CLIENT:

WFH PROPERTIES

COUNCIL:

Auckland Council
Te Kaunihera o Tamaki Makaurau

# MILLWATER - ARRAN HILL
# STAGE 4 & 3B
## ASBUILTS DRAWINGS

August 2019

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

MILLWATER

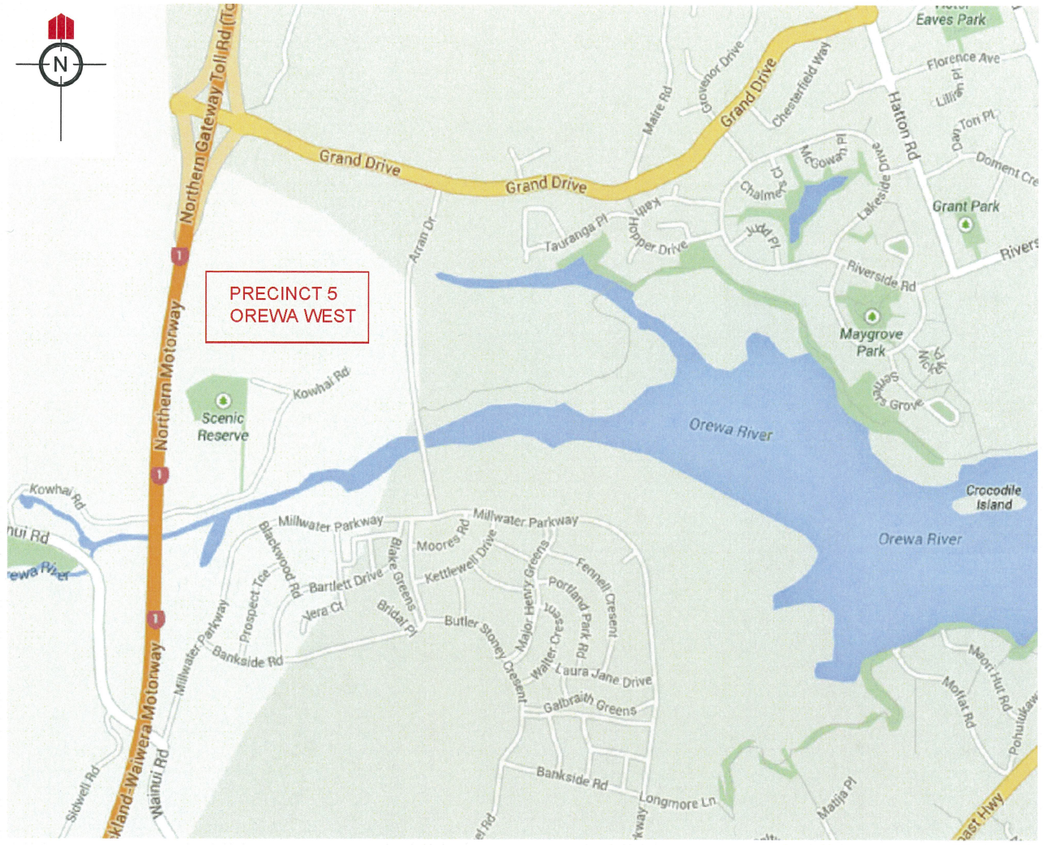
WOODS
Engineers. Surveyors. Planners.
Urban Designers. Architects.

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.

# MILLWATER - ARRAN HILL STAGE 4 & 3B

## CONTENT INDEX AND LOCALITY PLAN

| SHEET NO. | | SHEET TITLE |
|---|---|---|
| 37504-04-03B- | 000 | Plans Index and Location Plan |
| 37504-04-03B- | 100 | Final Contour Asbuilt Plan |
| 37504-04-03B- | 110-112 | Cut & Fill Asbuilt Original to Final Surface |
| 37504-04-03B- | 120 | Shear Key, Undercuts & Subsoil Drains Asbuilt Plan |
| 37504-04-03B- | 123-124 | Deadman |
| 37504-04-03B- | 140-141 | Slope Stabilisation Plan |
| 37504-04-03B- | 200-203 | Roading Asbuilt Plans |
| 37504-04-03B- | 300-303 | Stormwater Asbuilt Plans |
| 37504-04-03B- | 400-403 | Sanitary Sewer Asbuilt Plans |
| 37504-04-03B- | 600-603 | Watermain Asbuilt Plans |
| | | |

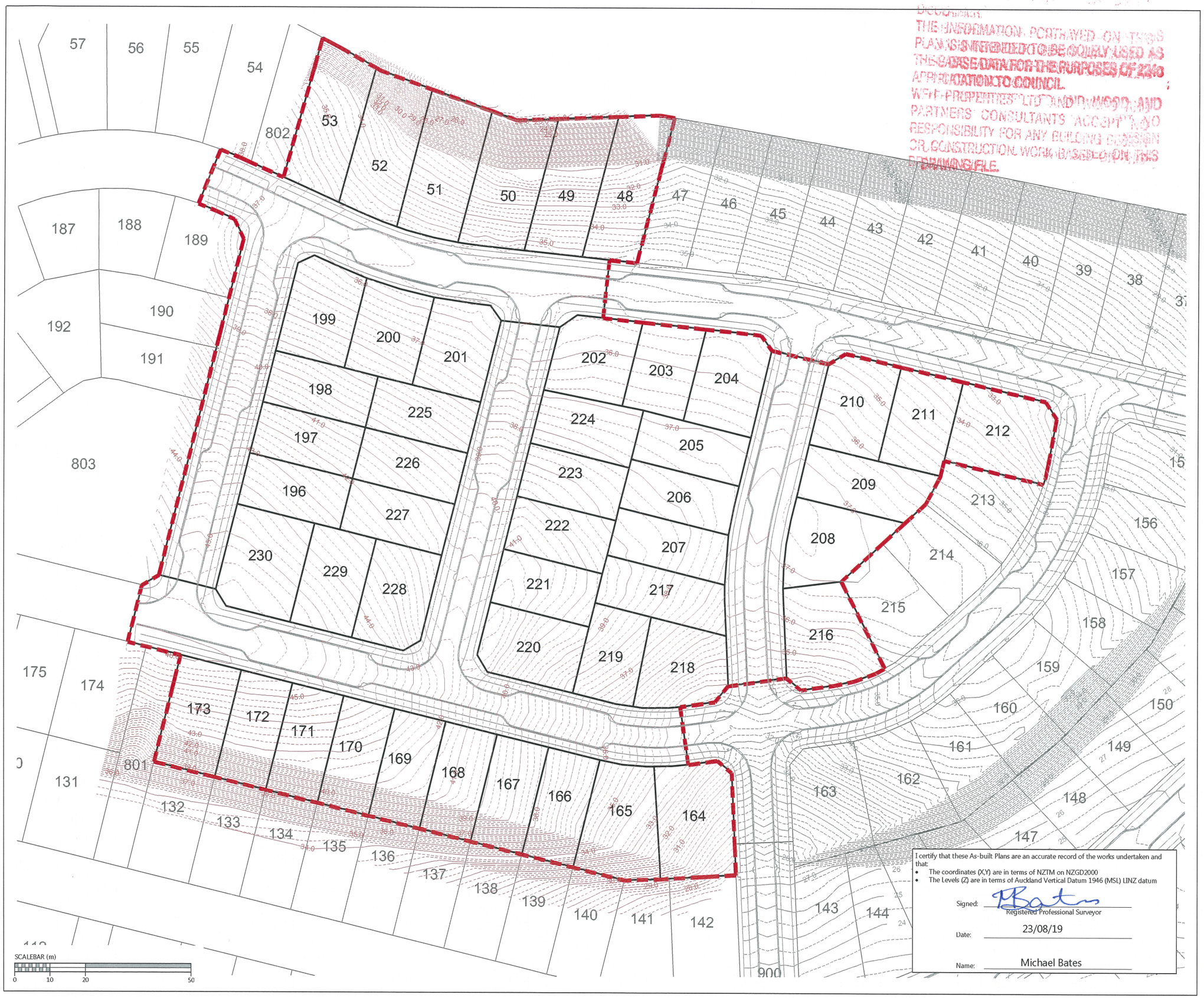



LOCATION PLAN
NOT TO SCALE

MILLWATER

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.
Urban Designers. Architects.




DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPROBATION 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.

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: 23/08/19

Name: Michael Bates

WOODS
EST.1970

## NOTES

1. NEW CONTOURS ARE AT 0.25m INTERVALS

## LEGEND

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

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

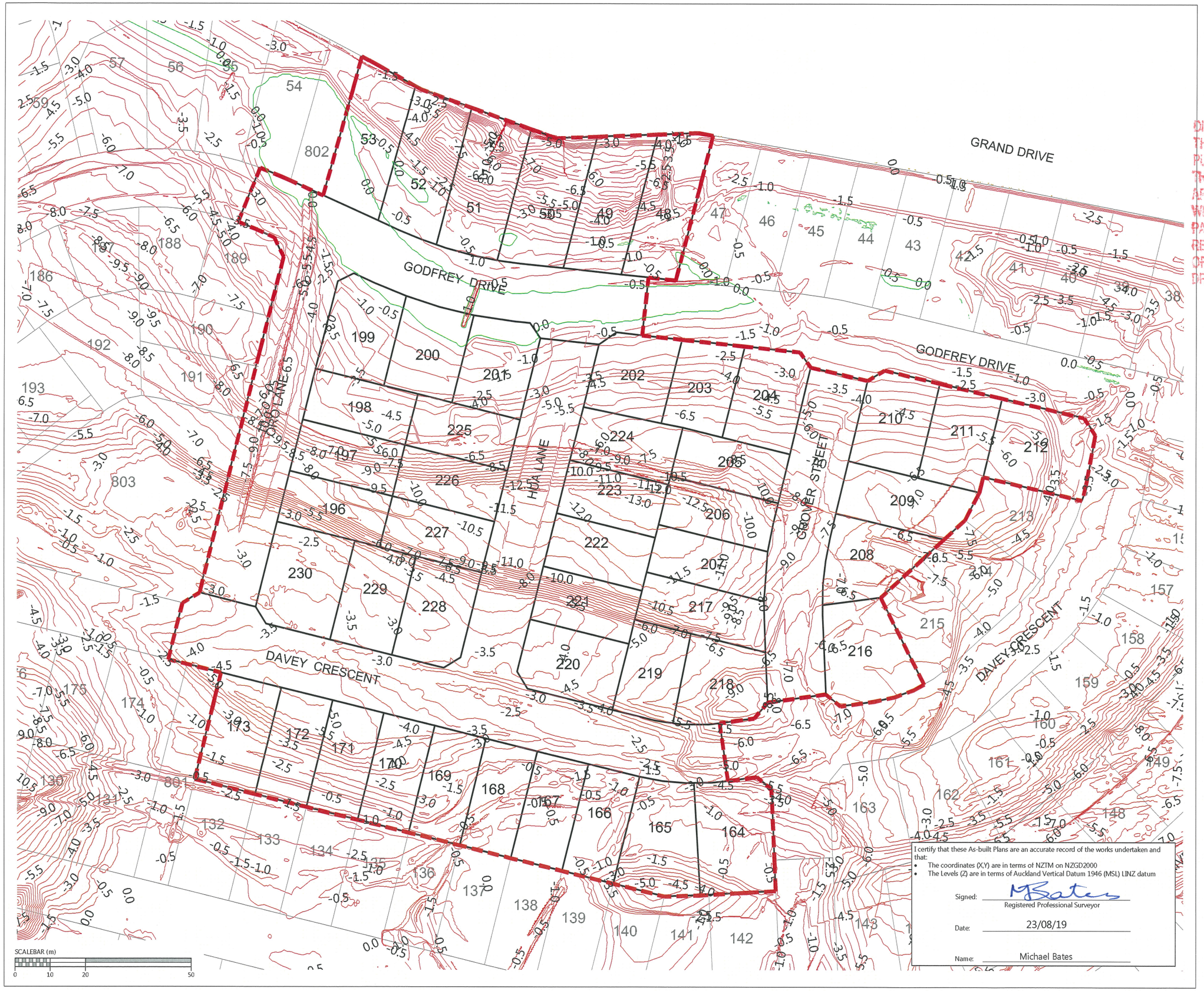
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

FINAL CONTOUR
ASBUILT PLAN
SHEET 1 OF 1

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-100-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5\STAGE 4\DRAWINGS\SURVVAS-BUILT\4 & 3B\37504_P5_04_03B_FINAL CONTOURS.DWG




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: M Bates
Registered Professional Surveyor

Date: 23/08/19

Name: Michael Bates

WOODS
EST.1970

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.

## NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

## LEGEND

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

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

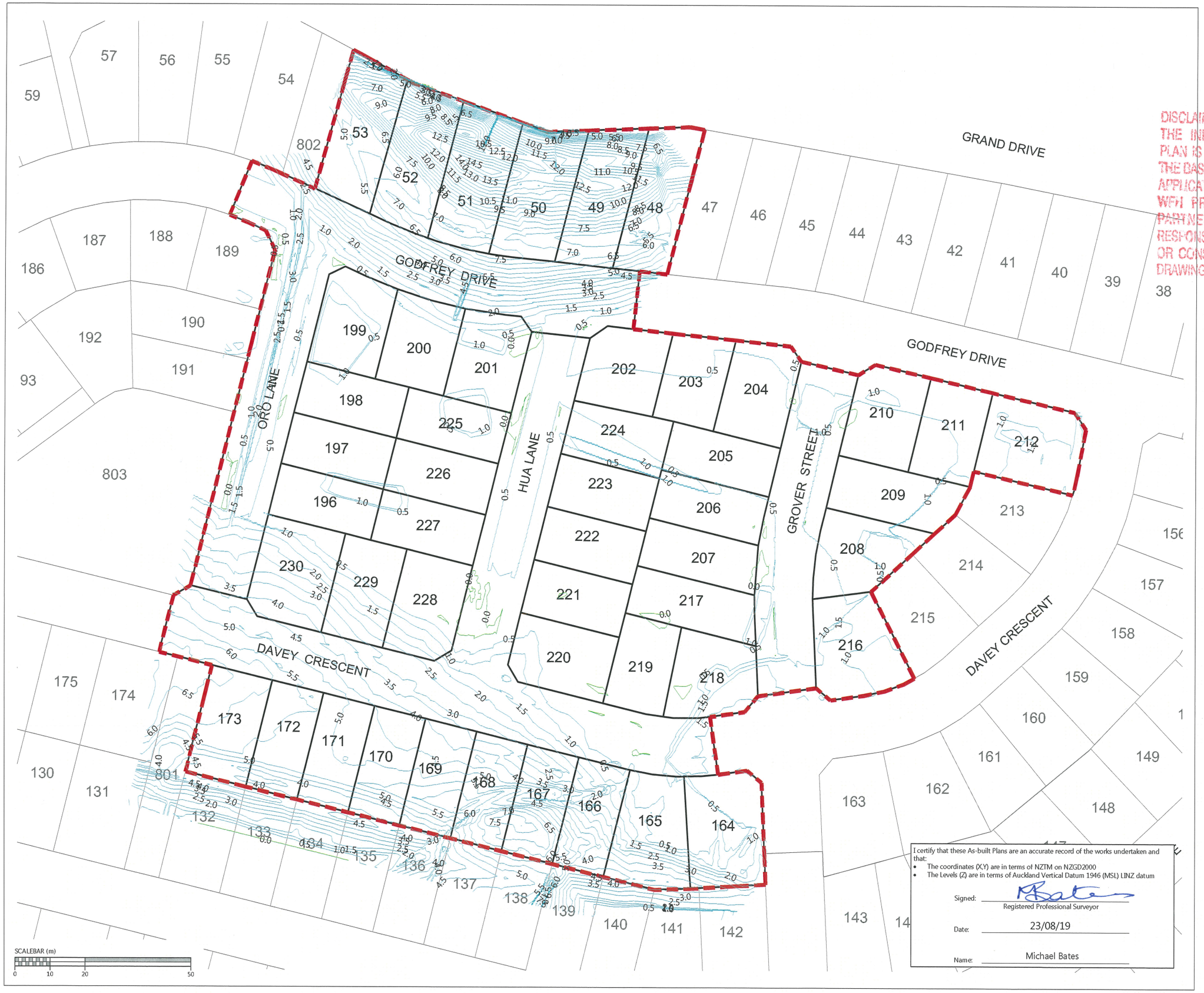
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## CUT & FILL AS-BUILT ORIGINAL TO LOWEST SURFACE

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-110-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_CUT FILL CONTOURS.DWG




WOODS
Est.1970

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.

## NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

## LEGEND

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

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: 23/08/19

Name: Michael Bates

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

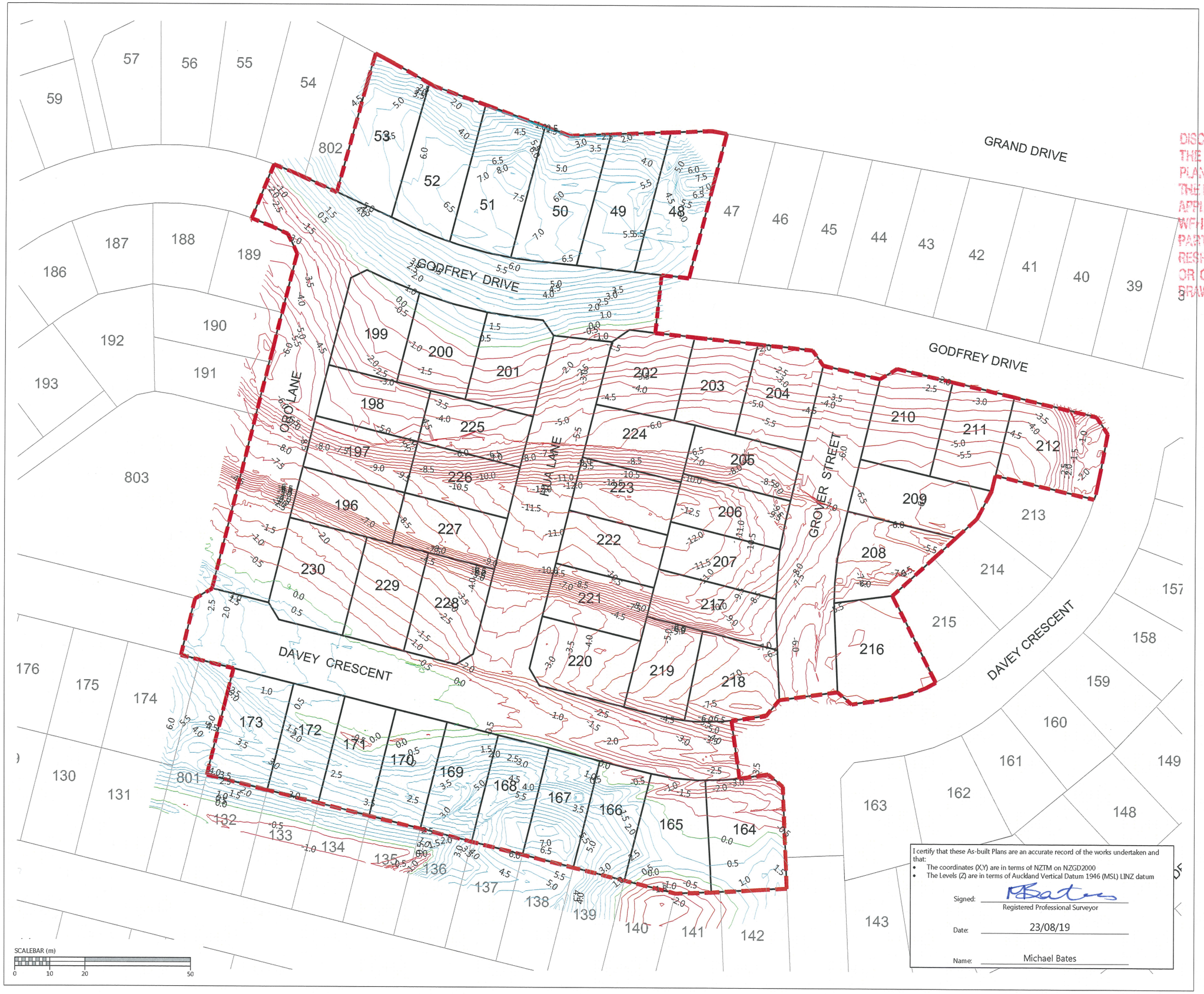
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## CUT & FILL AS-BUILT LOWEST TO FINAL SURFACE

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-111-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_CUT FILL CONTOURS.DWG




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: 23/08/19

Name: Michael Bates

WOODS
EST.1970

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.

## NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

## LEGEND

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

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

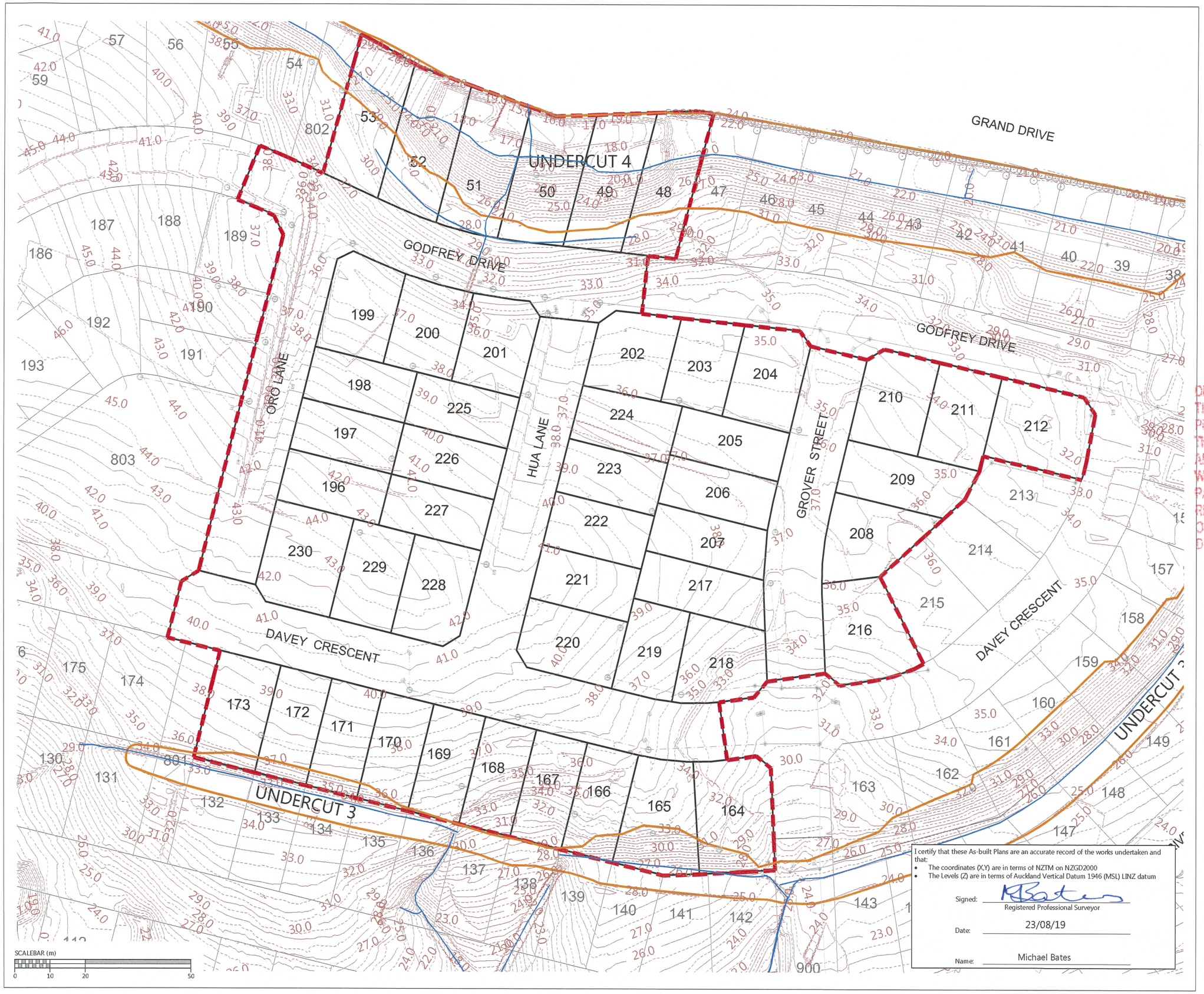
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## CUT & FILL AS-BUILT ORIGINAL TO FINAL SURFACE

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-112-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT\4 & 3B\37504_P5_04_03B_CUT FILL CONTOURS.DWG




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: 23/08/19

Name: Michael Bates

WOODS
EST.1970

## NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

## LEGEND

- NOVACOIL SUBSOIL DRAINS
- UPVC SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## SHEAR KEY, UNDERCUT AND SUBSOIL DRAIN ASBUILT SHEET 1 OF 1

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-120-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVVAS-BUILT\4 & 3B\37504_P5_04_03B_SK UC & SUBSOIL.DWG

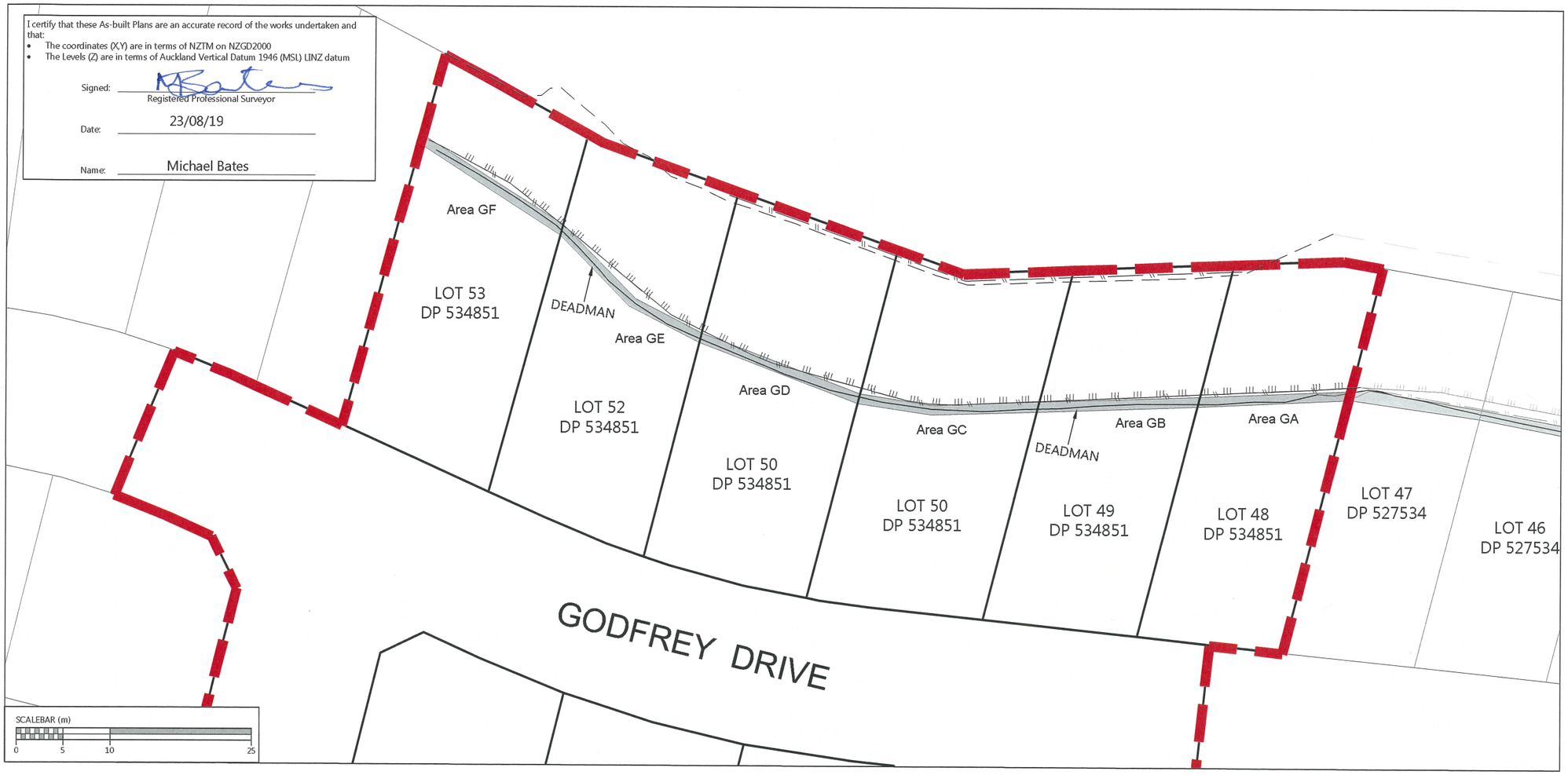
I certify that these As-built Plans are an accurate record of the works undertaken and that:

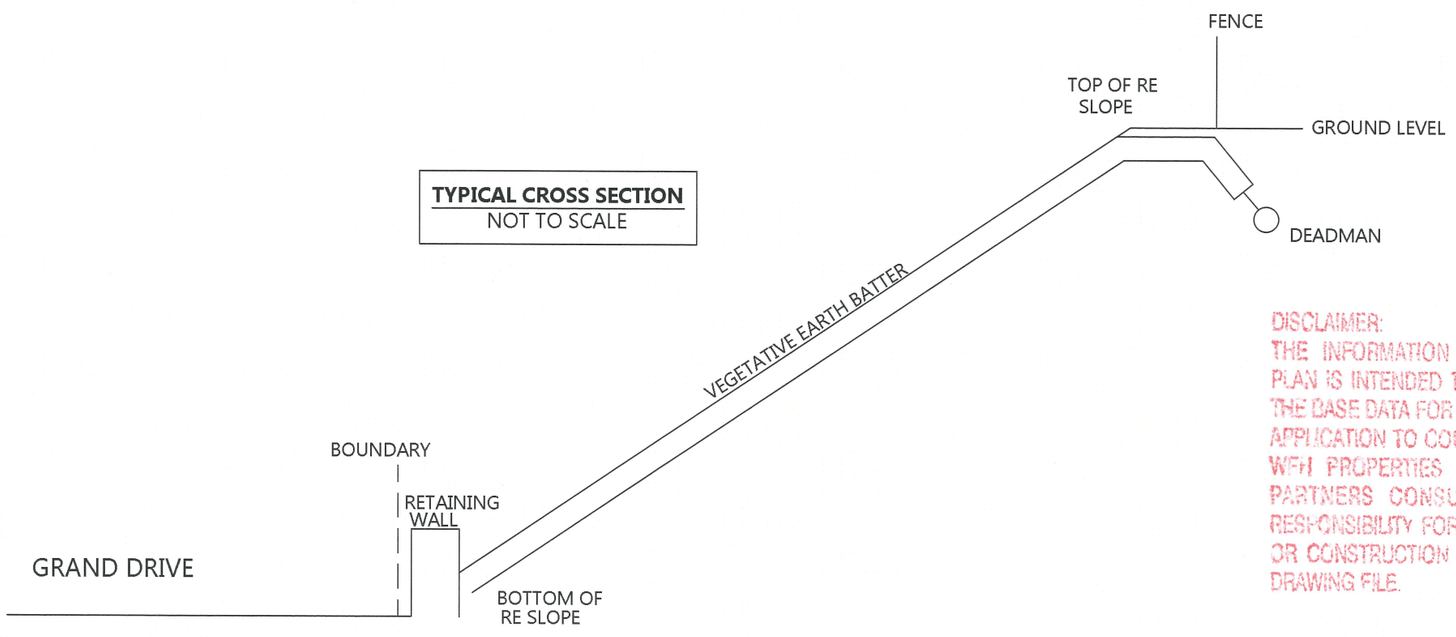
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____ Registered Professional Surveyor

Date: 23/08/19

Name: Michael Bates




**TYPICAL CROSS SECTION**
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.

WOODS
EST.1970

## LEGEND:

- BOUNDARY
- DEADMAN COVENANT AREA
- TOP OF BANK
- FENCE
- STAGE EXTENTS

NOTES:

1. DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.
2. THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.
3. TITLE DIMENSIONS ARE SOURCED FROM DP 534851 - SEE CRF FOR CONFIRMATION OF DIMENSIONS.

DISCLAIMER:
THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | CONTRACTOR | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

DEADMAN COVENENT DIAGRAM
SHEET 1 OF 2

| | | |
|---|---|---|
| STATUS | INFORMATION | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-123-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT\4 & 3B\37504_P5_04_03B_DEADMAN.DWG

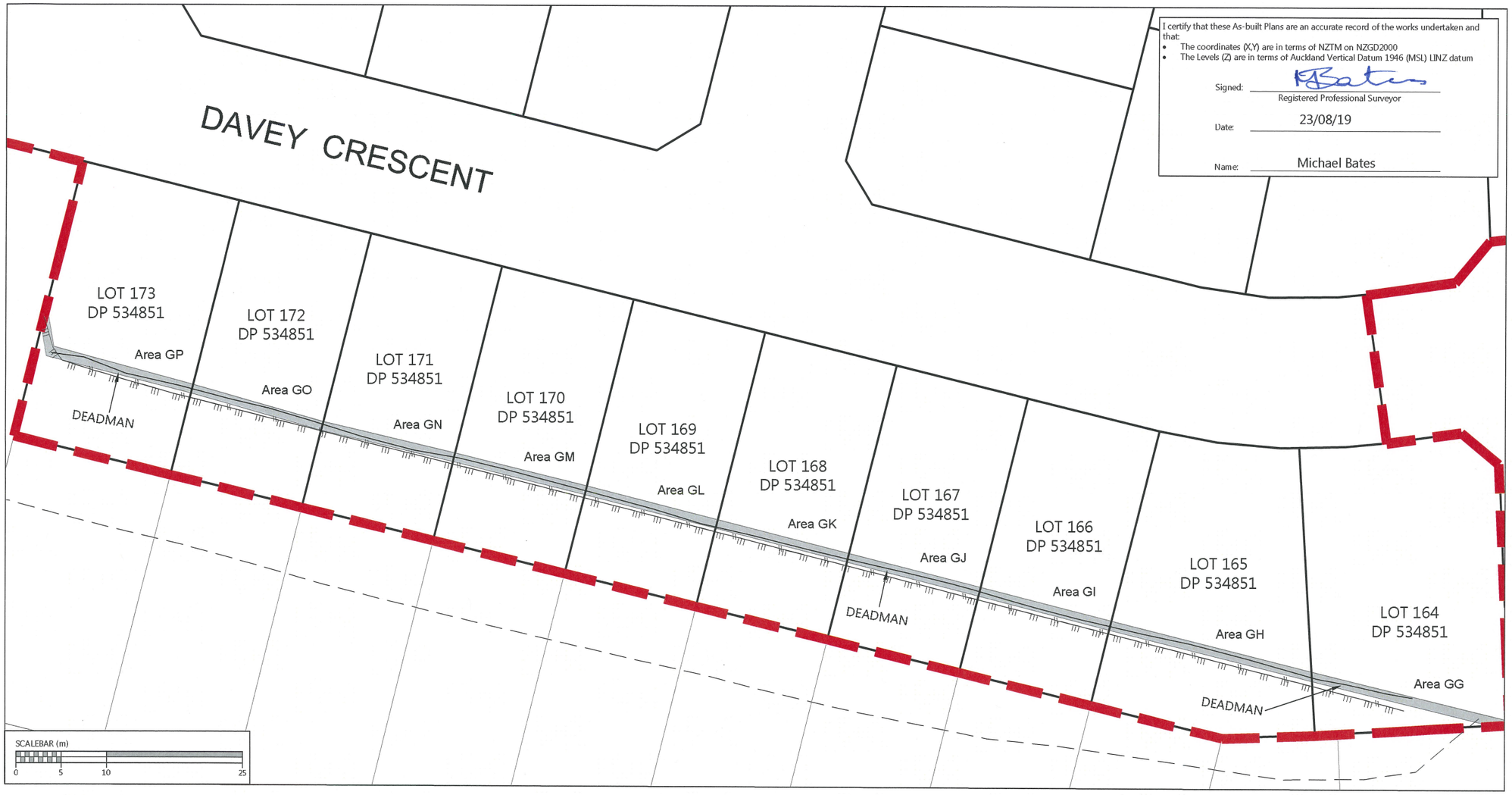
I certify that these As-built Plans are an accurate record of the works undertaken and that:

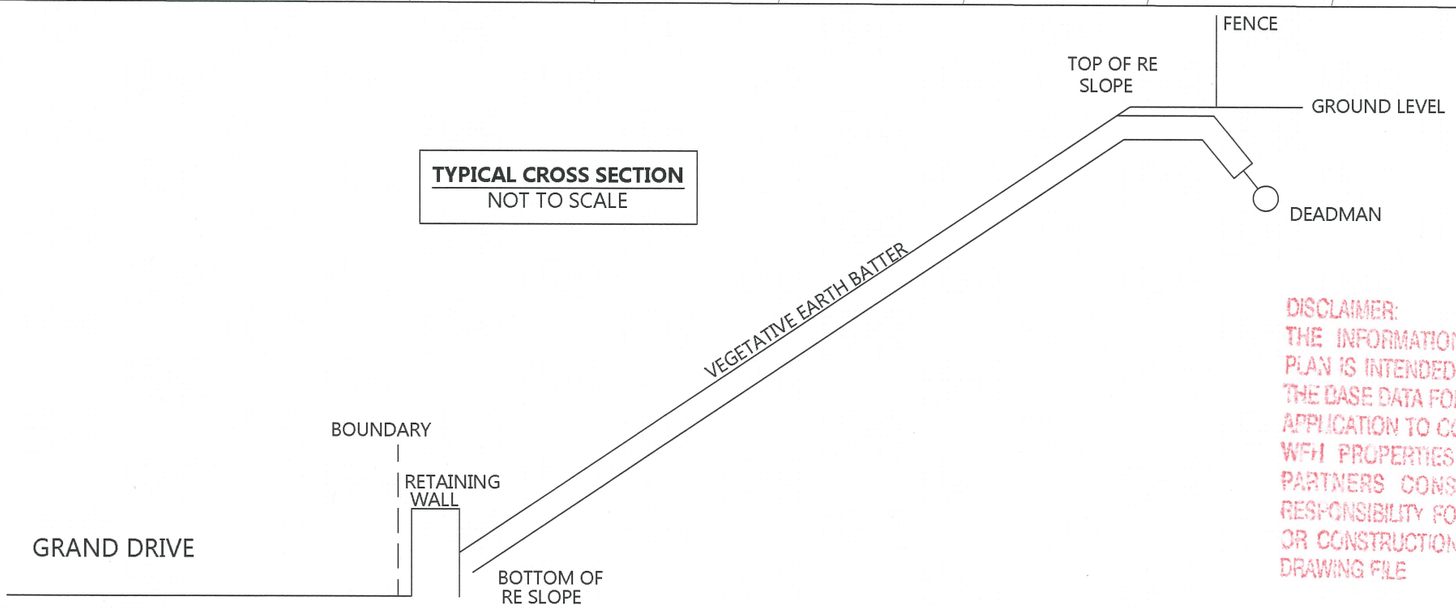
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____ Registered Professional Surveyor

Date: 23/08/19

Name: Michael Bates




**TYPICAL CROSS SECTION**
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

WOODS
EST.1970

## LEGEND:

- BOUNDARY
- DEADMAN COVENANT AREA
- TOP OF BANK
- FENCE
- STAGE EXTENTS

NOTES:

1. DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.
2. THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.
3. TITLE DIMENSIONS ARE SOURCED FROM DP 534851 - SEE CRF FOR CONFIRMATION OF DIMENSIONS.

DISCLAIMER:
THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | CONTRACTOR | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

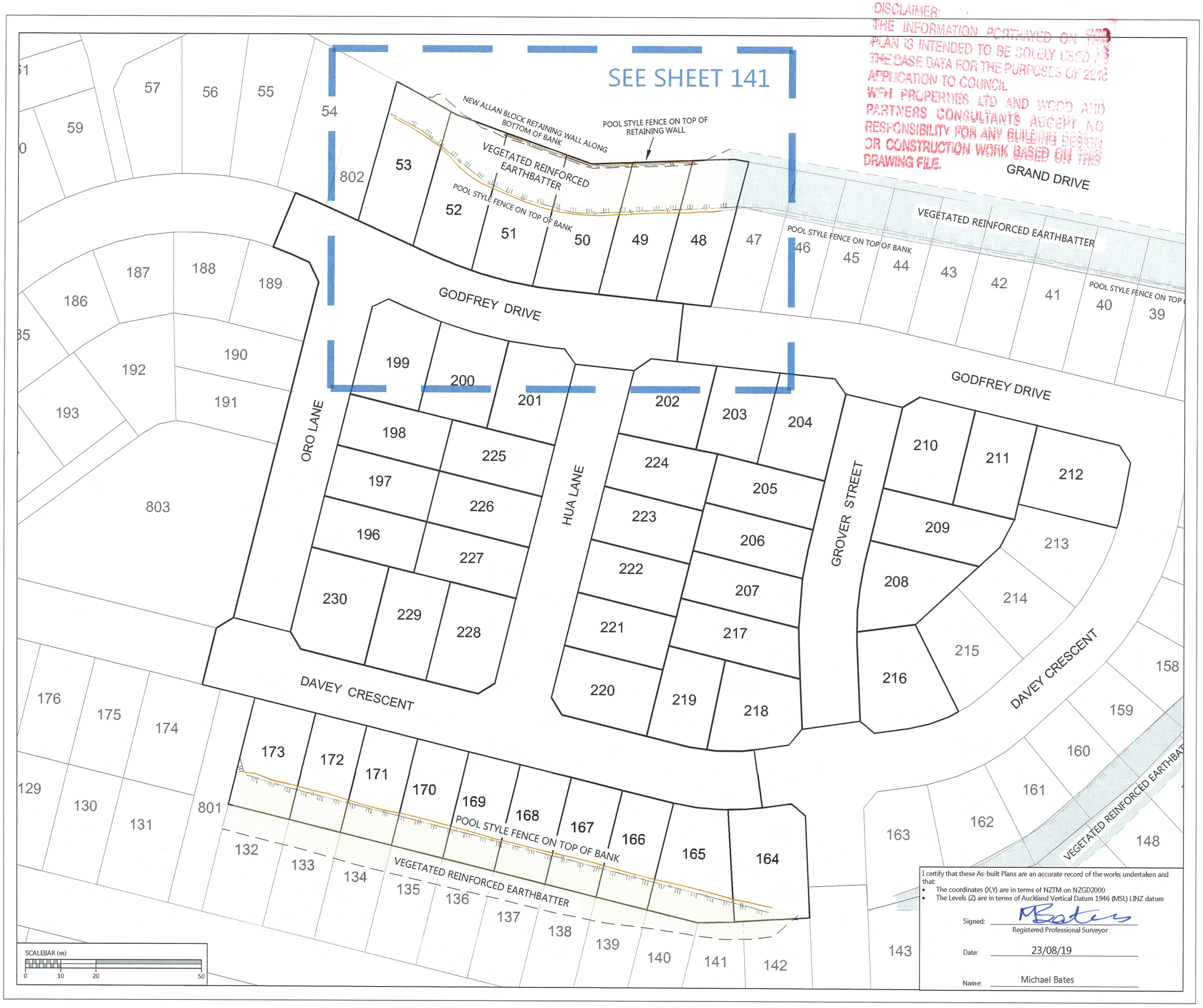
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

DEADMAN COVENENT DIAGRAM
SHEET 2 OF 2

| | | |
|---|---|---|
| STATUS | INFORMATION | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-124-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVVAS-BUILT\4 & 3B\37504_P5_04_03B_DEADMAN.DWG




DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 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.

WOODS
Est.1970

## LEGEND:

- BOUNDARY
- DEADMAN
- SLOPE STABILISATION DEVICE
- TOP OF BANK
- BOTTOM OF BANK
- FENCE
- TOP OF WALL
- BOTTOM OF WALL

*NOTES:*

1. *DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.*
2. *THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.*

*DISCLAIMER:*
*THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.*

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | CONTRACTOR | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

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: MBates
Registered Professional Surveyor

Date: 23/08/19

Name: Michael Bates

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## REINFORCED EARTH BATTER & SLOPE STABILISATION PLAN SHEET 1 OF 2

| | | |
|---|---|---|
| STATUS | INFORMATION | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-140-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT 4 & 3B\37504_P5_04_03B_RE SLOPE.DWG

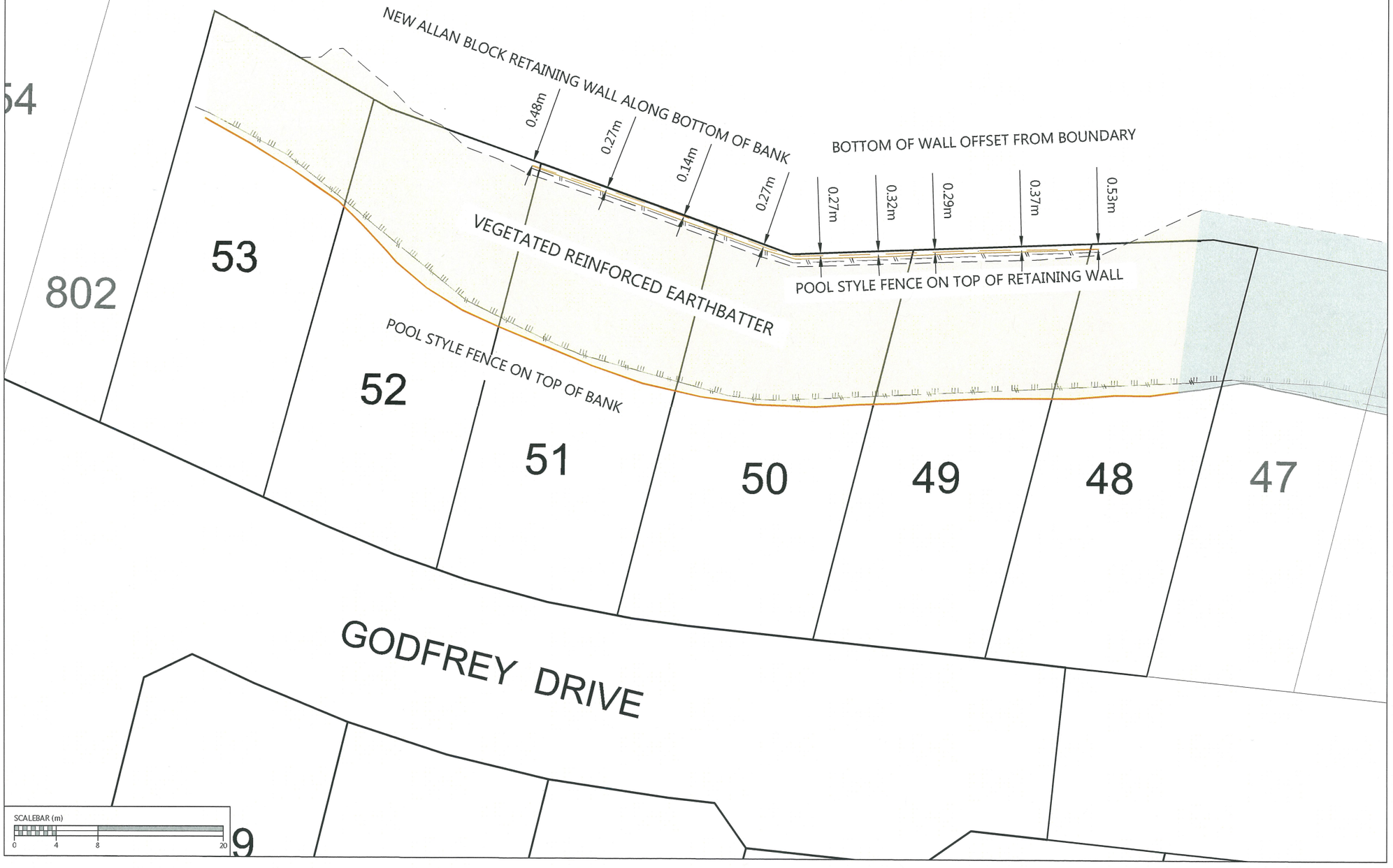
DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224c APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE

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: 23/08/19

Name: Michael Bates




WOODS
EST.1970

## LEGEND:

- BOUNDARY
- DEADMAN
- SLOPE STABILISATION DEVICE
- TOP OF BANK
- BOTTOM OF BANK
- FENCE
- TOP OF WALL
- BOTTOM OF WALL

*NOTES:*
1. *DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.*
2. *THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.*

*DISCLAIMER:*
*THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.*

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 23/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | CONTRACTOR | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | T&T | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

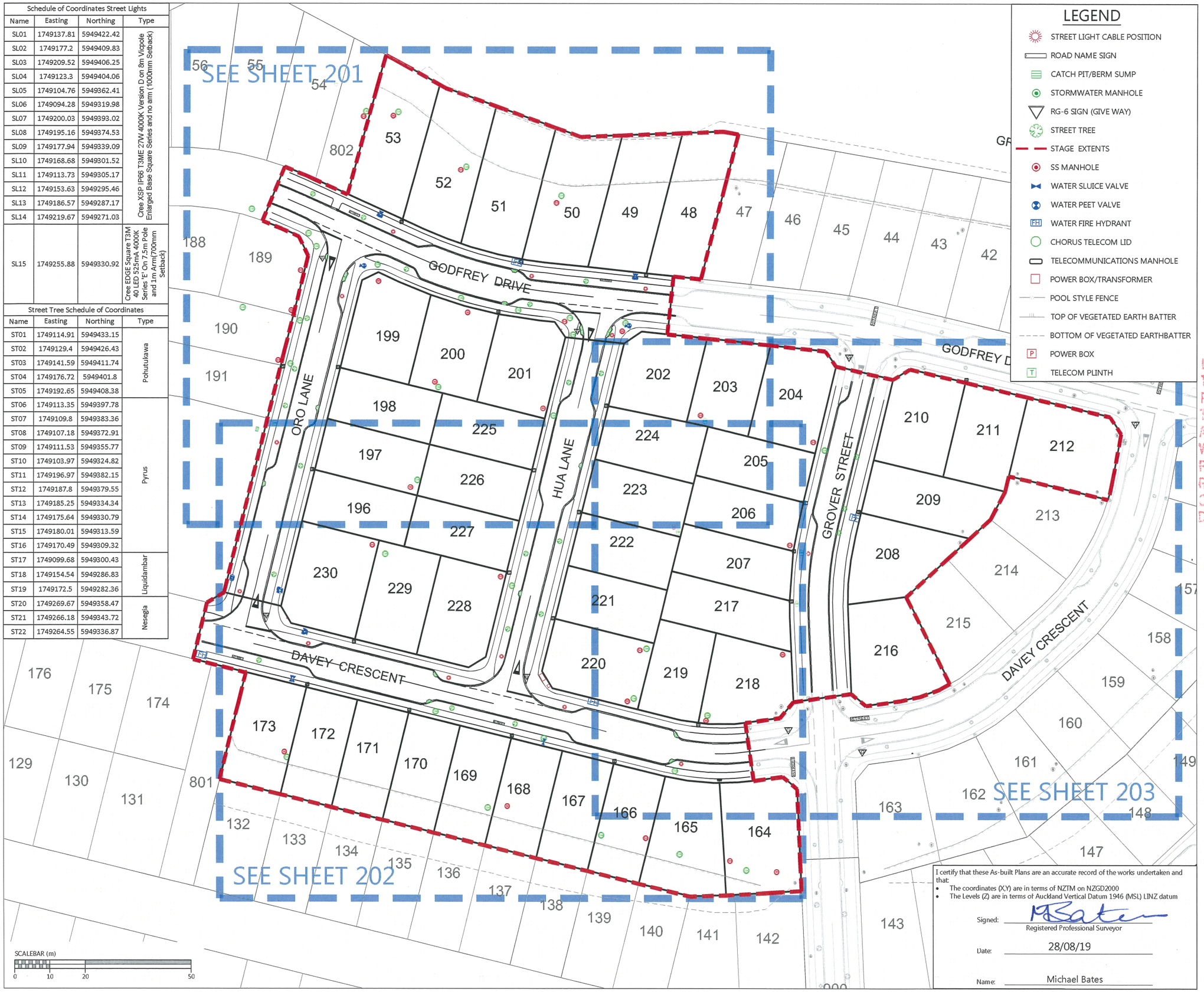
## REINFORCED EARTH BATTER & SLOPE STABILISATION PLAN SHEET 2 OF 2

| | | |
|---|---|---|
| STATUS | INFORMATION | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-141-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVY\AS-BUILT\4 & 3B\37504_P5_04_03B_RE SLOPE.DWG

| Schedule of Coordinates Street Lights | | | |
|---|---|---|---|
| Name | Easting | Northing | Type |
| SL01 | 1749137.81 | 5949422.42 | Cree XSP IP66 T3ME 27W 4000K Version D on 8m Vicpole Enlarged Base Square Series and no arm (1000mm Setback) |
| SL02 | 1749177.2 | 5949409.83 | |
| SL03 | 1749209.52 | 5949406.25 | |
| SL04 | 1749123.3 | 5949404.06 | |
| SL05 | 1749104.76 | 5949362.41 | |
| SL06 | 1749094.28 | 5949319.98 | |
| SL07 | 1749200.03 | 5949393.02 | |
| SL08 | 1749195.16 | 5949374.53 | |
| SL09 | 1749177.94 | 5949339.09 | |
| SL10 | 1749168.68 | 5949301.52 | |
| SL11 | 1749113.73 | 5949305.17 | |
| SL12 | 1749153.63 | 5949295.46 | |
| SL13 | 1749186.57 | 5949287.17 | |
| SL14 | 1749219.67 | 5949271.03 | |
| SL15 | 1749255.88 | 5949330.92 | Cree EDGE Square T3M 40 LED 525mA 4000K Series 'E' On 7.5m Pole and 1m Arm(700mm Setback) |

| Street Tree Schedule of Coordinates | | | |
|---|---|---|---|
| Name | Easting | Northing | Type |
| ST01 | 1749114.91 | 5949433.15 | Pohutukawa |
| ST02 | 1749129.4 | 5949426.43 | |
| ST03 | 1749141.59 | 5949411.74 | |
| ST04 | 1749176.72 | 5949401.8 | |
| ST05 | 1749192.65 | 5949408.38 | |
| ST06 | 1749113.35 | 5949397.78 | Pyrus |
| ST07 | 1749109.8 | 5949383.36 | |
| ST08 | 1749107.18 | 5949372.91 | |
| ST09 | 1749111.53 | 5949355.77 | |
| ST10 | 1749103.97 | 5949324.82 | |
| ST11 | 1749196.97 | 5949382.15 | |
| ST12 | 1749187.8 | 5949379.55 | |
| ST13 | 1749185.25 | 5949334.34 | |
| ST14 | 1749175.64 | 5949330.79 | |
| ST15 | 1749180.01 | 5949313.59 | |
| ST16 | 1749170.49 | 5949309.32 | |
| ST17 | 1749099.68 | 5949300.43 | Liquidambar |
| ST18 | 1749154.54 | 5949286.83 | |
| ST19 | 1749172.5 | 5949282.36 | |
| ST20 | 1749269.67 | 5949358.47 | Nesegia |
| ST21 | 1749266.18 | 5949343.72 | |
| ST22 | 1749264.55 | 5949336.87 | |




## LEGEND

- STREET LIGHT CABLE POSITION
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- CHORUS TELECOM LID
- TELECOMMUNICATIONS MANHOLE
- POWER BOX/TRANSFORMER
- POOL STYLE FENCE
- TOP OF VEGETATED EARTH BATTER
- BOTTOM OF VEGETATED EARTHBATTER
- POWER BOX
- TELECOM PLINTH

WOODS
EST.1970

## 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 ASHPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS 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.

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224B 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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

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: MBates
Registered Professional Surveyor

Date: 28/08/19

Name: Michael Bates

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

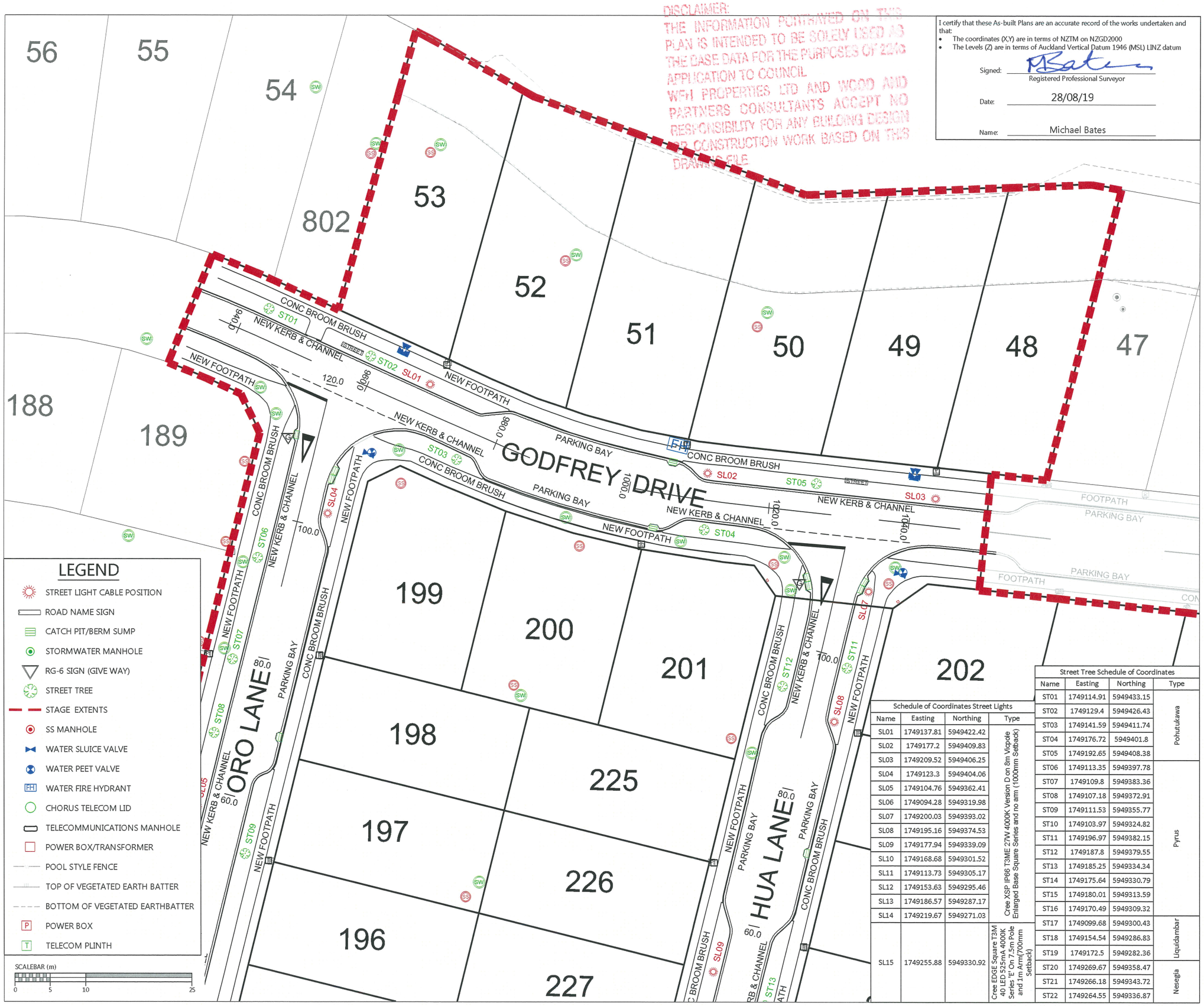
N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5
# STAGES 4 & 3B
## ROADING AS-BUILT
## OVERALL LAYOUT
## SHEET 1 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-200-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_ROADING PLANS.DWG




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: 28/08/19

Name: Michael Bates

WOODS
EST.1970

## 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 ASHPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS 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.

## LEGEND

- STREET LIGHT CABLE POSITION
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- CHORUS TELECOM LID
- TELECOMMUNICATIONS MANHOLE
- POWER BOX/TRANSFORMER
- POOL STYLE FENCE
- TOP OF VEGETATED EARTH BATTER
- BOTTOM OF VEGETATED EARTHBATTER
- POWER BOX
- TELECOM PLINTH

Schedule of Coordinates Street Lights

| Name | Easting | Northing | Type |
|---|---|---|---|
| SL01 | 1749137.81 | 5949422.42 | Cree XSP IP66 T3ME 27W 4000K Version D on 8m Vicpole Enlarged Base Square Series and no arm (1000mm Setback) |
| SL02 | 1749177.2 | 5949409.83 | |
| SL03 | 1749209.52 | 5949406.25 | |
| SL04 | 1749123.3 | 5949404.06 | |
| SL05 | 1749104.76 | 5949362.41 | |
| SL06 | 1749094.28 | 5949319.98 | |
| SL07 | 1749200.03 | 5949393.02 | |
| SL08 | 1749195.16 | 5949374.53 | |
| SL09 | 1749177.94 | 5949339.09 | |
| SL10 | 1749168.68 | 5949301.52 | |
| SL11 | 1749113.73 | 5949305.17 | |
| SL12 | 1749153.63 | 5949295.46 | |
| SL13 | 1749186.57 | 5949287.17 | |
| SL14 | 1749219.67 | 5949271.03 | |
| SL15 | 1749255.88 | 5949330.92 | Cree EDGE Square T3M 40 LED 525mA 4000K Series 'E' On 7.5m Pole and 1m Arm(700mm Setback) |

Street Tree Schedule of Coordinates

| Name | Easting | Northing | Type |
|---|---|---|---|
| ST01 | 1749114.91 | 5949433.15 | Pohutukawa |
| ST02 | 1749129.4 | 5949426.43 | |
| ST03 | 1749141.59 | 5949411.74 | |
| ST04 | 1749176.72 | 5949401.8 | |
| ST05 | 1749192.65 | 5949408.38 | |
| ST06 | 1749113.35 | 5949397.78 | Pyrus |
| ST07 | 1749109.8 | 5949383.36 | |
| ST08 | 1749107.18 | 5949372.91 | |
| ST09 | 1749111.53 | 5949355.77 | |
| ST10 | 1749103.97 | 5949324.82 | |
| ST11 | 1749196.97 | 5949382.15 | |
| ST12 | 1749187.8 | 5949379.55 | |
| ST13 | 1749185.25 | 5949334.34 | |
| ST14 | 1749175.64 | 5949330.79 | |
| ST15 | 1749180.01 | 5949313.59 | |
| ST16 | 1749170.49 | 5949309.32 | |
| ST17 | 1749099.68 | 5949300.43 | Liquidambar |
| ST18 | 1749154.54 | 5949286.83 | |
| ST19 | 1749172.5 | 5949282.36 | |
| ST20 | 1749269.67 | 5949358.47 | Nesegla |
| ST21 | 1749266.18 | 5949343.72 | |
| ST22 | 1749264.55 | 5949336.87 | |

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

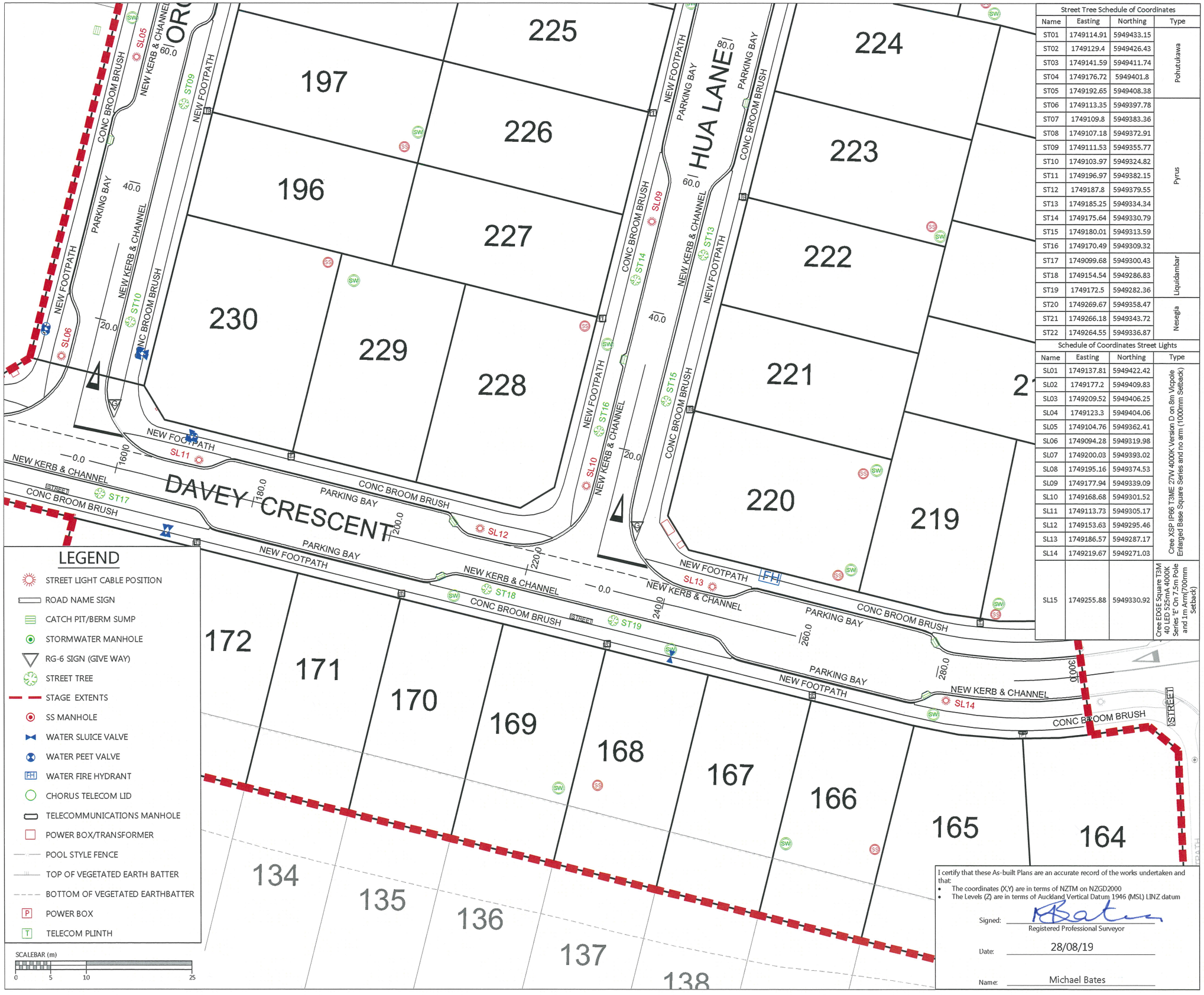
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## ROADING AS-BUILT SHEET 2 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-201-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_ROADING PLANS.DWG




## LEGEND

- STREET LIGHT CABLE POSITION
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- CHORUS TELECOM LID
- TELECOMMUNICATIONS MANHOLE
- POWER BOX/TRANSFORMER
- POOL STYLE FENCE
- TOP OF VEGETATED EARTH BATTER
- BOTTOM OF VEGETATED EARTHBATTER
- POWER BOX
- TELECOM PLINTH

SCALEBAR (m)

0 5 10 25

| Street Tree Schedule of Coordinates | | | |
|---|---|---|---|
| Name | Easting | Northing | Type |
| ST01 | 1749114.91 | 5949433.15 | Pohutukawa |
| ST02 | 1749129.4 | 5949426.43 | |
| ST03 | 1749141.59 | 5949411.74 | |
| ST04 | 1749176.72 | 5949401.8 | |
| ST05 | 1749192.65 | 5949408.38 | |
| ST06 | 1749113.35 | 5949397.78 | Pyrus |
| ST07 | 1749109.8 | 5949383.36 | |
| ST08 | 1749107.18 | 5949372.91 | |
| ST09 | 1749111.53 | 5949355.77 | |
| ST10 | 1749103.97 | 5949324.82 | |
| ST11 | 1749196.97 | 5949382.15 | |
| ST12 | 1749187.8 | 5949379.55 | |
| ST13 | 1749185.25 | 5949334.34 | |
| ST14 | 1749175.64 | 5949330.79 | |
| ST15 | 1749180.01 | 5949313.59 | |
| ST16 | 1749170.49 | 5949309.32 | |
| ST17 | 1749099.68 | 5949300.43 | Liquidambar |
| ST18 | 1749154.54 | 5949286.83 | |
| ST19 | 1749172.5 | 5949282.36 | |
| ST20 | 1749269.67 | 5949358.47 | Nesegia |
| ST21 | 1749266.18 | 5949343.72 | |
| ST22 | 1749264.55 | 5949336.87 | |

| Schedule of Coordinates Street Lights | | | |
|---|---|---|---|
| Name | Easting | Northing | Type |
| SL01 | 1749137.81 | 5949422.42 | Cree XSP IP66 T3ME 27W 4000K Version D on 8m Vicpole Enlarged Base Square Series and no arm (1000mm Setback) |
| SL02 | 1749177.2 | 5949409.83 | |
| SL03 | 1749209.52 | 5949406.25 | |
| SL04 | 1749123.3 | 5949404.06 | |
| SL05 | 1749104.76 | 5949362.41 | |
| SL06 | 1749094.28 | 5949319.98 | |
| SL07 | 1749200.03 | 5949393.02 | |
| SL08 | 1749195.16 | 5949374.53 | |
| SL09 | 1749177.94 | 5949339.09 | |
| SL10 | 1749168.68 | 5949301.52 | |
| SL11 | 1749113.73 | 5949305.17 | |
| SL12 | 1749153.63 | 5949295.46 | |
| SL13 | 1749186.57 | 5949287.17 | |
| SL14 | 1749219.67 | 5949271.03 | |
| SL15 | 1749255.88 | 5949330.92 | Cree EDGE Square T3M 40 LED 525mA 4000K Series 'E' On 7.5m Pole and 1m Arm(700mm Setback) |

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: 28/08/19

Name: Michael Bates

WOODS Est.1970

## 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 ASHPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS 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.

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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

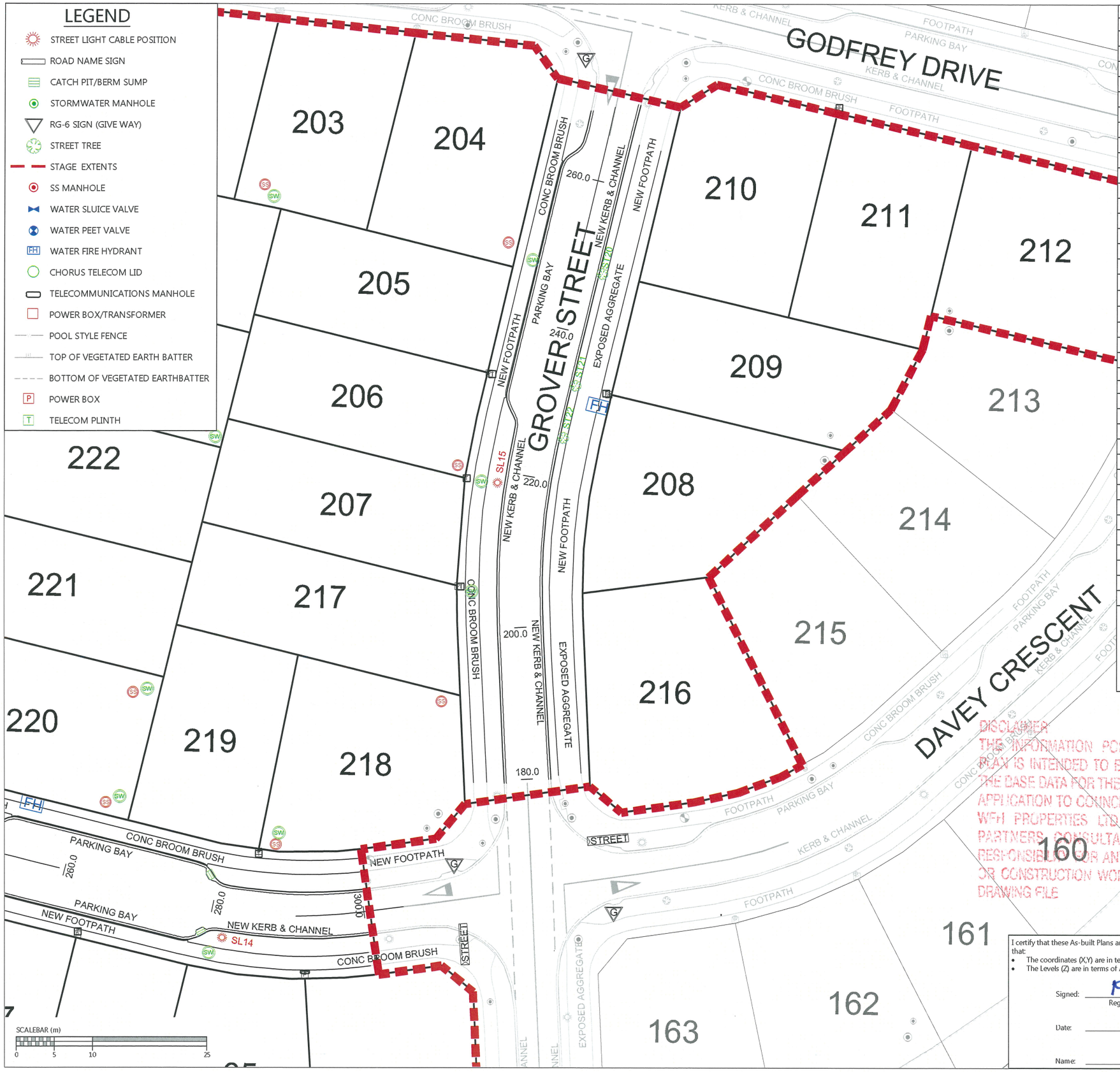
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## ROADING AS-BUILT SHEET 3 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-202-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT\4 & 3B\37504_P5_04_03B_ROADING PLANS.DWG




DISCLAIMER
THE INFORMATION CONTAINED ON THIS PLAN IS INTENDED TO BE 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: 28/08/19

Name: Michael Bates

Street Tree Schedule of Coordinates

| Name | Easting | Northing | Type |
|---|---|---|---|
| ST01 | 1749114.91 | 5949433.15 | Pohutukawa |
| ST02 | 1749129.4 | 5949426.43 | |
| ST03 | 1749141.59 | 5949411.74 | |
| ST04 | 1749176.72 | 5949401.8 | |
| ST05 | 1749192.65 | 5949408.38 | |
| ST06 | 1749113.35 | 5949397.78 | Pyrus |
| ST07 | 1749109.8 | 5949383.36 | |
| ST08 | 1749107.18 | 5949372.91 | |
| ST09 | 1749111.53 | 5949355.77 | |
| ST10 | 1749103.97 | 5949324.82 | |
| ST11 | 1749196.97 | 5949382.15 | |
| ST12 | 1749187.8 | 5949379.55 | |
| ST13 | 1749185.25 | 5949334.34 | |
| ST14 | 1749175.64 | 5949330.79 | |
| ST15 | 1749180.01 | 5949313.59 | |
| ST16 | 1749170.49 | 5949309.32 | |
| ST17 | 1749099.68 | 5949300.43 | Liquidambar |
| ST18 | 1749154.54 | 5949286.83 | |
| ST19 | 1749172.5 | 5949282.36 | |
| ST20 | 1749269.67 | 5949358.47 | Nesegia |
| ST21 | 1749266.18 | 5949343.72 | |
| ST22 | 1749264.55 | 5949336.87 | |

Schedule of Coordinates Street Lights

| Name | Easting | Northing | Type |
|---|---|---|---|
| SL01 | 1749137.81 | 5949422.42 | Cree XSP IP66 T3ME 27W 4000K Version D on 8m Vicpole Enlarged Base Square Series and no arm (1000mm Setback) |
| SL02 | 1749177.2 | 5949409.83 | |
| SL03 | 1749209.52 | 5949406.25 | |
| SL04 | 1749123.3 | 5949404.06 | |
| SL05 | 1749104.76 | 5949362.41 | |
| SL06 | 1749094.28 | 5949319.98 | |
| SL07 | 1749200.03 | 5949393.02 | |
| SL08 | 1749195.16 | 5949374.53 | |
| SL09 | 1749177.94 | 5949339.09 | |
| SL10 | 1749168.68 | 5949301.52 | |
| SL11 | 1749113.73 | 5949305.17 | |
| SL12 | 1749153.63 | 5949295.46 | |
| SL13 | 1749186.57 | 5949287.17 | |
| SL14 | 1749219.67 | 5949271.03 | |
| SL15 | 1749255.88 | 5949330.92 | Cree EDGE Square T3M 40 LED 525mA 4000K Series 'E' On 7.5m Pole and 1m Arm(700mm Setback) |

WOODS
EST.1970

## 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 ASHPHALT CONCRETE 30mm THICK.
4. ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS 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.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

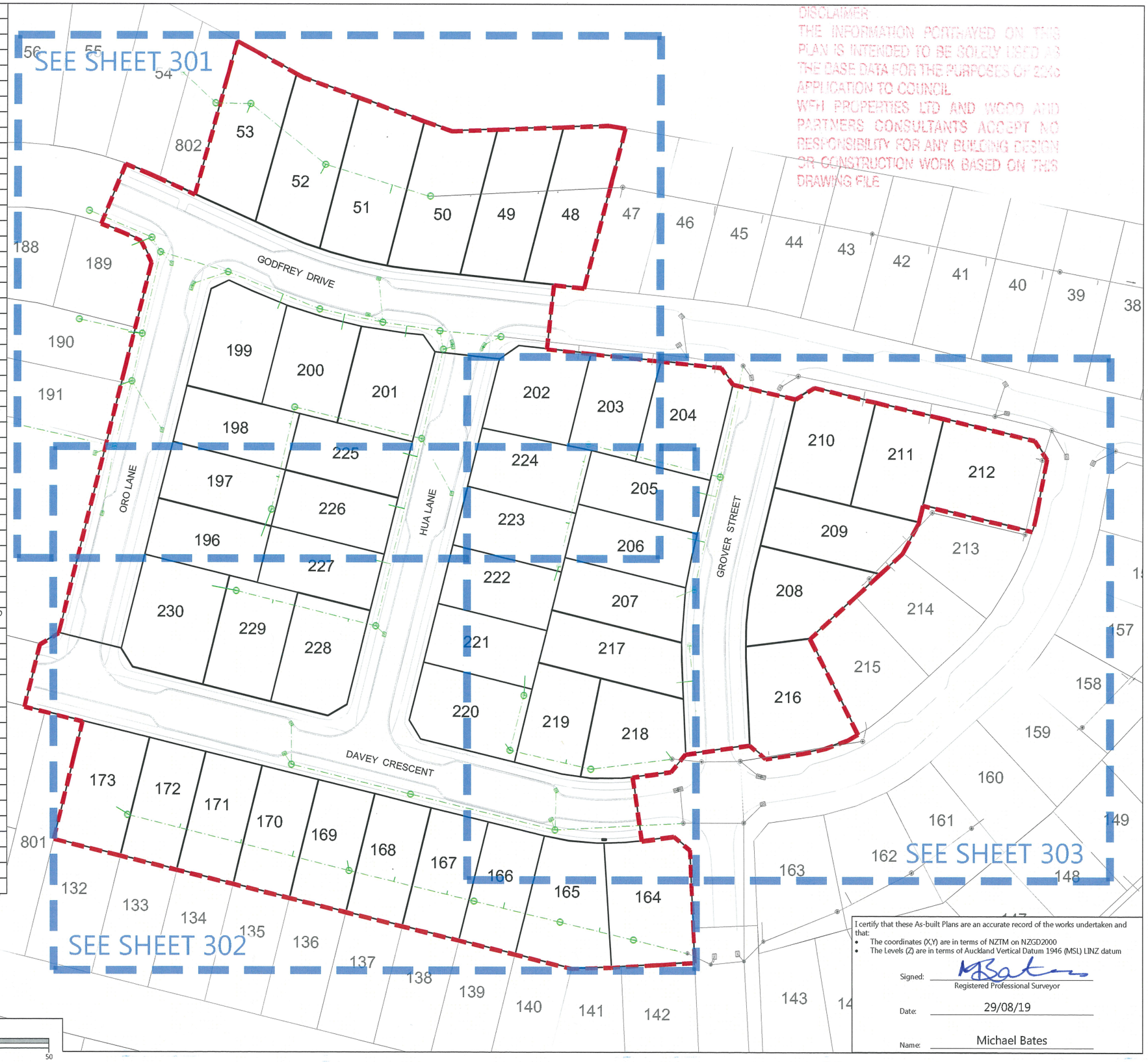
# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

ROADING AS-BUILT
SHEET 4 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-203-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_ROADING PLANS.DWG

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| STORMWATER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749138.20 | 5949454.17 |
| Lot 52 | 1749157.21 | 5949438.47 |
| Lot 51 | 1749175.12 | 5949433.38 |
| Lot 199 | 1749146.22 | 5949403.64 |
| Lot 200 | 1749162.67 | 5949398.26 |
| Lot 201 | 1749179.17 | 5949396.40 |
| Lot 225 | 1749178.74 | 5949366.32 |
| Lot 226 | 1749175.03 | 5949352.93 |
| Lot 227 | 1749171.45 | 5949338.67 |
| Lot 228 | 1749164.52 | 5949322.86 |
| Lot 229 | 1749145.01 | 5949327.55 |
| Lot 230 | 1749129.43 | 5949332.00 |
| Lot 196 | 1749142.14 | 5949344.84 |
| Lot 197 | 1749146.08 | 5949360.24 |
| Lot 198 | 1749149.30 | 5949373.89 |
| Lot 205 | 1749225.00 | 5949364.29 |
| Lot 206 | 1749254.56 | 5949356.32 |
| Lot 207 | 1749252.00 | 5949344.45 |
| Lot 217 | 1749249.22 | 5949329.23 |
| Lot 218 | 1749249.15 | 5949307.09 |
| Lot 219 | 1749246.68 | 5949289.28 |
| Lot 220 | 1749220.90 | 5949287.20 |
| Lot 221 | 1749205.08 | 5949291.19 |
| Lot 222 | 1749210.17 | 5949308.77 |
| Lot 223 | 1749217.70 | 5949333.45 |
| Lot 224 | 1749220.75 | 5949348.41 |
| Lot 173 | 1749104.66 | 5949274.84 |
| Lot 172 | 1749121.21 | 5949270.52 |
| Lot 171 | 1749136.96 | 5949266.48 |
| Lot 170 | 1749150.40 | 5949263.50 |
| Lot 169 | 1749164.25 | 5949261.07 |
| Lot 168 | 1749176.59 | 5949256.91 |
| Lot 167 | 1749190.15 | 5949253.33 |
| Lot 166 | 1749204.81 | 5949250.37 |
| Lot 165 | 1749229.53 | 5949243.91 |
| Lot 164 | 1749248.78 | 5949238.37 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749108.54 | 5949419.91 |
| Lot 190 | 1749107.73 | 5949397.52 |
| Lot 191 | 1749105.20 | 5949384.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749218.45 | 5949433.66 |
| Lot 49 | 1749213.39 | 5949433.44 |
| Lot 50 | 1749195.90 | 5949432.56 |
| Lot 202 | 1749223.67 | 5949390.62 |
| Lot 203 | 1749242.82 | 5949389.18 |
| Lot 204 | 1749258.98 | 5949387.15 |
| Lot 208 | 1749297.07 | 5949332.34 |
| Lot 209 | 1749307.62 | 5949345.12 |
| Lot 210 | 1749297.05 | 5949378.61 |
| Lot 211 | 1749314.31 | 5949374.16 |
| Lot 212 | 1749341.89 | 5949365.17 |
| Lot 216 | 1749272.98 | 5949289.48 |




DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF RMA 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

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: 29/08/19

Name: Michael Bates

WOODS Est.1970

## LEGEND

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

## 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 AND PIPES UNDER THE ROAD AND CARRIDGEWAYS 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 100mmΦ.
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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## STORMWATER AS-BUILT OVERALL LAYOUT SHEET 1 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37503-04-03B-300-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_STORMWATER.DWG

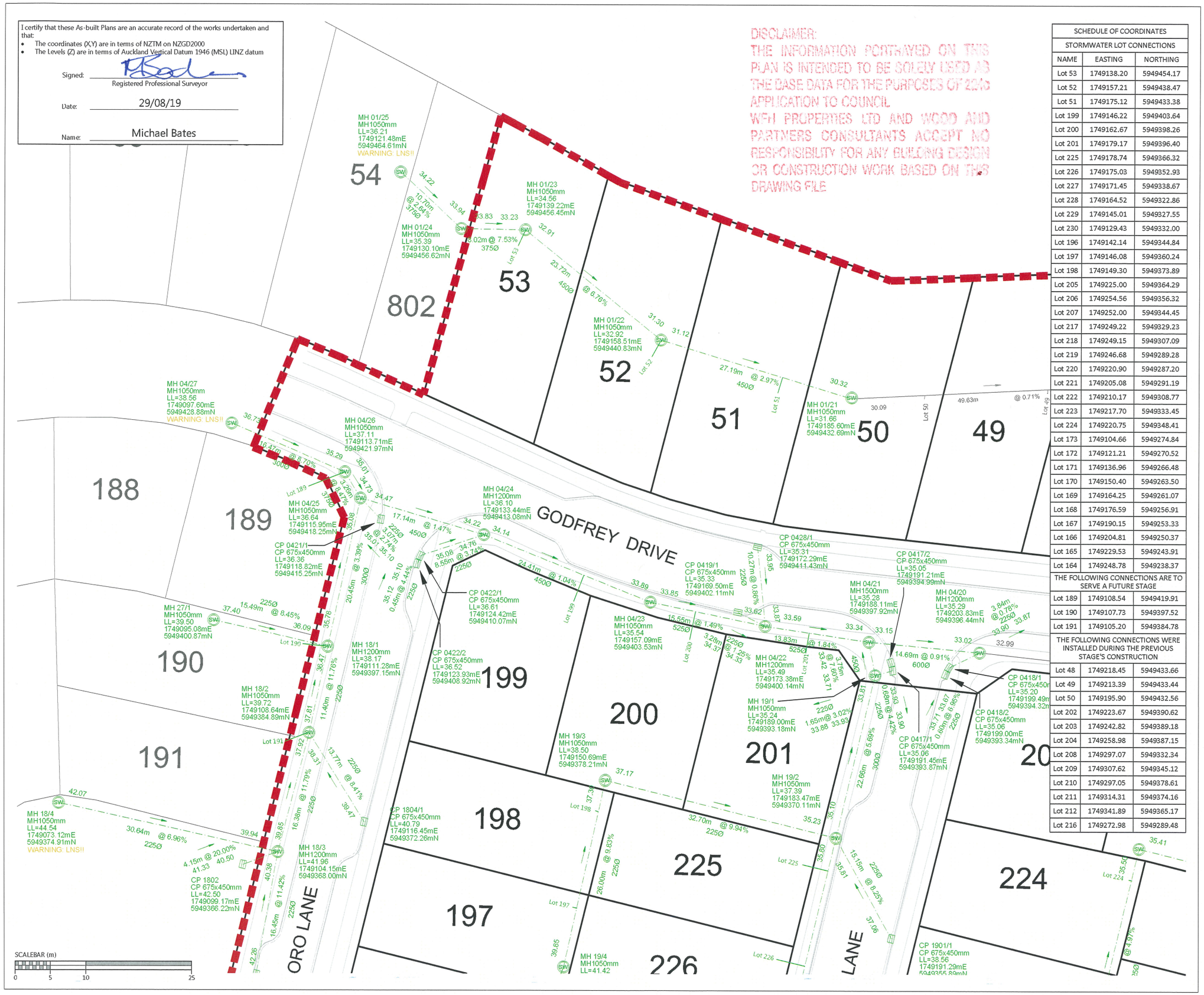
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 29/08/19

Name: Michael Bates




DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 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

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| STORMWATER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749138.20 | 5949454.17 |
| Lot 52 | 1749157.21 | 5949438.47 |
| Lot 51 | 1749175.12 | 5949433.38 |
| Lot 199 | 1749146.22 | 5949403.64 |
| Lot 200 | 1749162.67 | 5949398.26 |
| Lot 201 | 1749179.17 | 5949396.40 |
| Lot 225 | 1749178.74 | 5949366.32 |
| Lot 226 | 1749175.03 | 5949352.93 |
| Lot 227 | 1749171.45 | 5949338.67 |
| Lot 228 | 1749164.52 | 5949322.86 |
| Lot 229 | 1749145.01 | 5949327.55 |
| Lot 230 | 1749129.43 | 5949332.00 |
| Lot 196 | 1749142.14 | 5949344.84 |
| Lot 197 | 1749146.08 | 5949360.24 |
| Lot 198 | 1749149.30 | 5949373.89 |
| Lot 205 | 1749225.00 | 5949364.29 |
| Lot 206 | 1749254.56 | 5949356.32 |
| Lot 207 | 1749252.00 | 5949344.45 |
| Lot 217 | 1749249.22 | 5949329.23 |
| Lot 218 | 1749249.15 | 5949307.09 |
| Lot 219 | 1749246.68 | 5949289.28 |
| Lot 220 | 1749220.90 | 5949287.20 |
| Lot 221 | 1749205.08 | 5949291.19 |
| Lot 222 | 1749210.17 | 5949308.77 |
| Lot 223 | 1749217.70 | 5949333.45 |
| Lot 224 | 1749220.75 | 5949348.41 |
| Lot 173 | 1749104.66 | 5949274.84 |
| Lot 172 | 1749121.21 | 5949270.52 |
| Lot 171 | 1749136.96 | 5949266.48 |
| Lot 170 | 1749150.40 | 5949263.50 |
| Lot 169 | 1749164.25 | 5949261.07 |
| Lot 168 | 1749176.59 | 5949256.91 |
| Lot 167 | 1749190.15 | 5949253.33 |
| Lot 166 | 1749204.81 | 5949250.37 |
| Lot 165 | 1749229.53 | 5949243.91 |
| Lot 164 | 1749248.78 | 5949238.37 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749108.54 | 5949419.91 |
| Lot 190 | 1749107.73 | 5949397.52 |
| Lot 191 | 1749105.20 | 5949384.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749218.45 | 5949433.66 |
| Lot 49 | 1749213.39 | 5949433.44 |
| Lot 50 | 1749195.90 | 5949432.56 |
| Lot 202 | 1749223.67 | 5949390.62 |
| Lot 203 | 1749242.82 | 5949389.18 |
| Lot 204 | 1749258.98 | 5949387.15 |
| Lot 208 | 1749297.07 | 5949332.34 |
| Lot 209 | 1749307.62 | 5949345.12 |
| Lot 210 | 1749297.05 | 5949378.61 |
| Lot 211 | 1749314.31 | 5949374.16 |
| Lot 212 | 1749341.89 | 5949365.17 |
| Lot 216 | 1749272.98 | 5949289.48 |

WOODS
EST.1970

## LEGEND

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

## 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 AND PIPES UNDER THE ROAD AND CARRIDGEWAYS 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 100mmΦ.
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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## STORMWATER AS-BUILT SHEET 2 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-301-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_STORMWATER.DWG

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: 29/08/19

Name: Michael Bates

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| STORMWATER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749138.20 | 5949454.17 |
| Lot 52 | 1749157.21 | 5949438.47 |
| Lot 51 | 1749175.12 | 5949433.38 |
| Lot 199 | 1749146.22 | 5949403.64 |
| Lot 200 | 1749162.67 | 5949398.26 |
| Lot 201 | 1749179.17 | 5949396.40 |
| Lot 225 | 1749178.74 | 5949366.32 |
| Lot 226 | 1749175.03 | 5949352.93 |
| Lot 227 | 1749171.45 | 5949338.67 |
| Lot 228 | 1749164.52 | 5949322.86 |
| Lot 229 | 1749145.01 | 5949327.55 |
| Lot 230 | 1749129.43 | 5949332.00 |
| Lot 196 | 1749142.14 | 5949344.84 |
| Lot 197 | 1749146.08 | 5949360.24 |
| Lot 198 | 1749149.30 | 5949373.89 |
| Lot 205 | 1749225.00 | 5949364.29 |
| Lot 206 | 1749254.56 | 5949356.32 |
| Lot 207 | 1749252.00 | 5949344.45 |
| Lot 217 | 1749249.22 | 5949329.23 |
| Lot 218 | 1749249.15 | 5949307.09 |
| Lot 219 | 1749246.68 | 5949289.28 |
| Lot 220 | 1749220.90 | 5949287.20 |
| Lot 221 | 1749205.08 | 5949291.19 |
| Lot 222 | 1749210.17 | 5949308.77 |
| Lot 223 | 1749217.70 | 5949333.45 |
| Lot 224 | 1749220.75 | 5949348.41 |
| Lot 173 | 1749104.66 | 5949274.84 |
| Lot 172 | 1749121.21 | 5949270.52 |
| Lot 171 | 1749136.96 | 5949266.48 |
| Lot 170 | 1749150.40 | 5949263.50 |
| Lot 169 | 1749164.25 | 5949261.07 |
| Lot 168 | 1749176.59 | 5949256.91 |
| Lot 167 | 1749190.15 | 5949253.33 |
| Lot 166 | 1749204.81 | 5949250.37 |
| Lot 165 | 1749229.53 | 5949243.91 |
| Lot 164 | 1749248.78 | 5949238.37 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749108.54 | 5949419.91 |
| Lot 190 | 1749107.73 | 5949397.52 |
| Lot 191 | 1749105.20 | 5949384.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749218.45 | 5949433.66 |
| Lot 49 | 1749213.39 | 5949433.44 |
| Lot 50 | 1749195.90 | 5949432.56 |
| Lot 202 | 1749223.67 | 5949390.62 |
| Lot 203 | 1749242.82 | 5949389.18 |
| Lot 204 | 1749258.98 | 5949387.15 |
| Lot 208 | 1749297.07 | 5949332.34 |
| Lot 209 | 1749307.62 | 5949345.12 |
| Lot 210 | 1749297.05 | 5949378.61 |
| Lot 211 | 1749314.31 | 5949374.16 |
| Lot 212 | 1749341.89 | 5949365.17 |
| Lot 216 | 1749272.98 | 5949289.48 |

WOODS
EST.1970

## LEGEND

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

## 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 AND PIPES UNDER THE ROAD AND CARRIDGEWAYS 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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

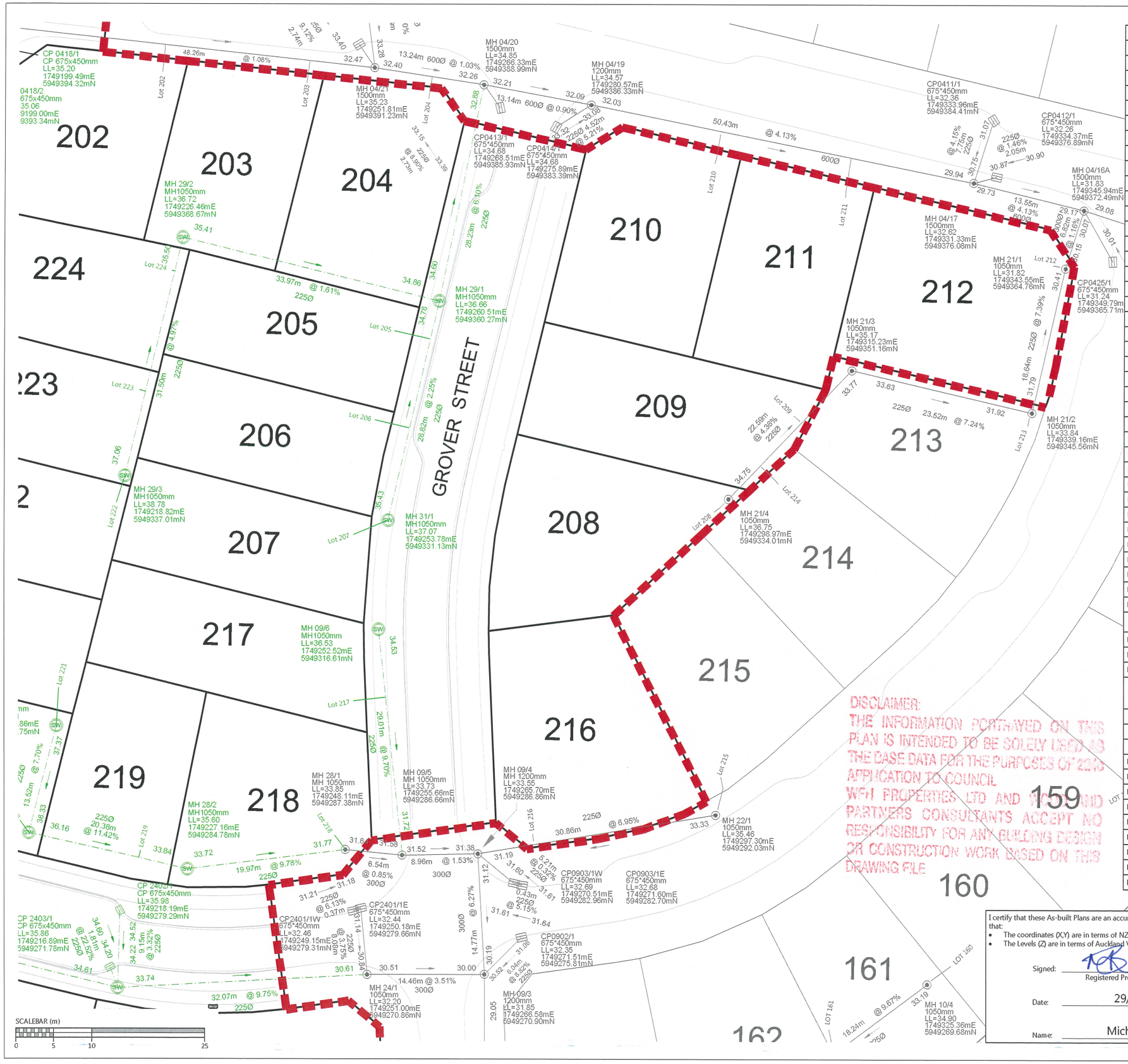
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## STORMWATER AS-BUILT SHEET 3 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-302-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_STORMWATER.DWG




| SCHEDULE OF COORDINATES | | |
|---|---|---|
| STORMWATER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749138.20 | 5949454.17 |
| Lot 52 | 1749157.21 | 5949438.47 |
| Lot 51 | 1749175.12 | 5949433.38 |
| Lot 199 | 1749146.22 | 5949403.64 |
| Lot 200 | 1749162.67 | 5949398.26 |
| Lot 201 | 1749179.17 | 5949396.40 |
| Lot 225 | 1749178.74 | 5949366.32 |
| Lot 226 | 1749175.03 | 5949352.93 |
| Lot 227 | 1749171.45 | 5949338.67 |
| Lot 228 | 1749164.52 | 5949322.86 |
| Lot 229 | 1749145.01 | 5949327.55 |
| Lot 230 | 1749129.43 | 5949332.00 |
| Lot 196 | 1749142.14 | 5949344.84 |
| Lot 197 | 1749146.08 | 5949360.24 |
| Lot 198 | 1749149.30 | 5949373.89 |
| Lot 205 | 1749225.00 | 5949364.29 |
| Lot 206 | 1749254.56 | 5949356.32 |
| Lot 207 | 1749252.00 | 5949344.45 |
| Lot 217 | 1749249.22 | 5949329.23 |
| Lot 218 | 1749249.15 | 5949307.09 |
| Lot 219 | 1749246.68 | 5949289.28 |
| Lot 220 | 1749220.90 | 5949287.20 |
| Lot 221 | 1749205.08 | 5949291.19 |
| Lot 222 | 1749210.17 | 5949308.77 |
| Lot 223 | 1749217.70 | 5949333.45 |
| Lot 224 | 1749220.75 | 5949348.41 |
| Lot 173 | 1749104.66 | 5949274.84 |
| Lot 172 | 1749121.21 | 5949270.52 |
| Lot 171 | 1749136.96 | 5949266.48 |
| Lot 170 | 1749150.40 | 5949263.50 |
| Lot 169 | 1749164.25 | 5949261.07 |
| Lot 168 | 1749176.59 | 5949256.91 |
| Lot 167 | 1749190.15 | 5949253.33 |
| Lot 166 | 1749204.81 | 5949250.37 |
| Lot 165 | 1749229.53 | 5949243.91 |
| Lot 164 | 1749248.78 | 5949238.37 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749108.54 | 5949419.91 |
| Lot 190 | 1749107.73 | 5949397.52 |
| Lot 191 | 1749105.20 | 5949384.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749218.45 | 5949433.66 |
| Lot 49 | 1749213.39 | 5949433.44 |
| Lot 50 | 1749195.90 | 5949432.56 |
| Lot 202 | 1749223.67 | 5949390.62 |
| Lot 203 | 1749242.82 | 5949389.18 |
| Lot 204 | 1749258.98 | 5949387.15 |
| Lot 208 | 1749297.07 | 5949332.34 |
| Lot 209 | 1749307.62 | 5949345.12 |
| Lot 210 | 1749297.05 | 5949378.61 |
| Lot 211 | 1749314.31 | 5949374.16 |
| Lot 212 | 1749341.89 | 5949365.17 |
| Lot 216 | 1749272.98 | 5949289.48 |

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224A 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

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: 29/08/19

Name: Michael Bates

WOODS
EST.1970

## LEGEND

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

## 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 AND PIPES UNDER THE ROAD AND CARRIDGEWAYS 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 | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

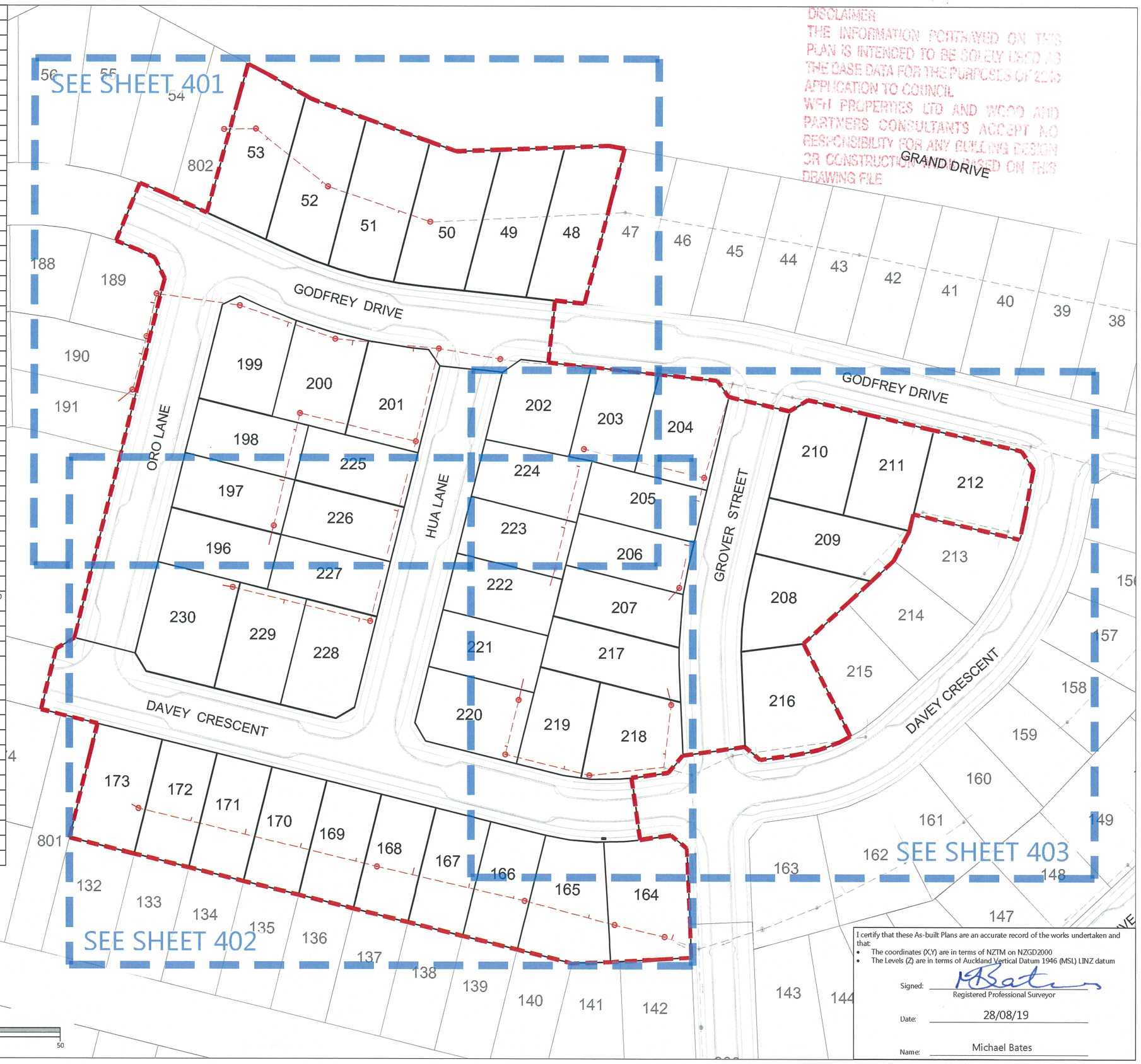
# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## STORMWATER AS-BUILT SHEET 4 OF 4

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-303-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_STORMWATER.DWG

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| SANITARY SEWER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749140.62 | 5949452.37 |
| Lot 52 | 1749155.20 | 5949440.83 |
| Lot 51 | 1749175.71 | 5949433.05 |
| Lot 199 | 1749146.22 | 5949402.72 |
| Lot 200 | 1749163.53 | 5949397.84 |
| Lot 201 | 1749179.76 | 5949396.22 |
| Lot 225 | 1749178.51 | 5949366.96 |
| Lot 226 | 1749174.80 | 5949353.88 |
| Lot 227 | 1749171.07 | 5949339.36 |
| Lot 198 | 1749148.13 | 5949375.23 |
| Lot 197 | 1749144.40 | 5949361.89 |
| Lot 196 | 1749141.58 | 5949344.63 |
| Lot 230 | 1749129.33 | 5949333.77 |
| Lot 229 | 1749145.45 | 5949328.94 |
| Lot 228 | 1749165.40 | 5949324.17 |
| Lot 224 | 1749223.42 | 5949365.70 |
| Lot 205 | 1749254.47 | 5949356.67 |
| Lot 206 | 1749252.01 | 5949344.80 |
| Lot 207 | 1749247.89 | 5949330.09 |
| Lot 217 | 1749247.55 | 5949306.37 |
| Lot 218 | 1749246.47 | 5949289.05 |
| Lot 219 | 1749220.21 | 5949285.69 |
| Lot 220 | 1749204.32 | 5949291.07 |
| Lot 221 | 1749209.21 | 5949308.86 |
| Lot 222 | 1749216.28 | 5949333.81 |
| Lot 223 | 1749219.34 | 5949349.38 |
| Lot 173 | 1749105.08 | 5949275.41 |
| Lot 172 | 1749121.00 | 5949271.93 |
| Lot 171 | 1749135.48 | 5949268.79 |
| Lot 170 | 1749150.05 | 5949264.99 |
| Lot 169 | 1749164.75 | 5949261.13 |
| Lot 168 | 1749180.12 | 5949258.58 |
| Lot 167 | 1749194.89 | 5949254.39 |
| Lot 166 | 1749206.67 | 5949251.07 |
| Lot 165 | 1749226.73 | 5949246.19 |
| Lot 164 | 1749249.06 | 5949241.01 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749109.96 | 5949409.10 |
| Lot 190 | 1749106.90 | 5949395.44 |
| Lot 191 | 1749101.46 | 5949382.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749216.51 | 5949431.5 |
| Lot 49 | 1749213.27 | 5949431.2 |
| Lot 50 | 1749195.92 | 5949430.3 |
| Lot 202 | 1749222.72 | 5949391.1 |
| Lot 203 | 1749243.75 | 5949388.7 |
| Lot 204 | 1749257.57 | 5949387.3 |
| Lot 208 | 1749295.88 | 5949333.6 |
| Lot 209 | 1749308.55 | 5949348.1 |
| Lot 210 | 1749295.62 | 5949379.2 |
| Lot 211 | 1749312.42 | 5949374.5 |
| Lot 212 | 1749336.18 | 5949370.2 |
| Lot 216 | 1749270.91 | 5949291.1 |




DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 APPLICATION TO COUNCIL.
WFH PROPERTIES LTD AND WOODS AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WHICH IS BASED ON THIS DRAWING FILE

WOODS
EST.1970

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER
- STAGE BOUNDARY

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

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: 28/08/19

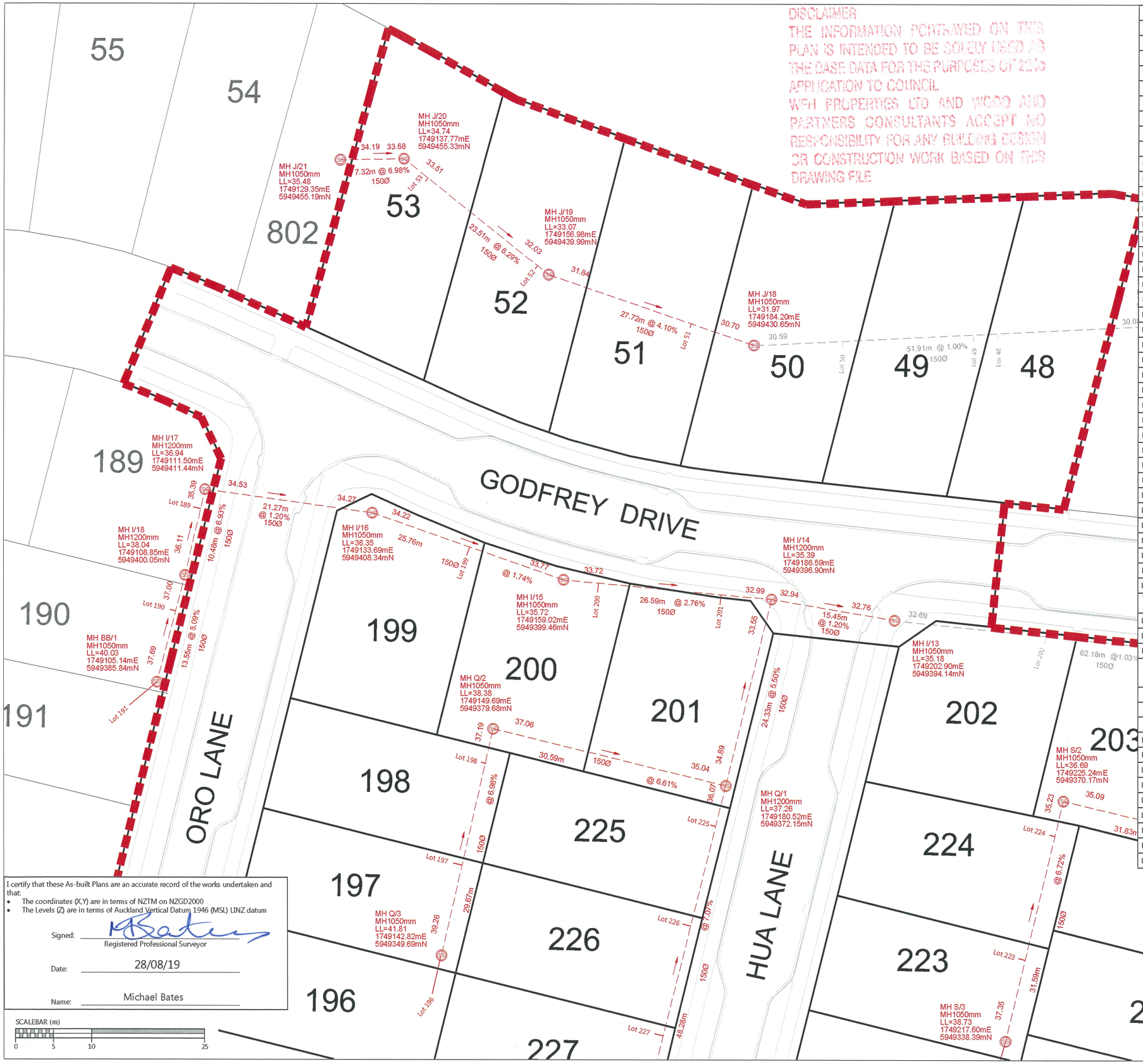
Name: Michael Bates

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## WASTEWATER AS-BUILT OVERALL LAYOUT SHEET 1 OF 4

| STATUS | AS BUILT | REV |
|---|---|---|
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37503-04-03B-400-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_SEWER.DWG




DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 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

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| SANITARY SEWER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749140.62 | 5949452.37 |
| Lot 52 | 1749155.20 | 5949440.83 |
| Lot 51 | 1749175.71 | 5949433.05 |
| Lot 199 | 1749146.22 | 5949402.72 |
| Lot 200 | 1749163.53 | 5949397.84 |
| Lot 201 | 1749179.76 | 5949396.22 |
| Lot 225 | 1749178.51 | 5949366.96 |
| Lot 226 | 1749174.80 | 5949353.88 |
| Lot 227 | 1749171.07 | 5949339.36 |
| Lot 198 | 1749148.13 | 5949375.23 |
| Lot 197 | 1749144.40 | 5949361.89 |
| Lot 196 | 1749141.58 | 5949344.63 |
| Lot 230 | 1749129.33 | 5949333.77 |
| Lot 229 | 1749145.45 | 5949328.94 |
| Lot 228 | 1749165.40 | 5949324.17 |
| Lot 224 | 1749223.42 | 5949365.70 |
| Lot 205 | 1749254.47 | 5949356.67 |
| Lot 206 | 1749252.01 | 5949344.80 |
| Lot 207 | 1749247.89 | 5949330.09 |
| Lot 217 | 1749247.55 | 5949306.37 |
| Lot 218 | 1749246.47 | 5949289.05 |
| Lot 219 | 1749220.21 | 5949285.69 |
| Lot 220 | 1749204.32 | 5949291.07 |
| Lot 221 | 1749209.21 | 5949308.86 |
| Lot 222 | 1749216.28 | 5949333.81 |
| Lot 223 | 1749219.34 | 5949349.38 |
| Lot 173 | 1749105.08 | 5949275.41 |
| Lot 172 | 1749121.00 | 5949271.93 |
| Lot 171 | 1749135.48 | 5949268.79 |
| Lot 170 | 1749150.05 | 5949264.99 |
| Lot 169 | 1749164.75 | 5949261.13 |
| Lot 168 | 1749180.12 | 5949258.58 |
| Lot 167 | 1749194.89 | 5949254.39 |
| Lot 166 | 1749206.67 | 5949251.07 |
| Lot 165 | 1749226.73 | 5949246.19 |
| Lot 164 | 1749249.06 | 5949241.01 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749109.96 | 5949409.10 |
| Lot 190 | 1749106.90 | 5949395.44 |
| Lot 191 | 1749101.46 | 5949382.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749216.51 | 5949431.5 |
| Lot 49 | 1749213.27 | 5949431.2 |
| Lot 50 | 1749195.92 | 5949430.3 |
| Lot 202 | 1749222.72 | 5949391.1 |
| Lot 203 | 1749243.75 | 5949388.7 |
| Lot 204 | 1749257.57 | 5949387.3 |
| Lot 208 | 1749295.88 | 5949333.6 |
| Lot 209 | 1749308.55 | 5949348.1 |
| Lot 210 | 1749295.62 | 5949379.2 |
| Lot 211 | 1749312.42 | 5949374.5 |
| Lot 212 | 1749336.18 | 5949370.2 |
| Lot 216 | 1749270.91 | 5949291.1 |

WOODS
EST.1970

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER
- STAGE BOUNDARY

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSEUD FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## WASTEWATER AS-BUILT SHEET 2 OF 4

| | | |
|---|---|---|
| STATUS | AS BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37503-04-03B-401-AB | |

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: 28/08/19

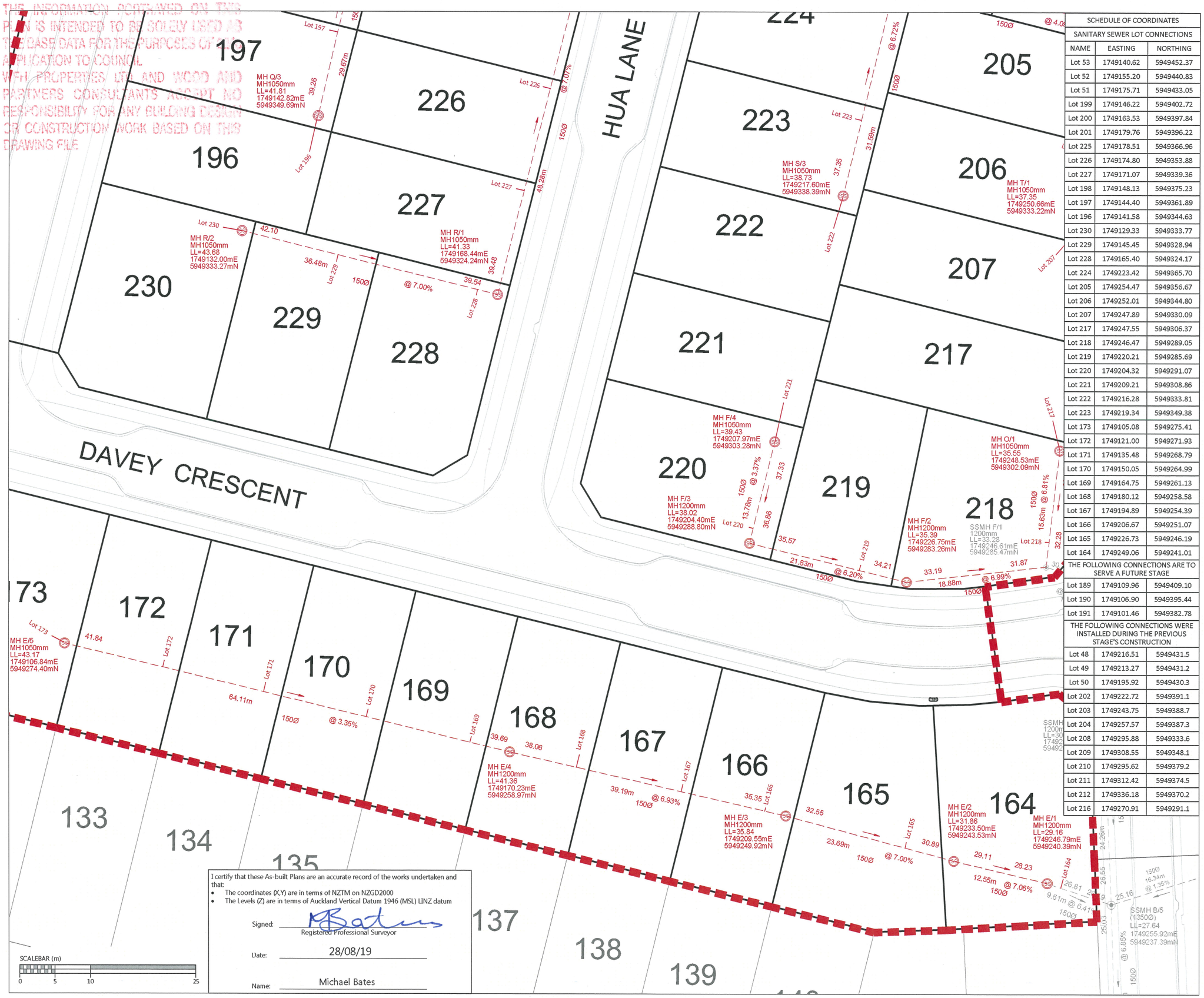
Name: Michael Bates

SCALEBAR (m)

0 5 10 25

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_P5_04_03B_SEWER.DWG

DISCLAIMER:
THE INFORMATION OBTAINED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE APPLICATION TO COUNCIL. WITH 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: 28/08/19

Name: Michael Bates

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| SANITARY SEWER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749140.62 | 5949452.37 |
| Lot 52 | 1749155.20 | 5949440.83 |
| Lot 51 | 1749175.71 | 5949433.05 |
| Lot 199 | 1749146.22 | 5949402.72 |
| Lot 200 | 1749163.53 | 5949397.84 |
| Lot 201 | 1749179.76 | 5949396.22 |
| Lot 225 | 1749178.51 | 5949366.96 |
| Lot 226 | 1749174.80 | 5949353.88 |
| Lot 227 | 1749171.07 | 5949339.36 |
| Lot 198 | 1749148.13 | 5949375.23 |
| Lot 197 | 1749144.40 | 5949361.89 |
| Lot 196 | 1749141.58 | 5949344.63 |
| Lot 230 | 1749129.33 | 5949333.77 |
| Lot 229 | 1749145.45 | 5949328.94 |
| Lot 228 | 1749165.40 | 5949324.17 |
| Lot 224 | 1749223.42 | 5949365.70 |
| Lot 205 | 1749254.47 | 5949356.67 |
| Lot 206 | 1749252.01 | 5949344.80 |
| Lot 207 | 1749247.89 | 5949330.09 |
| Lot 217 | 1749247.55 | 5949306.37 |
| Lot 218 | 1749246.47 | 5949289.05 |
| Lot 219 | 1749220.21 | 5949285.69 |
| Lot 220 | 1749204.32 | 5949291.07 |
| Lot 221 | 1749209.21 | 5949308.86 |
| Lot 222 | 1749216.28 | 5949333.81 |
| Lot 223 | 1749219.34 | 5949349.38 |
| Lot 173 | 1749105.08 | 5949275.41 |
| Lot 172 | 1749121.00 | 5949271.93 |
| Lot 171 | 1749135.48 | 5949268.79 |
| Lot 170 | 1749150.05 | 5949264.99 |
| Lot 169 | 1749164.75 | 5949261.13 |
| Lot 168 | 1749180.12 | 5949258.58 |
| Lot 167 | 1749194.89 | 5949254.39 |
| Lot 166 | 1749206.67 | 5949251.07 |
| Lot 165 | 1749226.73 | 5949246.19 |
| Lot 164 | 1749249.06 | 5949241.01 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749109.96 | 5949409.10 |
| Lot 190 | 1749106.90 | 5949395.44 |
| Lot 191 | 1749101.46 | 5949382.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749216.51 | 5949431.5 |
| Lot 49 | 1749213.27 | 5949431.2 |
| Lot 50 | 1749195.92 | 5949430.3 |
| Lot 202 | 1749222.72 | 5949391.1 |
| Lot 203 | 1749243.75 | 5949388.7 |
| Lot 204 | 1749257.57 | 5949387.3 |
| Lot 208 | 1749295.88 | 5949333.6 |
| Lot 209 | 1749308.55 | 5949348.1 |
| Lot 210 | 1749295.62 | 5949379.2 |
| Lot 211 | 1749312.42 | 5949374.5 |
| Lot 212 | 1749336.18 | 5949370.2 |
| Lot 216 | 1749270.91 | 5949291.1 |

WOODS
EST.1970

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER
- STAGE BOUNDARY

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSEUD FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

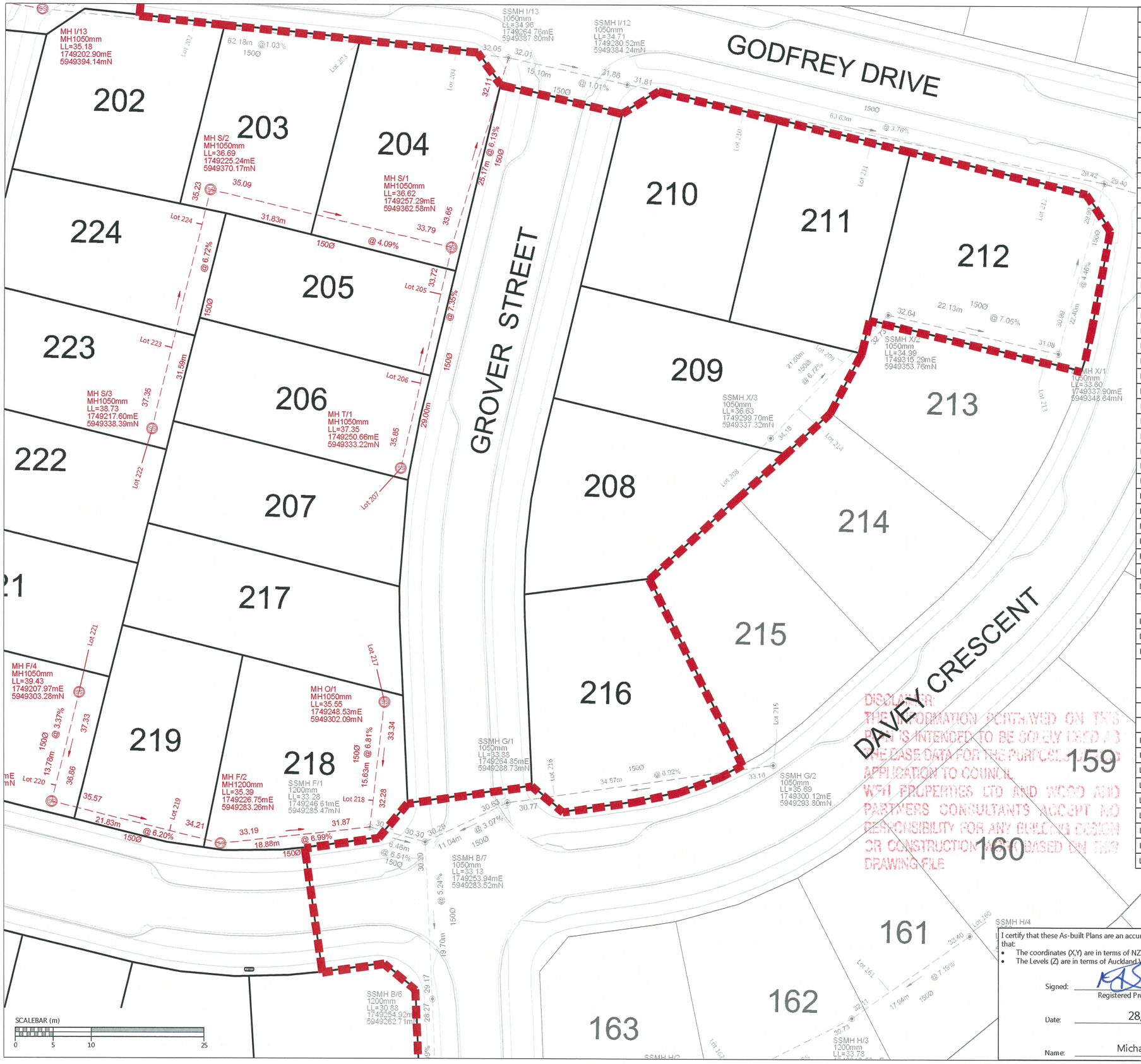
WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## WASTEWATER AS-BUILT SHEET 3 OF 4

| STATUS | AS BUILT | REV |
|---|---|---|
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37503-04-03B-402-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT 4 & 3B\37504_P5_04_03B_SEWER.DWG




DISCLAIMER:
THE INFORMATION CONTAINED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS RELEASE DATA FOR THE PURPOSE OF APPLICATION TO COUNCIL.
WFH PROPERTIES LTD AND WOODS AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION MADE BASED ON THIS DRAWING FILE

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| SANITARY SEWER LOT CONNECTIONS | | |
| NAME | EASTING | NORTHING |
| Lot 53 | 1749140.62 | 5949452.37 |
| Lot 52 | 1749155.20 | 5949440.83 |
| Lot 51 | 1749175.71 | 5949433.05 |
| Lot 199 | 1749146.22 | 5949402.72 |
| Lot 200 | 1749163.53 | 5949397.84 |
| Lot 201 | 1749179.76 | 5949396.22 |
| Lot 225 | 1749178.51 | 5949366.96 |
| Lot 226 | 1749174.80 | 5949353.88 |
| Lot 227 | 1749171.07 | 5949339.36 |
| Lot 198 | 1749148.13 | 5949375.23 |
| Lot 197 | 1749144.40 | 5949361.89 |
| Lot 196 | 1749141.58 | 5949344.63 |
| Lot 230 | 1749129.33 | 5949333.77 |
| Lot 229 | 1749145.45 | 5949328.94 |
| Lot 228 | 1749165.40 | 5949324.17 |
| Lot 224 | 1749223.42 | 5949365.70 |
| Lot 205 | 1749254.47 | 5949356.67 |
| Lot 206 | 1749252.01 | 5949344.80 |
| Lot 207 | 1749247.89 | 5949330.09 |
| Lot 217 | 1749247.55 | 5949306.37 |
| Lot 218 | 1749246.47 | 5949289.05 |
| Lot 219 | 1749220.21 | 5949285.69 |
| Lot 220 | 1749204.32 | 5949291.07 |
| Lot 221 | 1749209.21 | 5949308.86 |
| Lot 222 | 1749216.28 | 5949333.81 |
| Lot 223 | 1749219.34 | 5949349.38 |
| Lot 173 | 1749105.08 | 5949275.41 |
| Lot 172 | 1749121.00 | 5949271.93 |
| Lot 171 | 1749135.48 | 5949268.79 |
| Lot 170 | 1749150.05 | 5949264.99 |
| Lot 169 | 1749164.75 | 5949261.13 |
| Lot 168 | 1749180.12 | 5949258.58 |
| Lot 167 | 1749194.89 | 5949254.39 |
| Lot 166 | 1749206.67 | 5949251.07 |
| Lot 165 | 1749226.73 | 5949246.19 |
| Lot 164 | 1749249.06 | 5949241.01 |
| THE FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE | | |
| Lot 189 | 1749109.96 | 5949409.10 |
| Lot 190 | 1749106.90 | 5949395.44 |
| Lot 191 | 1749101.46 | 5949382.78 |
| THE FOLLOWING CONNECTIONS WERE INSTALLED DURING THE PREVIOUS STAGE'S CONSTRUCTION | | |
| Lot 48 | 1749216.51 | 5949431.5 |
| Lot 49 | 1749213.27 | 5949431.2 |
| Lot 50 | 1749195.92 | 5949430.3 |
| Lot 202 | 1749222.72 | 5949391.1 |
| Lot 203 | 1749243.75 | 5949388.7 |
| Lot 204 | 1749257.57 | 5949387.3 |
| Lot 208 | 1749295.88 | 5949333.6 |
| Lot 209 | 1749308.55 | 5949348.1 |
| Lot 210 | 1749295.62 | 5949379.2 |
| Lot 211 | 1749312.42 | 5949374.5 |
| Lot 212 | 1749336.18 | 5949370.2 |
| Lot 216 | 1749270.91 | 5949291.1 |

WOODS
EST.1970

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER
- STAGE BOUNDARY

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSEUD FOR INFORMATION | KR | 28/08/19 |
| | | | |
| | | | |
| | | | |

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: 28/08/19

Name: Michael Bates

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | KR | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# ARRAN HILL PRECINCT 5 STAGES 4 & 3B

## WASTEWATER AS-BUILT SHEET 4 OF 4

| | | |
|---|---|---|
| STATUS | AS BUILT | REV |
| SCALE | 1:500 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37503-04-03B-403-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVAS-BUILT\4 & 3B\37504_PS_04_03B_SEWER.DWG

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| NAME | EASTING | NORTHING |
| WATERMAIN CONNECTIONS | | |
| WM53 | 1749139.30 | 5949424.96 |
| WM52 | 1749140.35 | 5949424.47 |
| WM51 | 1749173.97 | 5949413.43 |
| WM50 | 1749174.86 | 5949413.28 |
| WM49 | 1749209.04 | 5949409.51 |
| WM48 | 1749210.02 | 5949409.35 |
| WM200 | 1749167.73 | 5949400.24 |
| WM201 | 1749168.23 | 5949400.19 |
| WM189 | 1749110.68 | 5949398.66 |
| WM606 | 1749110.53 | 5949398.04 |
| WM303 | 1749106.86 | 5949383.07 |
| WM199 | 1749121.78 | 5949384.41 |
| WM198 | 1749121.54 | 5949383.46 |
| WM197 | 1749114.43 | 5949355.06 |
| WM196 | 1749114.32 | 5949354.62 |
| WM202 | 1749197.99 | 5949373.52 |
| WM224 | 1749197.77 | 5949372.68 |
| WM225 | 1749178.76 | 5949354.82 |
| WM226 | 1749178.62 | 5949354.15 |
| WM223 | 1749190.27 | 5949343.05 |
| WM222 | 1749190.08 | 5949342.29 |
| WM227 | 1749171.64 | 5949325.68 |
| WM228 | 1749171.46 | 5949324.98 |
| WM221 | 1749182.68 | 5949312.91 |
| WM220 | 1749182.50 | 5949312.23 |
| WM204 | 1749259.09 | 5949359.44 |
| WM205 | 1749258.94 | 5949358.83 |
| WM206 | 1749252.84 | 5949331.74 |
| WM207 | 1749252.74 | 5949331.12 |
| WM217 | 1749251.56 | 5949316.91 |
| WM209 | 1749269.61 | 5949343.47 |
| WM208 | 1749269.34 | 5949342.37 |
| WM230 | 1749126.57 | 5949305.26 |
| WM229 | 1749127.44 | 5949305.07 |
| WM173 | 1749113.00 | 5949294.24 |
| WM172 | 1749114.00 | 5949293.97 |
| WM171 | 1749142.47 | 5949286.86 |
| WM170 | 1749142.92 | 5949286.79 |
| WM169 | 1749171.17 | 5949279.74 |
| WM168 | 1749171.90 | 5949279.56 |
| WM167 | 1749200.23 | 5949272.42 |
| WM166 | 1749201.18 | 5949272.19 |
| WM165 | 1749229.82 | 5949267.45 |
| WM164 | 1749230.84 | 5949267.49 |
| WM219 | 1749224.07 | 5949281.44 |
| WM218 | 1749224.69 | 5949281.39 |
| INSTALLED DURING PREVIOUS STAGE | | |
| WM 202 | 1749226.29 | 5949393.54 |
| WM 203 | 1749228.54 | 5949393.29 |
| WM 204 | 1749246.66 | 5949391.24 |
| WM 210 | 1749299.63 | 5949381.33 |
| WM 211 | 1749302.04 | 5949380.80 |
| WM 212 | 1749342.34 | 5949347.25 |
| WM 216 | 1749295.49 | 5949292.09 |

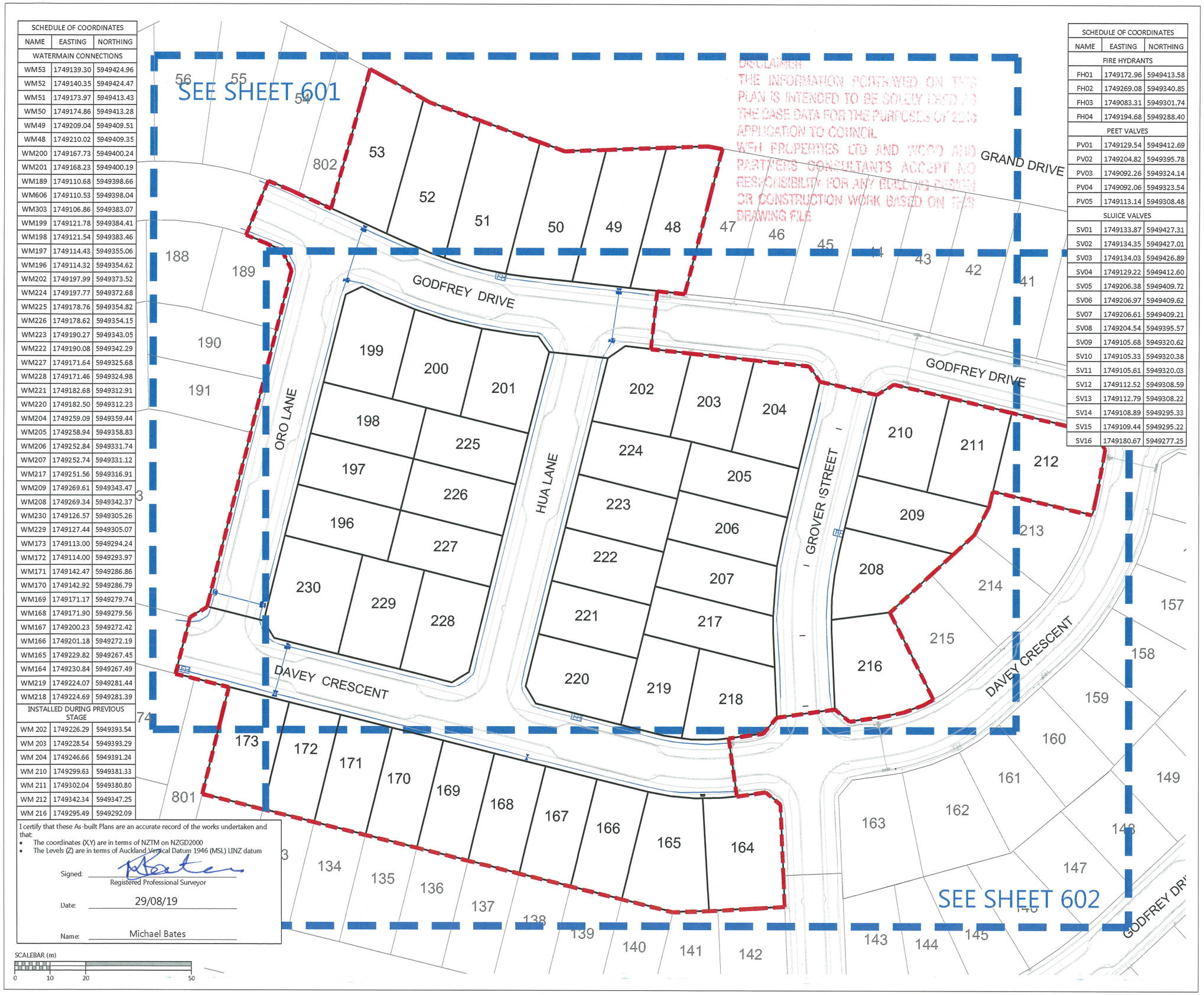
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 29/08/19

Name: Michael Bates




| SCHEDULE OF COORDINATES | | |
|---|---|---|
| NAME | EASTING | NORTHING |
| FIRE HYDRANTS | | |
| FH01 | 1749172.96 | 5949413.58 |
| FH02 | 1749269.08 | 5949340.85 |
| FH03 | 1749083.31 | 5949301.74 |
| FH04 | 1749194.68 | 5949288.40 |
| PEET VALVES | | |
| PV01 | 1749129.54 | 5949412.69 |
| PV02 | 1749204.82 | 5949395.78 |
| PV03 | 1749092.26 | 5949324.14 |
| PV04 | 1749092.06 | 5949323.54 |
| PV05 | 1749113.14 | 5949308.48 |
| SLUICE VALVES | | |
| SV01 | 1749133.87 | 5949427.31 |
| SV02 | 1749134.35 | 5949427.01 |
| SV03 | 1749134.03 | 5949426.89 |
| SV04 | 1749129.22 | 5949412.60 |
| SV05 | 1749206.38 | 5949409.72 |
| SV06 | 1749206.97 | 5949409.62 |
| SV07 | 1749206.61 | 5949409.21 |
| SV08 | 1749204.54 | 5949395.57 |
| SV09 | 1749105.68 | 5949320.62 |
| SV10 | 1749105.33 | 5949320.38 |
| SV11 | 1749105.61 | 5949320.03 |
| SV12 | 1749112.52 | 5949308.59 |
| SV13 | 1749112.79 | 5949308.22 |
| SV14 | 1749108.89 | 5949295.33 |
| SV15 | 1749109.44 | 5949295.22 |
| SV16 | 1749180.67 | 5949277.25 |

WOODS
Est.1970

## 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. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
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.
8. EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS

## LEGEND

- EXISTING WATERMAIN
- HIGH PESSURE WATERMAIN
- LOW PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- TAPPING BAND
- BLANK CAP
- MANIFOLD BOX (MB)
- STAGE BOUNDARY

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# MILLWATER PRECINCT 5 OREWA WEST STAGES 4 & 3B

## WATERMAIN AS-BUILT SHEET 1 OF 3

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:1000 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-600-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURV\AS-BUILT 4 & 3B\37504_PS_04_03B_WATERMAIN.DWG

DISCLAIMER:
THE INFORMATION CONTAINED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 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

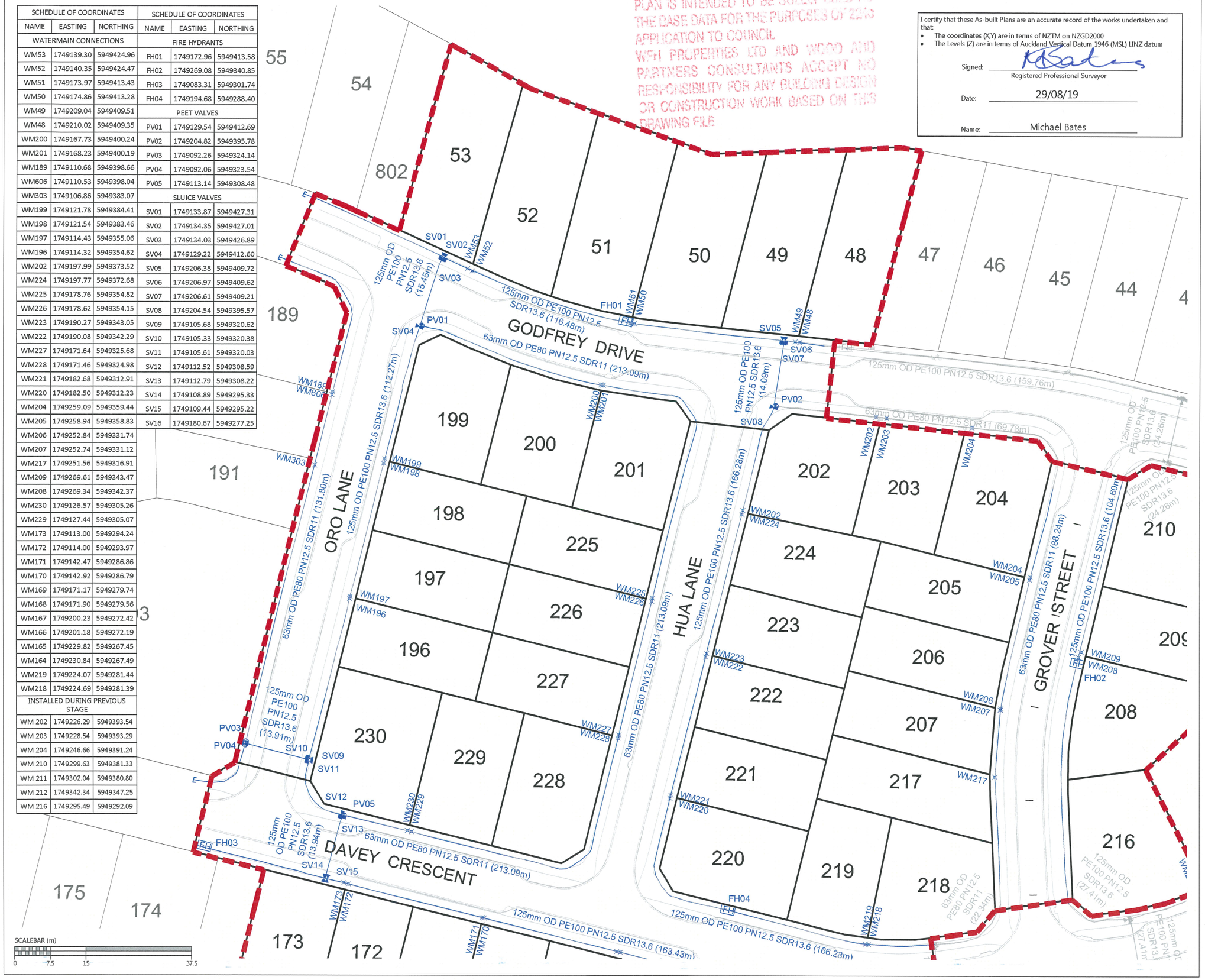
Signed: _____ Registered Professional Surveyor

Date: 29/08/19

Name: Michael Bates

WOODS
EST.1970

| SCHEDULE OF COORDINATES | | | SCHEDULE OF COORDINATES | | |
|---|---|---|---|---|---|
| NAME | EASTING | NORTHING | NAME | EASTING | NORTHING |
| WATERMAIN CONNECTIONS | | | FIRE HYDRANTS | | |
| WM53 | 1749139.30 | 5949424.96 | FH01 | 1749172.96 | 5949413.58 |
| WM52 | 1749140.35 | 5949424.47 | FH02 | 1749269.08 | 5949340.85 |
| WM51 | 1749173.97 | 5949413.43 | FH03 | 1749083.31 | 5949301.74 |
| WM50 | 1749174.86 | 5949413.28 | FH04 | 1749194.68 | 5949288.40 |
| WM49 | 1749209.04 | 5949409.51 | PEET VALVES | | |
| WM48 | 1749210.02 | 5949409.35 | PV01 | 1749129.54 | 5949412.69 |
| WM200 | 1749167.73 | 5949400.24 | PV02 | 1749204.82 | 5949395.78 |
| WM201 | 1749168.23 | 5949400.19 | PV03 | 1749092.26 | 5949324.14 |
| WM189 | 1749110.68 | 5949398.66 | PV04 | 1749092.06 | 5949323.54 |
| WM606 | 1749110.53 | 5949398.04 | PV05 | 1749113.14 | 5949308.48 |
| WM303 | 1749106.86 | 5949383.07 | SLUICE VALVES | | |
| WM199 | 1749121.78 | 5949384.41 | SV01 | 1749133.87 | 5949427.31 |
| WM198 | 1749121.54 | 5949383.46 | SV02 | 1749134.35 | 5949427.01 |
| WM197 | 1749114.43 | 5949355.06 | SV03 | 1749134.03 | 5949426.89 |
| WM196 | 1749114.32 | 5949354.62 | SV04 | 1749129.22 | 5949412.60 |
| WM202 | 1749197.99 | 5949373.52 | SV05 | 1749206.38 | 5949409.72 |
| WM224 | 1749197.77 | 5949372.68 | SV06 | 1749206.97 | 5949409.62 |
| WM225 | 1749178.76 | 5949354.82 | SV07 | 1749206.61 | 5949409.21 |
| WM226 | 1749178.62 | 5949354.15 | SV08 | 1749204.54 | 5949395.57 |
| WM223 | 1749190.27 | 5949343.05 | SV09 | 1749105.68 | 5949320.62 |
| WM222 | 1749190.08 | 5949342.29 | SV10 | 1749105.33 | 5949320.38 |
| WM227 | 1749171.64 | 5949325.68 | SV11 | 1749105.61 | 5949320.03 |
| WM228 | 1749171.46 | 5949324.98 | SV12 | 1749112.52 | 5949308.59 |
| WM221 | 1749182.68 | 5949312.91 | SV13 | 1749112.79 | 5949308.22 |
| WM220 | 1749182.50 | 5949312.23 | SV14 | 1749108.89 | 5949295.33 |
| WM204 | 1749259.09 | 5949359.44 | SV15 | 1749109.44 | 5949295.22 |
| WM205 | 1749258.94 | 5949358.83 | SV16 | 1749180.67 | 5949277.25 |
| WM206 | 1749252.84 | 5949331.74 | | | |
| WM207 | 1749252.74 | 5949331.12 | | | |
| WM217 | 1749251.56 | 5949316.91 | | | |
| WM209 | 1749269.61 | 5949343.47 | | | |
| WM208 | 1749269.34 | 5949342.37 | | | |
| WM230 | 1749126.57 | 5949305.26 | | | |
| WM229 | 1749127.44 | 5949305.07 | | | |
| WM173 | 1749113.00 | 5949294.24 | | | |
| WM172 | 1749114.00 | 5949293.97 | | | |
| WM171 | 1749142.47 | 5949286.86 | | | |
| WM170 | 1749142.92 | 5949286.79 | | | |
| WM169 | 1749171.17 | 5949279.74 | | | |
| WM168 | 1749171.90 | 5949279.56 | | | |
| WM167 | 1749200.23 | 5949272.42 | | | |
| WM166 | 1749201.18 | 5949272.19 | | | |
| WM165 | 1749229.82 | 5949267.45 | | | |
| WM164 | 1749230.84 | 5949267.49 | | | |
| WM219 | 1749224.07 | 5949281.44 | | | |
| WM218 | 1749224.69 | 5949281.39 | | | |
| INSTALLED DURING PREVIOUS STAGE | | | | | |
| WM 202 | 1749226.29 | 5949393.54 | | | |
| WM 203 | 1749228.54 | 5949393.29 | | | |
| WM 204 | 1749246.66 | 5949391.24 | | | |
| WM 210 | 1749299.63 | 5949381.33 | | | |
| WM 211 | 1749302.04 | 5949380.80 | | | |
| WM 212 | 1749342.34 | 5949347.25 | | | |
| WM 216 | 1749295.49 | 5949292.09 | | | |




## 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. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
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.
8. EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS

## LEGEND

- EXISTING WATERMAIN
- HIGH PESSURE WATERMAIN
- LOW PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- TAPPING BAND
- BLANK CAP
- MANIFOLD BOX (MB)
- STAGE BOUNDARY

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

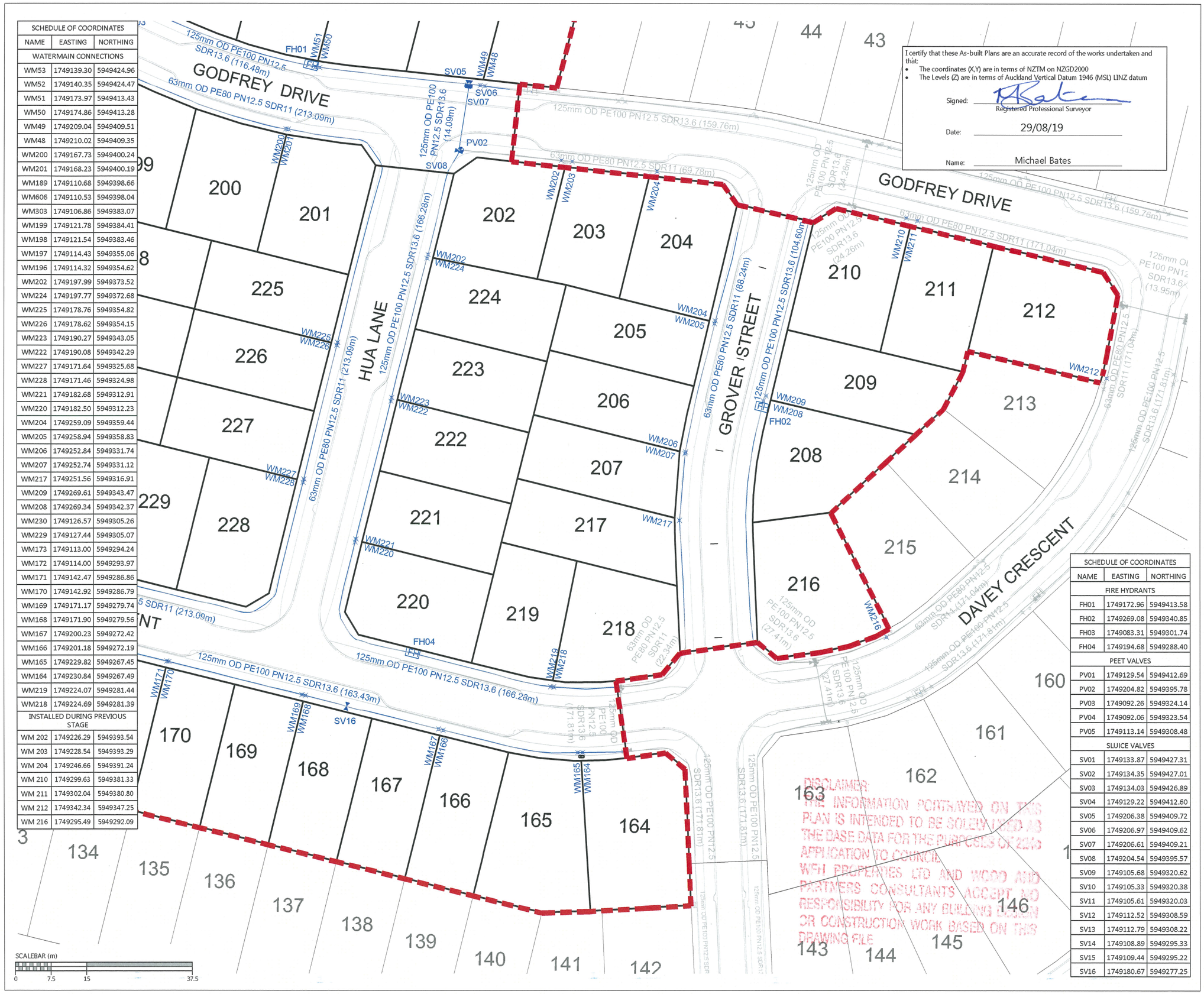
WFH PROPERTIES

# MILLWATER PRECINCT 5 OREWA WEST STAGES 4 & 3B

## WATERMAIN AS-BUILT SHEET 2 OF 3

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:750 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-601-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVVAS-BUILT\4 & 3B\37504_P5_04_03B_WATERMAIN.DWG




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: 29/08/19

Name: Michael Bates

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| NAME | EASTING | NORTHING |
| WATERMAIN CONNECTIONS | | |
| WM53 | 1749139.30 | 5949424.96 |
| WM52 | 1749140.35 | 5949424.47 |
| WM51 | 1749173.97 | 5949413.43 |
| WM50 | 1749174.86 | 5949413.28 |
| WM49 | 1749209.04 | 5949409.51 |
| WM48 | 1749210.02 | 5949409.35 |
| WM200 | 1749167.73 | 5949400.24 |
| WM201 | 1749168.23 | 5949400.19 |
| WM189 | 1749110.68 | 5949398.66 |
| WM606 | 1749110.53 | 5949398.04 |
| WM303 | 1749106.86 | 5949383.07 |
| WM199 | 1749121.78 | 5949384.41 |
| WM198 | 1749121.54 | 5949383.46 |
| WM197 | 1749114.43 | 5949355.06 |
| WM196 | 1749114.32 | 5949354.62 |
| WM202 | 1749197.99 | 5949373.52 |
| WM224 | 1749197.77 | 5949372.68 |
| WM225 | 1749178.76 | 5949354.82 |
| WM226 | 1749178.62 | 5949354.15 |
| WM223 | 1749190.27 | 5949343.05 |
| WM222 | 1749190.08 | 5949342.29 |
| WM227 | 1749171.64 | 5949325.68 |
| WM228 | 1749171.46 | 5949324.98 |
| WM221 | 1749182.68 | 5949312.91 |
| WM220 | 1749182.50 | 5949312.23 |
| WM204 | 1749259.09 | 5949359.44 |
| WM205 | 1749258.94 | 5949358.83 |
| WM206 | 1749252.84 | 5949331.74 |
| WM207 | 1749252.74 | 5949331.12 |
| WM217 | 1749251.56 | 5949316.91 |
| WM209 | 1749269.61 | 5949343.47 |
| WM208 | 1749269.34 | 5949342.37 |
| WM230 | 1749126.57 | 5949305.26 |
| WM229 | 1749127.44 | 5949305.07 |
| WM173 | 1749113.00 | 5949294.24 |
| WM172 | 1749114.00 | 5949293.97 |
| WM171 | 1749142.47 | 5949286.86 |
| WM170 | 1749142.92 | 5949286.79 |
| WM169 | 1749171.17 | 5949279.74 |
| WM168 | 1749171.90 | 5949279.56 |
| WM167 | 1749200.23 | 5949272.42 |
| WM166 | 1749201.18 | 5949272.19 |
| WM165 | 1749229.82 | 5949267.45 |
| WM164 | 1749230.84 | 5949267.49 |
| WM219 | 1749224.07 | 5949281.44 |
| WM218 | 1749224.69 | 5949281.39 |
| INSTALLED DURING PREVIOUS STAGE | | |
| WM 202 | 1749226.29 | 5949393.54 |
| WM 203 | 1749228.54 | 5949393.29 |
| WM 204 | 1749246.66 | 5949391.24 |
| WM 210 | 1749299.63 | 5949381.33 |
| WM 211 | 1749302.04 | 5949380.80 |
| WM 212 | 1749342.34 | 5949347.25 |
| WM 216 | 1749295.49 | 5949292.09 |

| SCHEDULE OF COORDINATES | | |
|---|---|---|
| NAME | EASTING | NORTHING |
| FIRE HYDRANTS | | |
| FH01 | 1749172.96 | 5949413.58 |
| FH02 | 1749269.08 | 5949340.85 |
| FH03 | 1749083.31 | 5949301.74 |
| FH04 | 1749194.68 | 5949288.40 |
| PEET VALVES | | |
| PV01 | 1749129.54 | 5949412.69 |
| PV02 | 1749204.82 | 5949395.78 |
| PV03 | 1749092.26 | 5949324.14 |
| PV04 | 1749092.06 | 5949323.54 |
| PV05 | 1749113.14 | 5949308.48 |
| SLUICE VALVES | | |
| SV01 | 1749133.87 | 5949427.31 |
| SV02 | 1749134.35 | 5949427.01 |
| SV03 | 1749134.03 | 5949426.89 |
| SV04 | 1749129.22 | 5949412.60 |
| SV05 | 1749206.38 | 5949409.72 |
| SV06 | 1749206.97 | 5949409.62 |
| SV07 | 1749206.61 | 5949409.21 |
| SV08 | 1749204.54 | 5949395.57 |
| SV09 | 1749105.68 | 5949320.62 |
| SV10 | 1749105.33 | 5949320.38 |
| SV11 | 1749105.61 | 5949320.03 |
| SV12 | 1749112.52 | 5949308.59 |
| SV13 | 1749112.79 | 5949308.22 |
| SV14 | 1749108.89 | 5949295.33 |
| SV15 | 1749109.44 | 5949295.22 |
| SV16 | 1749180.67 | 5949277.25 |

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 223 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

WOODS
EST.1970

## 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. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
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.
8. EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS

## LEGEND

- EXISTING WATERMAIN
- HIGH PESSURE WATERMAIN
- LOW PRESSURE WATERMAIN
- SLUICE VALVE
- PEET VALVE
- FIRE HYDRANT
- TAPPING BAND
- BLANK CAP
- MANIFOLD BOX (MB)
- STAGE BOUNDARY

| REVISION DETAILS | | BY | DATE |
|---|---|---|---|
| 1 | ISSUED FOR INFORMATION | KR | 29/08/19 |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| SURVEYED | WOODS | WOODS Ltd<br>LEVEL 1 BUILDING B,<br>8 NUGENT STREET, GRAFTON<br>AUCKLAND 1023<br>09 308 9229 |
| DESIGNED | MB | |
| DRAWN | SK | |
| CHECKED | NC | |
| APPROVED | MB | WOODS.CO.NZ |

N

WFH PROPERTIES

# MILLWATER PRECINCT 5 OREWA WEST STAGES 4 & 3B

## WATERMAIN AS-BUILT SHEET 3 OF 3

| | | |
|---|---|---|
| STATUS | AS-BUILT | REV |
| SCALE | 1:750 @ A3 | 1 |
| COUNCIL | AUCKLAND COUNCIL | |
| DWG NO | 37504-04-03B-602-AB | |

Document No. K:\37504-ARRAN HILL PRECINCT 5 STAGE 4\DRAWINGS\SURVVAS-BUILT\4 & 3B\37504_P5_04_03B_WATERMAIN.DWG