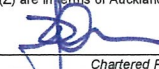




DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS
PLAN IS INTENDED TO BE SOLELY USED AS
THE BASE DATA FOR THE PURPOSES OF 224c
APPLICATION TO COUNCIL.
WFH PROPERTIES LTD AND WOOD AND
PARTNERS CONSULTANTS ACCEPT NO
RESPONSIBILITY FOR ANY BUILDING DESIGN
OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE.

LEGEND
---40--- CONTOURS (0.5m INTERVAL)
--- STAGE 1 EXTENTS

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: 
Chartered Professional Engineer
Date: 9/4/14
Name: TIM JAMES

REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	



MILLWATER
PRECINCT 3 - STAGE 1
ASBUILT FINAL CONTOUR PLAN
AUCKLAND COUNCIL



DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:1500 @ A3
ISSUED: APRIL 2014	
DWG. NO. 33301-01-AB-100	REV. 1





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

NOTES

1. CONTOURS ARE 1.00M INTERVALS

LEGEND

- STAGE 1 EXTENTS
- 0.00 ZERO CONTOUR
- 1.00 CUT CONTOUR
- 1.00 FILL CONTOUR

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

Signed: _____
Chartered Professional Engineer

Date: 9/4/14

Name: TIM JAMES

REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	



MILLWATER PRECINCT 3 - STAGE 1 ORIGINAL SURFACE - EARTHWORKS SURFACE CUT/ FILL CONTOUR PLAN

AUCKLAND COUNCIL



WOODS
Engineers. Surveyors. Planners.

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:1500 @ A3
ISSUED: APRIL 2014	
DWG. NO. 33301-01-AB-121	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.

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

Signed:

Chartered Professional Engineer


Date:

14/3/14

Name:

TIM JAMES.









Luminaire Schedule

Symbol	Description
	CREE LED EDGE Square Series XAL1304D-4CT 40 LED, Type 3 Optics, 4300k, 525ma Driver, Vicpole 7.5m

SCHEDULE OF COORDINATES STREETLIGHTS		
STREET LIGHT	mE	mN
SL 1	1749807.14	5947601.26
SL 2	1749791.95	5947549.79
SL 3	1749771.50	5947499.39
SL 4	1749739.37	5947453.97
SL 5	1749831.89	5947417.87
SL 6	1749865.55	5947456.56
SL 7	1749899.48	5947494.43
SL 8	1749933.09	5947532.91
SL 9	1749956.80	5947582.68
SL 10	1749905.23	5947563.00
SL 11	1749863.18	5947586.82

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014

LEGEND:

-  STREET LIGHT
-  ROAD NAME
-  CATCH PIT/BERM SUMP
-  STORMWATER MANHOLE
-  STAGE 1A EXTENTS
-  BK60 BOUNDARY KIT
-  IV ISOLATION VALVE
-  FP FLUSHING POINT
-  AV AIR VALVE
-  SV03 SLUICE VALVE
-  PV02 PEET VALVE
-  FH4 FIRE HYDRANT

CLIENT:



MILLWATER PRECINCT 3 STAGE 1

ROADING AND STREET LIGHT ASBUILT PLAN

OVERALL AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:1500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-200	REV. 1

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



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WFH PROPERTIES LTD AND WOOD AND
PARTNERS CONSULTANTS ACCEPT NO
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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	SM	11/03/2014

LEGEND:

	STREET LIGHT
	ROAD NAME
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	STAGE 1A EXTENTS
	BOUNDARY KIT
	ISOLATION VALVE
	FLUSHING POINT
	AIR VALVE
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

CLIENT:



MILLWATER PRECINCT 3 STAGE 1

ROADING AND STREET LIGHT
ASBUILT PLAN

SHEET 1 OF 5
AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-201	REV. 1

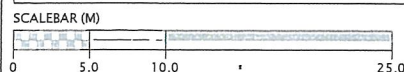
I certify that these As-built Plans are an accurate record of the works undertaken and that:

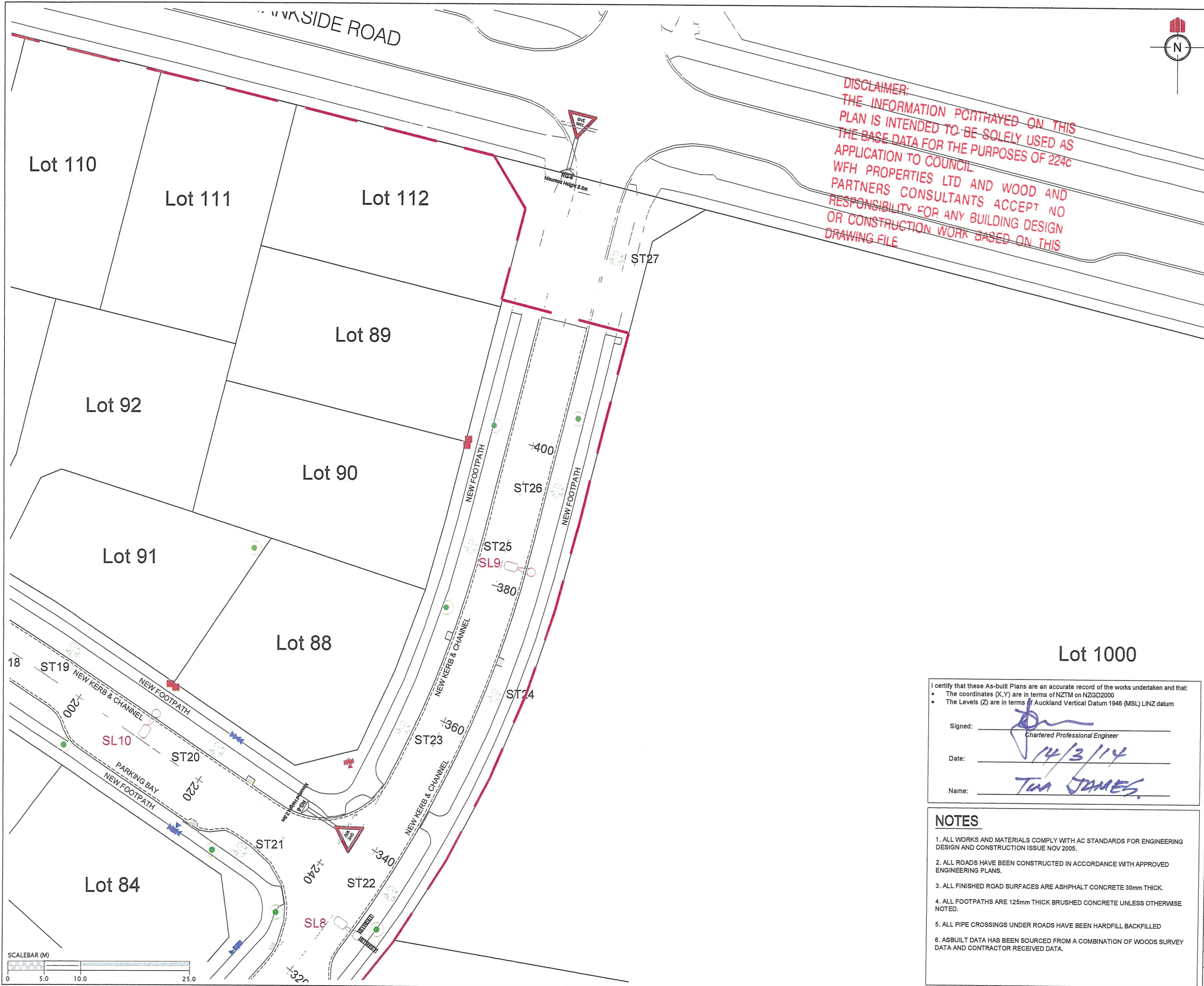
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Chartered Professional Engineer
Date: 14/3/14
Name: TIM JAMES

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.





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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	SM	11/03/2014

LEGEND:

- STREET LIGHT
- ROAD NAME
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- STAGE 1A EXTENTS
- BOUNDARY KIT
- ISOLATION VALVE
- FLUSHING POINT
- AIR VALVE
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT

CLIENT:

MILLWATER
PRECINCT 3
STAGE 1

ROADING AND STREET LIGHT
ASBUILT PLAN

SHEET 2 OF 5

AUCKLAND COUNCIL

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

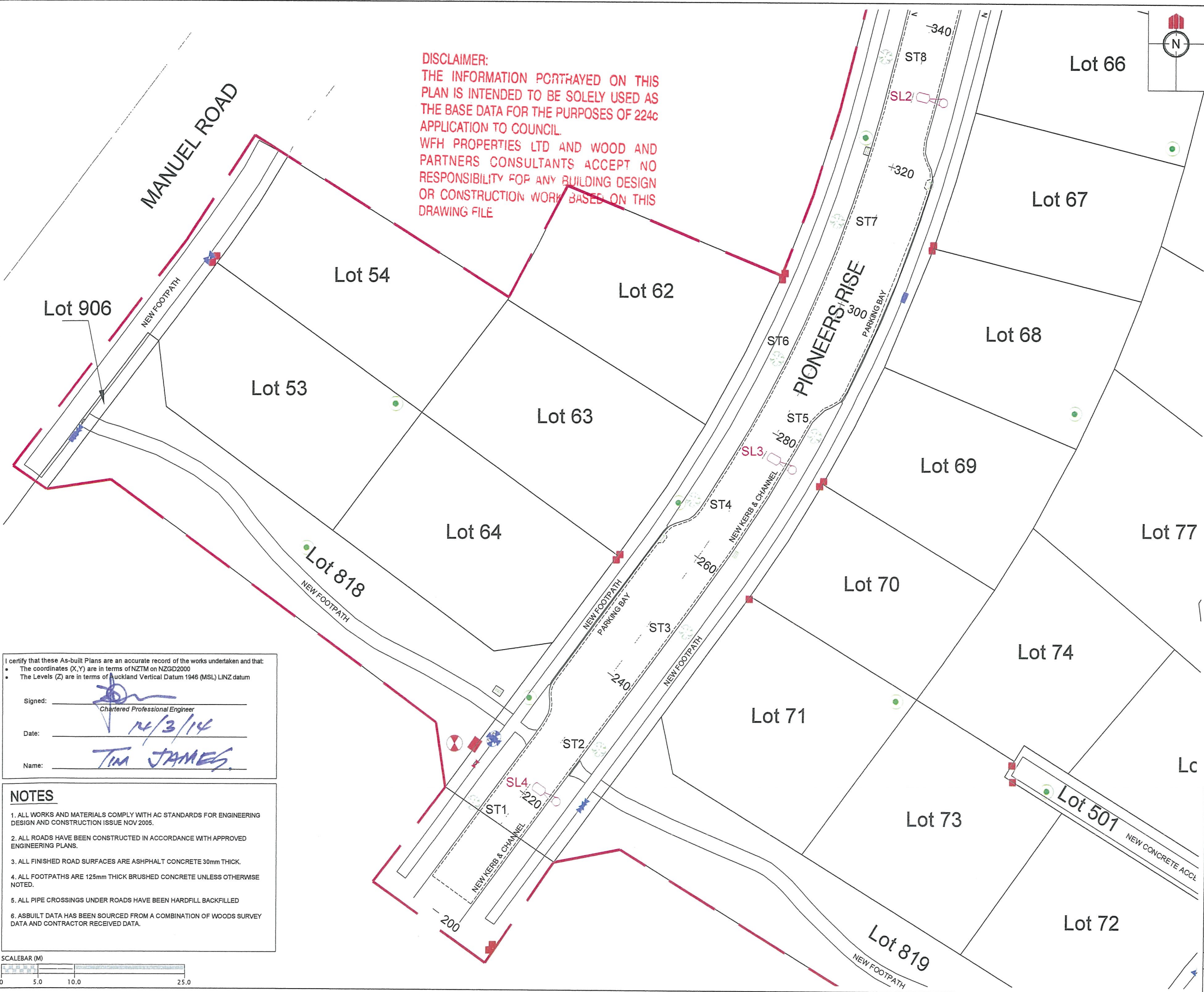
Signed: Chartered Professional Engineer

Date: 14/3/14

Name: TUA JAMES

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
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DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-202	REV. 1



DISCLAIMER:
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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
1. DRAWING ISSUED		SM	11/03/2014

LEGEND:

- STREET LIGHT
- ROAD NAME
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- STAGE 1A EXTENTS
- BK60 BOUNDARY KIT
- IV ISOLATION VALVE
- FP FLUSHING POINT
- AV AIR VALVE
- SV03 SLUICE VALVE
- PV02 PEET VALVE
- FH4 FIRE HYDRANT

CLIENT:

WFH
PROPERTIES

WOODS
Engineers, Surveyors, Planners.

**MILLWATER
PRECINCT 3
STAGE 1**

**ROADING AND STREET LIGHT
ASBUILT PLAN**

SHEET 3 OF 5

AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-203	REV. 1

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

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- The Levels (Z) are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: Chartered Professional Engineer

Date: 14/3/14

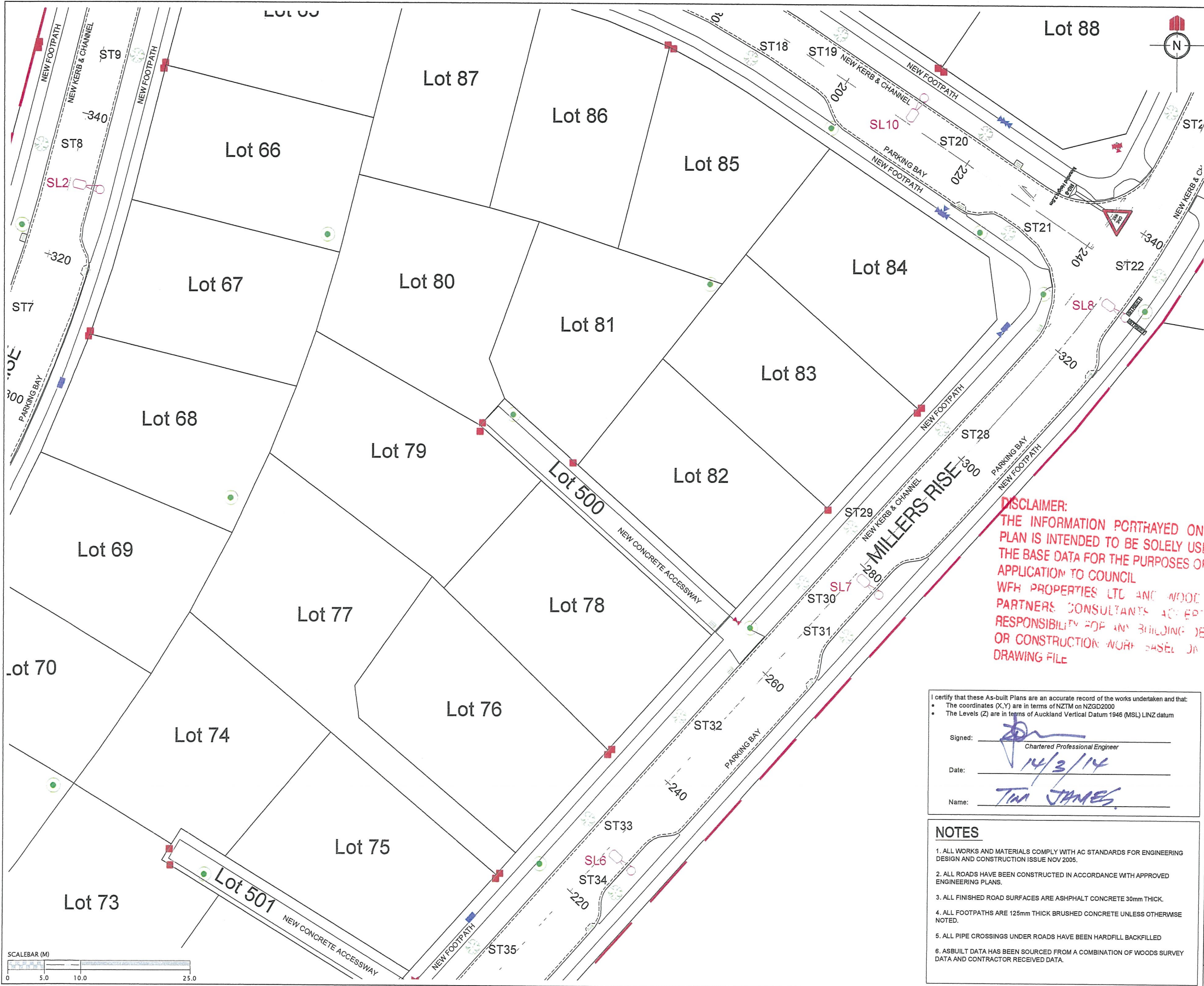
Name: TIM JAMES

NOTES

- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
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SCALEBAR (M)

0 5.0 10.0 25.0



REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014

LEGEND:

- STREET LIGHT
- ROAD NAME
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- STAGE 1A EXTENTS
- BK60 BOUNDARY KIT
- IV ISOLATION VALVE
- FP FLUSHING POINT
- AV AIR VALVE
- SV03 SLUICE VALVE
- PV02 PEET VALVE
- FH4 FIRE HYDRANT

CLIENT:

MILLWATER PRECINCT 3 STAGE 1

ROADING AND STREET LIGHT ASBUILT PLAN

SHEET 4 OF 5

AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-204	REV. 1

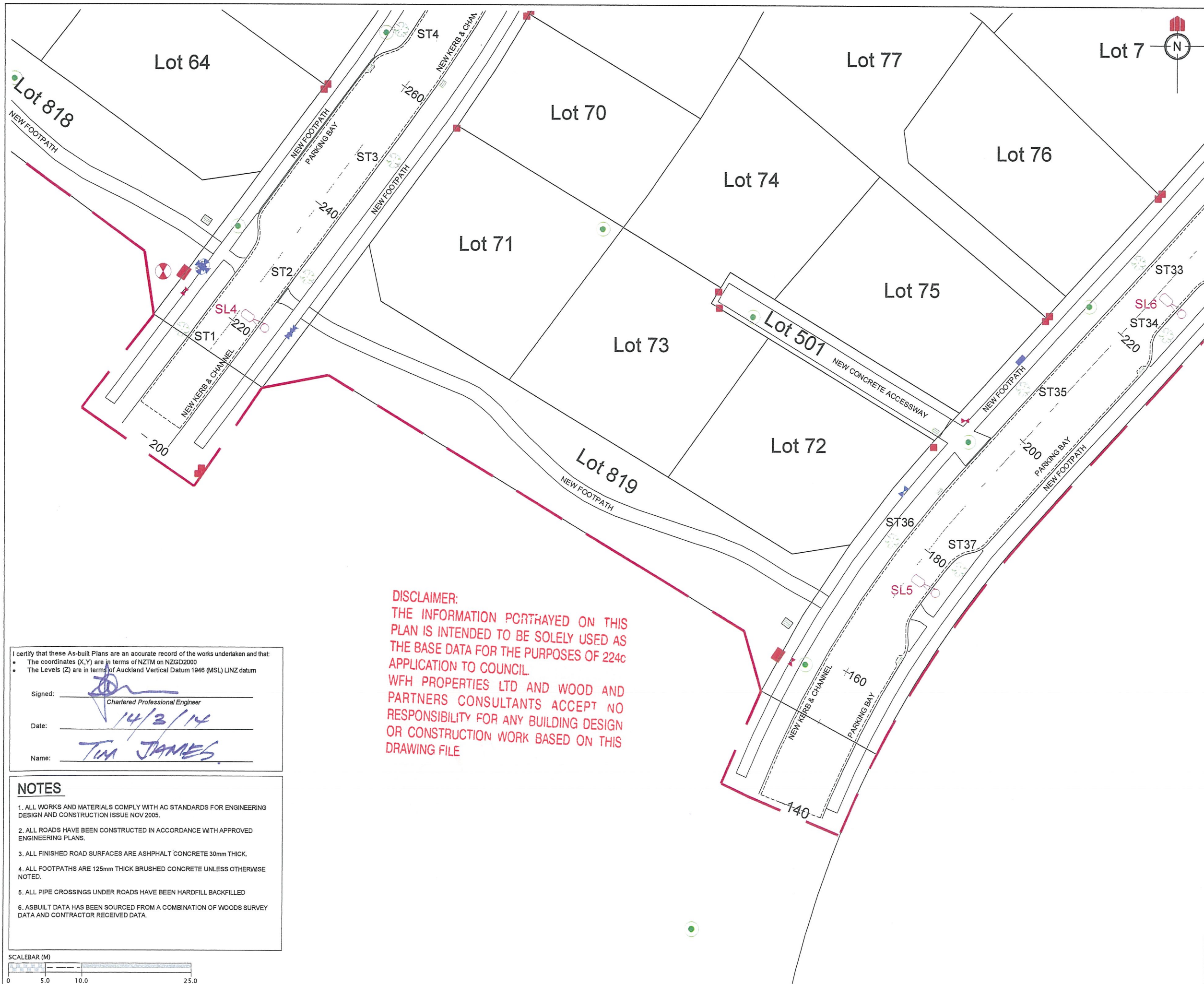
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WFH PROPERTIES LTD AND WOODS AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

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

Signed: Chartered Professional Engineer
Date: 14/3/14
Name: TIM JAMES

- NOTES**
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REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014

LEGEND:

- STREET LIGHT
- ROAD NAME
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- STAGE 1A EXTENTS
- BK60 BOUNDARY KIT
- IV ISOLATION VALVE
- FP FLUSHING POINT
- AV AIR VALVE
- SV03 SLUICE VALVE
- PV02 PEET VALVE
- FH4 FIRE HYDRANT

CLIENT:

WFH
PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 3
STAGE 1**

**ROADING AND STREET LIGHT
ASBUILT PLAN**

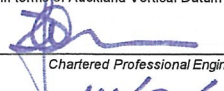
SHEET 5 OF 5

AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-205	REV. 1

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

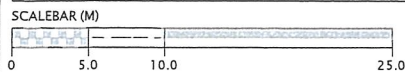
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: 
Chartered Professional Engineer

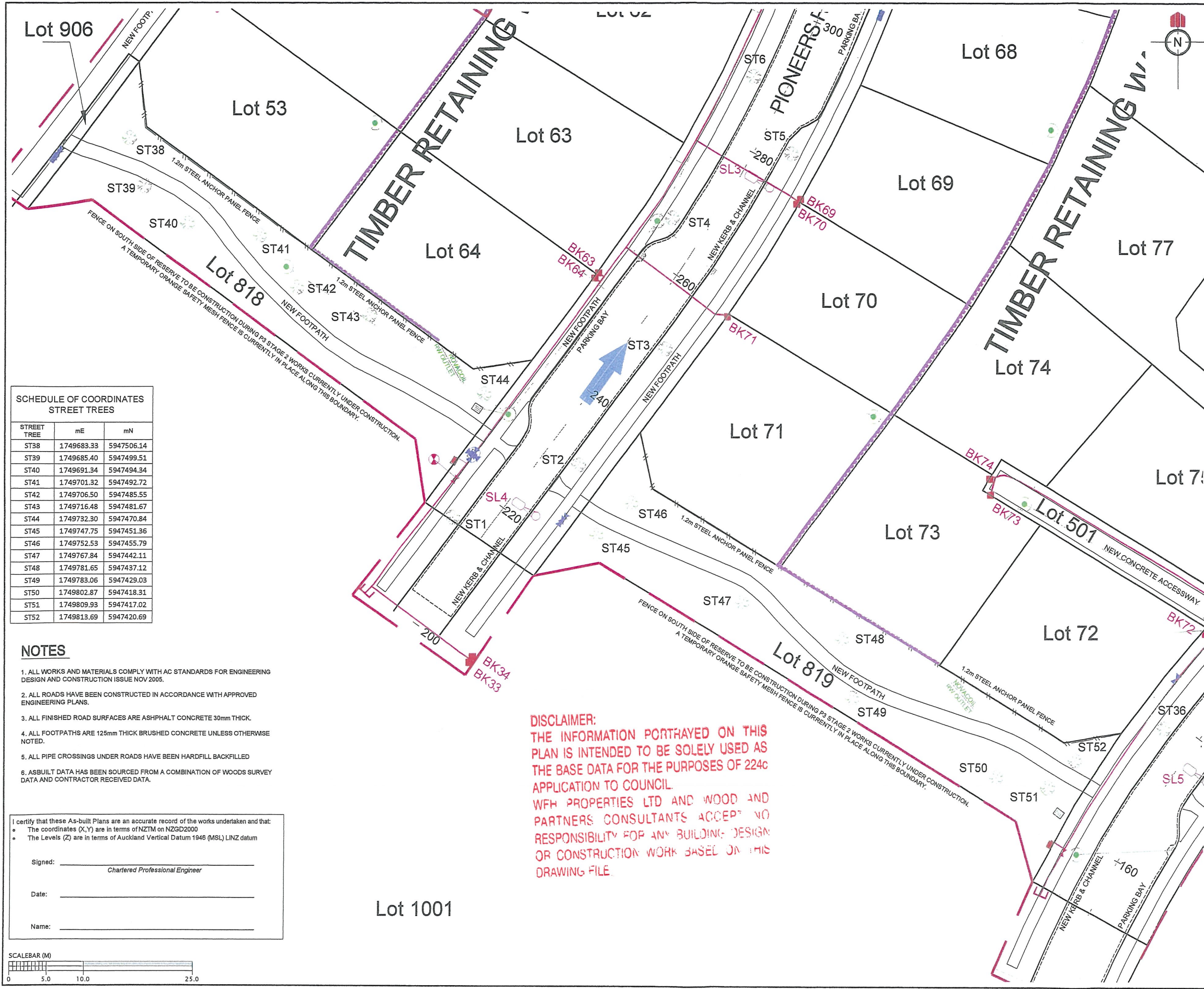
Date: 14/3/14

Name: TIM JAMES

- NOTES**
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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE



SCHEDULE OF COORDINATES STREET TREES		
STREET TREE	mE	mN
ST38	1749683.33	5947506.14
ST39	1749685.40	5947499.51
ST40	1749691.34	5947494.34
ST41	1749701.32	5947492.72
ST42	1749706.50	5947485.55
ST43	1749716.48	5947481.67
ST44	1749732.30	5947470.84
ST45	1749747.75	5947451.36
ST46	1749752.53	5947455.79
ST47	1749767.84	5947442.11
ST48	1749781.65	5947437.12
ST49	1749783.06	5947429.03
ST50	1749802.87	5947418.31
ST51	1749809.93	5947417.02
ST52	1749813.69	5947420.69

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
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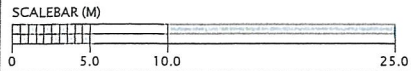
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: _____
Chartered Professional Engineer

Date: _____

Name: _____



DISCLAIMER:
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PLAN IS INTENDED TO BE SOLELY USED AS
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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
1.	DRAWING ISSUED	AH	20/03/2014

LEGEND:

- STREET LIGHT
- ROAD NAME
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- STAGE 1A EXTENTS
- BOUNDARY KIT
- ISOLATION VALVE
- FLUSHING POINT
- AIR VALVE
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- TREE

CLIENT:

WFH
PROPERTIES

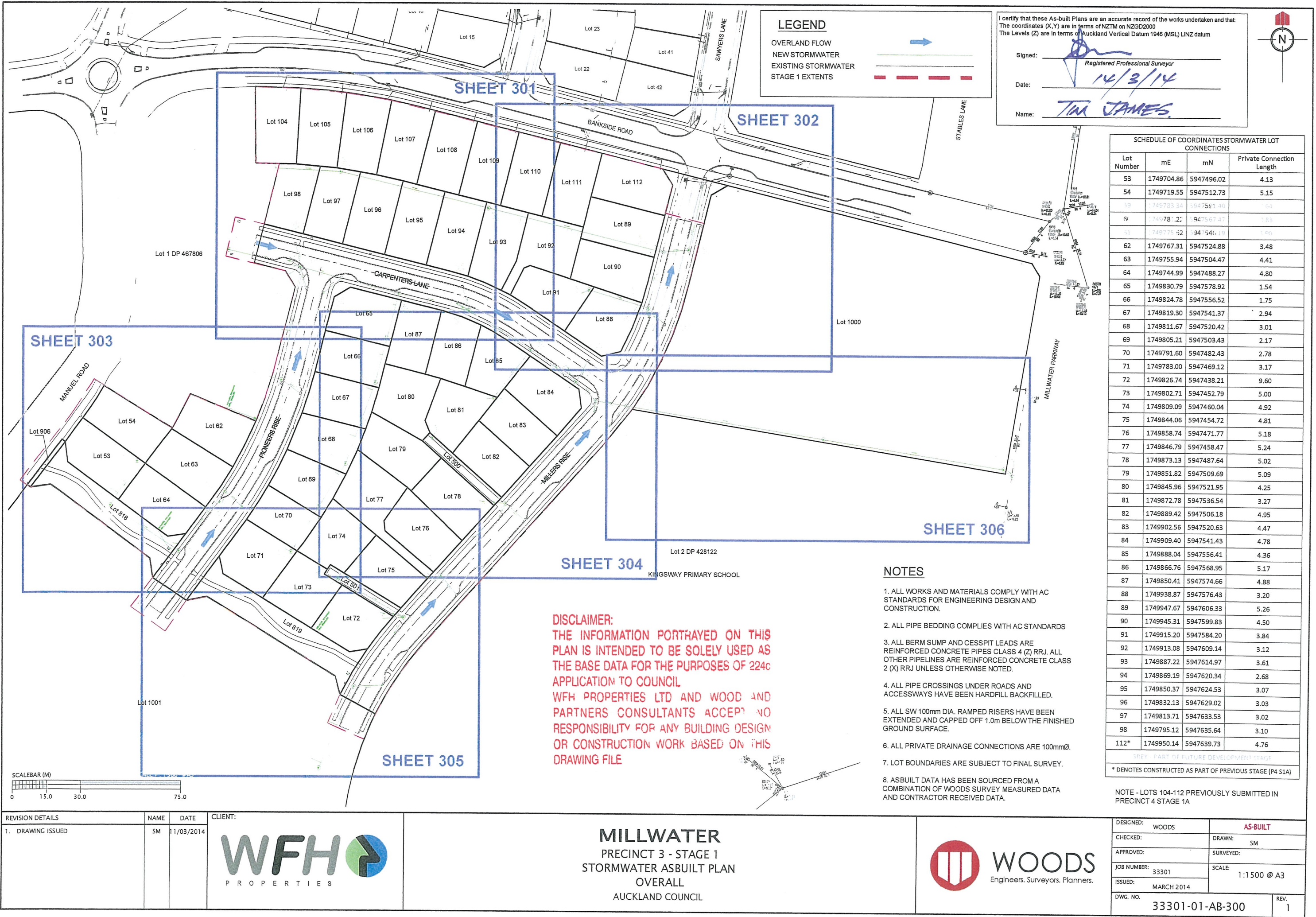
WOODS
Engineers. Surveyors. Planners.

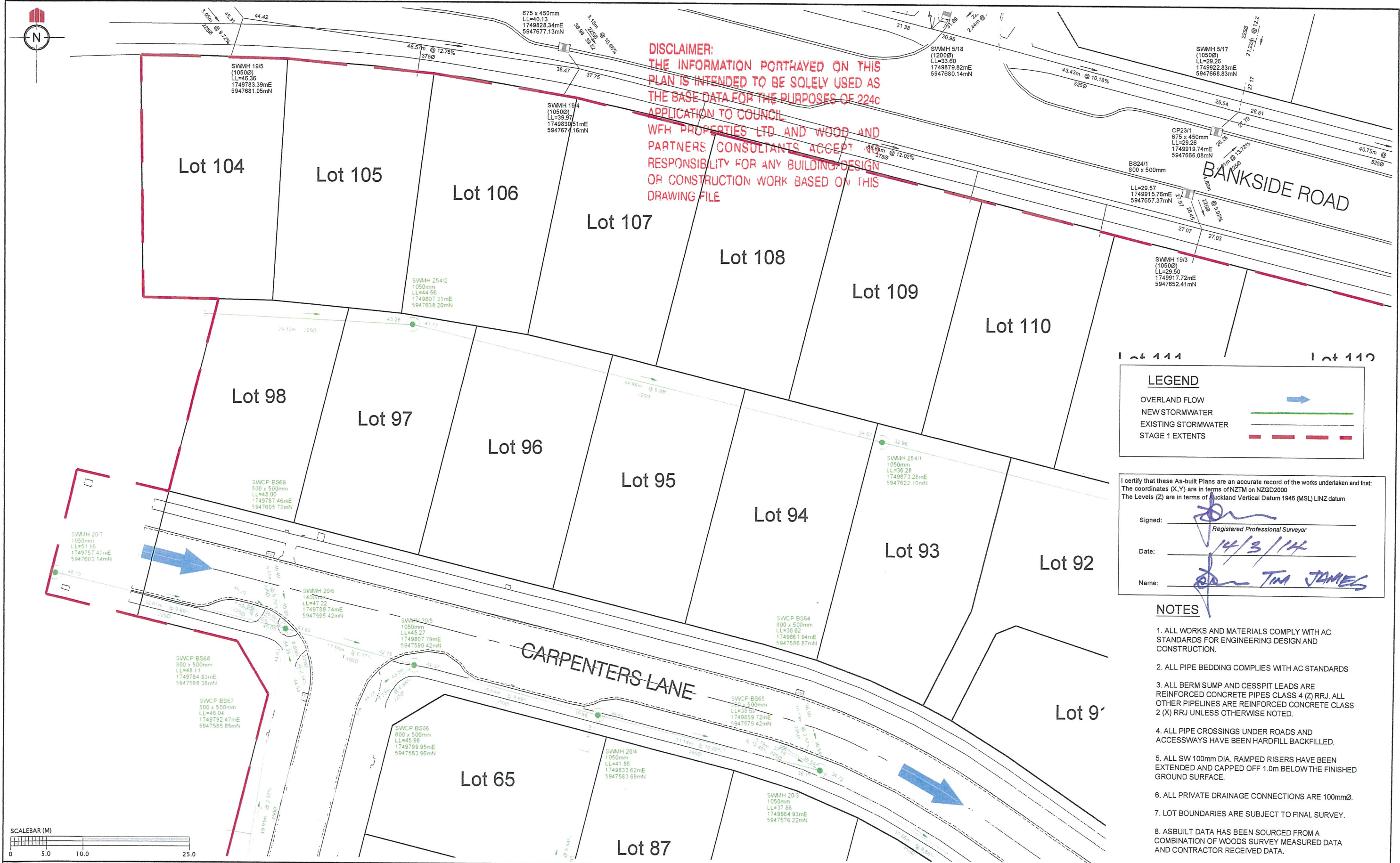
**MILLWATER
PRECINCT 3
STAGE 1**

RESERVE ASBUILT PLAN

AUCKLAND COUNCIL

DESIGNED:	ASBUILT
CHECKED:	DRAWN: AH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-250	REV. 1





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

LEGEND

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE 1 EXTENTS

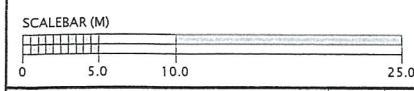
I certify that these As-built Plans are an accurate record of the works undertaken and that:
The coordinates (X,Y) are in terms of NZTM on NZGD2000
The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

Date: 14/3/14

Name: TIM JAMES

- 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.



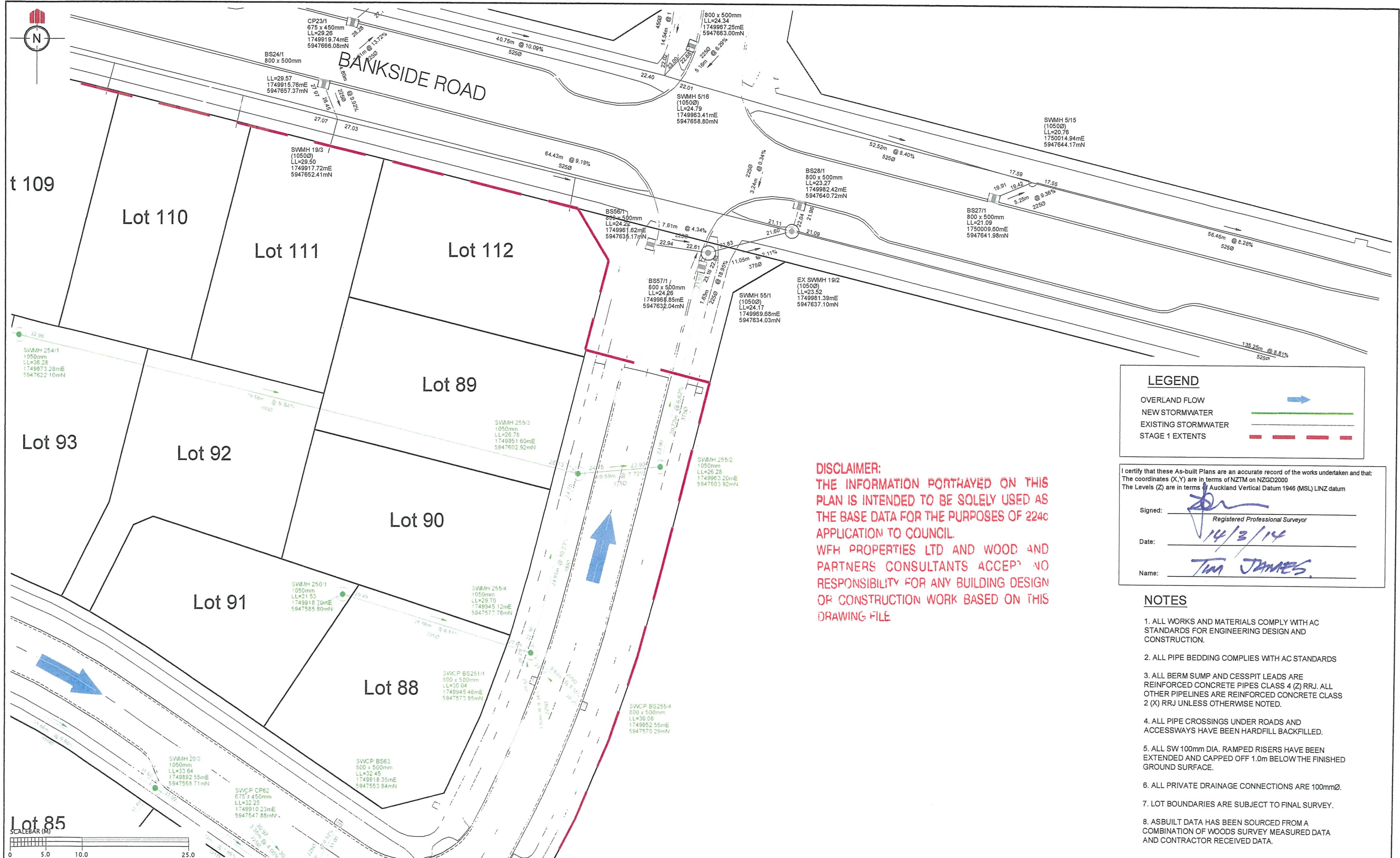
REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014



MILLWATER
PRECINCT 3 - STAGE 1
STORMWATER ASBUILT PLAN
SHEET 1 OF 6
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-301	REV. 1



LEGEND

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE 1 EXTENTS

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: 14/3/14

Name: Tim James

NOTES

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

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014

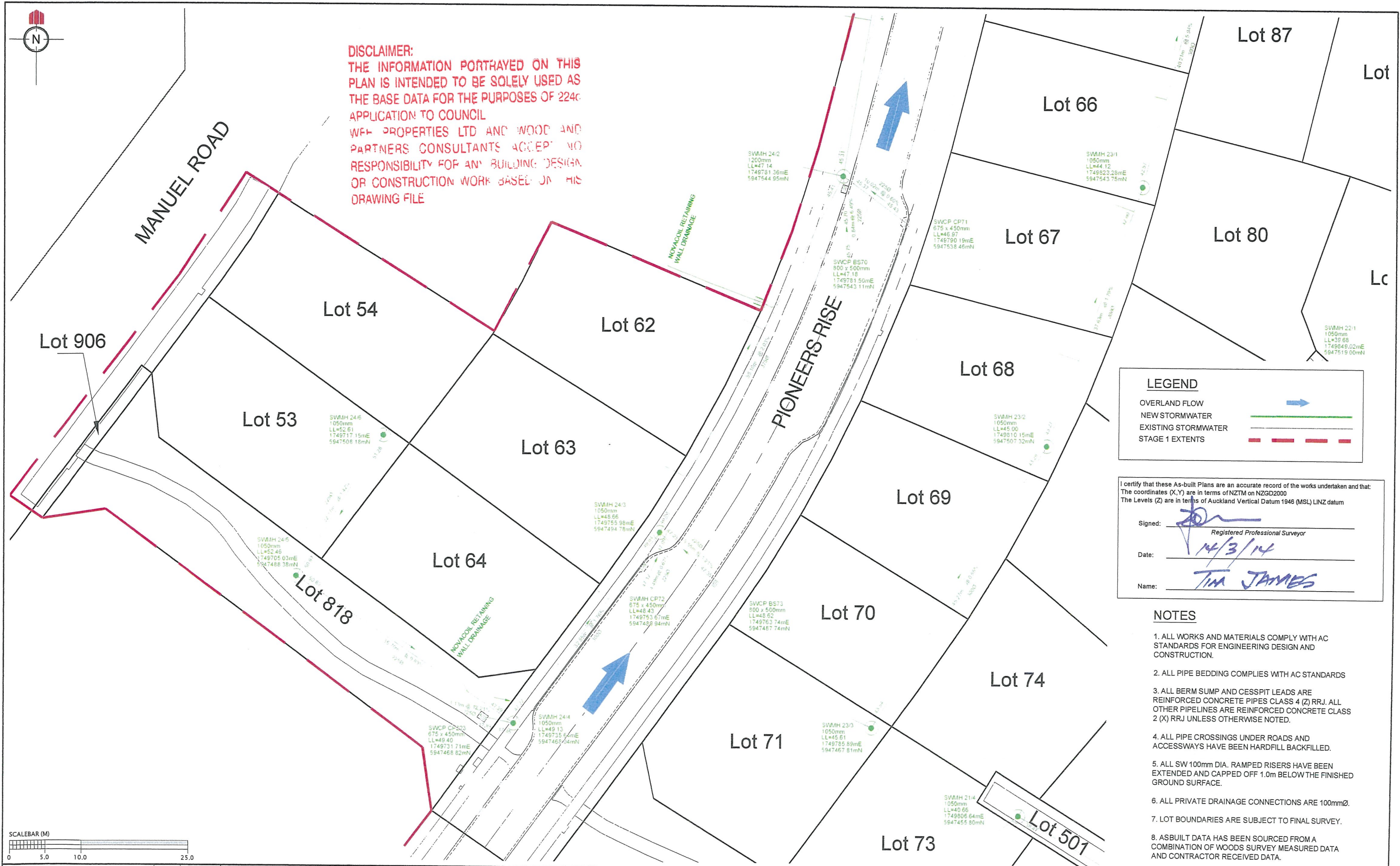
CLIENT:

WFH
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
STORMWATER ASBUILT PLAN
SHEET 2 OF 6
AUCKLAND COUNCIL

WOODS
Engineers. Surveyors. Planners.

DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-302	REV. 1



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APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND
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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE

LEGEND

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE 1 EXTENTS

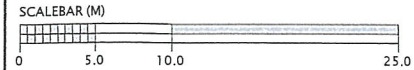
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Signed: Registered Professional Surveyor

Date: 14/3/14

Name: TIM JAMES

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MILLWATER
PRECINCT 3 - STAGE 1
STORMWATER ASBUILT PLAN
SHEET 3 OF 6
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-303	REV. 1



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LEGEND

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE 1 EXTENTS

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Registered Professional Surveyor

Date:

14/3/14

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1. DRAWING ISSUED	SM	11/03/2014

CLIENT:

WFH

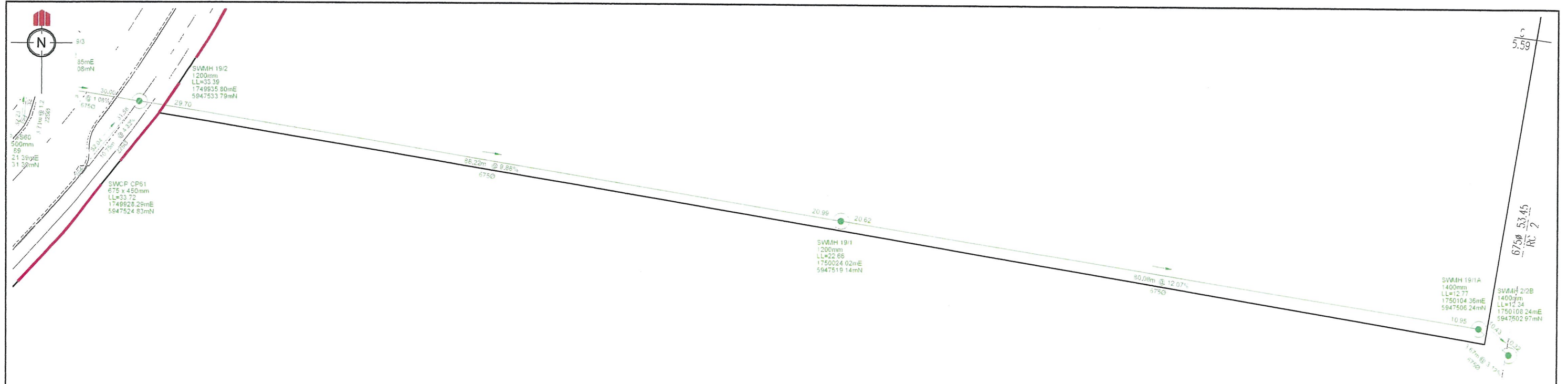
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
STORMWATER ASBUILT PLAN
SHEET 5 OF 6
AUCKLAND COUNCIL

WOODS

Engineers. Surveyors. Planners.

DESIGNED:	WOODS	AS-BUILT
CHECKED:		DRAWN: SM
APPROVED:		SURVEYED:
JOB NUMBER:	33301	SCALE: 1:500 @ A3
ISSUED:	MARCH 2014	
DWG. NO.	33301-01-AB-305	REV. 1



LEGEND

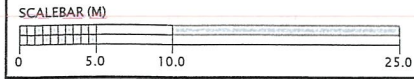
OVERLAND FLOW
NEW STORMWATER
EXISTING STORMWATER
STAGE 1 EXTENTS

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WFH PROPERTIES LTD AND MILLWATER PARTNERS CONSULTANTS LTD ACCEPT RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS OF CONSTRUCTION WORK BASED ON THIS DRAWING FILE



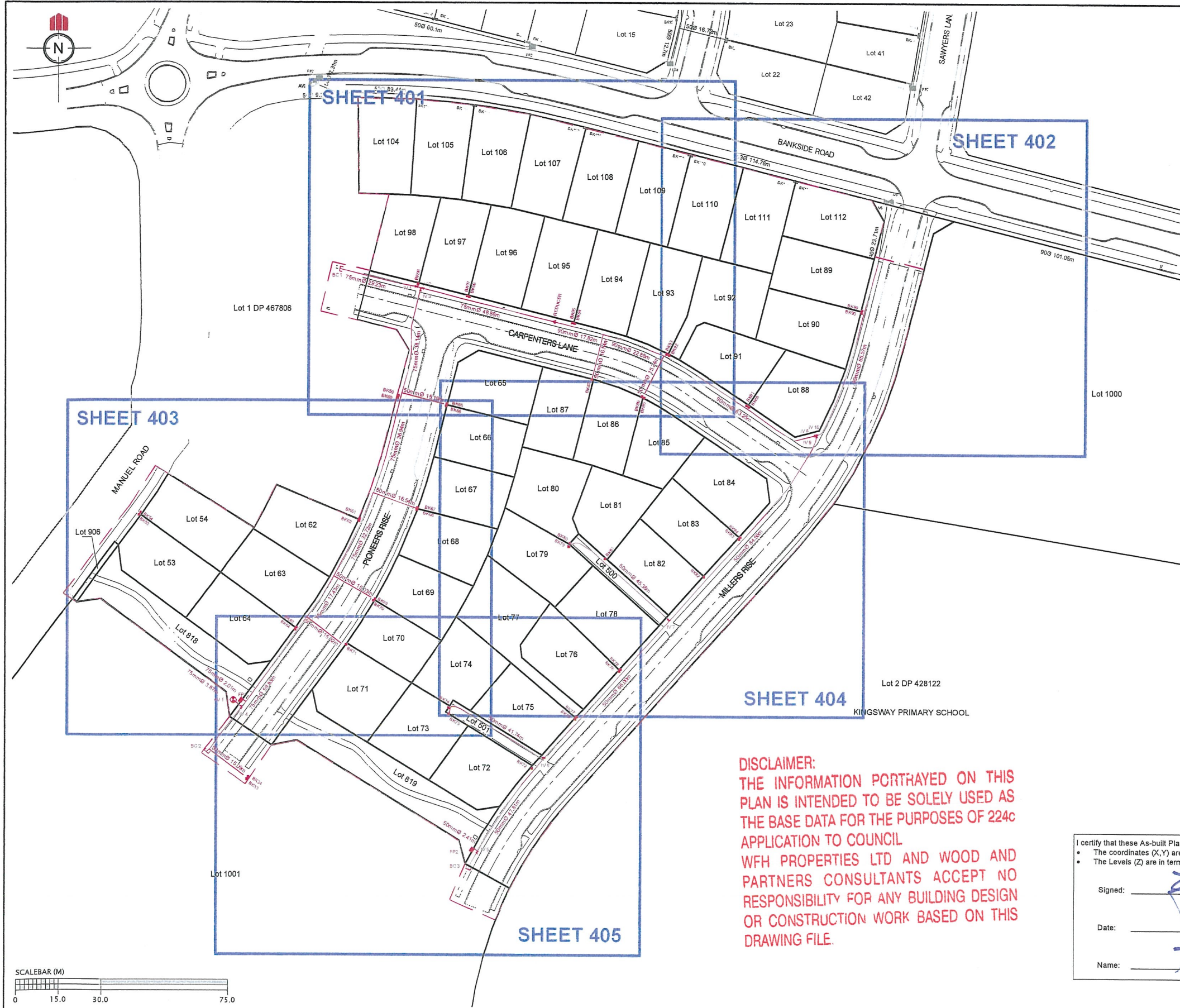
REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	SM	11/03/2014



MILLWATER
PRECINCT 3 - STAGE 1
STORMWATER ASBUILT PLAN
SHEET 6 OF 6
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-306	REV. 1



NOTES

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6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETERS.
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LEGEND

BOUNDARY KIT	BK60
ISOLATION VALVE	IV
FLUSHING POINT	FP
AIR VALVE	AV
BLANK CAP	C
LOW PRESSURE SEWER	
EXISTING LOW PRESSURE SEWER	


NOTE - LOTS 104-112 PREVIOUSLY SUBMITTED IN PRECINCT 4 STAGE 1A

SCHEDULE OF COORDINATES		
FLUSH PIT		
	mE	mN
FP1	1749728.17	5947461.61
FP2	1749810.23	5947409.27
ISOLATION VALVE		
	mE	mN
IV1	1749789.84	5947608.89
IV2	1749792.15	5947608.25
IV3	1749791.52	5947607.82
IV4	1749728.30	5947458.99
IV5	1749812.12	5947408.35
IV6	1749835.87	5947441.67
IV7	1749879.94	5947490.71
IV8	1749931.67	5947556.55
IV9	1749931.94	5947556.26
IV10	1749931.99	5947556.63
AIR VALVE		
	mE	mN
AV 1	1749725.36	5947461.77
BLANK CAP		
	mE	mN
BC 1	1749763.79	5947614.11
BC 2	1749717.28	5947443.40
BC 3	1749810.16	5947402.96

BOUNDARY KIT BOX		
	mE	mN
BK33	1749730.30	5947433.83
BK34	1749730.76	5947434.58
BK59	1749783.61	5947570.19
BK60	1749783.46	5947569.34
BK61	1749770.38	5947526.35
BK62	1749770.02	5947525.51
BK63	1749747.97	5947487.64
BK64	1749747.44	5947486.92
BK65	1749800.88	5947567.33
BK66	1749800.64	5947566.53
BK67	1749790.73	5947530.28
BK68	1749790.51	5947529.60
BK69	1749775.85	5947497.78
BK70	1749775.29	5947497.11
BK71	1749765.72	5947481.61
BK72	1749831.59	5947437.96
BK73	1749801.98	5947456.99
BK74	1749801.88	5947459.22
BK75	1749846.87	5947455.41
BK76	1749862.24	5947472.36
BK77	1749847.41	5947456.10
BK78	1749862.77	5947473.04
BK79	1749844.46	5947516.65
BK80	1749844.77	5947517.84
BK81	1749857.27	5947512.37
BK82	1749892.41	5947506.05
BK83	1749904.63	5947519.57
BK84	1749905.20	5947520.25
BK85	1749870.80	5947569.54
BK86	1749870.01	5947570.04
BK87	1749852.24	5947576.10
BK88	1749907.95	5947566.59
BK89	1749948.08	5947600.96
BK90	1749947.86	5947600.13
BK91	1749907.18	5947567.10
BK92	1749879.61	5947584.91
BK93	1749878.76	5947585.27
BK94	1749846.11	5947596.01
BK95	1749845.25	5947596.27
BK96	1749808.65	5947605.42
BK97	1749807.85	5947605.67
BK98	1749790.53	5947609.91
DENOTES BUILT FOR FUTURE STAGE		

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Signed: 
Registered Professional Surveyor

Date: 14/3/14

Name: TIM JAMES

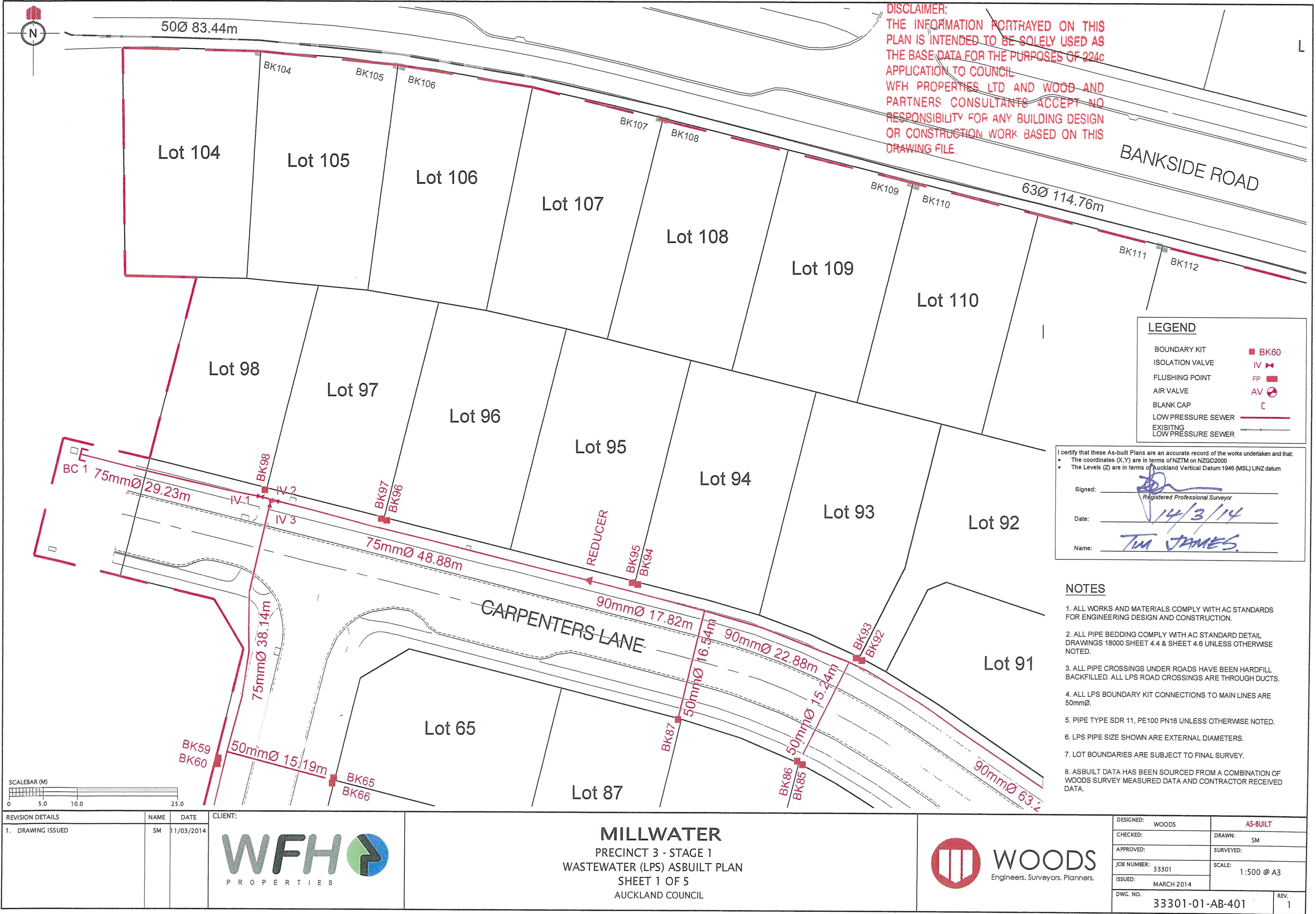
REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	

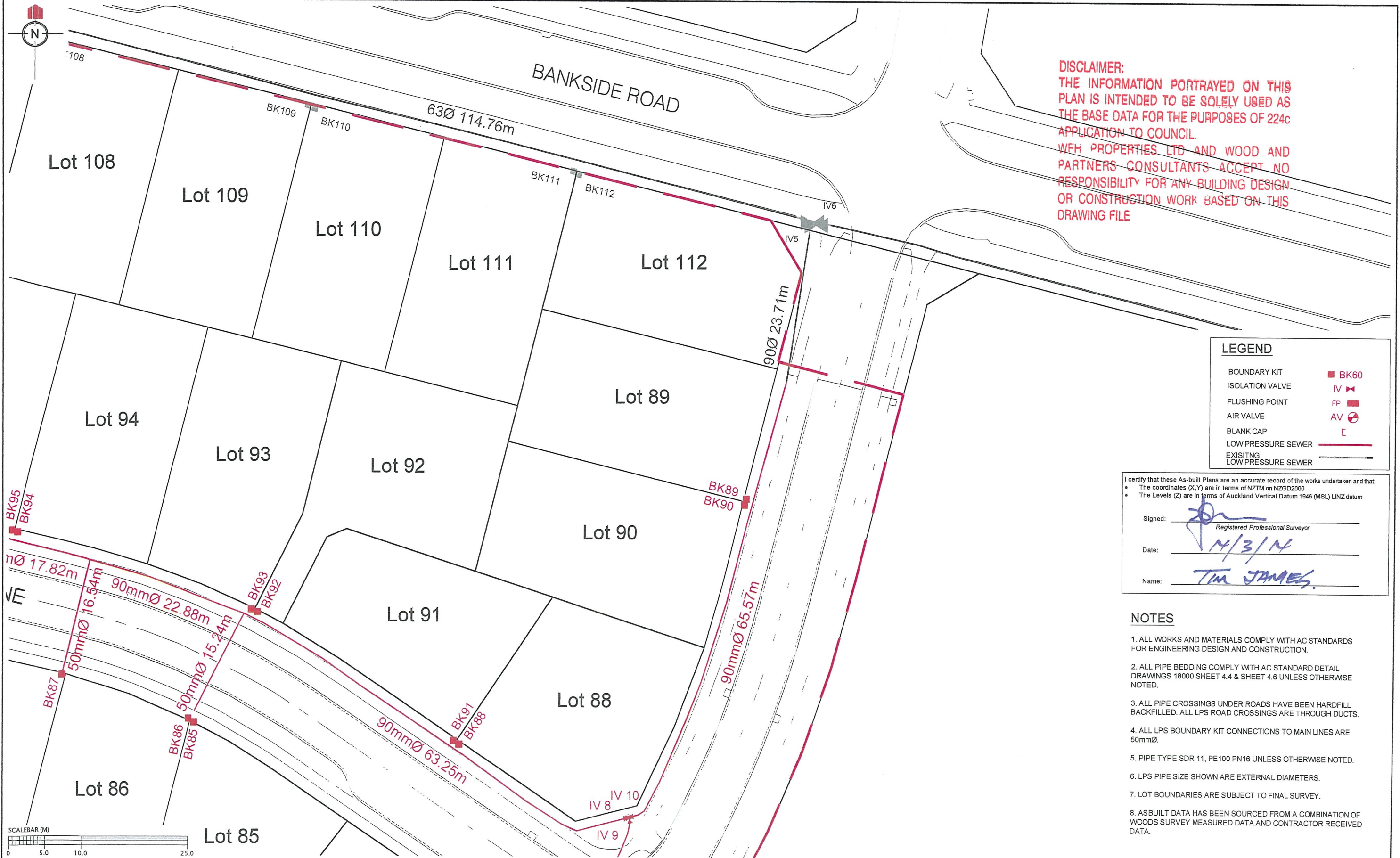


MILLWATER
PRECINCT 3 - STAGE 1
WASTEWATER (LPS) ASBUILT PLAN
OVERALL
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:1500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-400	REV. 1



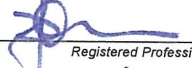


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DRAWING FILE

LEGEND	
BOUNDARY KIT	BK60
ISOLATION VALVE	IV
FLUSHING POINT	FP
AIR VALVE	AV
BLANK CAP	C
LOW PRESSURE SEWER	
EXISTING LOW PRESSURE SEWER	

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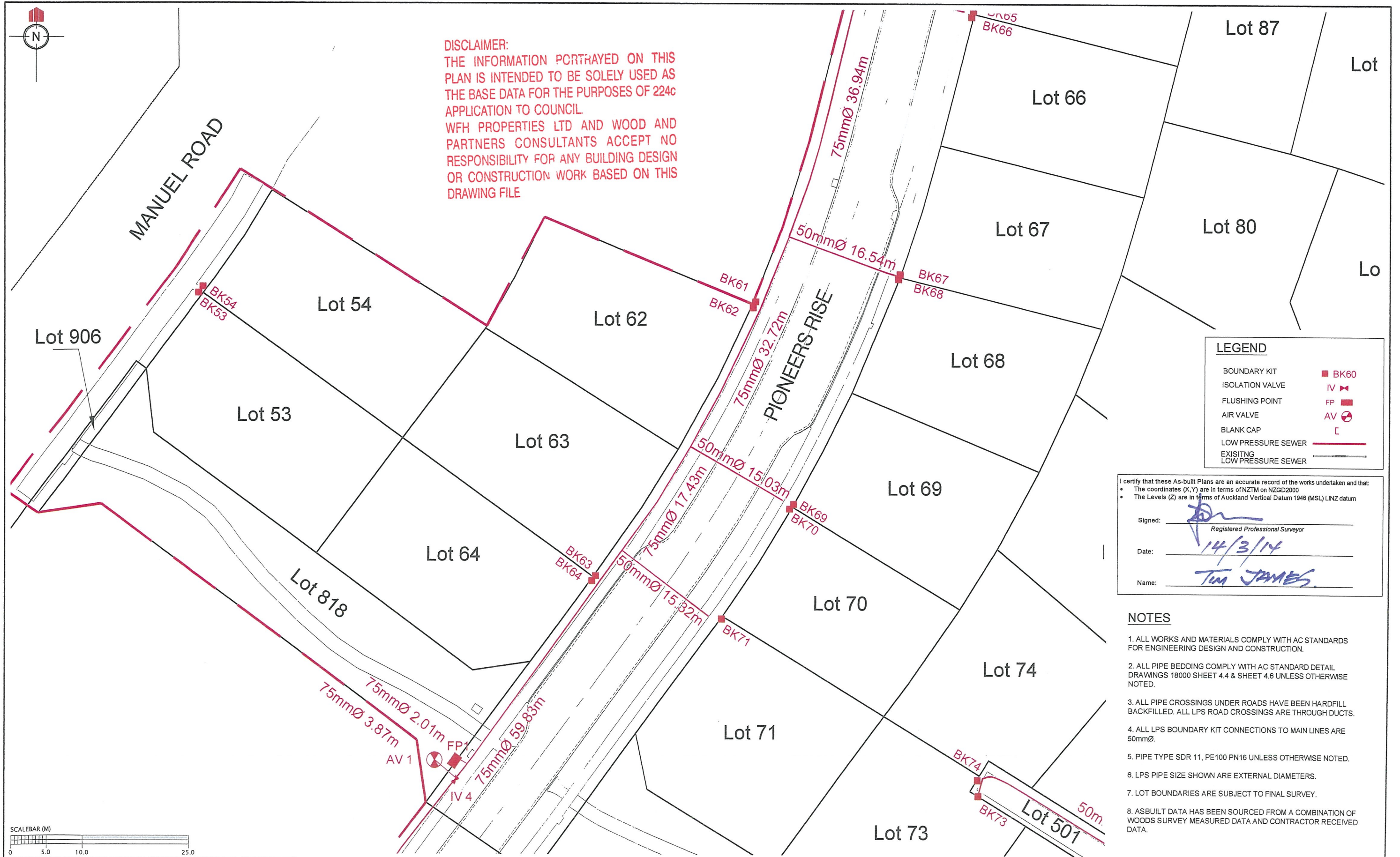
WFH
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
WASTEWATER (LPS) ASBUILT PLAN
SHEET 2 OF 5
AUCKLAND COUNCIL



WOODS
Engineers. Surveyors. Planners.

DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-402	REV. 1




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LEGEND

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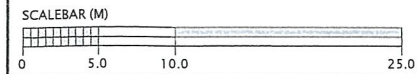
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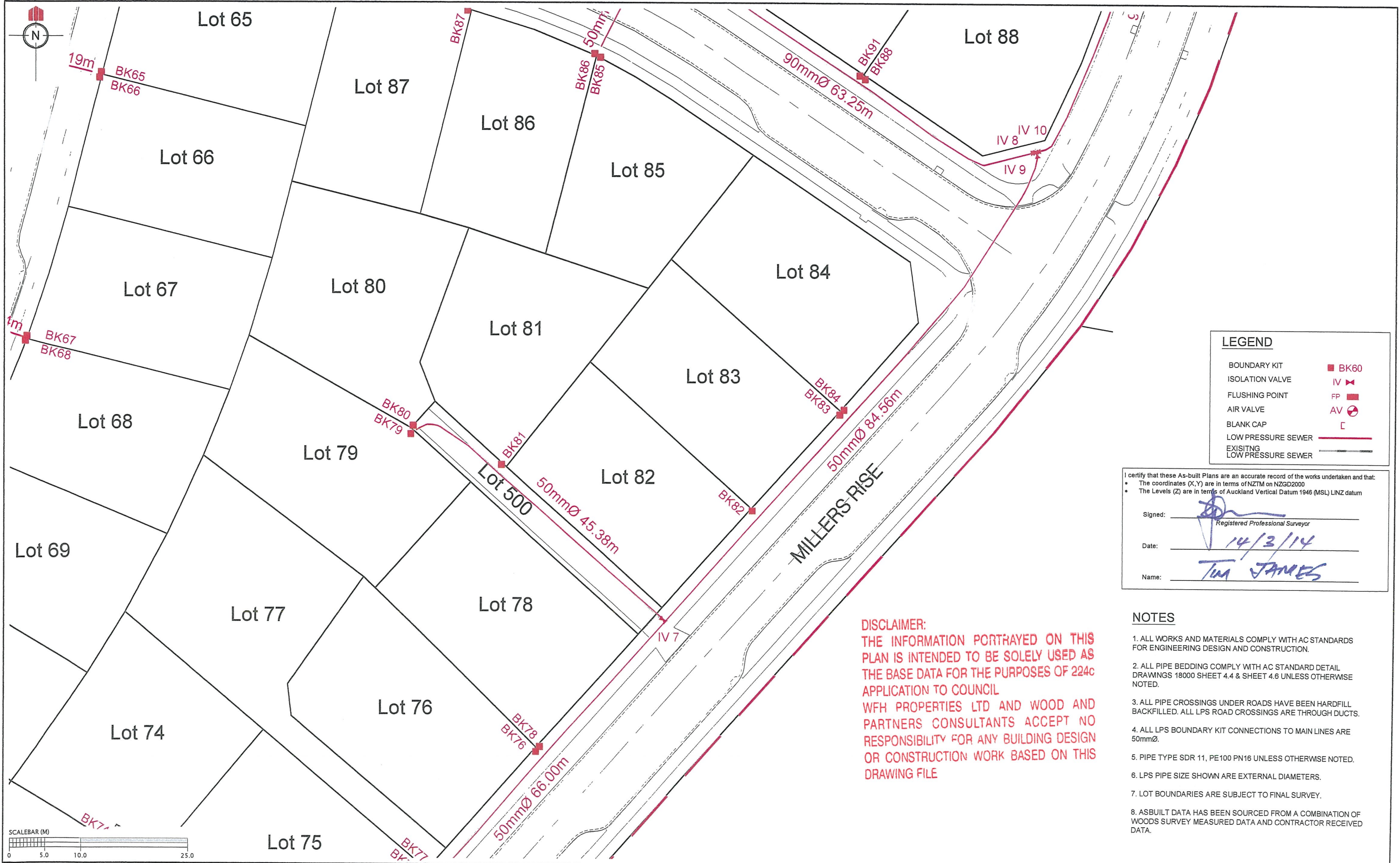
CLIENT:

WFH
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
WASTEWATER (LPS) ASBUILT PLAN
SHEET 3 OF 5
AUCKLAND COUNCIL

 **WOODS**
Engineers. Surveyors. Planners.


DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-403	REV. 1



LEGEND	
BOUNDARY KIT	■ BK60
ISOLATION VALVE	IV
FLUSHING POINT	FP
AIR VALVE	AV
BLANK CAP	C
LOW PRESSURE SEWER	—
EXISTING LOW PRESSURE SEWER	- - -

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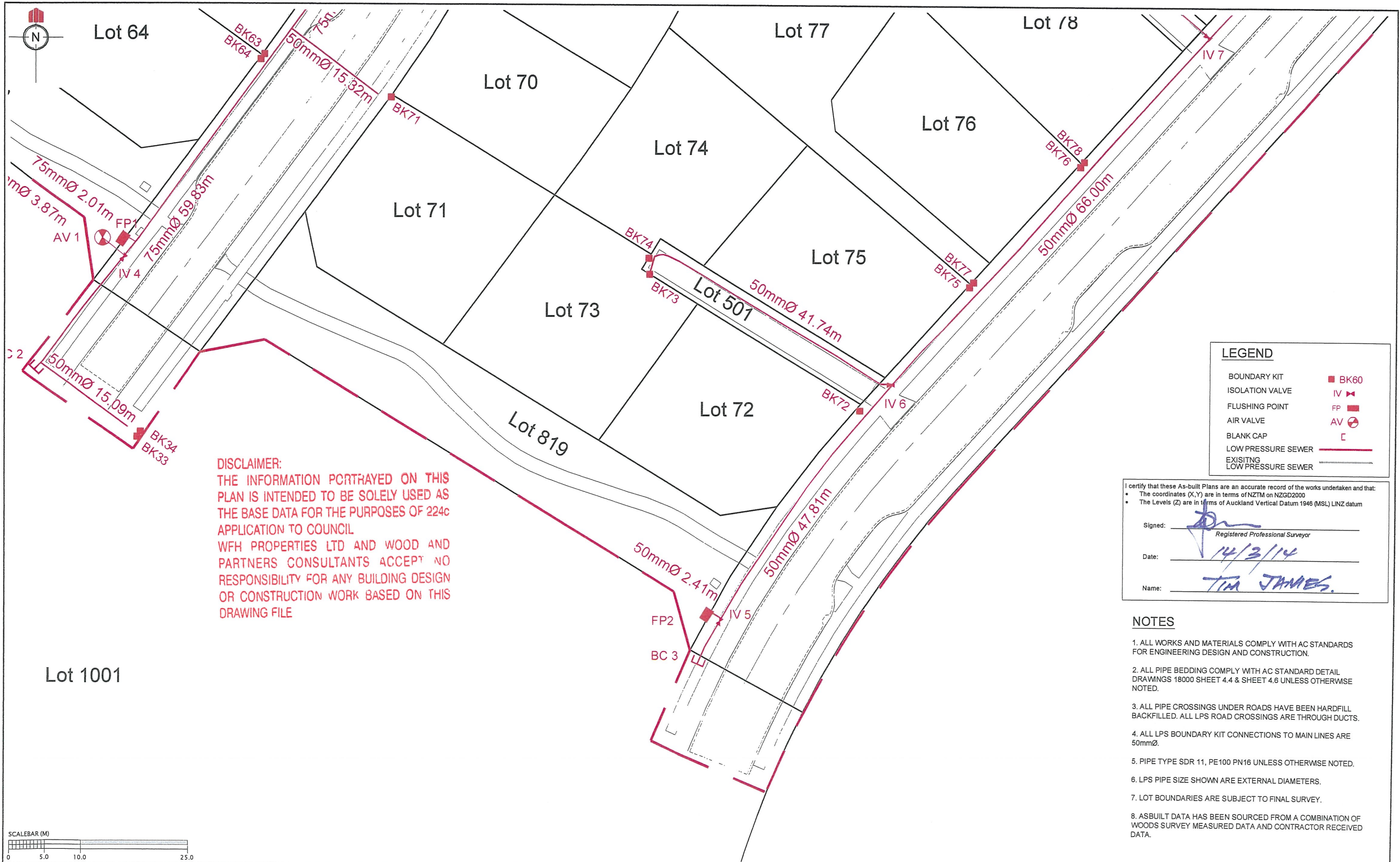
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REVISION DETAILS		NAME	DATE	CLIENT:
1. DRAWING ISSUED		SM	11/03/2014	
				
MILLWATER PRECINCT 3 - STAGE 1 WASTEWATER (LPS) ASBUILT PLAN SHEET 4 OF 5 AUCKLAND COUNCIL				
				
DESIGNED: WOODS		AS-BUILT		
CHECKED:		DRAWN: SM		
APPROVED:		SURVEYED:		
JOB NUMBER: 33301		SCALE: 1:500 @ A3		
ISSUED: MARCH 2014				
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LEGEND

BOUNDARY KIT

ISOLATION VALVE

FLUSHING POINT

AIR VALVE

BLANK CAP

LOW PRESSURE SEWER

EXISTING LOW PRESSURE SEWER

BK60

IV

FP

AV

C

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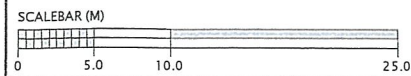
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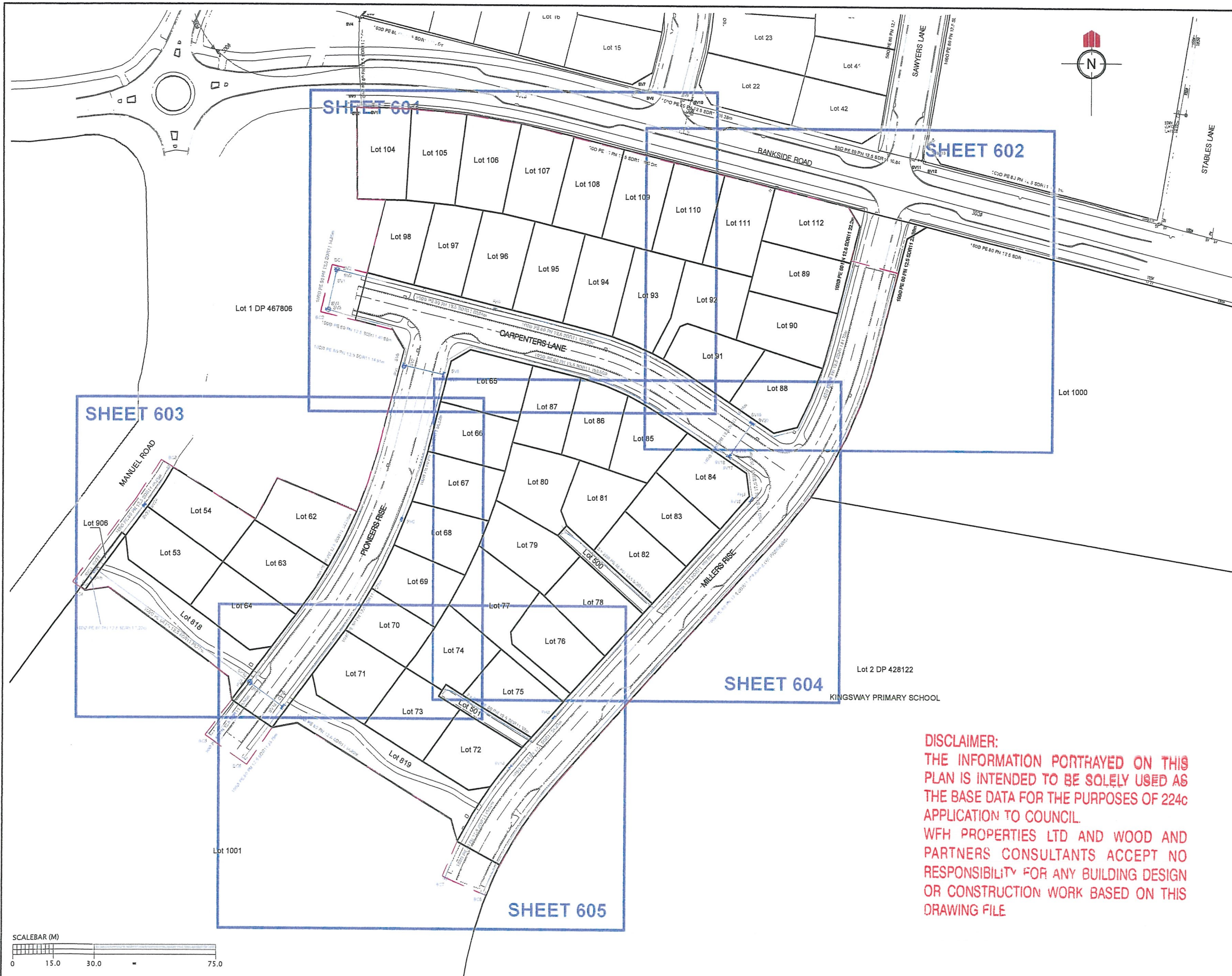
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REVISION DETAILS		NAME	DATE	CLIENT:	<div>MILLWATER</div> <div>PRECINCT 3 - STAGE 1</div> <div>WASTEWATER (LPS) ASBUILT PLAN</div> <div>SHEET 5 OF 5</div> <div>AUCKLAND COUNCIL</div>		<div><div></div>WOODS</div> <div>Engineers. Surveyors. Planners.</div>		DESIGNED: WOODS		AS-BUILT
1. DRAWING ISSUED		SM	11/03/2014						CHECKED:		DRAWN: SM
									APPROVED:		SURVEYED:
									JOB NUMBER: 33301		SCALE: 1:500 @ A3
									ISSUED: MARCH 2014		
									DWG. NO. 33301-01-AB-405	REV. 1	



SLUIICE VALVE		
	mE	mN
SV01	1749761.97	5947615.56
SV02	1749762.27	5947615.82
SV03	1749761.86	5947615.91
SV04	1749758.59	5947601.06
SV05	1749759.13	5947600.94
SV06	1749787.21	5947580.54
SV07	1749787.50	5947580.24
SV08	1749802.08	5947577.24
SV09	1749801.90	5947576.73
SV10	1749730.55	5947462.54
SV11	1749731.00	5947462.24
SV12	1749743.23	5947453.65
SV13	1749742.85	5947453.24
SV14	1749827.52	5947431.86
SV15	1749916.18	5947530.90
SV16	1749908.04	5947547.40
SV17	1749908.07	5947546.98
SV18	1749907.61	5947547.28
SV19	1749916.15	5947559.88
SV20	1749916.59	5947559.58
SV21	1749673.50	5947503.94
SV22	1749673.82	5947504.39
SV23	1749691.59	5947527.91
SV24	1749691.46	5947528.25

SCHEDULE OF COORDINATES		
FIRE HYDRANT		
	mE	mN
FH1	1749820.83	5947601.40
FH2	1749786.65	5947523.12
FH3	1749843.47	5947450.10
FH4	1749916.62	5947531.46
FH5	1749673.10	5947503.44
PEET VALVE		
	mE	mN
PV01	1749787.19	5947579.92
PV02	1749730.96	5947462.70
PV03	1749730.57	5947462.14
BLANK CAP		
	mE	mN
BC1	1749763.04	5947616.49
BC2	1749759.86	5947601.68
BC3	1749701.12	5947540.82
BC4	1749669.25	5947499.96
BC5	1749715.77	5947444.79
BC6	1749728.77	5947435.85
BC7	1749802.98	5947391.97
BC8	1749817.13	5947386.56


NOTE - LOTS 104-112
PREVIOUSLY SUBMITTED
IN PRECINCT 4 STAGE 1A

LEGEND

- EXISTING WATERMAIN ———
- NEW WATERMAIN ———
- SLUIICE VALVE SV03
- PEET VALVE PV02
- FIRE HYDRANT FH4
- BLANK CAP BC1

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: 14/3/14
Name: TIM JAMES

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.
- ALL PIPES ARE PE80B CLASS PN12.5 SDR11 UNLESS OTHERWISE NOTED.
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DISCLAIMER:
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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

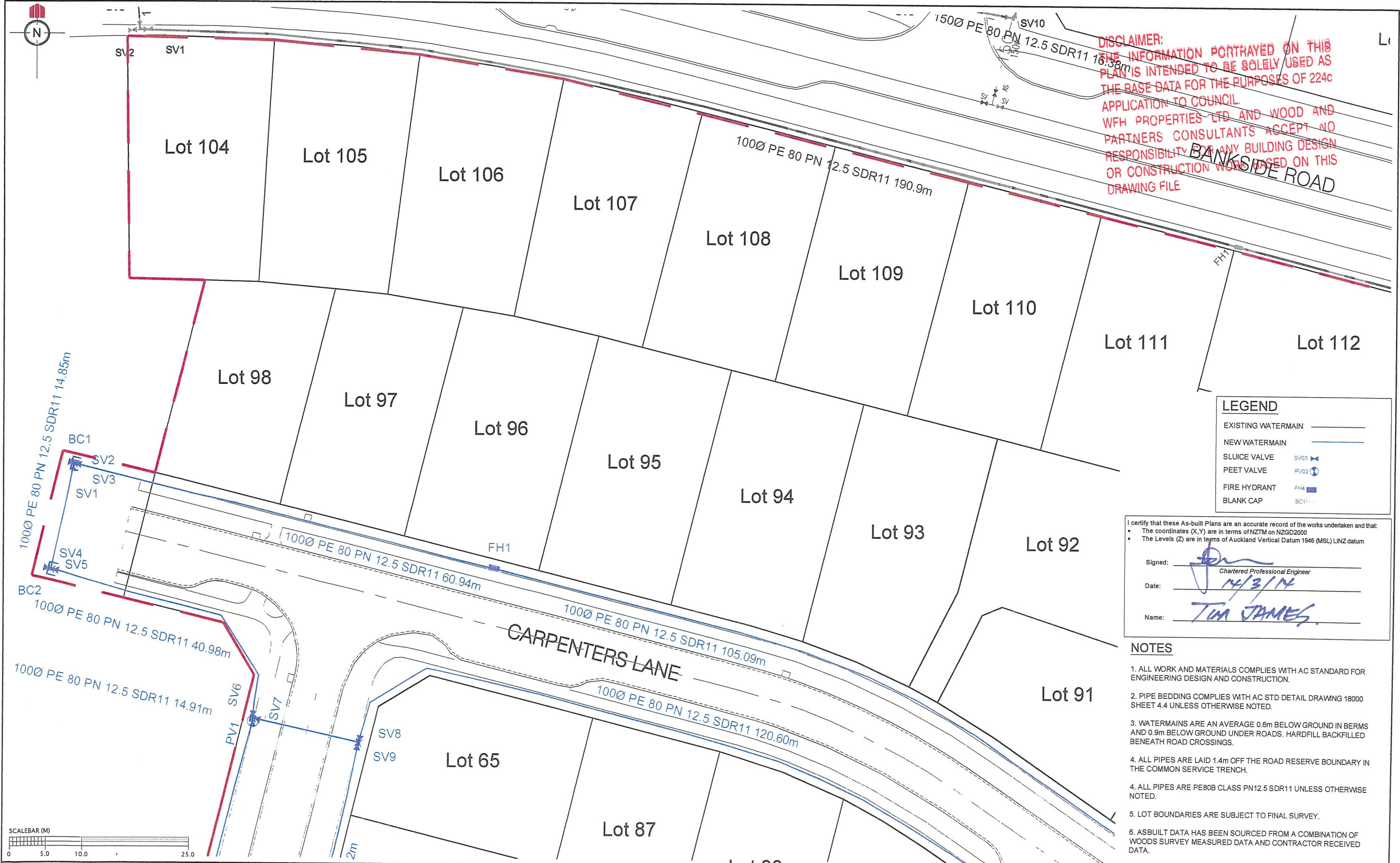
REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	



MILLWATER
PRECINCT 3 - STAGE 1
WATERMAIN ASBUILT PLAN - OVERALL
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:1500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-600	REV. 1

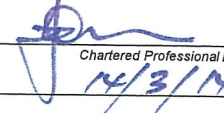


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WFH PROPERTIES LTD AND WOOD AND
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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE

LEGEND	
EXISTING WATERMAIN	—
NEW WATERMAIN	—
SLUICE VALVE	SV03
PEET VALVE	PV02
FIRE HYDRANT	FH4
BLANK CAP	BC1

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: 14/3/14
Name: TOM JAMES
Chartered Professional Engineer

- NOTES**
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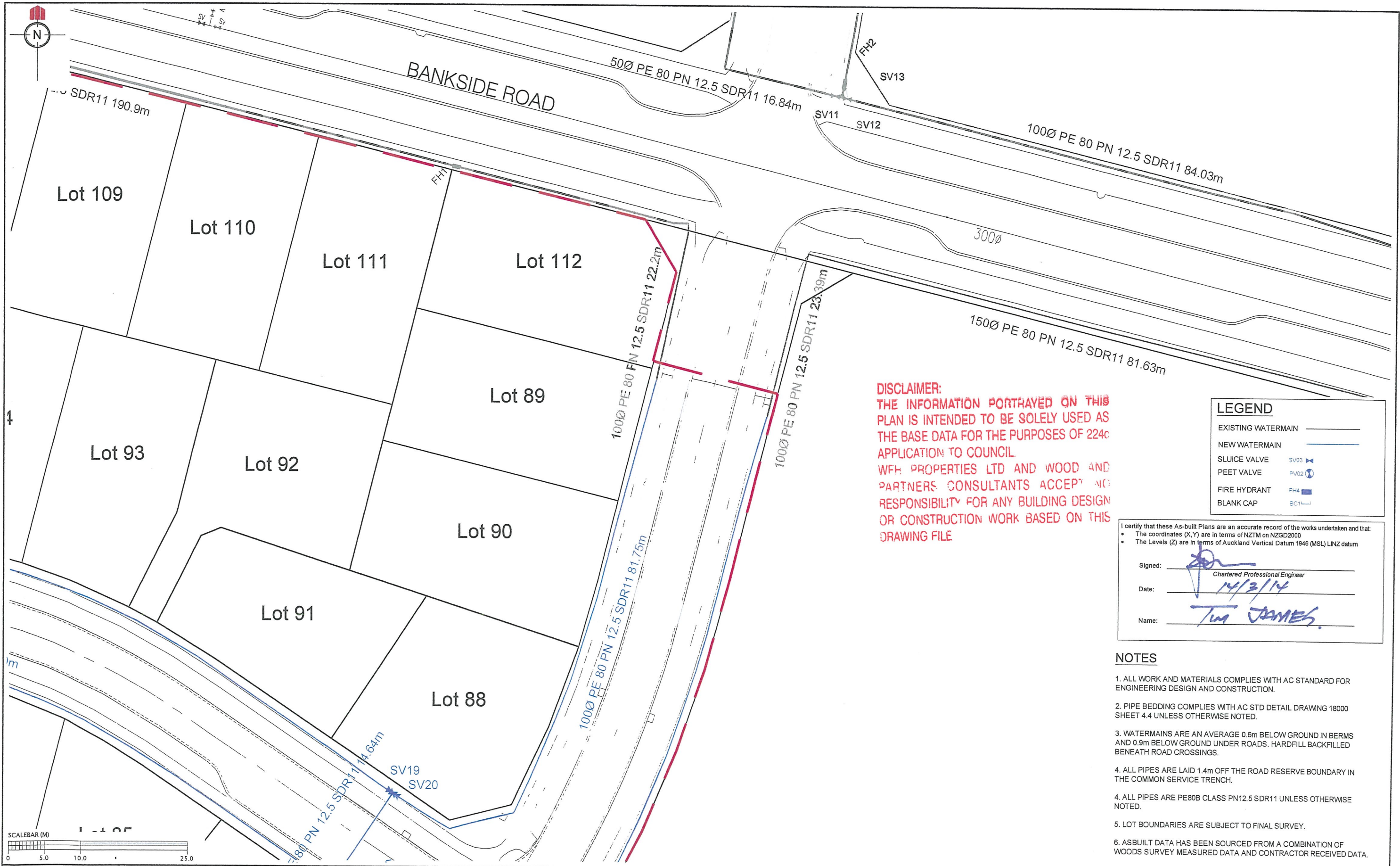
REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	



MILLWATER
PRECINCT 3 - STAGE 1
WATERMAIN ASBUILT PLAN
SHEET 1 OF 5
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-601	REV. 1

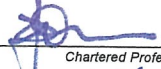


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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE


LEGEND	
EXISTING WATERMAIN	—
NEW WATERMAIN	—
SLUICE VALVE	SV03
PEET VALVE	PV02
FIRE HYDRANT	FH4
BLANK CAP	BC1

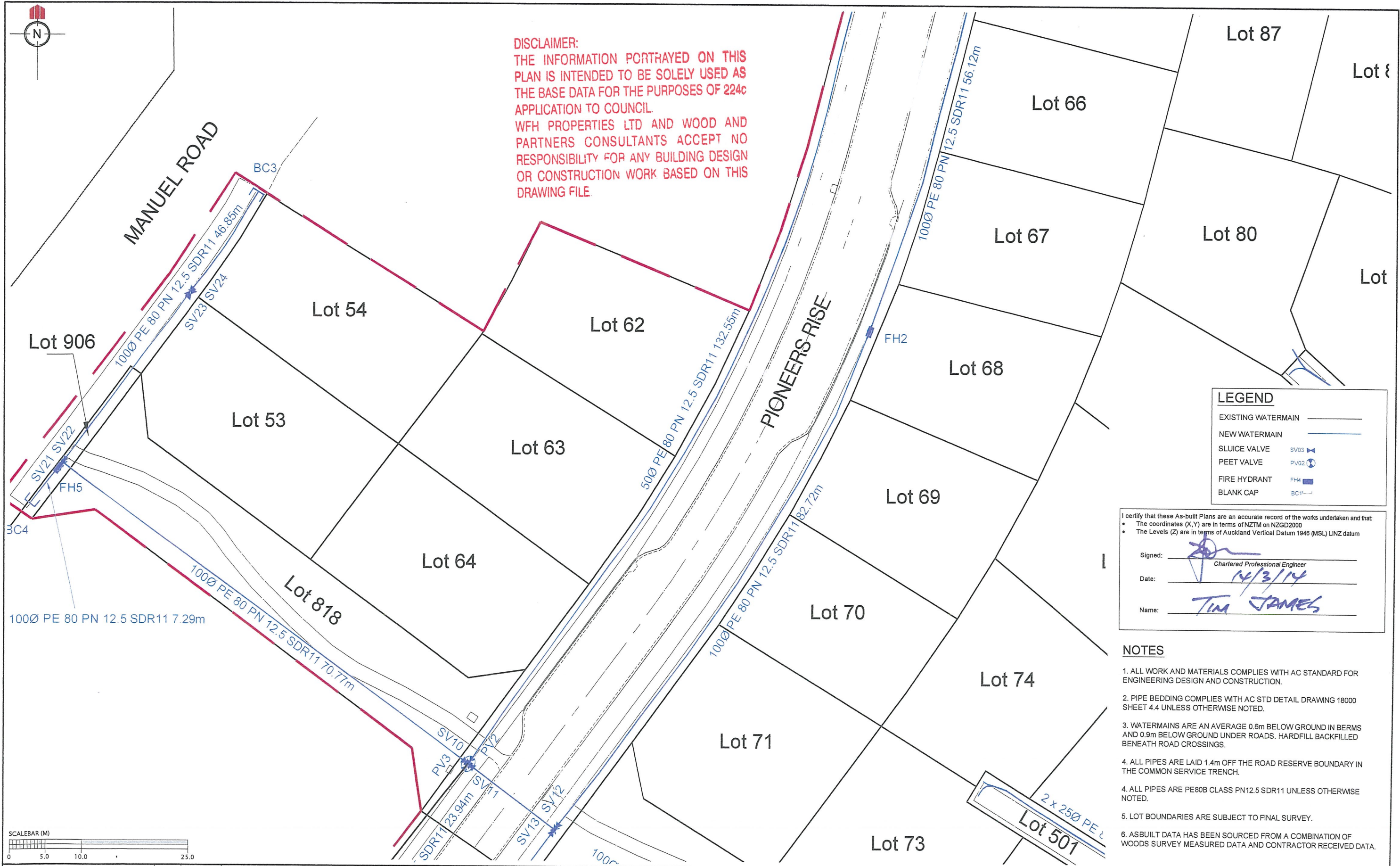
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: 
Chartered Professional Engineer
Date: 14/3/14
Name: Tim James

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REVISION DETAILS		NAME	DATE	CLIENT:	 MILLWATER PRECINCT 3 - STAGE 1 WATERMAIN ASBUILT PLAN SHEET 2 OF 5 AUCKLAND COUNCIL		 WOODS Engineers, Surveyors, Planners.		DESIGNED: WOODS CHECKED: APPROVED: JOB NUMBER: 33301 ISSUED: MARCH 2014 DWG. NO. 33301-01-AB-602		AS-BUILT DRAWN: SM SURVEYED: SCALE: 1:500 @ A3 REV. 1	
1.	DRAWING ISSUED	SM	11/03/2014									



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PARTNERS CONSULTANTS ACCEPT NO
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DRAWING FILE.

LEGEND

EXISTING WATERMAIN ———

NEW WATERMAIN ———

SLUICE VALVE SV03

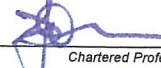
PEET VALVE PV02

FIRE HYDRANT FH4

BLANK CAP BC1

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

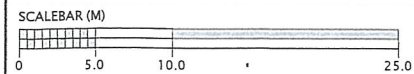
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Chartered Professional Engineer

Date: 14/3/14

Name: TIM JAMES

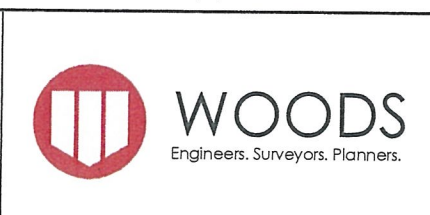
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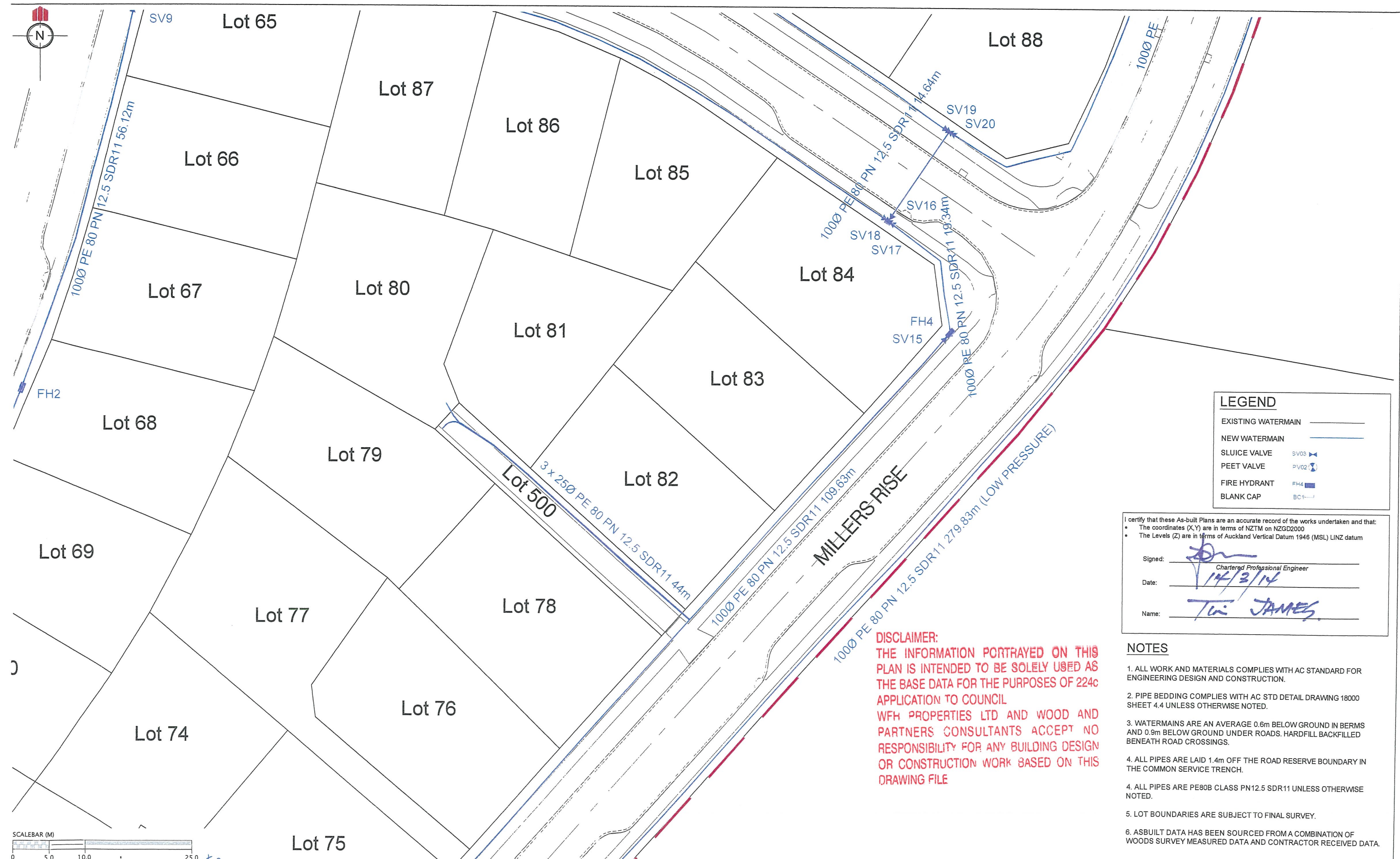
REVISION DETAILS	NAME	DATE	CLIENT:
1. DRAWING ISSUED	SM	11/03/2014	



MILLWATER
PRECINCT 3 - STAGE 1
WATERMAIN ASBUILT PLAN
SHEET 3 OF 5
AUCKLAND COUNCIL



DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-603	REV. 1



LEGEND

EXISTING WATERMAIN	—
NEW WATERMAIN	—
SLUICE VALVE	SV03
PEET VALVE	PV02
FIRE HYDRANT	FH4
BLANK CAP	BC1

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Signed: *[Signature]*
Chartered Professional Engineer
Date: 14/3/14
Name: *Tui JAMES*

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WFH PROPERTIES LTD AND WOOD 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
1. DRAWING ISSUED		SM	11/03/2014

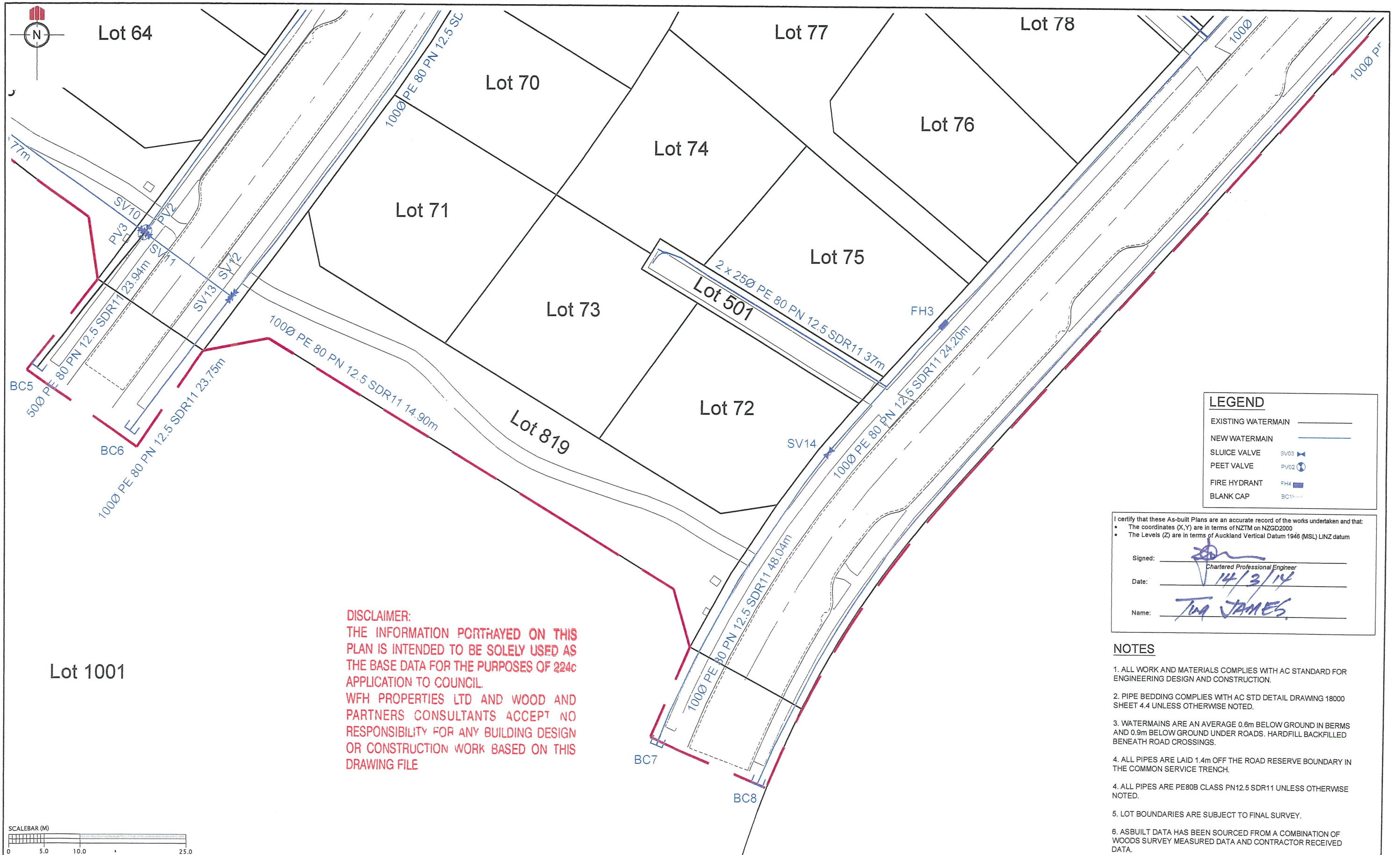
CLIENT:

WFH
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
WATERMAIN ASBUILT PLAN
SHEET 4 OF 5
AUCKLAND COUNCIL

WOODS
Engineers. Surveyors. Planners.

DESIGNED:	WOODS	AS-BUILT
CHECKED:		DRAWN: SM
APPROVED:		SURVEYED:
JOB NUMBER:	33301	SCALE: 1:500 @ A3
ISSUED:	MARCH 2014	
DWG. NO.	33301-01-AB-604	REV. 1



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	SM	11/03/2014

CLIENT:

WFH
PROPERTIES

MILLWATER
PRECINCT 3 - STAGE 1
WATERMAIN ASBUILT PLAN
SHEET 5 OF 5
AUCKLAND COUNCIL

WOODS
Engineers. Surveyors. Planners.

DESIGNED: WOODS	AS-BUILT
CHECKED:	DRAWN: SM
APPROVED:	SURVEYED:
JOB NUMBER: 33301	SCALE: 1:500 @ A3
ISSUED: MARCH 2014	
DWG. NO. 33301-01-AB-605	REV. 1