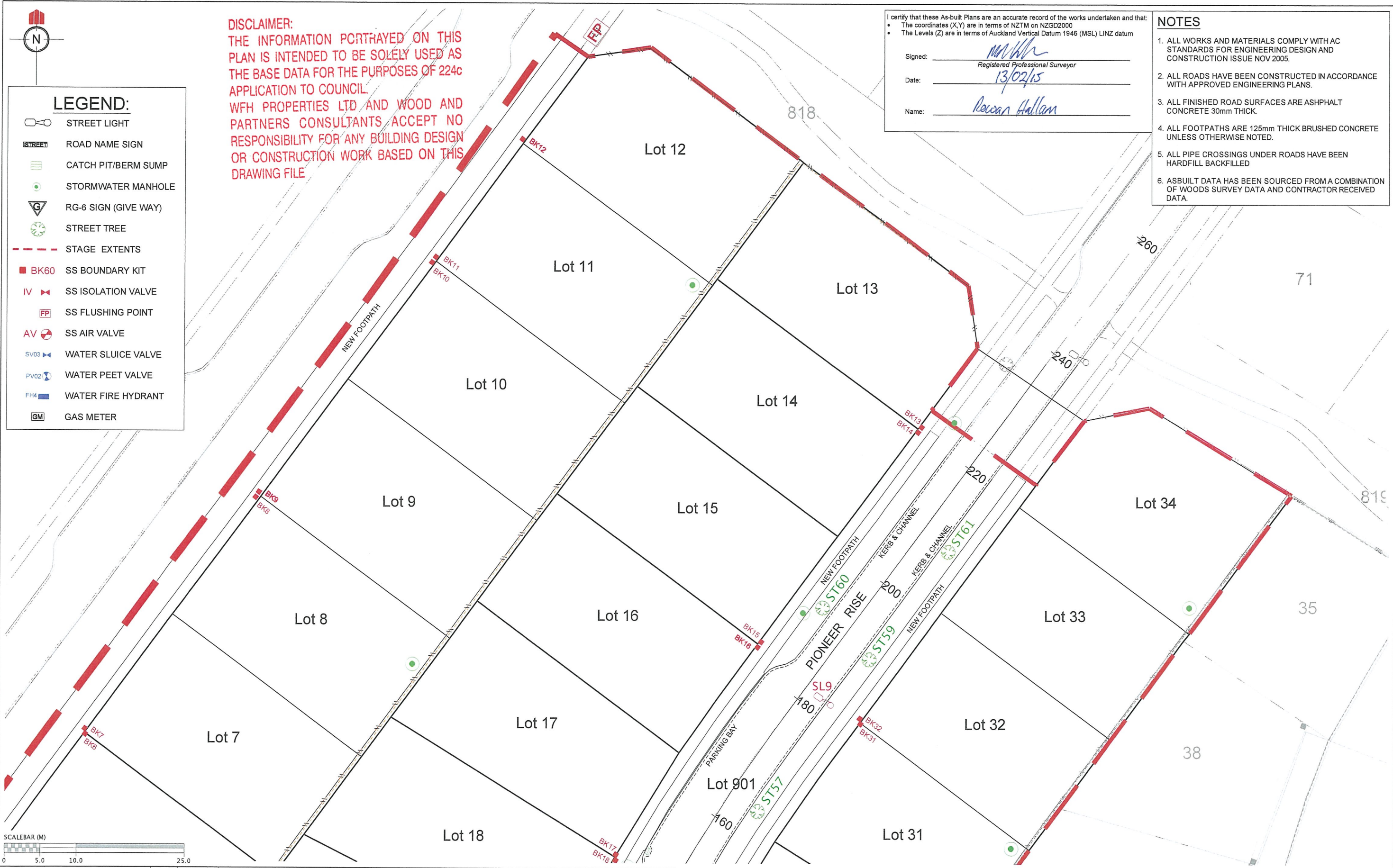
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor
Date: 13/02/15
Name: Ruan Hallam

REVISION DETAILS		NAME	DATE	CLIENT:
1. DRAWING ISSUED		AC	03/02/15	

MILLWATER – PRECINCT 3 – STAGE 2B
ASBUILTROAD LAYOUT
SHEET 2 OF 3
AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-2B	SCALE: 1:500 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-202	REV. 1



REVISION DETAILS		NAME	DATE	CLIENT:
1.	DRAWING ISSUED	AC	03/02/15	



MILLWATER – PRECINCT 3 – STAGE 2B

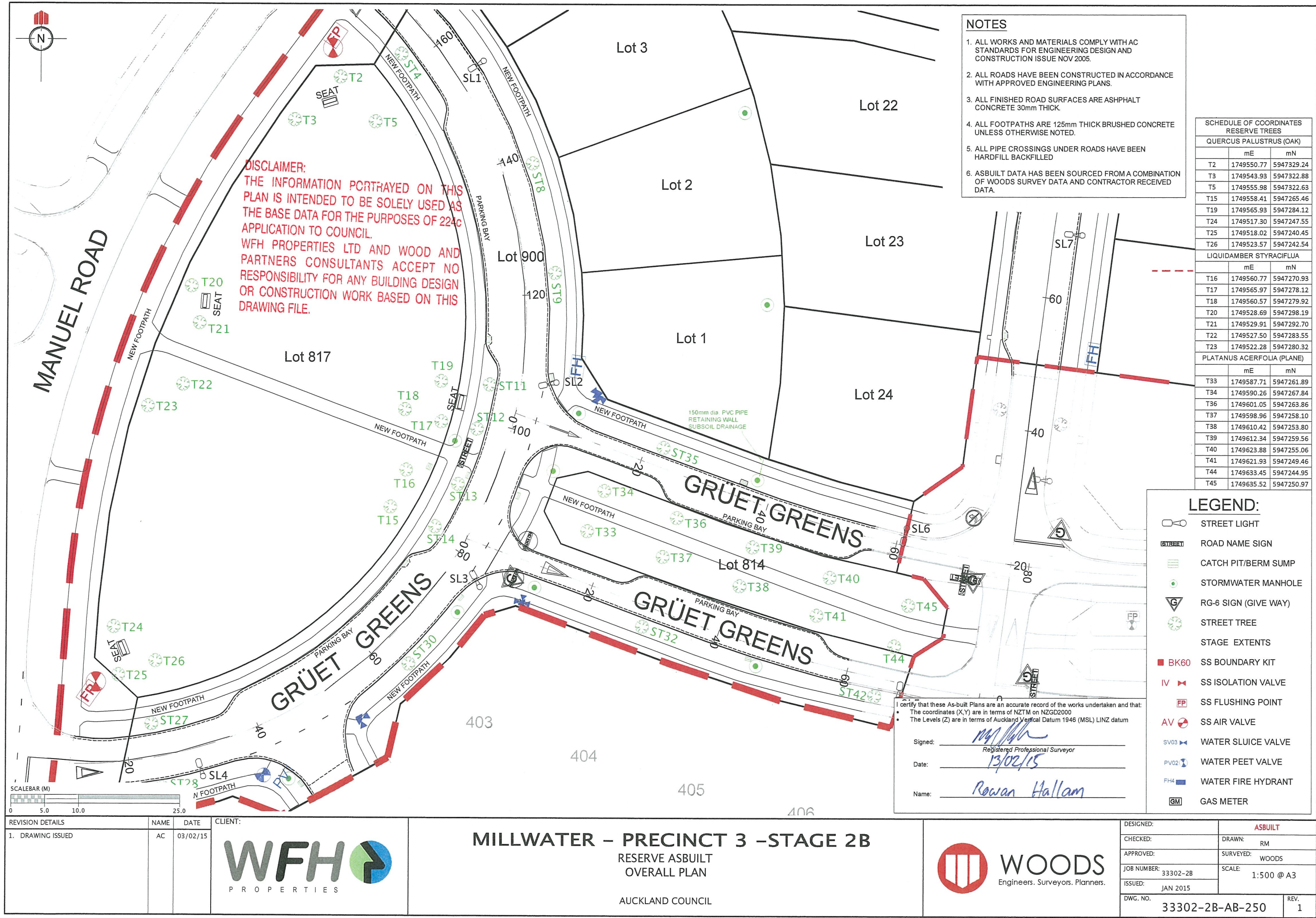
ASBUILT ROAD LAYOUT

SHEET 3 OF 3

AUCKLAND COUNCIL



DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-2B	SCALE: 1:400 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-203	REV. 1



- 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.

SCHEDULE OF COORDINATES		
RESERVE TREES		
QUERCUS PALUSTRIS (OAK)		
	mE	mN
T2	1749550.77	5947329.24
T3	1749543.93	5947322.88
T5	1749555.98	5947322.63
T15	1749558.41	5947265.46
T19	1749565.93	5947284.12
T24	1749517.30	5947247.55
T25	1749518.02	5947240.45
T26	1749523.57	5947242.54
LIQUIDAMBER STYRACIFLUA		
	mE	mN
T16	1749560.77	5947270.93
T17	1749565.97	5947278.12
T18	1749560.57	5947279.92
T20	1749528.69	5947298.19
T21	1749529.91	5947292.70
T22	1749527.50	5947283.55
T23	1749522.28	5947280.32
PLATANUS ACERFOLIA (PLANE)		
	mE	mN
T33	1749587.71	5947261.89
T34	1749590.26	5947267.84
T36	1749601.05	5947263.86
T37	1749598.96	5947258.10
T38	1749610.42	5947253.80
T39	1749612.34	5947259.56
T40	1749623.88	5947255.06
T41	1749621.93	5947249.46
T44	1749633.45	5947244.95
T45	1749635.52	5947250.97

- LEGEND:**
- STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - STREET TREE
 - STAGE EXTENTS
 - BK60 SS BOUNDARY KIT
 - IV SS ISOLATION VALVE
 - FP SS FLUSHING POINT
 - AV SS AIR VALVE
 - SV03 WATER SLUICE VALVE
 - PV02 WATER PEET VALVE
 - FH4 WATER FIRE HYDRANT
 - GM GAS METER

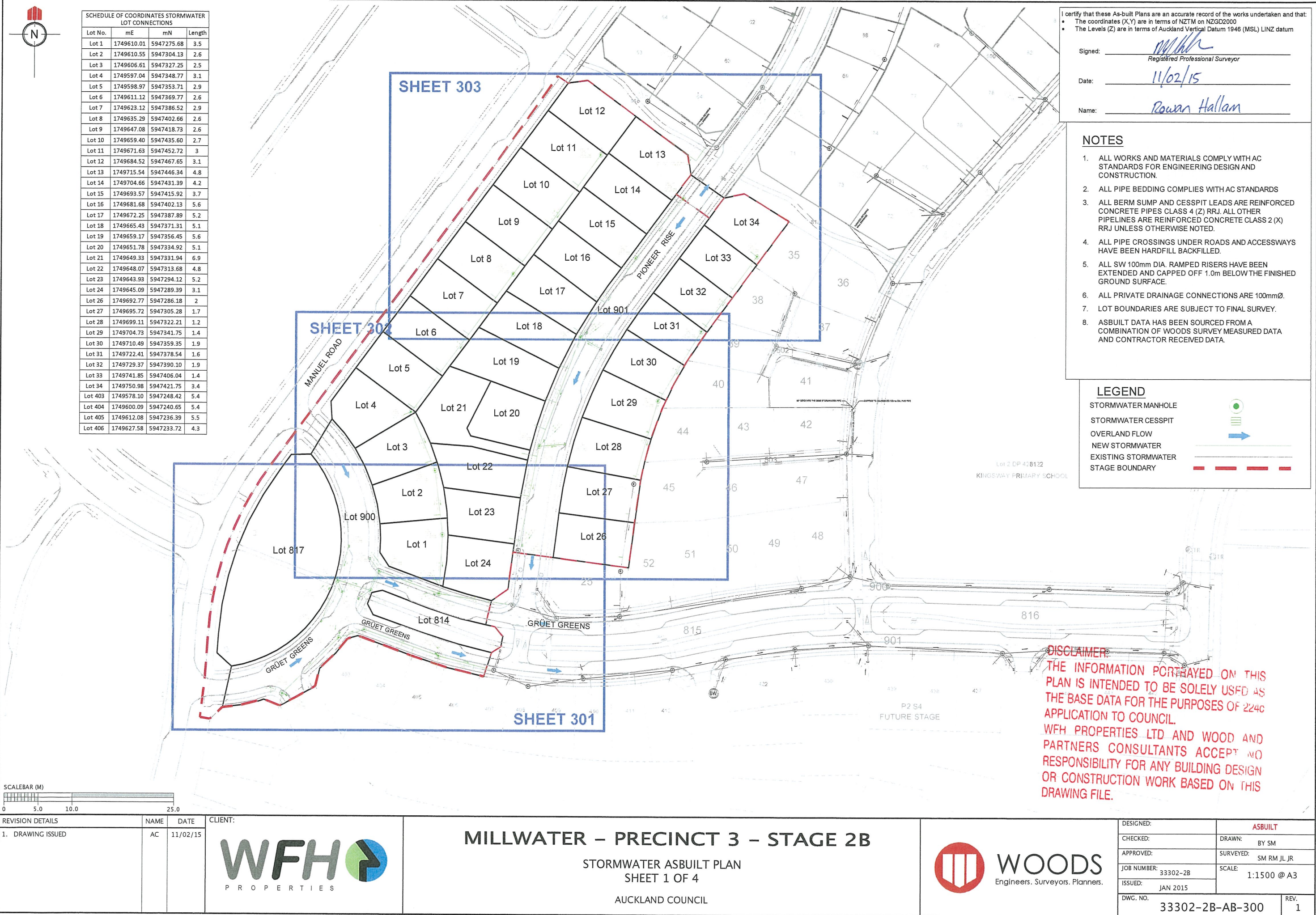
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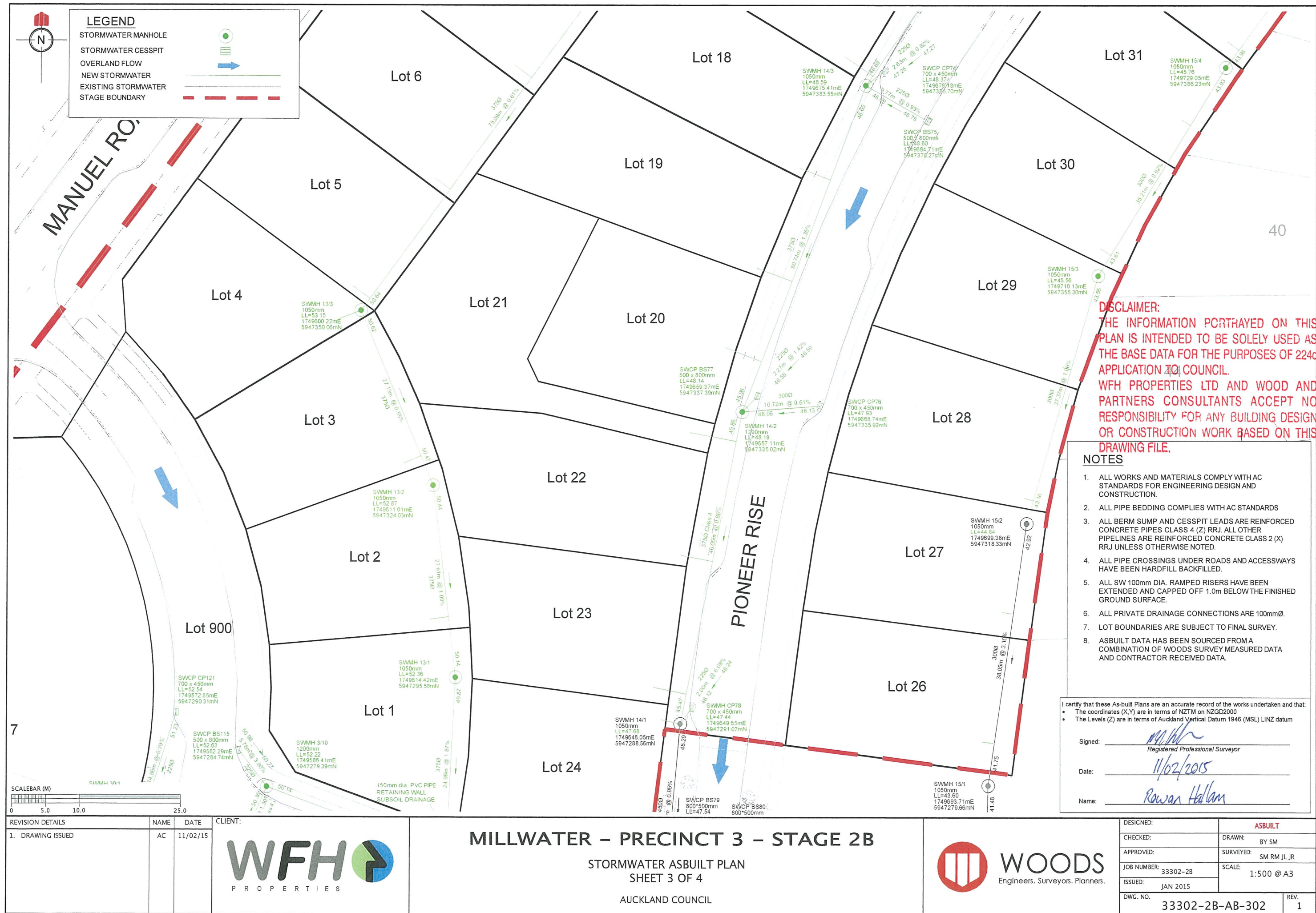
Signed: *Rowan Hallam*
Registered Professional Surveyor
Date: *13/02/15*
Name: *Rowan Hallam*

REVISION DETAILS		NAME	DATE	CLIENT:
1. DRAWING ISSUED		AC	03/02/15	

MILLWATER – PRECINCT 3 –STAGE 2B
RESERVE ASBUILT
OVERALL PLAN
AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: RM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33302-2B	SCALE: 1:500 @ A3
ISSUED: JAN 2015	
DWG. NO. 33302-2B-AB-250	REV. 1







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

Signed: M. Hallam
Registered Professional Surveyor
Date: 11/02/15
Name: Ronan Hallam

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 3. ALL BERM SUMP AND CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 6. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
 7. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

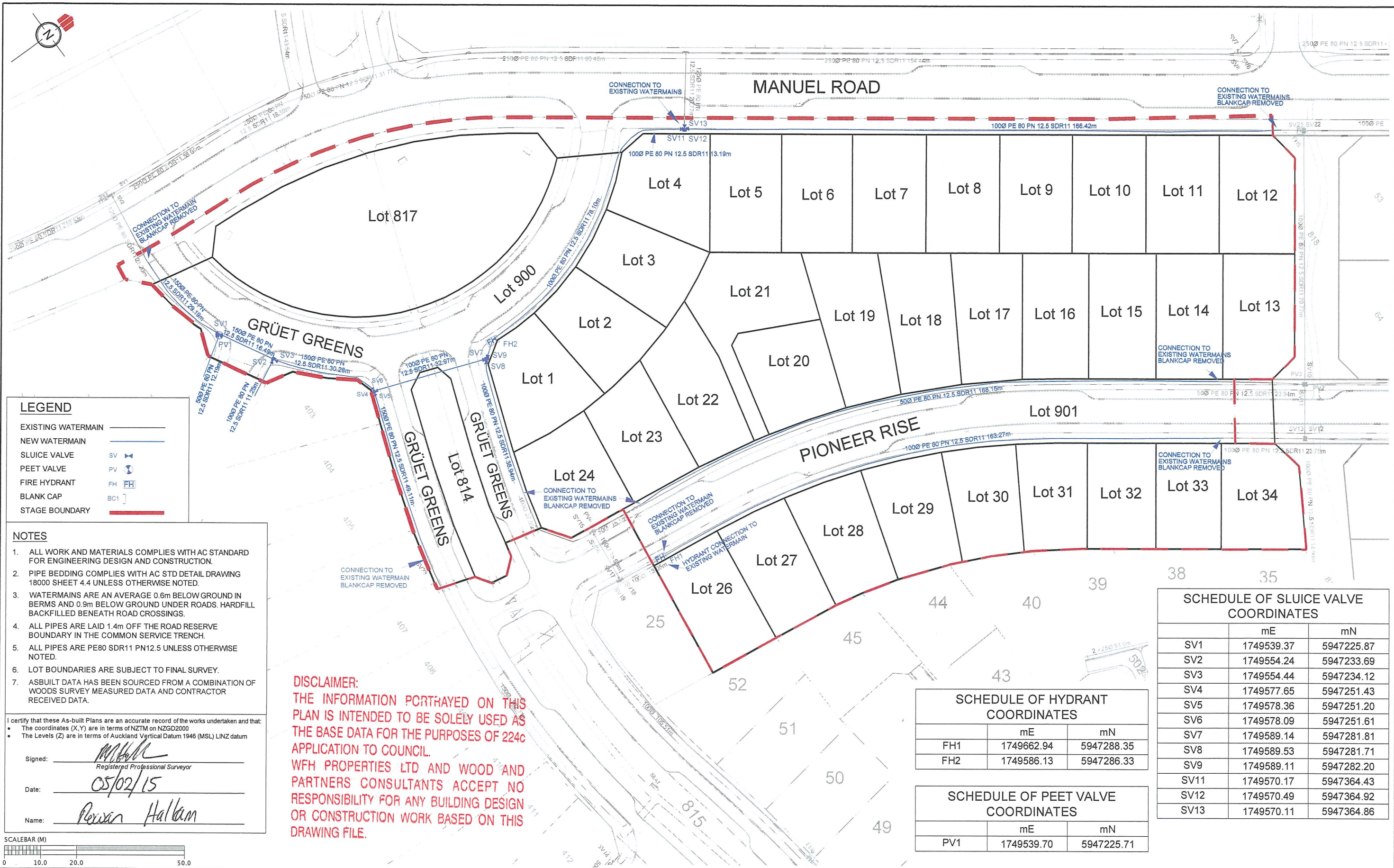
OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

REVISION DETAILS		NAME	DATE	CLIENT:	<div><div>WFH</div><div>PROPERTIES</div></div>	<div>MILLWATER – PRECINCT 3 – STAGE 2B</div> <div>STORMWATER ASBUILT PLAN</div> <div>SHEET 4 OF 4</div> <div>AUCKLAND COUNCIL</div>	<div><div></div><div>WOODS</div><div>Engineers. Surveyors. Planners.</div></div>	DESIGNED:		ASBUILT	
1. DRAWING ISSUED		AC	11/02/15					CHECKED:	DRAWN: BY SM		
								APPROVED:	SURVEYED: SM RM JL JR		
								JOB NUMBER: 33302-2B	SCALE: 1:500 @ A3		
								ISSUED: JAN 2015			
								DWG. NO. 33302-2B-AB-303	REV. 1		



LEGEND

EXISTING WATERMAIN

NEW WATERMAIN

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

STAGE BOUNDARY

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. ALL PIPES ARE PE80 SDR11 PN12.5 UNLESS OTHERWISE NOTED.

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.

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:

05/02/15

Name:

Perran Halkam

SCALEBAR (M)

0 10.0 20.0 50.0

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SCHEDULE OF HYDRANT COORDINATES		
	mE	mN
FH1	1749662.94	5947288.35
FH2	1749586.13	5947286.33

SCHEDULE OF PEET VALVE COORDINATES		
	mE	mN
PV1	1749539.70	5947225.71

SCHEDULE OF SLUICE VALVE COORDINATES		
	mE	mN
SV1	1749539.37	5947225.87
SV2	1749554.24	5947233.69
SV3	1749554.44	5947234.12
SV4	1749577.65	5947251.43
SV5	1749578.36	5947251.20
SV6	1749578.09	5947251.61
SV7	1749589.14	5947281.81
SV8	1749589.53	5947281.71
SV9	1749589.11	5947282.20
SV11	1749570.17	5947364.43
SV12	1749570.49	5947364.92
SV13	1749570.11	5947364.86

REVISION DETAILS

1. DRAWING ISSUED

NAME

AC

DATE

05/02/15

CLIENT:

WFH

PROPERTIES

MILLWATER – PRECINCT 3 STAGE 2B

WATER MAIN OVERALL LAYOUT PLAN

LOW PRESSURE

AUCKLAND COUNCIL

DESIGNED:

CHECKED:

APPROVED:

JOB NUMBER: 33302-2B

ISSUED: JAN 2015

DWG. NO. 33302-2B-AB-600

ASBUILT

DRAWN: RM

SURVEYED: WOODS

SCALE: 1:1000 @ A3

REV.

K:\33302 Millwater Precinct 3 Stage 2\Project Data\Acad Drawings\Survey\As-Built\Stage 2B\33302-2B-ASB-600 P3 Watermain asbuilt.dwg, 5/02/2015 2:02:03 p.m.