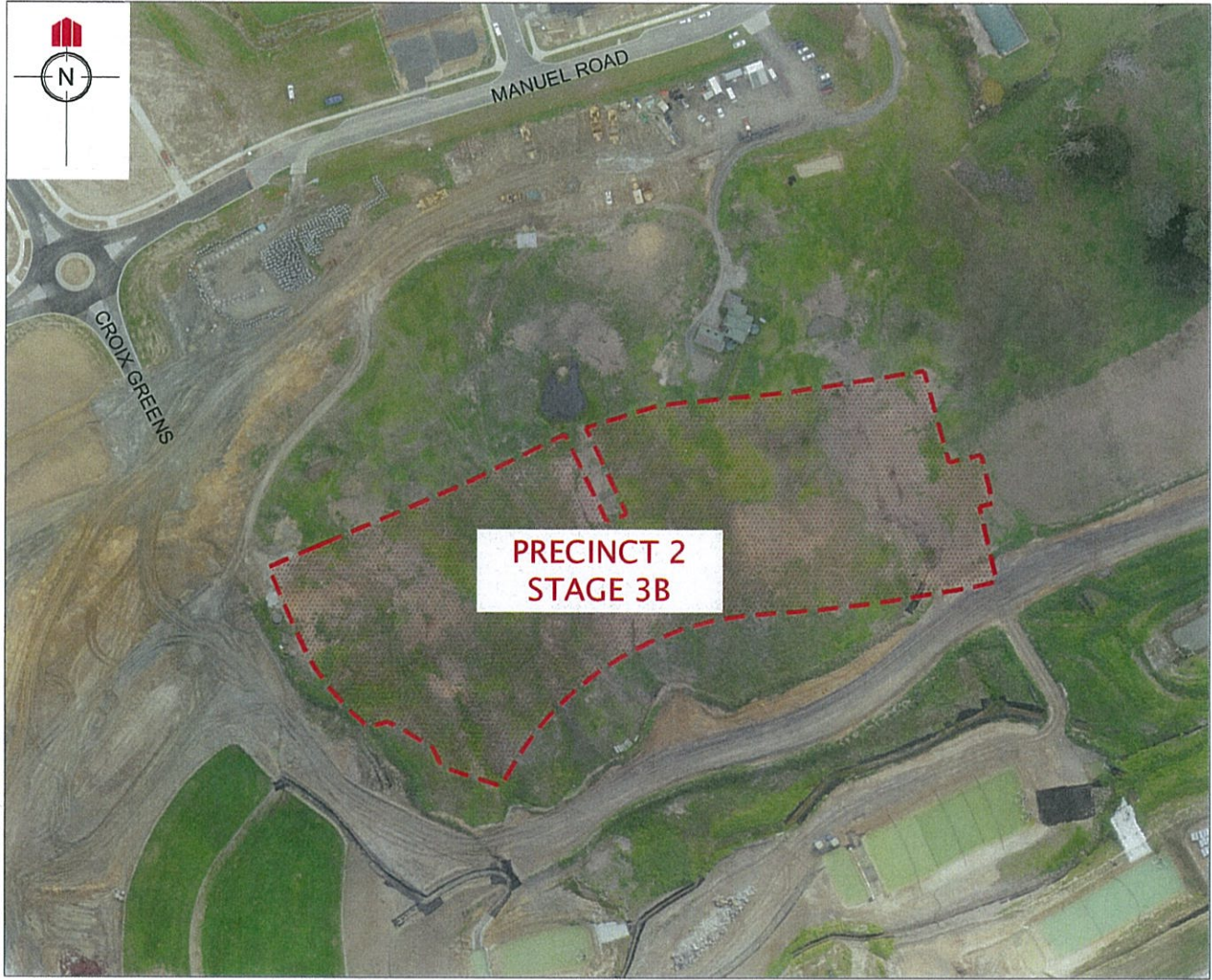


# MILLWATER - PRECINCT 2 STAGE 3B

## AS-BUILT DRAWINGS

### CONTENT INDEX AND LOCALITY PLAN

COVER PAGE	
000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 03B AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100	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
150-151	Retaining Walls As-Built Plans
200	Roading As-Built Plan
250	Reserve As-Built Plan
300-302	Stormwater As-Built Plans
400	Low Pressure Sewer As-Built Plan
500	Water Reticulation As-Built Plan



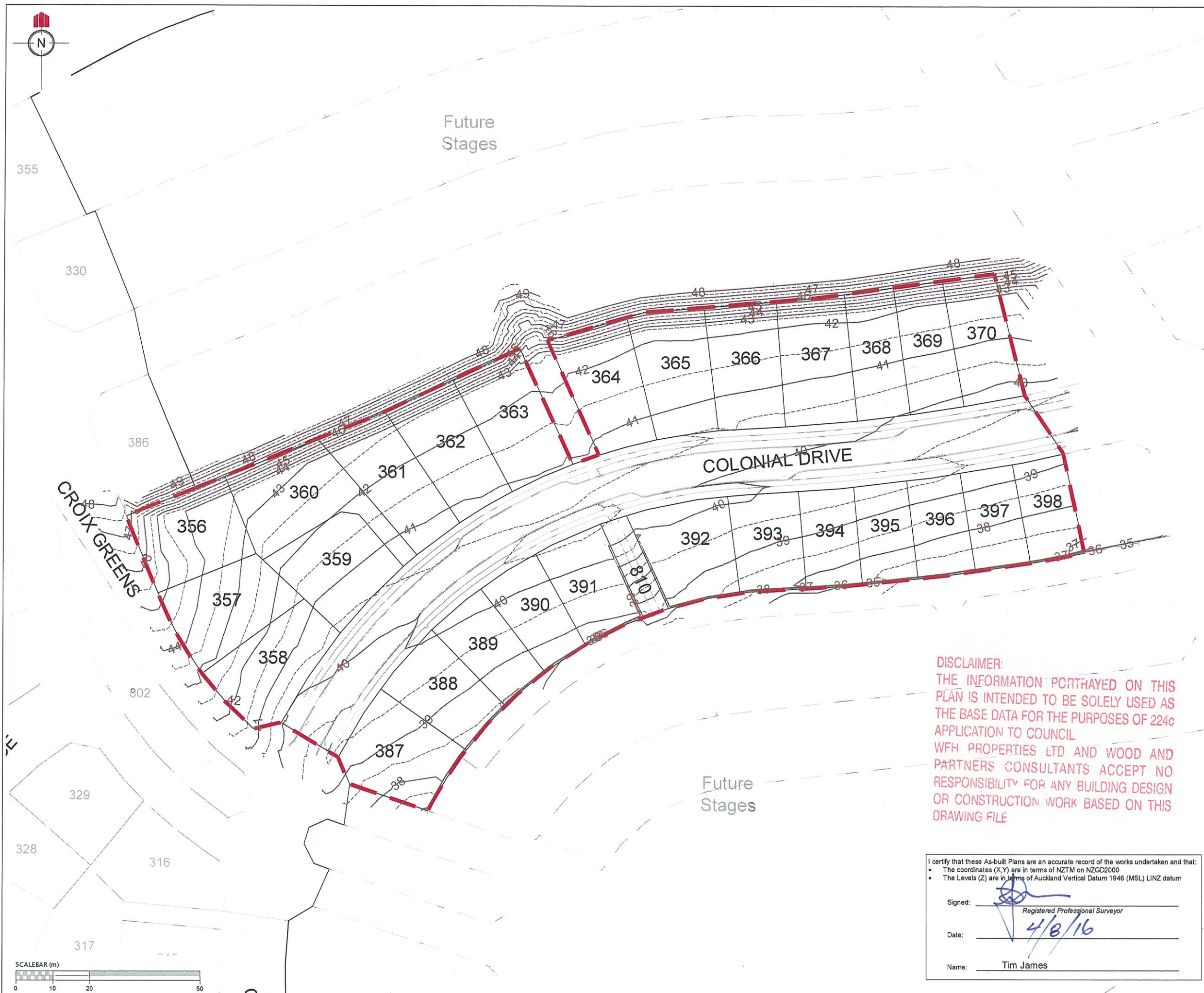
### LOCATION PLAN

NOT TO SCALE

**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
1.	DRAWING ISSUED	AAC	22/07/2016

**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND	
	CONTOURS MAJOR
	CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:



**WOODS**  
Engineers. Surveyors. Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**

**FINAL CONTOUR  
AS-BUILT PLAN**


AUCKLAND COUNCIL

DESIGNED: SB	ASBUILT
CHECKED:	DRAWN: AAC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: JULY 2016	
DWG. NO. 33211-03B-AB-100	REV. 1

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

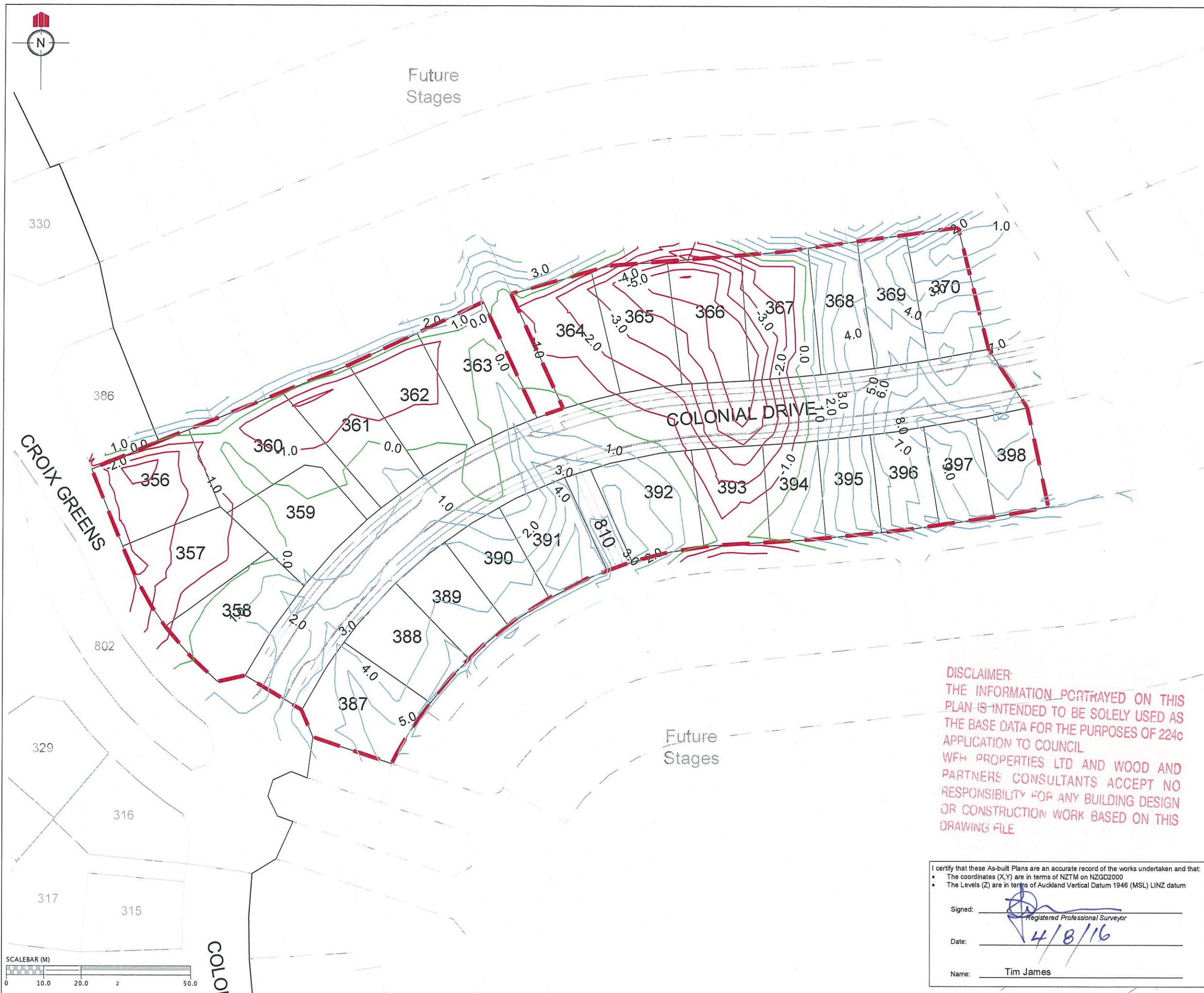
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:  Registered Professional Surveyor

Date: 4/8/16

Name: Tim James





REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	22/07/2016

**NOTES**  
1. CONTOURS ARE AT 1.0 METRE INTERVALS

LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:



**WOODS**  
Engineers. Surveyors. Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**


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

AUCKLAND COUNCIL	
DESIGNED: SB	ASBUILT
CHECKED:	DRAWN: AAC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: JULY 2016	
DWG. NO. 33211-03B-AB-110	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

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: 4/8/16

Name: Tim James





REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	22/07/2016

**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:



**WOODS**  
Engineers. Surveyors. Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**

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

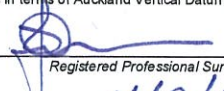
AUCKLAND COUNCIL

DESIGNED: SB	ASBUILT
CHECKED:	DRAWN: AAC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: JULY 2016	
DWG. NO. 33211-03B-AB-111	REV. 1

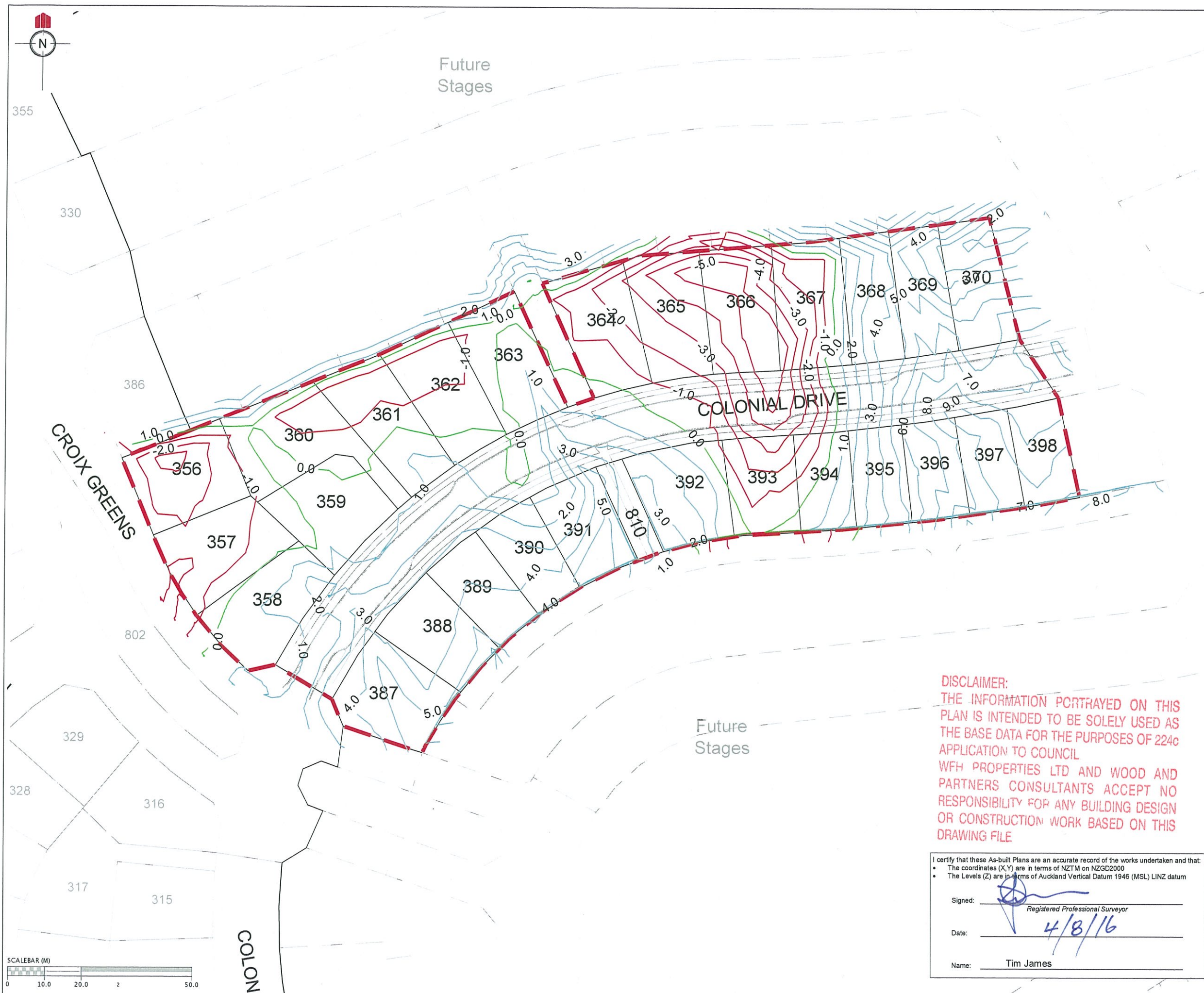
**DISCLAIMER:**  
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL. WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

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: 4/8/16  
Name: Tim James





REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	22/07/2016

**NOTES**  
1. CONTOURS ARE AT 1.0 METRE INTERVALS

LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:



**WOODS**  
Engineers. Surveyors. Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**


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

AUCKLAND COUNCIL	
DESIGNED: SB	ASBUILT
CHECKED:	DRAWN: AAC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: JULY 2016	
DWG. NO. 33211-03B-AB-112	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

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

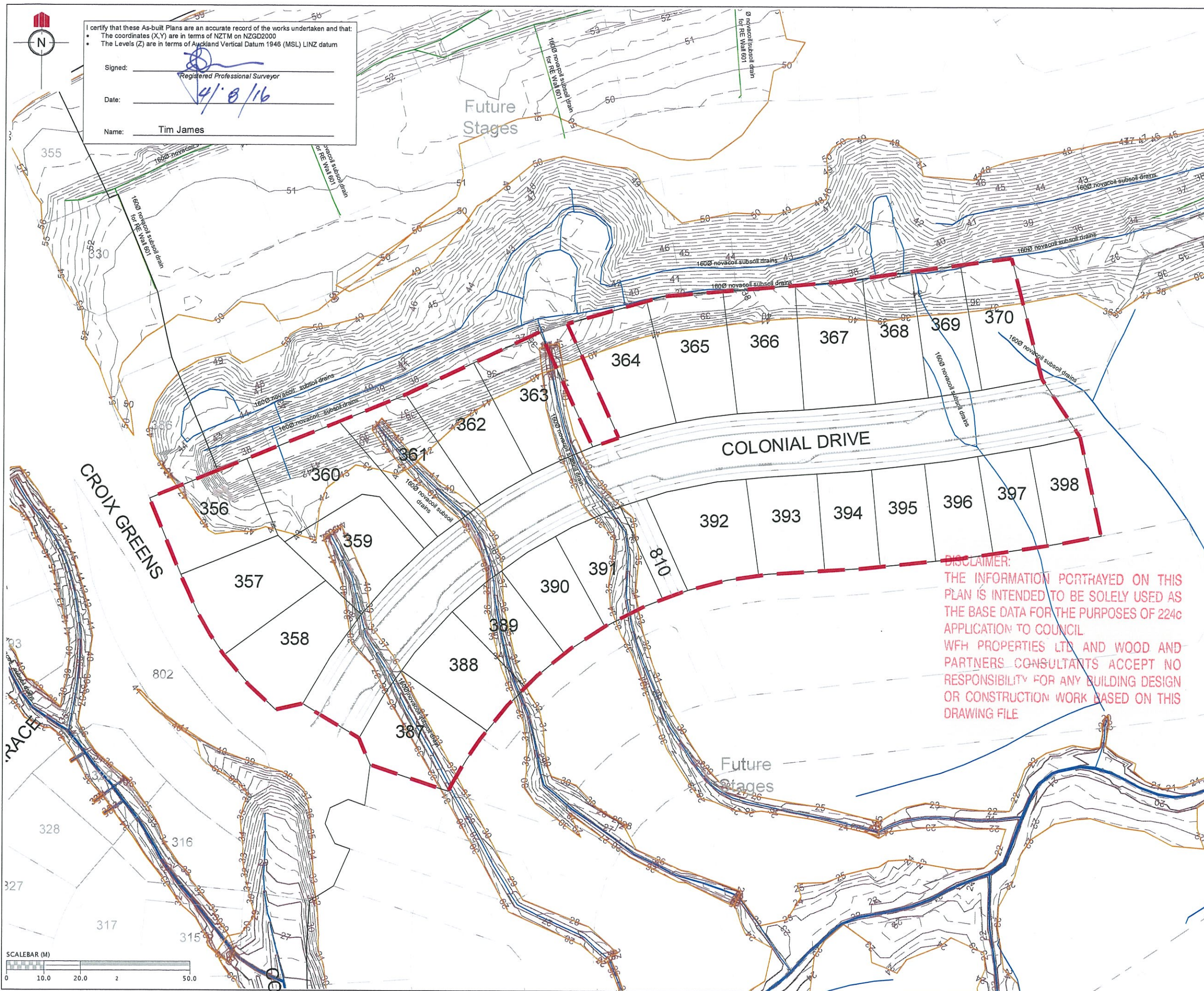
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
Registered Professional Surveyor

Date: 4/8/16

Name: Tim James





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: 4/8/16

Name: Tim James

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	22/07/2016

### 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:



## MILLWATER PRECINCT 2 STAGE 3B

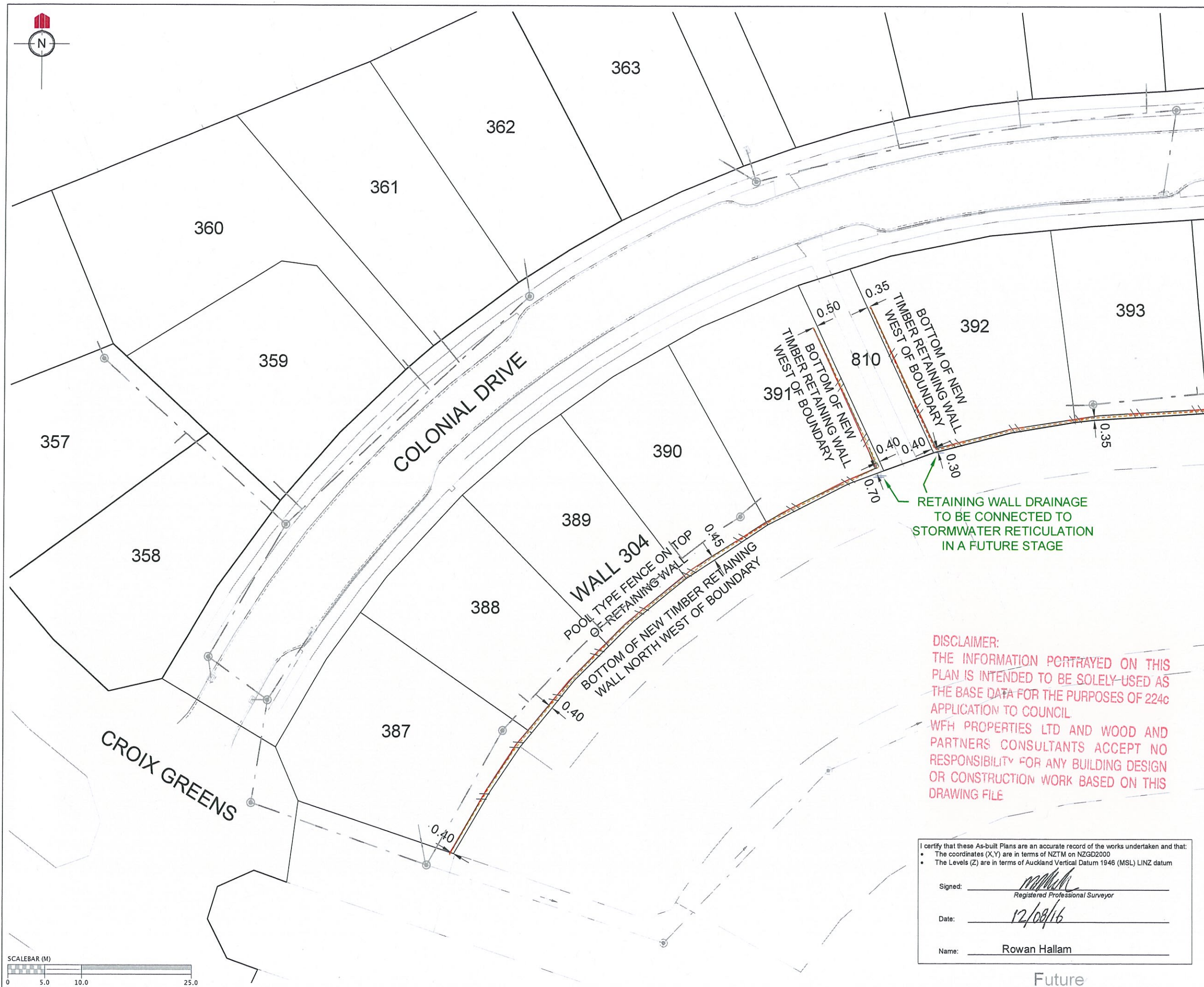
### SHEAR KEY, UNDERCUTS & SUBSOIL DRAINS AS-BUILT PLAN

AUCKLAND COUNCIL

DESIGNED: SB	ASBUILT
CHECKED: _____	DRAWN: AAC
APPROVED: _____	SURVEYED: HICKS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: JULY 2016	
DWG. NO. 33211-03B-AB-120	REV. 1

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
1.	DRAWING ISSUED	AAC	12/08/2016

**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- STORMWATER LINE
- BOUNDARY

CLIENT:

**WFH**  
PROPERTIES

**WOODS**  
Engineers, Surveyors, Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**

**RETAINING WALL  
AS-BUILT  
Sheet 1 of 2**

AUCKLAND COUNCIL

DESIGNED: SB	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:500 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-AB-150	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

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

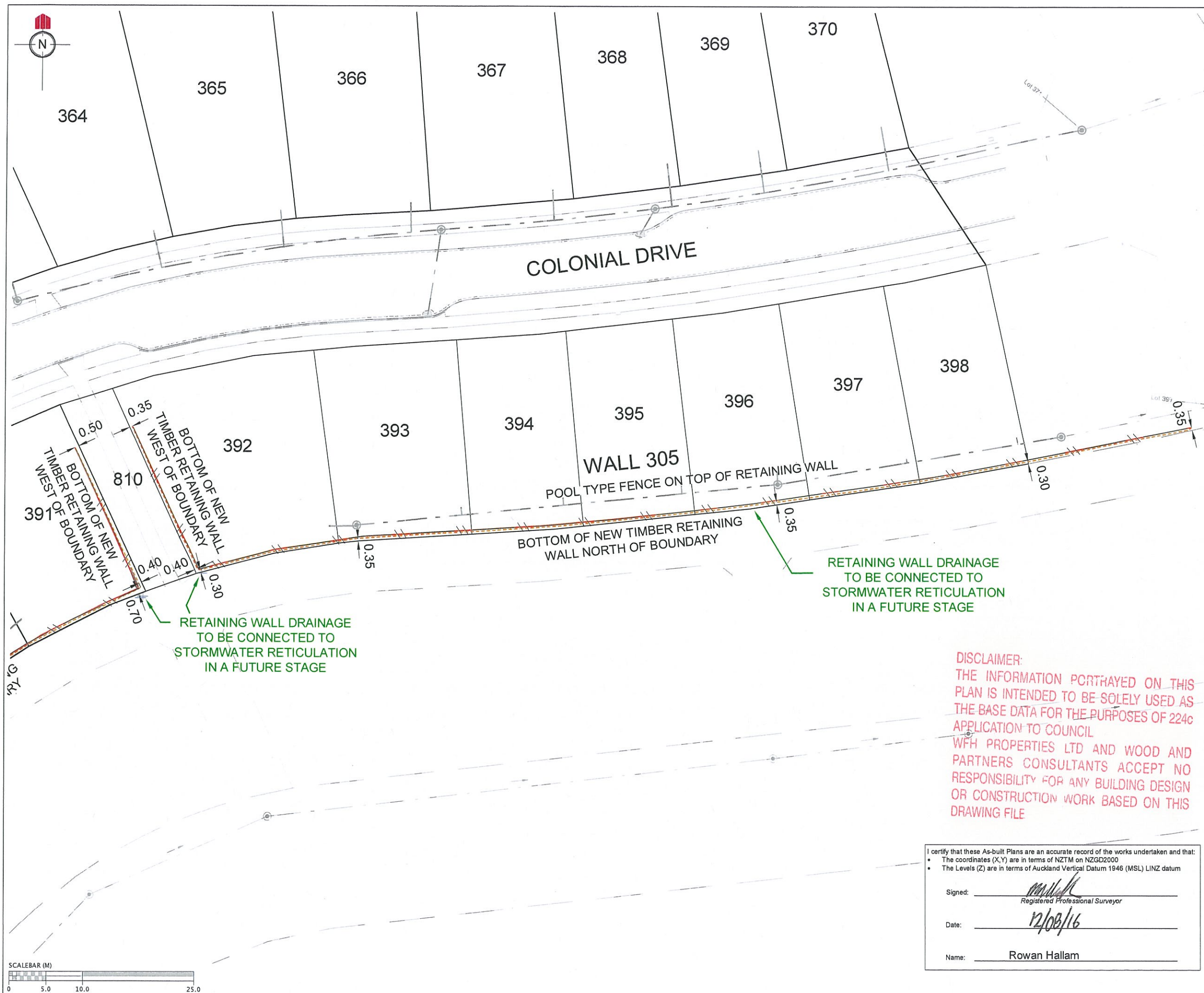
Signed: Rowan Hallam  
Registered Professional Surveyor

Date: 12/08/16

Name: Rowan Hallam

Future





REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	12/08/2016

**LEGEND:**

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- STORMWATER LINE
- BOUNDARY

CLIENT:

**WFH**  
PROPERTIES

**WOODS**  
Engineers. Surveyors. Planners.

**MILLWATER  
PRECINCT 2  
STAGE 3B**

**RETAINING WALL  
AS-BUILT  
Sheet 2 of 2**

AUCKLAND COUNCIL

DESIGNED: SB	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:500 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-AB-151	REV. 1

**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

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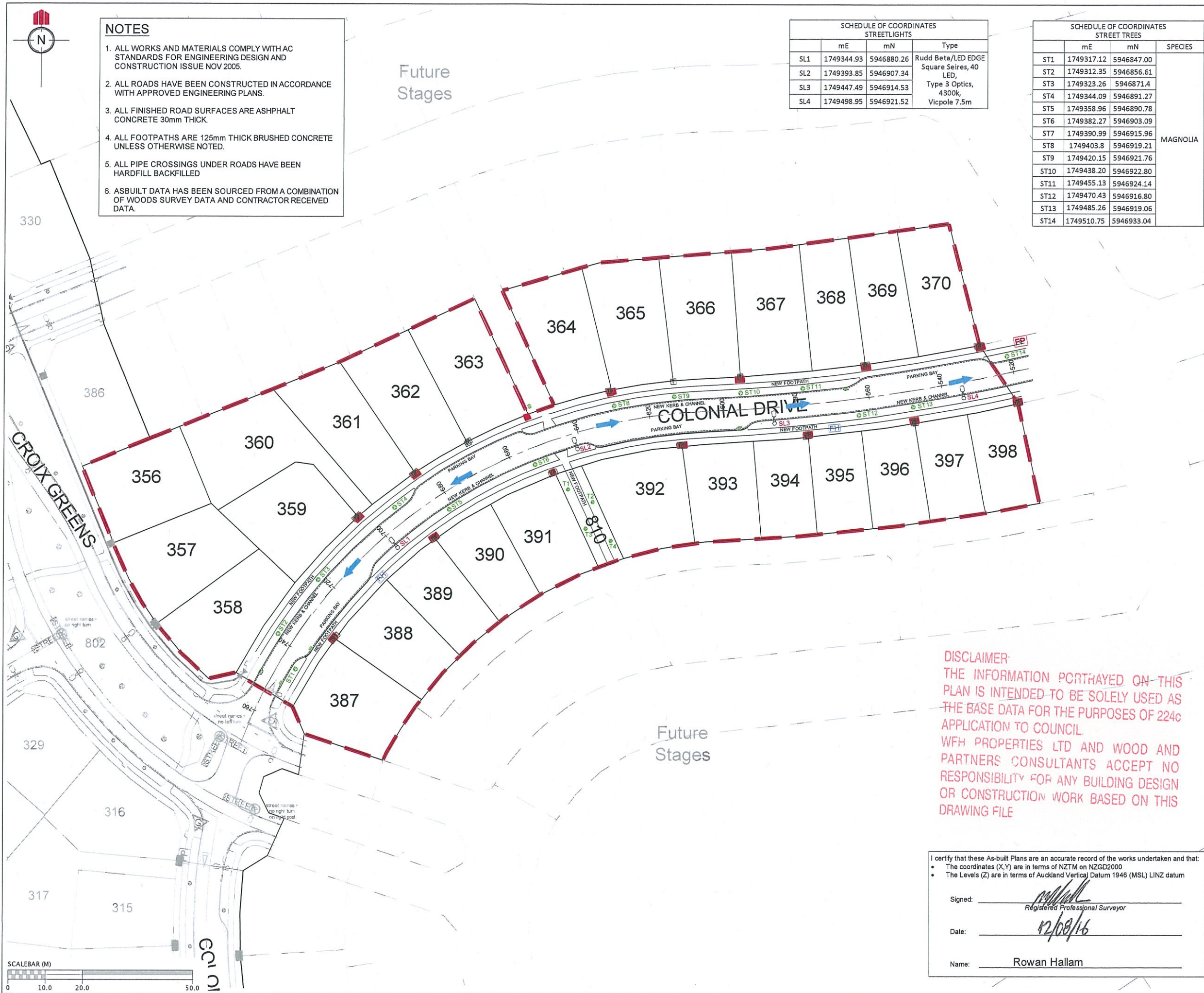
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Rowan Hallam  
Registered Professional Surveyor

Date: 12/08/16

Name: Rowan Hallam





- 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 STREETLIGHTS			
	mE	mN	Type
SL1	1749344.93	5946880.26	Rudd Beta/LED EDGE Square Seires, 40 LED, Type 3 Optics, 4300k, Vicpole 7.5m
SL2	1749393.85	5946907.34	
SL3	1749447.49	5946914.53	
SL4	1749498.95	5946921.52	

SCHEDULE OF COORDINATES STREET TREES			
	mE	mN	SPECIES
ST1	1749317.12	5946847.00	MAGNOLIA
ST2	1749312.35	5946856.61	
ST3	1749323.26	5946871.4	
ST4	1749344.09	5946891.27	
ST5	1749358.96	5946890.78	
ST6	1749382.27	5946903.09	
ST7	1749390.99	5946915.96	
ST8	1749403.8	5946919.21	
ST9	1749420.15	5946921.76	
ST10	1749438.20	5946922.80	
ST11	1749455.13	5946924.14	
ST12	1749470.43	5946916.80	
ST13	1749485.26	5946919.06	
ST14	1749510.75	5946933.04	

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	12/08/2016

- 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



**MILLWATER  
PRECINCT 2  
STAGE 3B**

**ROADING AS-BUILT**

**AUCKLAND COUNCIL**

DESIGNED: SB	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-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

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

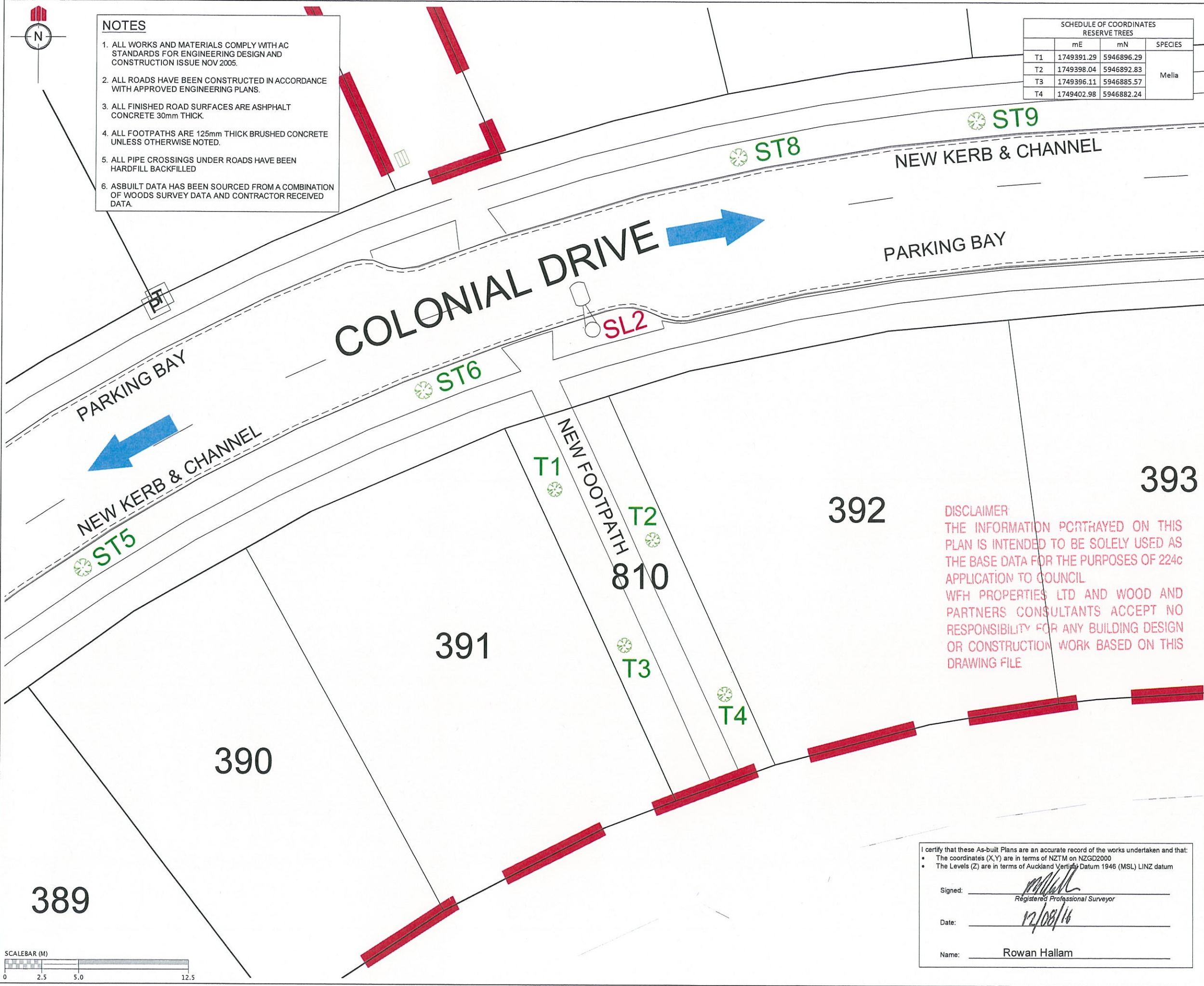
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 12/08/16

Name: Rowan Hallam





REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	12/08/2016

**CLIENT:**

**WFH**  
PROPERTIES

**WOODS**  
Engineers, Surveyors, Planners.

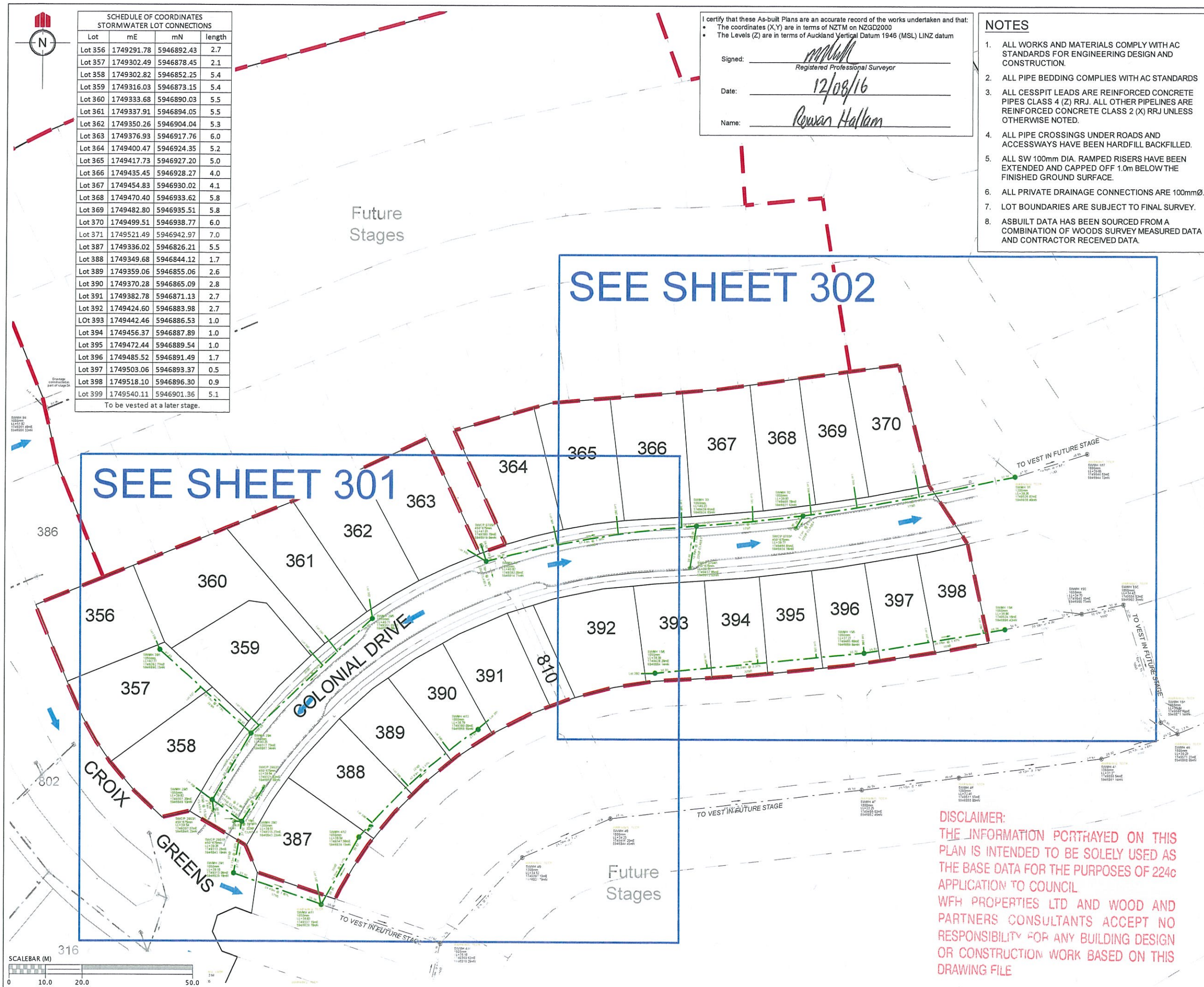
**MILLWATER  
PRECINCT 2  
STAGE 3B**

**RESERVE AS-BUILT**

**AUCKLAND COUNCIL**

DESIGNED: SB	ASBUILT
CHECKED: AK	DRAWN: AAC
APPROVED: MBH	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-AB-250	REV. 1





SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot	mE	mN	length
Lot 356	1749291.78	5946892.43	2.7
Lot 357	1749302.49	5946878.45	2.1
Lot 358	1749302.82	5946852.25	5.4
Lot 359	1749316.03	5946873.15	5.4
Lot 360	1749333.68	5946890.03	5.5
Lot 361	1749337.91	5946894.05	5.5
Lot 362	1749350.26	5946904.04	5.3
Lot 363	1749376.93	5946917.76	6.0
Lot 364	1749400.47	5946924.35	5.2
Lot 365	1749417.73	5946927.20	5.0
Lot 366	1749435.45	5946928.27	4.0
Lot 367	1749454.83	5946930.02	4.1
Lot 368	1749470.40	5946933.62	5.8
Lot 369	1749482.80	5946935.51	5.8
Lot 370	1749499.51	5946938.77	6.0
Lot 371	1749521.49	5946942.97	7.0
Lot 387	1749336.02	5946826.21	5.5
Lot 388	1749349.68	5946844.12	1.7
Lot 389	1749359.06	5946855.06	2.6
Lot 390	1749370.28	5946865.09	2.8
Lot 391	1749382.78	5946871.13	2.7
Lot 392	1749424.60	5946883.98	2.7
Lot 393	1749442.46	5946886.53	1.0
Lot 394	1749456.37	5946887.89	1.0
Lot 395	1749472.44	5946889.54	1.0
Lot 396	1749485.52	5946891.49	1.7
Lot 397	1749503.06	5946893.37	0.5
Lot 398	1749518.10	5946896.30	0.9
Lot 399	1749540.11	5946901.36	5.1
To be vested at a later stage.			

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: 12/08/16

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. DRAWING ISSUED		AAC	12/08/2016

**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 3B**

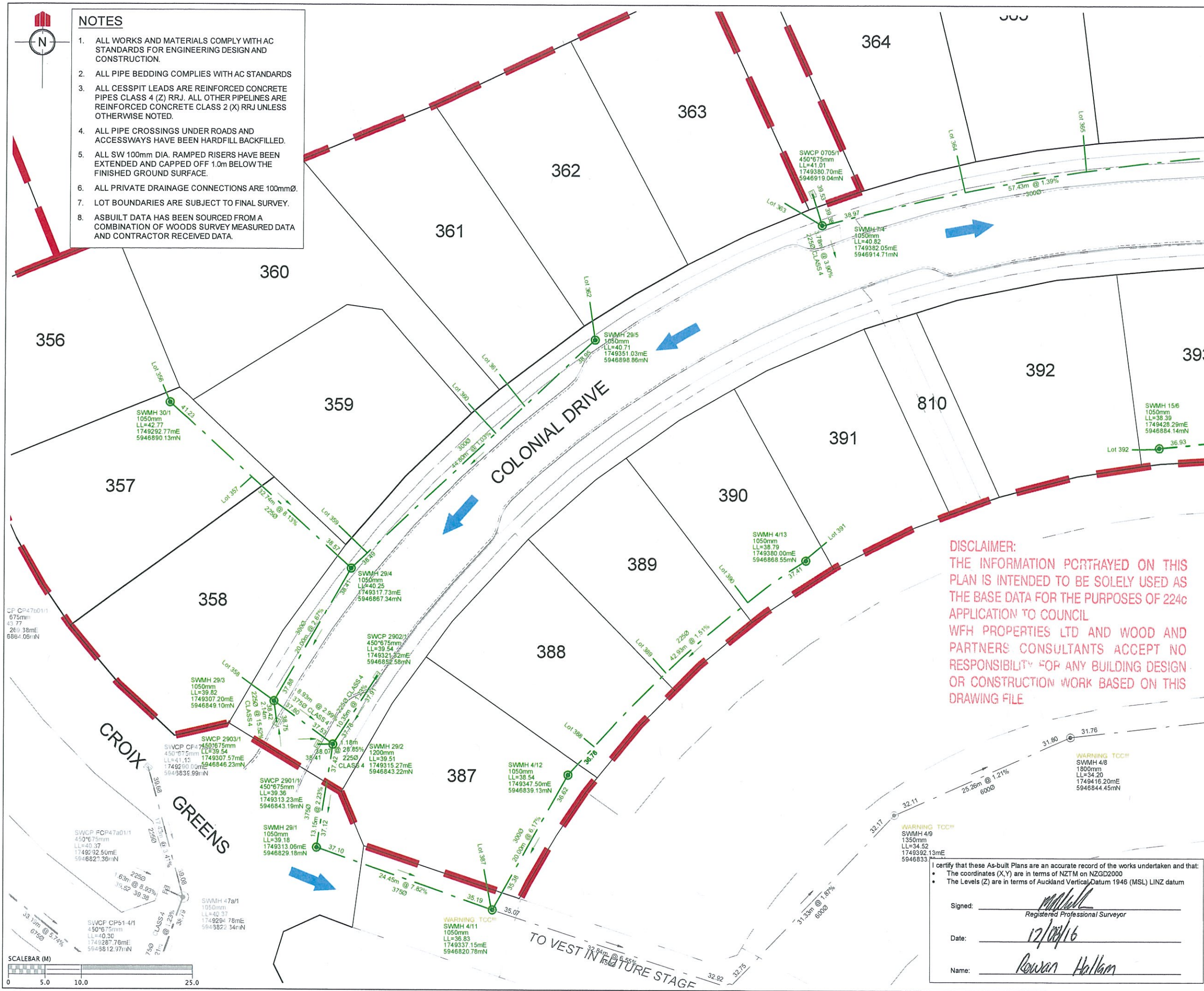
**STORMWATER AS-BUILT  
OVERALL LAYOUT**  
Sheet 1 of 3

AUCKLAND COUNCIL

DESIGNED: SB	ASBUILT
CHECKED: <u>AC</u>	DRAWN: AAC
APPROVED: <u>Rowan Hallam</u>	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1250 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-3B-AB-300	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. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
  3. ALL 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	AAC	12/08/16

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 3B**

**STORMWATER AS-BUILT  
Sheet 2 of 3**

DESIGNED: SB		ASBUILT	
CHECKED: AC		DRAWN: AAC	
APPROVED: MCH		SURVEYED: WOODS	
JOB NUMBER: 33211		SCALE: 1:500 @ A3	
ISSUED: AUG 2016			
DWG. NO. 33211-3B-AB-301		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

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

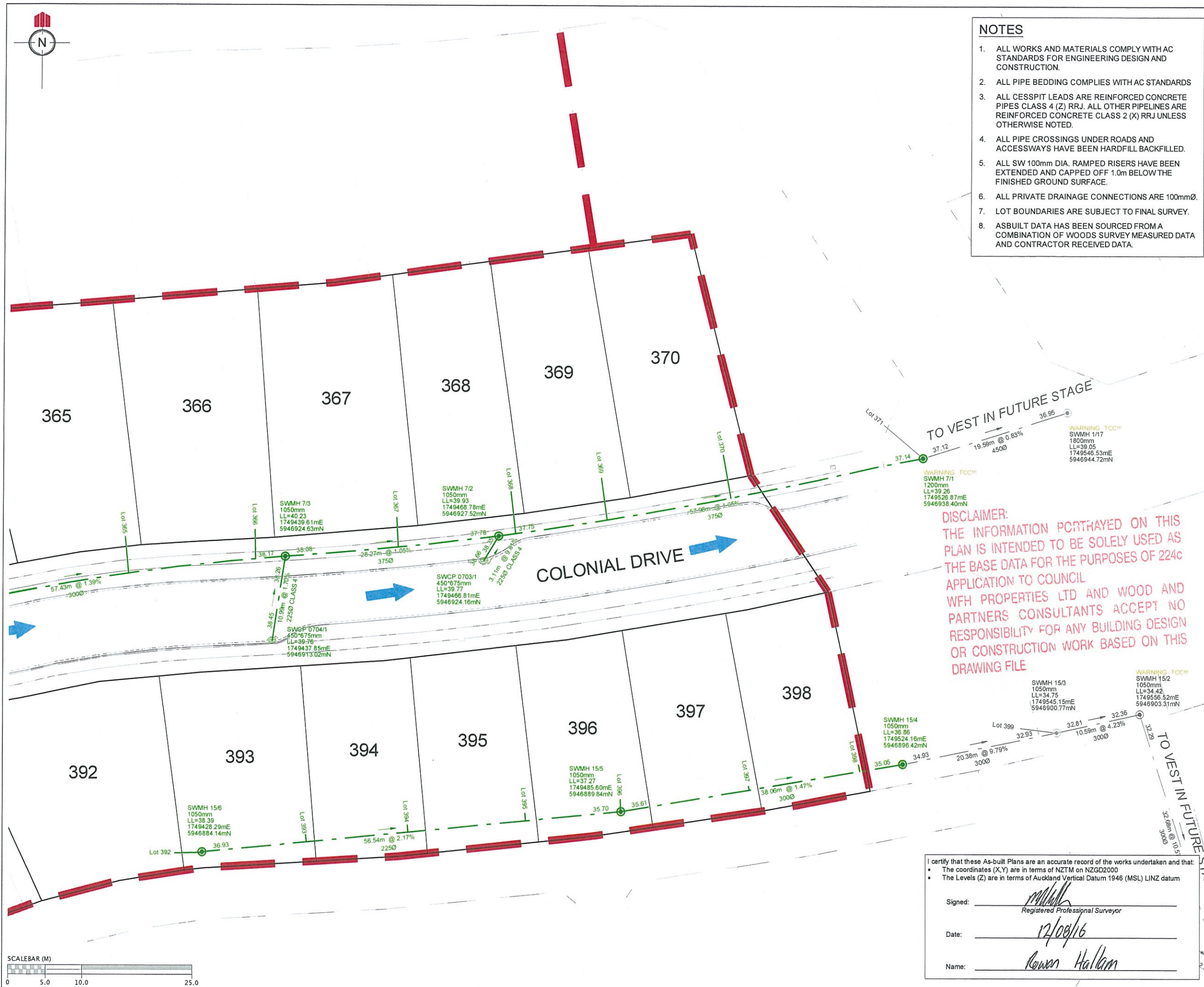
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *Rowan Hallam*  
Registered Professional Surveyor

Date: 12/08/16

Name: Rowan 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 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	AAC	12/08/2016

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

**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



**MILLWATER  
PRECINCT 2  
STAGE 3B**

**STORMWATER AS-BUILT  
Sheet 3 of 3**

AUCKLAND COUNCIL	
DESIGNED: SB	ASBUILT
CHECKED: Ae	DRAWN: AAC
APPROVED: MHA	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:500 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-3B-AB-302	REV. 1

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

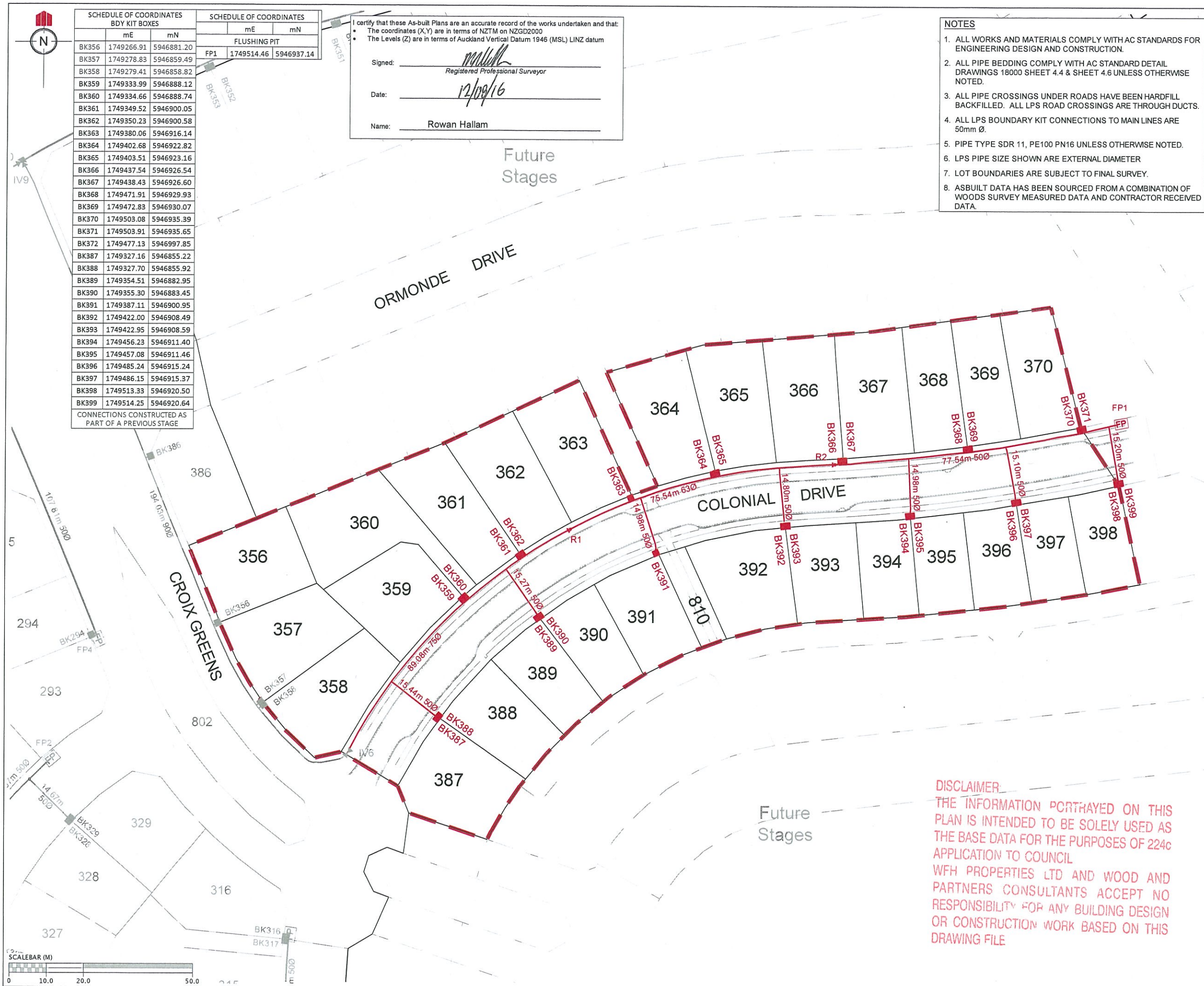
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
Registered Professional Surveyor

Date: 12/08/16

Name: Rowan Hallam





REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	12/08/16

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

CLIENT:

Engineers. Surveyors. Planners.

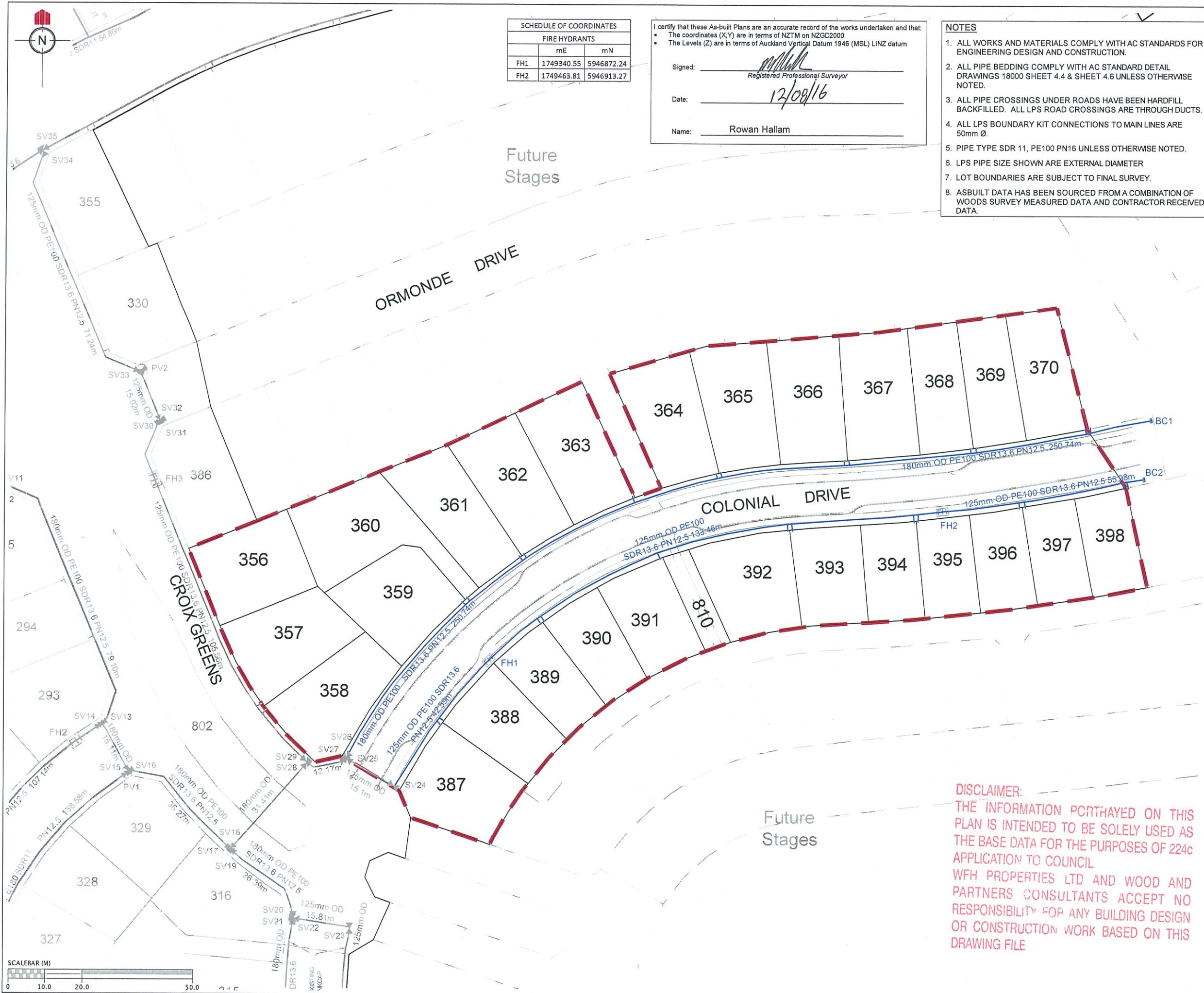
MILLWATER  
PRECINCT 2  
STAGE 3B

WASTEWATER ASBUILT PLAN

AUCKLAND COUNCIL

DESIGNED: SB	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MTH	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-AB-400	REV. 1





SCHEDULE OF COORDINATES			
FIRE HYDRANTS			
	mE	mN	
FH1	1749340.55	5946872.24	
FH2	1749463.81	5946913.27	

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: 12/08/16  
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.

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AAC	12/08/16

LEGEND	
EXISTING WATERMAIN	—
HIGH PRESSURE WATERMAIN	—
SLUICE VALVE	SV1
PEET VALVE	PV
FIRE HYDRANT	FH
BLANK CAP	BC1
STAGE BOUNDARY	---

CLIENT:

**WFH** PROPERTIES

**WOODS** Engineers. Surveyors. Planners.

**MILLWATER PRECINCT 2 STAGE 3B**

**WATERMAIN ASBUILT PLAN**

AUCKLAND COUNCIL

DESIGNED:	AS-BUILT
SB	
CHECKED: <u>AC</u>	DRAWN: AAC
APPROVED: <u>Rowan Hallam</u>	SURVEYED: WOODS
JOB NUMBER: 33211	SCALE: 1:1000 @ A3
ISSUED: AUG 2016	
DWG. NO. 33211-03B-AB-500	REV. 1