



Coatesville Riverhead Highway

Kaipara Portage Road

Jelas Drive

Ponutukawa Parade

3
DP 460591

2
DP 4875

PFR884/A

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 NZGD(2000), and are within ±50mm.
 The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum) and are within ±25mm.

Signed: 
 Licensed Cadastral Surveyor

Date: 23/10/13

Name: Michelle Bain

Phone: 09 427 0072

Email: catobolam@catobolam.co.nz



FUTURE
STAGE

NOTES

GENERAL

1. Contours are finished ground levels as surveyed at 14/08/2013. Contour interval of 0.5m
2. Levels are in terms of LINZ Datum 1946.
3. Coordinates are in terms of NZTM.

As Built Earthworks Legend

-  35.0 As built Contour (1m interval)
-  35.5 As built Contour (0.5m interval)

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No.	REVISION (DESCRIPTIONS)	NAME	DATE
01	Levels amended	BM	15-10-13

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Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

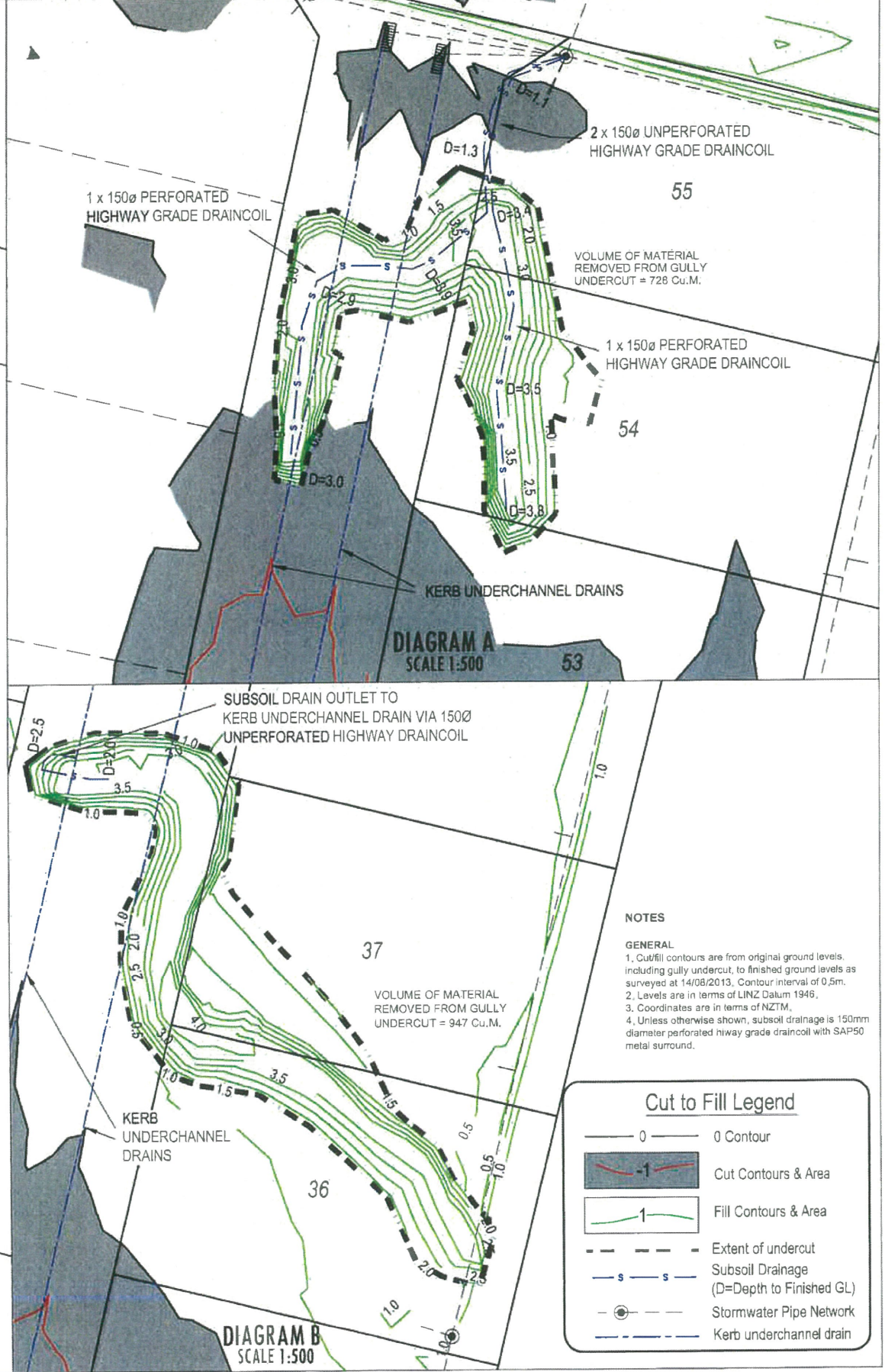
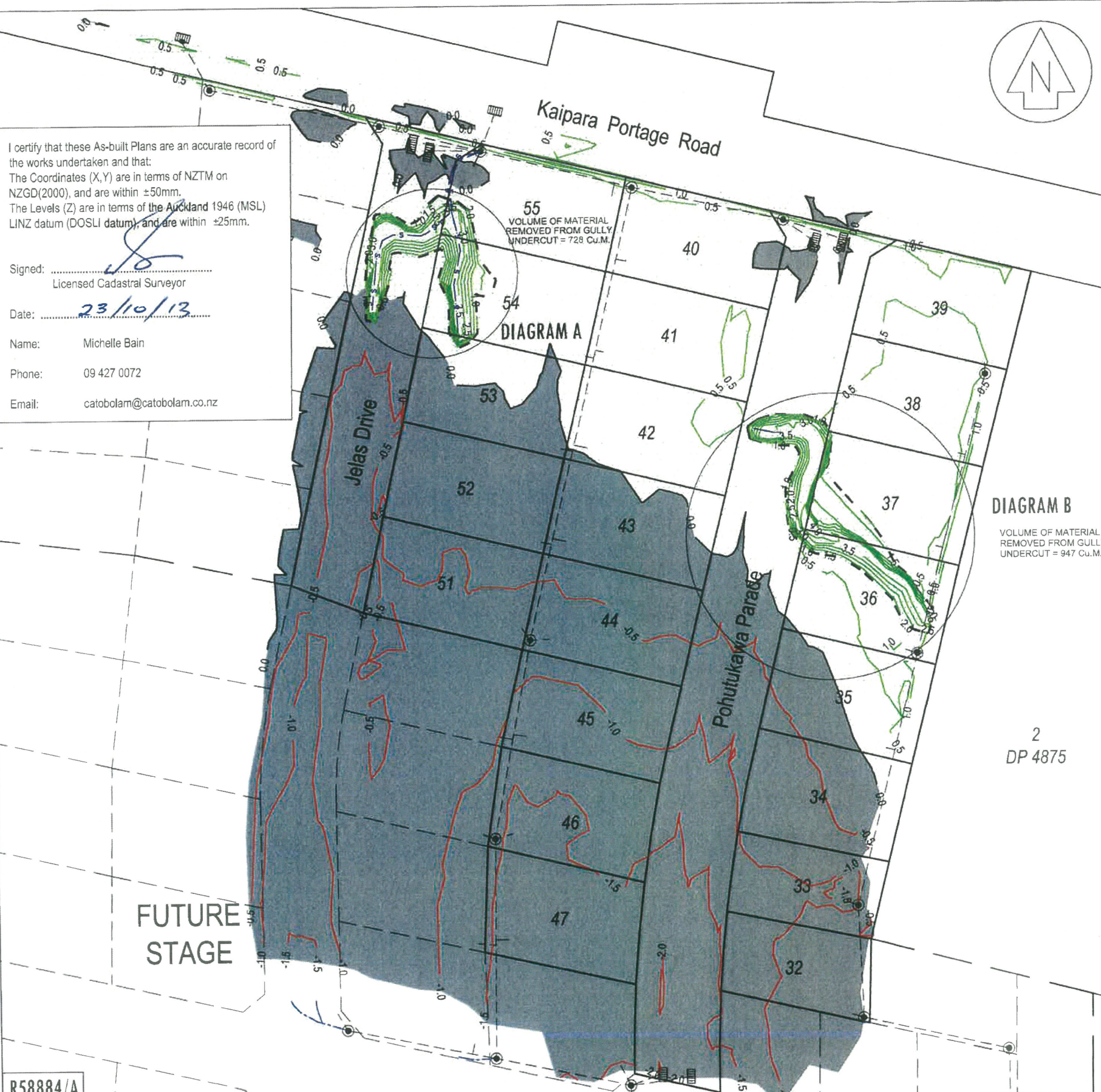
DRAWING TITLE
Stages J4 & J5B
Final Contour Level
As Built Plan

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ORIGINAL SCALE 1:1000	ORIGINAL SIZE A3	REVISION NO R1
DATE 15/10/13	CAD REFERENCE 31132 Stg 1 Asb Contour	SHEET NO E600
DIRECTORY J:\31132\ACAD\Asbuilt		JOB NO 31132

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NOTES
GENERAL
 1. Cut/fill contours are from original ground levels, including gully undercut, to finished ground levels as surveyed at 14/08/2013. Contour interval of 0.5m.
 2. Levels are in terms of LINZ Datum 1946.
 3. Coordinates are in terms of NZTM.
 4. Unless otherwise shown, subsoil drainage is 150mm diameter perforated highway grade draincoil with SAP50 metal surround.

Cut to Fill Legend

	0 Contour
	Cut Contours & Area
	Fill Contours & Area
	Extent of undercut
	Subsoil Drainage (D=Depth to Finished GL)
	Stormwater Pipe Network
	Kerb underchannel drain

R58884/A

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No.	REVISION (DESCRIPTIONS)	NAME	DATE
R1	Subsoil drainage added	BM	15-10-13
	SURVEYED	BJ	08-13
	DESIGNED		
	DRAWN	BM	08-13
	CHECKED		
	APPROVED		

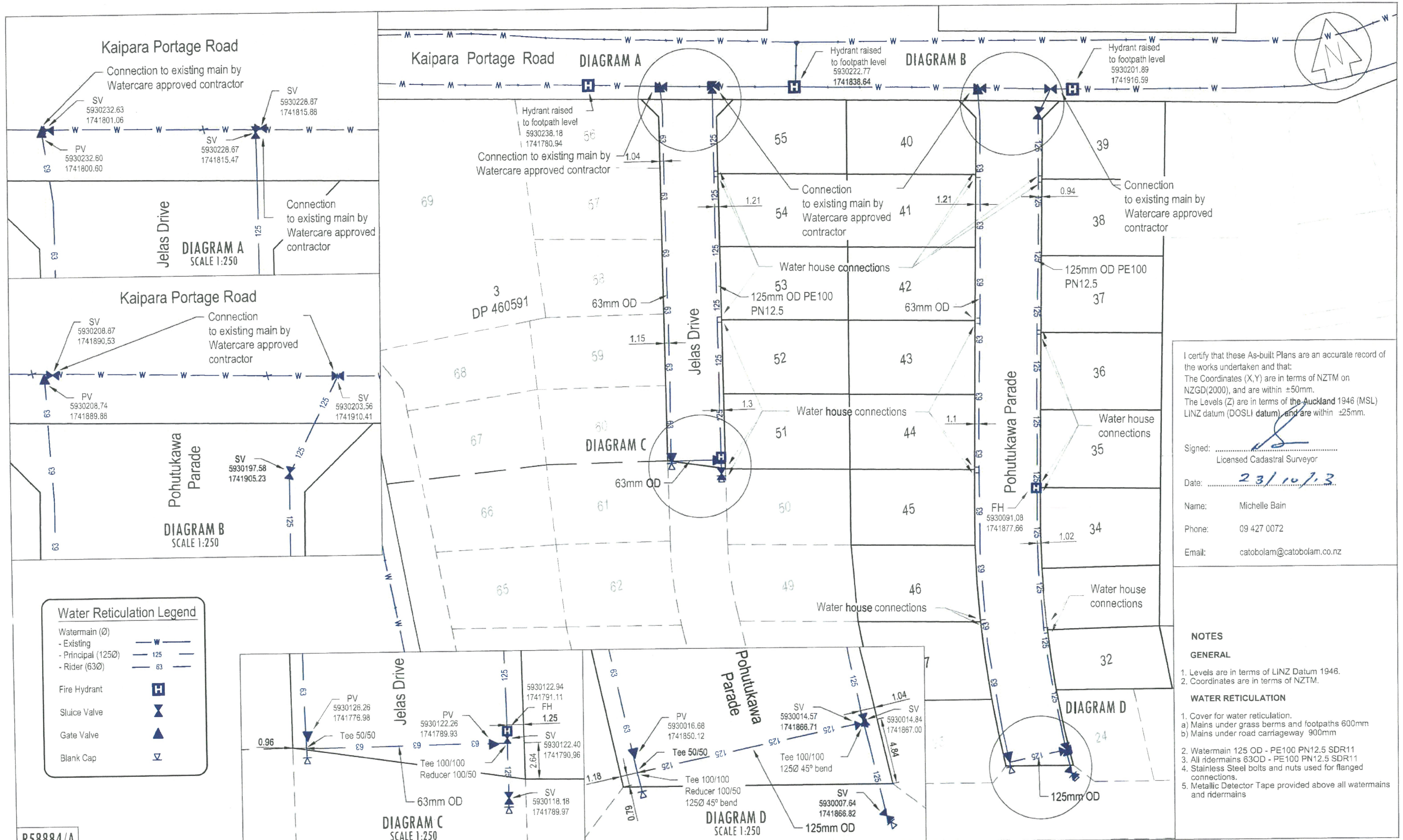
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 Kaipara Portage Road
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DRAWING TITLE
Stages J4 & J5B
Cut and Fill Contour
As Built Plan

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ORIGINAL SCALE 1:1000	ORIGINAL SIZE A3	REVISION NO R1
DATE 15/10/13	CAD REFERENCE 31132 Sig 1 Asb Cut Fill	SHEET NO E601
DIRECTORY J:\31132\Acad\Asbuilt		JOB NO 31132



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- NOTES**
- GENERAL**
- Levels are in terms of LINZ Datum 1946.
 - Coordinates are in terms of NZTM.
- WATER RETICULATION**
- Cover for water reticulation.
 - Mains under grass berms and footpaths 600mm
 - Mains under road carriageway 900mm
 - Watermain 125 OD - PE100 PN12.5 SDR11
 - All rider mains 63OD - PE100 PN12.5 SDR11
 - Stainless Steel bolts and nuts used for flanged connections.
 - Metallic Detector Tape provided above all watermains and rider mains

Water Reticulation Legend

- Watermain (Ø)
 - Existing (solid line)
 - Principal (125Ø) (dashed line)
 - Rider (63Ø) (dotted line)
- Fire Hydrant (FH symbol)
- Sluice Valve (SV symbol)
- Gate Valve (GV symbol)
- Blank Cap (BC symbol)

RS8884/A

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No.	REVISION (DESCRIPTIONS)	NAME	DATE

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SURVEYED	BJ	8-13
DESIGNED	TL	12-12
DRAWN	BM	9-13
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APPROVED		

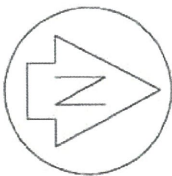
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 Kaipara Portage Road
 Riverhead

DRAWING TITLE
Stages J4 & J5B
Water Reticulation
As Built Plan

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
15/10/13	31132 Stg1AsbWater	E602
DIRECTORY	IMAGE FILE	JOB NO
J:31132\Acad		31132



- NOTES**
- GENERAL**
1. Levels are in terms of LINZ Datum 1946.
 2. Coordinates are in terms of NZTM.
 3. All infrastructure is public unless otherwise shown.



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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1500	A3	
DATE	CAD REFERENCE	SHEET NO
15/10/13	31132 Sign AsB SW	E603
DIRECTORY		JOB NO
A31132/KAD/Abah		31132

No.	REVISION (DESCRIPTIONS)	NAME	DATE
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	DRAWN	BM	09-13
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	APPROVED		

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 Kaipara Portage Road
 Riverhead

DRAWING TITLE

Stages JA & JB
Stormwater As Built Plan
 Sheet 1 of 3

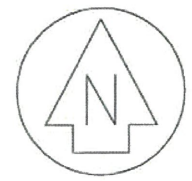
Coatesville Riverhead Highway

3
DP 460591

FUTURE
STAGE

R58884/A

DIAGRAM A
Kaipara Portage Road



Kaipara Portage Road

DIAGRAM A
SCALE 1:250

Kaipara Portage Road

DIAGRAM B
SCALE 1:250

Jelas Drive

Pohutukawa Parade

2
DP 4875

Drainage Legend

- New Stormwater
- Cesspit
- Subsoil Drainage
- Kerb underchannel drain

NOTES

- GENERAL**
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 - Coordinates are in terms of NZTM.
 - All infrastructure is public unless otherwise shown.
- STORMWATER**
- All pipes are Class 3 reinforced concrete rubber ring jointed (RCRRJ), unless otherwise shown.
 - Bedding is H2 type unless otherwise stated.
 - All catchpits are 675mm x 450mm steel grate lids unless otherwise shown.
 - All lot connections are 100Ø uPVC SEH-C unless otherwise stated.

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Kaipara Portage Road
Riverhead

DRAWING TITLE
Stages J4 & J5B
Stormwater As Built Plan
Sheet 2 of 3

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
15/10/13	31132 Stg1 Asb SW	E604
DIRECTORY	IMAGE FILE	JOB NO
J:\31132\ACAD\Asb\		31132

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FUTURE STAGE

STORMWATER MANHOLE COORDINATES (NZTM)

M ¹	East	North
A/4	1741862.28	5929907.10
A/5	1741853.95	5929944.57
A/6	1741848.06	5929986.49
A/7	1741847.91	5930011.95
A/8	1741818.21	5930018.80
A/9	1741819.49	5930067.86
A/10	1741828.43	5930112.03
A/11	1741853.37	5930213.01
A/12	1741820.11	5930222.07
A/13	1741797.60	5930228.26
A/14	1741760.53	5930237.35
C/1	1741785.42	5930025.97
D/2	1741899.20	5929910.08
D/2 ^o	1741931.61	5929939.95
L/1	1741926.36	5929971.81
D/5	1741932.40	5929991.03
D/6	1741932.76	5930017.76
D/7	1741900.39	5930025.57
D/8	1741899.83	5930050.70
D/9	1741914.53	5930106.66
D/10	1741931.11	5930168.89
F/2	1741933.56	5929909.28
K/1	1741886.92	5930204.84

CATCHPIT COORDINATES (NZTM)

CP	East	North
CP-1	1741754.65	5930248.29
CP-2	1741823.28	5930230.12
CP-3	1741804.11	5930224.75
CP-3A	1741803.90	5930223.78
CP-4	1741809.43	5930222.54
CP-4A	1741809.20	5930221.51
CP-5	1741892.81	5930200.30
CP-5A	1741900.87	5930198.73
CP-6	1741901.14	5930199.67
CP-6A	1741892.31	5930198.34
CP-7	1741854.25	5930014.14
CP-8	1741862.31	5930013.59

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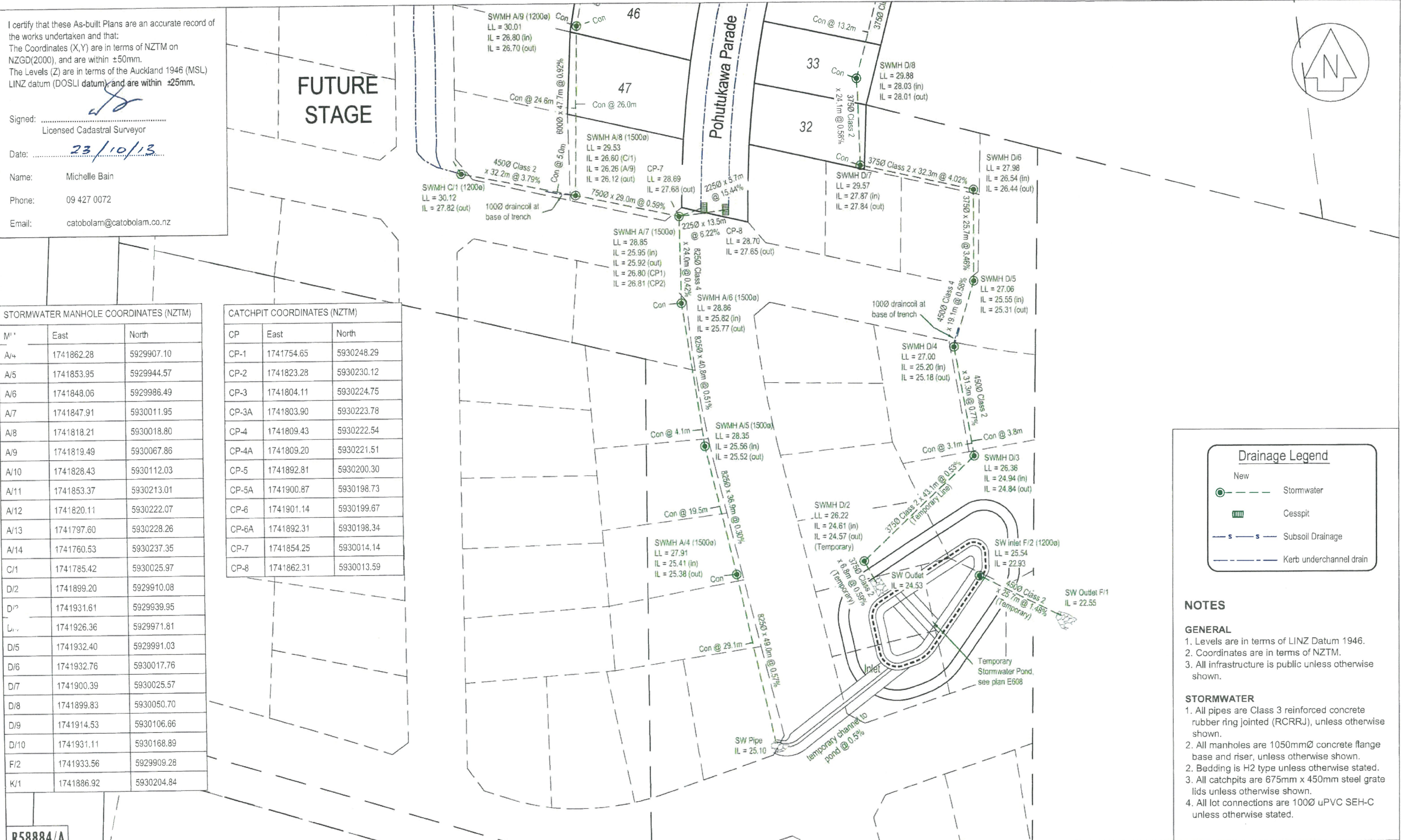
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 Kaipara Portage Road
 Riverhead

DRAWING TITLE
Stages J4 & J5B
Stormwater As Built Plan
 Sheet 3 of 3

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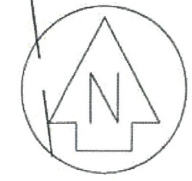
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1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
15/10/13	31132 Sig1 Asb SW	E605
DIRECTORY	IMAGE FILE	JOB NO
J:\31132\ACAD\Asbuilt		31132

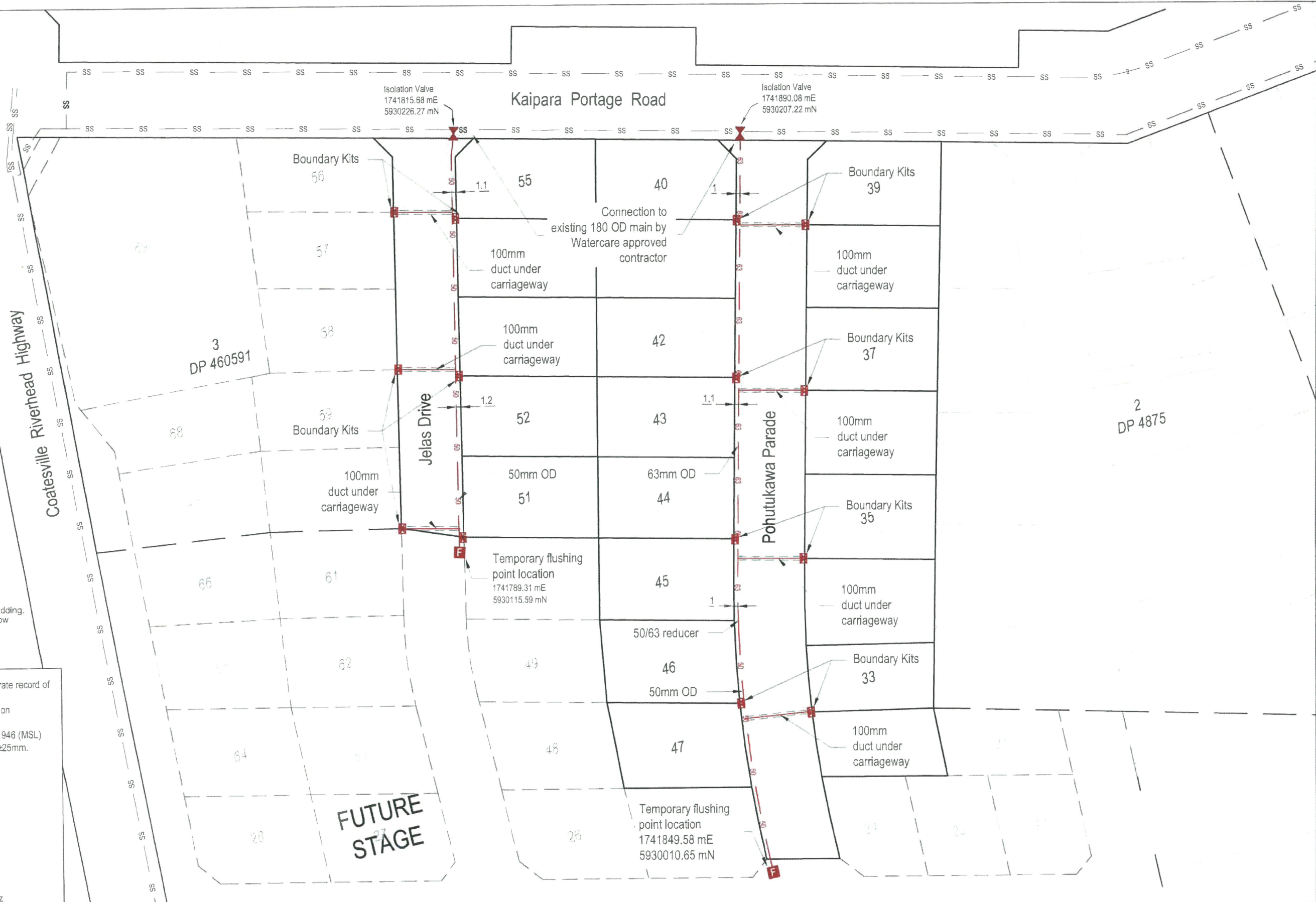


Drainage Legend

- New
- Stormwater
- Cesspit
- Subsoil Drainage
- Kerb underchannel drain

- NOTES**
- GENERAL**
- Levels are in terms of LINZ Datum 1946.
 - Coordinates are in terms of NZTM.
 - All infrastructure is public unless otherwise shown.
- STORMWATER**
- All pipes are Class 3 reinforced concrete rubber ring jointed (RCRRJ), unless otherwise shown.
 - All manholes are 1050mmØ concrete flange base and riser, unless otherwise shown.
 - Bedding is H2 type unless otherwise stated.
 - All catchpits are 675mm x 450mm steel grate lids unless otherwise shown.
 - All lot connections are 100Ø uPVC SEH-C unless otherwise stated.





Drainage Legend

- PWC Sewer (New) — 63 —
- PWC Sewer (Existing) — SS —
- Isolation Valve
- Flushing Point
- Direction of Flow
- Boundary Kit

- NOTE**
1. Levels are in terms of LINZ Datum.
 2. Coordinates are in terms of NZTM.
 3. All pipework is PE100 PN16 with SAP7 bedding.
 4. Depth of lines are approximately 0.6m below finished ground level.

R58884/A

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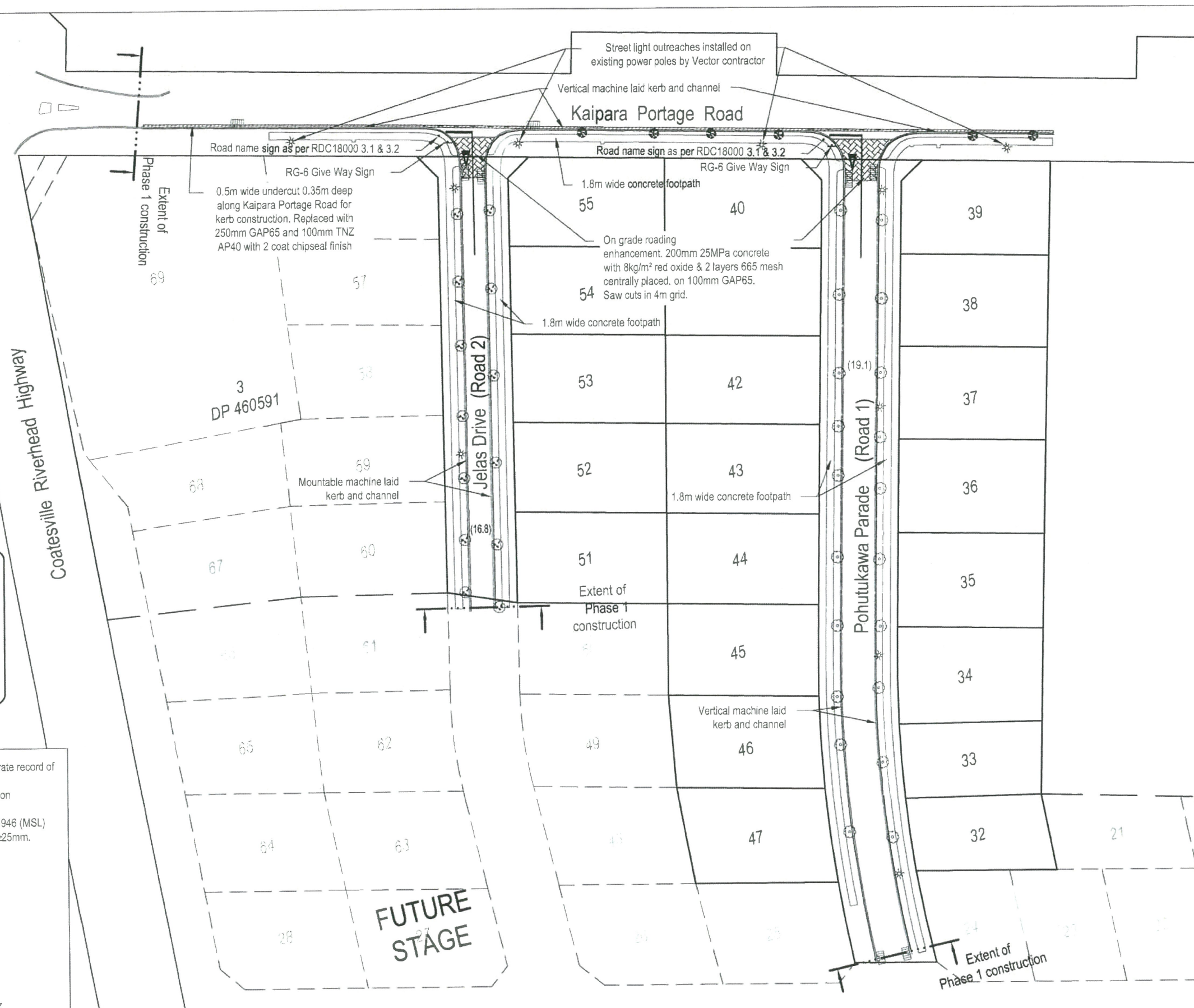
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 Kaipara Portage Road
 Riverhead

DRAWING TITLE

PWC Wastewater Reticulation
 As Built Plan
 Stages J4 & J5B

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ORIGINAL SCALE 1:1000	ORIGINAL SIZE A3	REVISION NO
DATE 15/10/13	CAD REFERENCE 31132 Sig 1 Asa Sewer	SHEET NO E606
DIRECTORY J:\31132\Acad	IMAGE FILE	JOB NO 31132



Street light outreaches installed on existing power poles by Vector contractor

Vertical machine laid kerb and channel

Kaipara Portage Road

Road name sign as per RDC18000 3.1 & 3.2

Road name sign as per RDC18000 3.1 & 3.2

RG-6 Give Way Sign

55

40

39

0.5m wide undercut 0.35m deep along Kaipara Portage Road for kerb construction. Replaced with 250mm GAP65 and 100mm TNZ AP40 with 2 coat chipseal finish

On grade roading enhancement. 200mm 25MPa concrete with 8kg/m² red oxide & 2 layers 665 mesh centrally placed. on 100mm GAP65. Saw cuts in 4m grid.

54

38

1.8m wide concrete footpath

53

42

37

3 DP 460591

52

43

36

Mountable machine laid kerb and channel

1.8m wide concrete footpath

51

44

35

Extent of Phase 1 construction

50

45

34

Vertical machine laid kerb and channel

49

46

33

65

62

48

47

32

64

63

FUTURE STAGE

Extent of Phase 1 construction

2 DP 4875

Road Legend

- Street Trees - Liriodendron
- Street Trees - Ginkgo
- Street Trees - Pohutukawa
- Street Light - 8m Spunlite poles with Amber (100W cosmo) light

P58884/A

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NOTES

GENERAL

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2. Coordinates are in terms of NZTM.
3. All infrastructure is public unless otherwise shown.

Pavement Formation

Road 1 - Pohutukawa Parade
 Subgrade - undercut by 350mm; replaced with woodhill sand fully wrapped in Bidim A19 geotextile cloth.
 Subbase - 250mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm hotmix on grade 4 chipseal

Road 2 - Jelas Drive
 Subgrade - undercut 500mm; replaced with woodhill sand fully wrapped in Bidim A19 geotextile cloth.
 Subbase - 150mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm hotmix on grade 4 chipseal

Footpaths - 125mm thick 20MPa concrete

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CLIENT
Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

DRAWING TITLE
Stages J4 & J5B
Road As Built Plan

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ORIGINAL SCALE 1:1000	ORIGINAL SIZE A3	REVISION NO
DATE 15/10/13	CAD REFERENCE 31132 Stg 1 Asb Road	SHEET NO E607
DIRECTORY J:\31132\ACAD\Asbuilt	IMAGE FILE	JOB NO 31132

