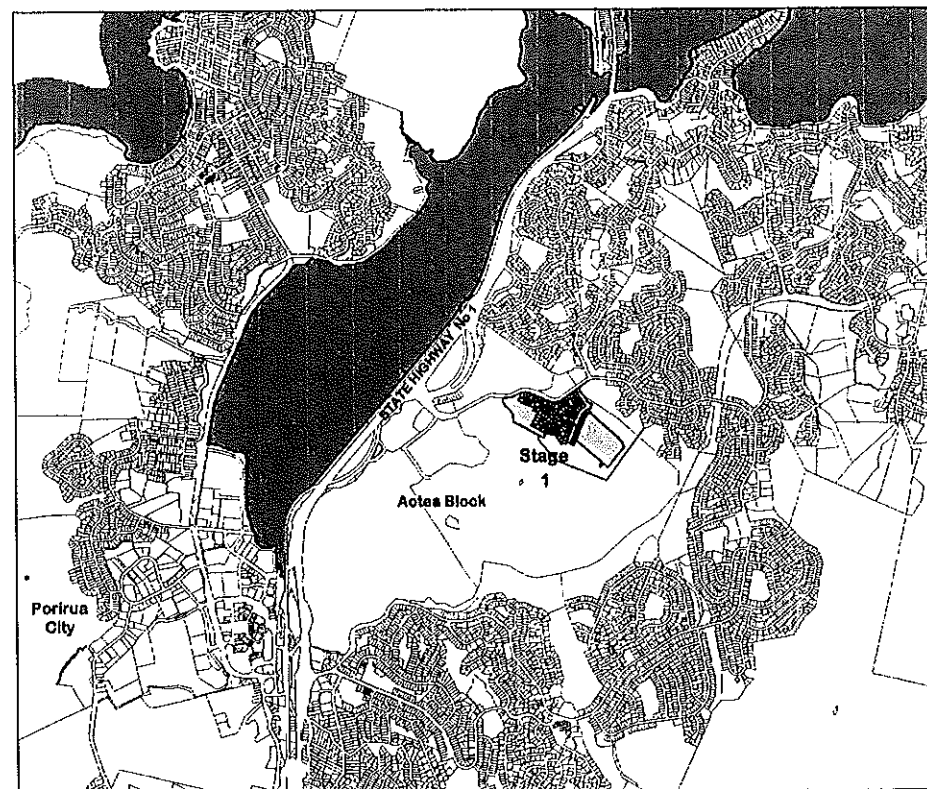
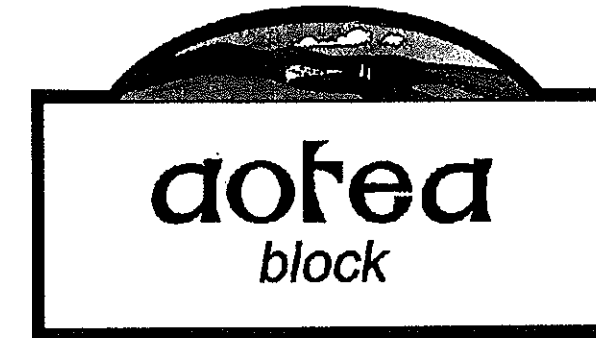


# CARRUS LIMITED

## AOTEA BLOCK - PORIRUA

### STAGE 1 AS-BUILTS



Locality Plan  
Scale 1:25,000

00417-AB200	Earthworks As-Builts
	Finished Subgrade Contours
00417-AB300	Roading As-Built
	Overall Layout And Lights
00417-AB400	Drainage As-Builts Overall Layout
00417-AB401	Drainage As-Builts (Sheet 1 Of 3)
00417-AB402	Drainage As-Builts (Sheet 2 Of 3)
00417-AB403	Drainage As-Builts (Sheet 3 Of 3)
00417-AB600	Watermain As-Built Overall Layout
00417-AB601	Watermain As-Built (Sheet 1 of 4)
00417-AB602	Watermain As-Built (Sheet 2 of 4)
00417-AB603	Watermain As-Built (Sheet 3 of 4)
00417-AB604	Watermain As-Built (Sheet 4 of 4)



HARRISON  
GRIERSON

AS-BUILT

95 00417.1  
June 2004



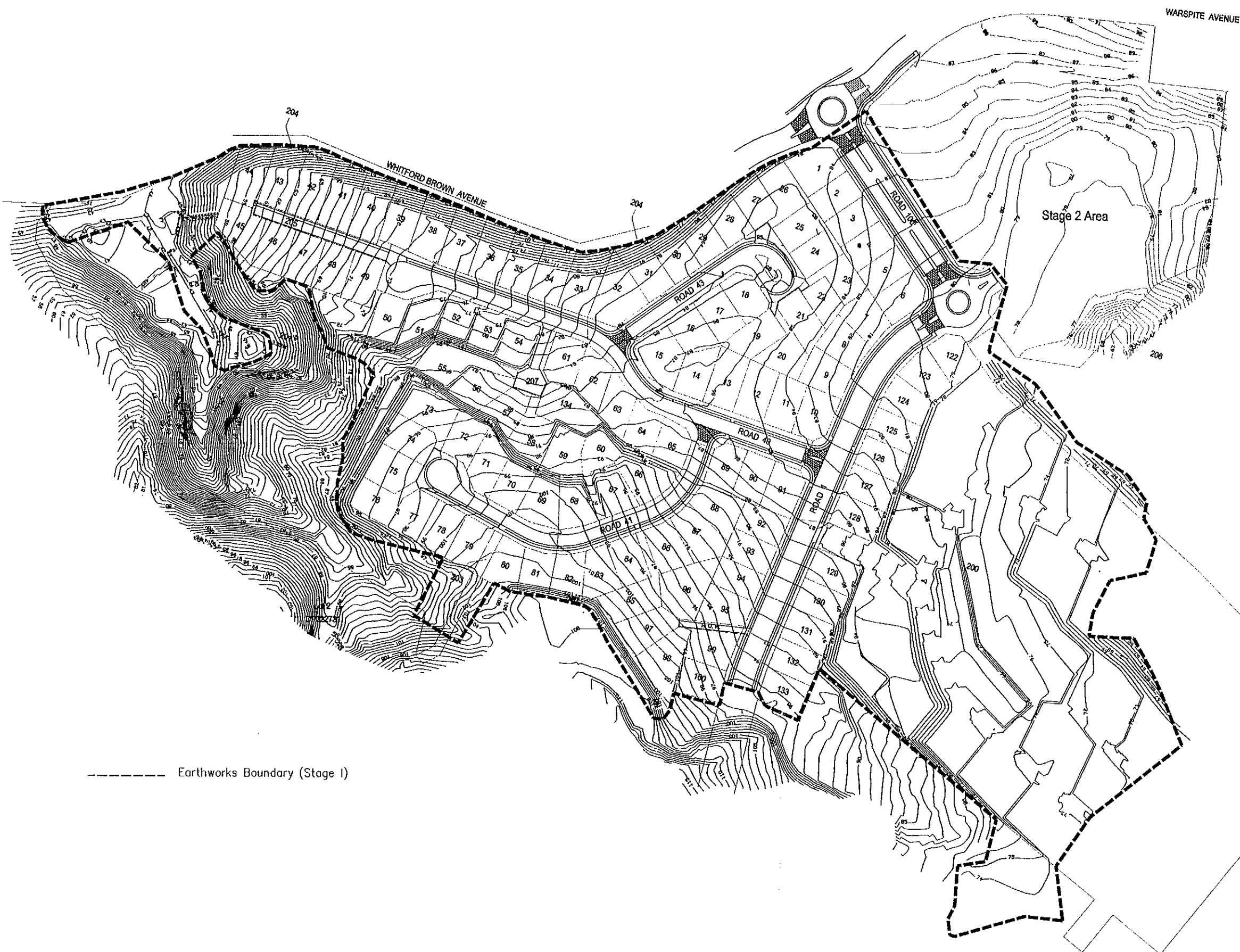
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NOTE:

1. TOPSOIL OF APPROX. 0.3M HAS BEEN LAID ON  
ALL SUBGRADE.



----- Earthworks Boundary (Stage 1)



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CONSULTING ENGINEERS SURVEYORS PLANNERS  
Level 26 Grand Planner Tower 2-6 Glens Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

REF	AMENDMENT	BY	DATE

PROJECT:

CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE:

EARTHWORKS AS-BUILT  
FINISHED SUBGRADE CONTOURS

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
PIWJ			14/06/04
DRAWN:	DATE:	SIGNATURE:	CAD REF:
SIK	09/06/04		00417-AB200
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
MJT			RZK
			SURVEY DATE:
			06/04
			SUR REF:

PLOT STATUS:

PROJECT No:	SCALES:	A1
95 00417.1	1:1250 1:2500 (A3)	
DRAWING No:		REV

00417-AB200



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Level 26 Grand Pinnacle Tower 2-6 Galer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

B	LOTS 21,69 & 92 SS COHN. MEASUREMENTS ADJUSTED	GAW	20/07/04
A	INITIAL RELEASE	GAW	14/08/01
REF	AMENDMENT	BY	DATE

REF	JOIN
PROJECT:	

CARRUS LIMITED  
AOTEA BLOCK  
STAGE 1

TITLE:
--------

## DRAINAGE AS-BUILTS

### OVERALL LAYOUT

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE: 14/06/04
DRAWN:	DATE:	SIGNATURE:	CAD REF: 00417-AB400 TO AB403
GAW	14/06/04		CAD XREF:
CHECKED:	DATE:	SIGNATURE:	SURVEY BY: RZK
MNT	16/06/04		SURVEY DATE: 05/04 & 06/04
APPROVED:	DATE:	SIGNATURE:	SDR REF:
SJK	18/06/04		

PLOT STADS

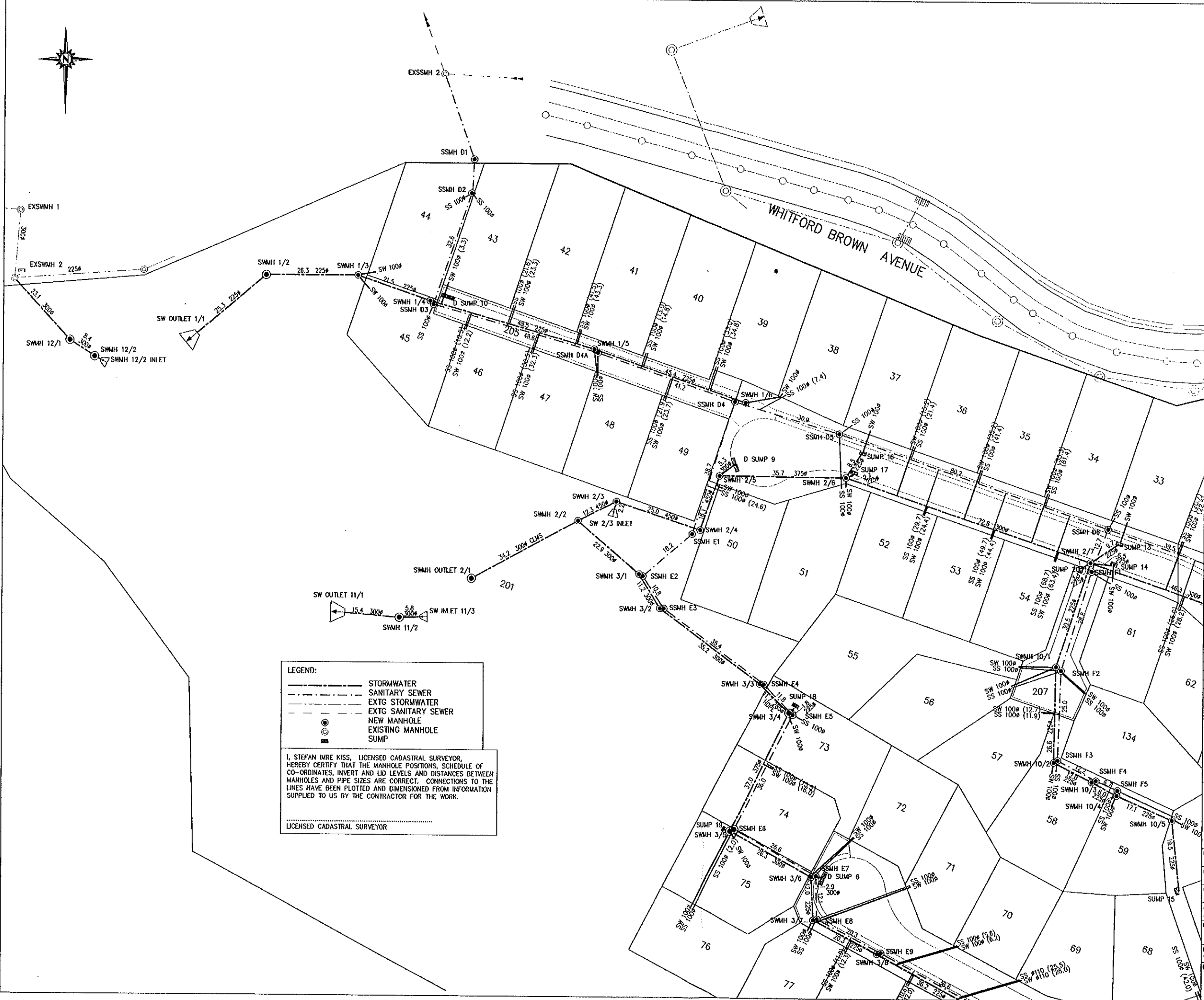
PROJECT No: 95 00417.1	SCALE: 1:1000 1:2000 (A3)	A1
DRAWING No:		REV

00417-AB400

**B**

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- NOTE:
1. ALL STORMWATER MAINS AND SUMP LEADS ARE RCRRJ CLASS X UNLESS OTHERWISE STATED.
  2. ALL SANITARY SEWER MAINS ARE 150Ø uPVC PIPE.
  3. ALL STORMWATER AND SANITARY SEWER LOT CONNECTIONS ARE 100Ø UNLESS OTHERWISE STATED.
  4. CONNECTION DISTANCES ARE FROM DOWNSTREAM MANHOLE.



**LEGEND:**

- STORMWATER
- SANITARY SEWER
- EXTG STORMWATER
- EXTG SANITARY SEWER
- NEW MANHOLE
- EXISTING MANHOLE
- SUMP

I, STEFAN IMRE KISS, LICENSED CADASTRAL SURVEYOR, HEREBY CERTIFY THAT THE MANHOLE POSITIONS, SCHEDULE OF CO-ORDINATES, INVERT AND LID LEVELS AND DISTANCES BETWEEN MANHOLES AND PIPE SIZES ARE CORRECT. CONNECTIONS TO THE LINES HAVE BEEN PLOTTED AND DIMENSIONED FROM INFORMATION SUPPLIED TO US BY THE CONTRACTOR FOR THE WORK.

LICENSED CADASTRAL SURVEYOR

**HARRISON GRIERSON**  
CONSULTING ENGINEERS SURVEYORS PLANNERS  
Level 26 Grand Pinnacle Tower 2-6 Giltner Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

B	LOTS 21, 69 & 92 SS CORR. MEASUREMENTS ADJUSTED	GAW	20/07/04
A	INITIAL RELEASE	GAW	14/06/04
REF	AMENDMENT	BY	DATE

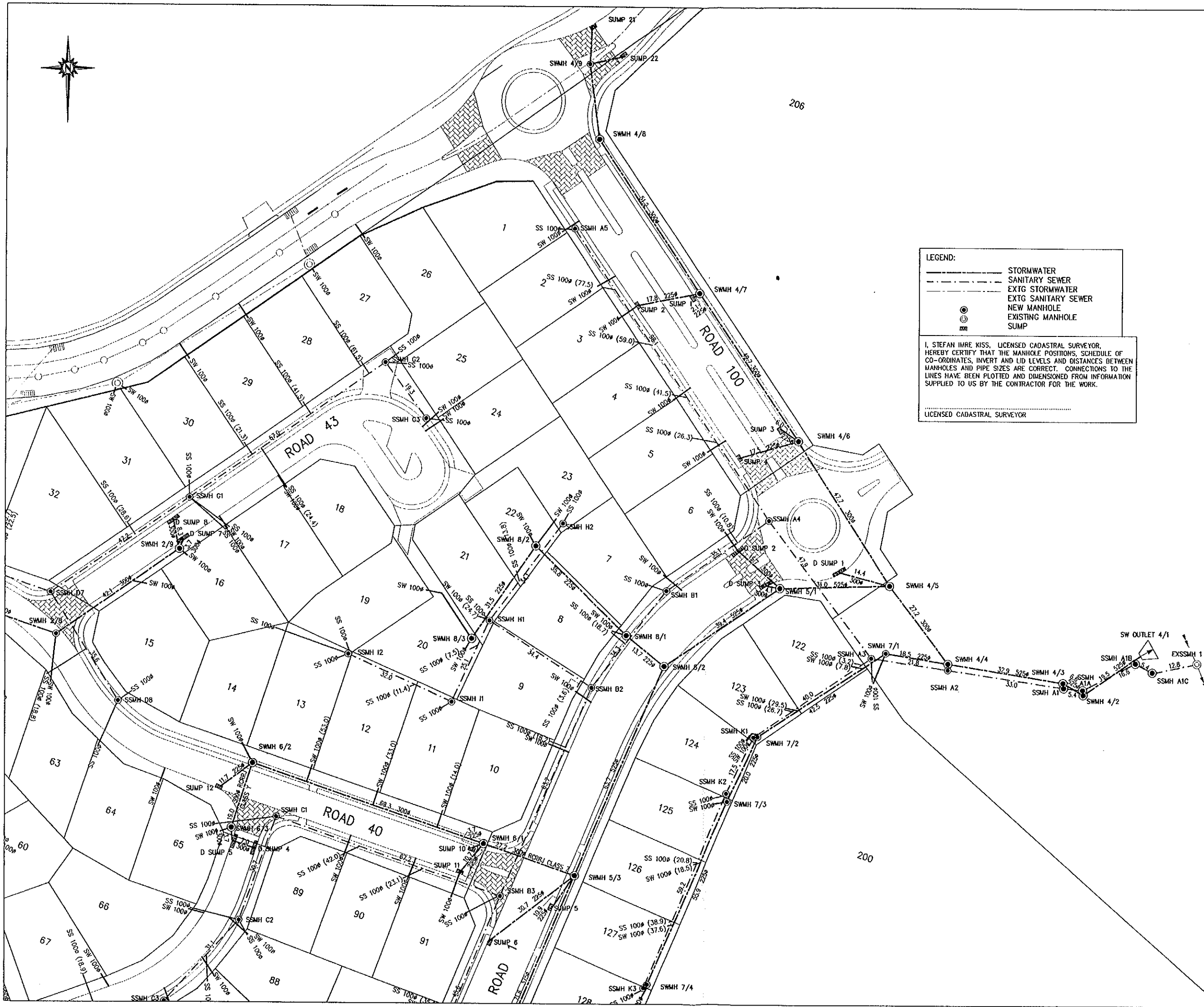
PROJECT: **CARRUS LIMITED AOTEA BLOCK STAGE 1**

TITLE: **DRAINAGE AS-BUILTS SHEET 1 OF 3**

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
GAW	14/06/05		14/06/04
CHECKED:	DATE:	SIGNATURE:	CAD REF:
MNT	16/06/04		00417-AB400 TO AB403
APPROVED:	DATE:	SIGNATURE:	CAD XREF:
SIK	18/06/04		
			SURVEY BY:
			RZK
			SURVEY DATES: 05/04 & 06/04
			SUR. REF:

PROJECT No:	95 00417.1	SCALE:	1:500	A1
DRAWING No:			1:1000 (A3)	REV
				B

00417-AB401



**LEGEND:**

- STORMWATER
- SANITARY SEWER
- EXTG STORMWATER
- EXTG SANITARY SEWER
- NEW MANHOLE
- EXISTING MANHOLE
- SUMP

I, STEFAN IMRE KISS, LICENSED CADASTRAL SURVEYOR, HEREBY CERTIFY THAT THE MANHOLE POSITIONS, SCHEDULE OF CO-ORDINATES, INVERT AND LID LEVELS AND DISTANCES BETWEEN MANHOLES AND PIPE SIZES ARE CORRECT. CONNECTIONS TO THE LINES HAVE BEEN PLOTTED AND DIMENSIONED FROM INFORMATION SUPPLIED TO US BY THE CONTRACTOR FOR THE WORK.

LICENSED CADASTRAL SURVEYOR

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

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**NOTE:**

- ALL STORMWATER MAINS AND SUMP LEADS ARE RCRRJ CLASS X UNLESS OTHERWISE STATED.
- ALL SANITARY SEWER MAINS ARE 150Ø uPVC PIPE.
- ALL STORMWATER AND SANITARY SEWER LOT CONNECTIONS ARE 100Ø UNLESS OTHERWISE STATED.
- CONNECTION DISTANCES ARE FROM DOWNSTREAM MANHOLE.

**HARRISON GRIERSON**  
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Level 26 Grand Plimmer Tower 2-6 Corner Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

B	LOTS 21, 69 & 92 SS CONN. MEASUREMENTS ADJUSTED	GAW	20/07/04
A	INITIAL RELEASE	GAW	14/06/04
REF	AMENDMENT	BY	DATE

PROJECT: **CARRUS LIMITED AOTEA BLOCK STAGE 1**

TITLE: **DRAINAGE AS-BUILTS SHEET 2 OF 3**

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
GAW	14/06/05		14/06/04
CHECKED:	DATE:	SIGNATURE:	CAD REF:
MNT	16/06/04		0417-AB402 TO AB403
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
SIK			RZK
			SURVEY DATE:
			05/04&06/04
			SUR REF:

PLOT STATUS:

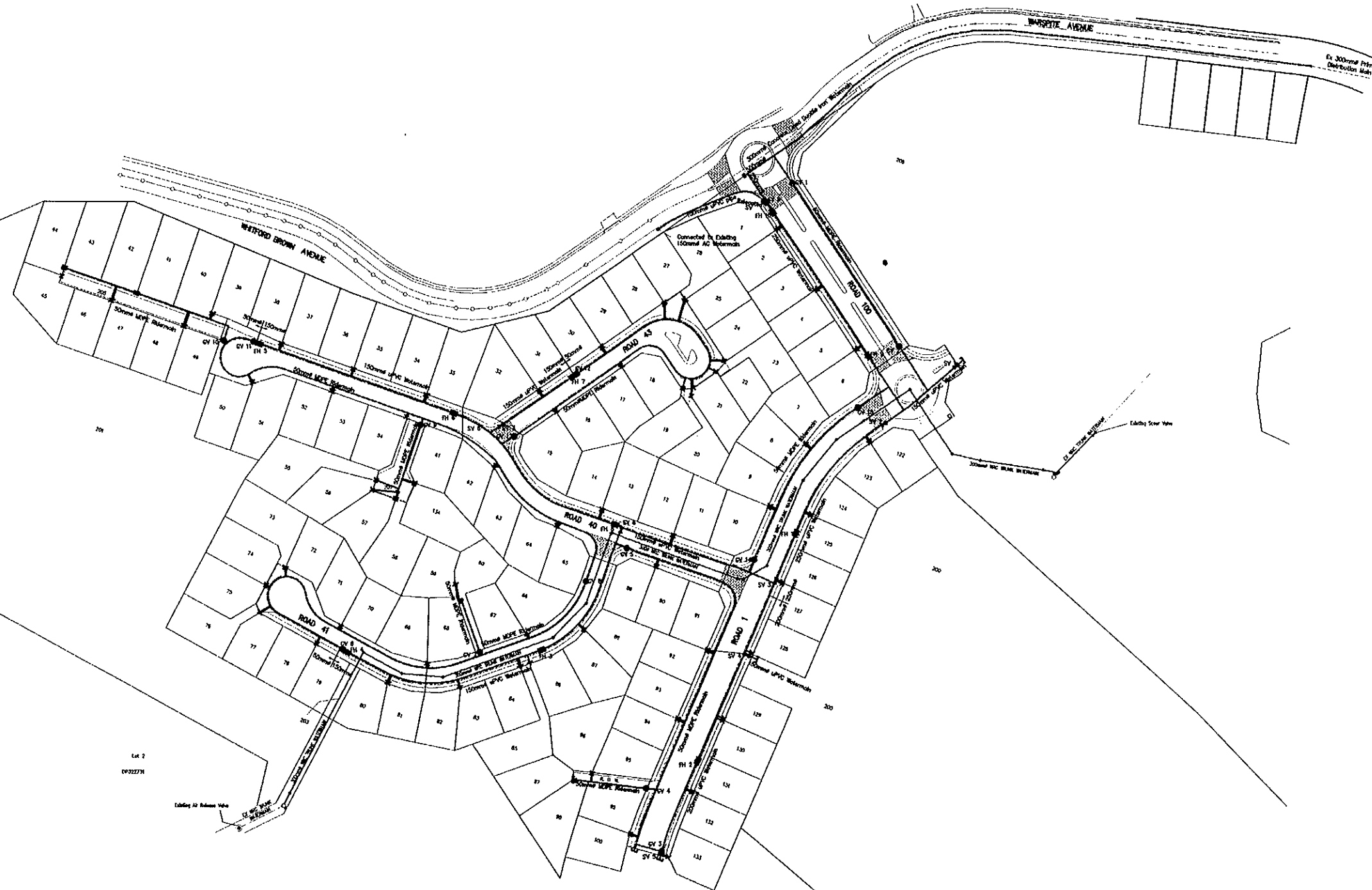
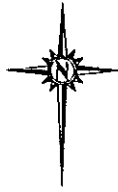
PROJECT No:	SCALE:	
95 00417.1	1:500 1:1000 (A3)	A1
DRAWING No:		REV


**00417-AB402**

**B**










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Level 26 Grand Pinnacle Tower 2-6 Giltner Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

REF	AMENDMENT	BY	DATE
A	INITIAL RELEASE		

PROJECT:

CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE:

WATERMAIN AS-BUILT  
OVERALL LAYOUT

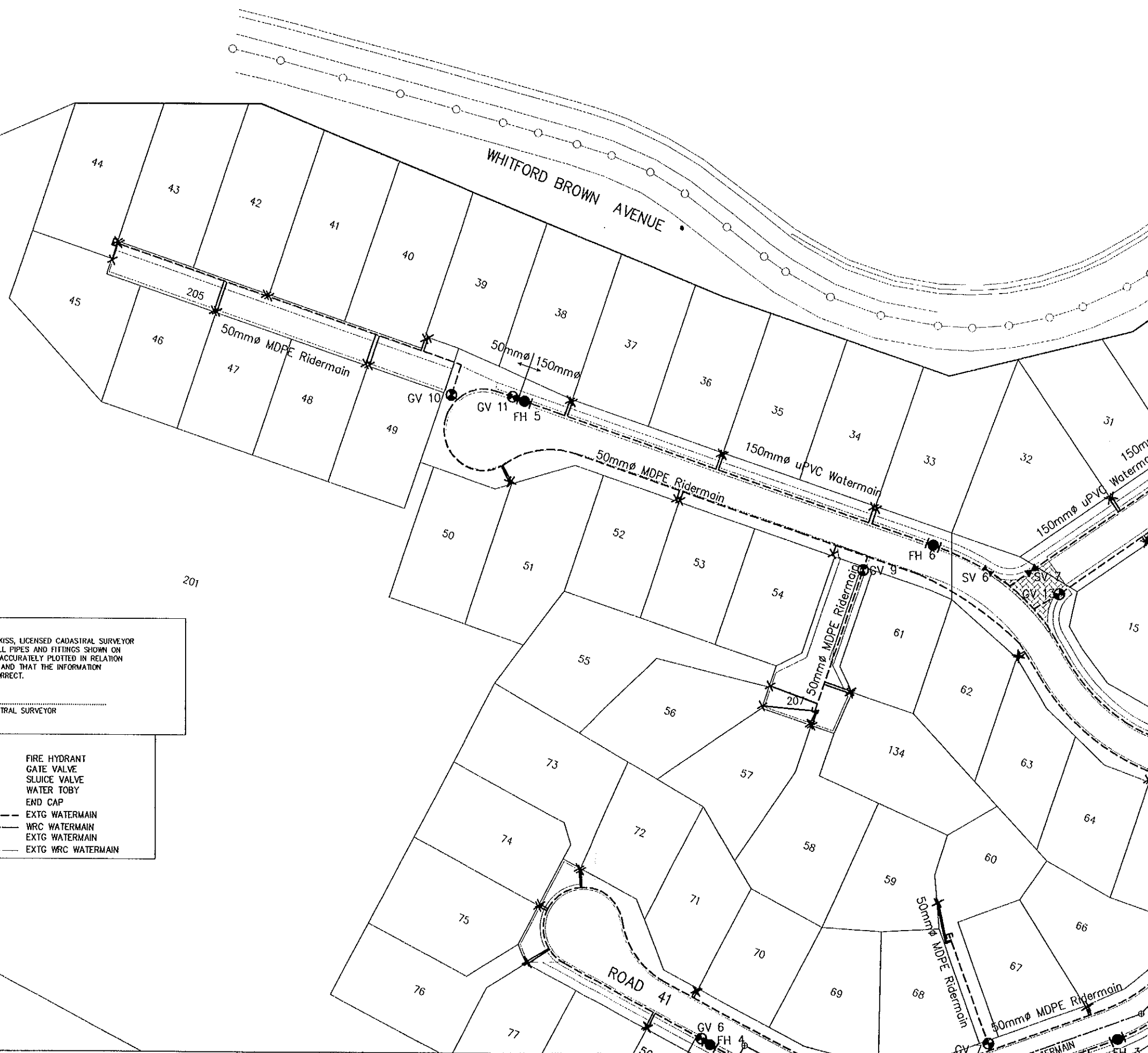
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DRAWN:	DATE:	SIGNATURE:	CAD REF:
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
			SURVEY DATE:
			SDR REF:

PLOT STATUS:

PROJECT No:	SCALE:	A1
DRAWING No:	1:1250 1:2500 (A3)	REV

00417-AB600

A



I, STEFAN IMRE KISS, LICENSED CADASTRAL SURVEYOR  
CERTIFY THAT ALL PIPES AND FITTINGS SHOWN ON  
THIS PLAN ARE ACCURATELY PLOTTED IN RELATION  
TO BOUNDARIES AND THAT THE INFORMATION  
RECORDED IS CORRECT.

LICENSED CADASTRAL SURVEYOR

LEGEND:

- FIRE HYDRANT
- GATE VALVE
- SLUICE VALVE
- WATER TOBY
- END CAP
- EXTG WATERMAIN
- WRC WATERMAIN
- EXTG WATERMAIN
- EXTG WRC WATERMAIN

**HARRISON  
GRIERSON**  
CONSULTING ENGINEERS SURVEYORS PLANNERS  
Level 26 Grand Pinnacle Tower 2-6 Corner Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A INITIAL RELEASE  
REF AMENDMENT BY DATE

PROJECT: CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE: WATERMAIN AS-BUILT  
SHEET 1 OF 4

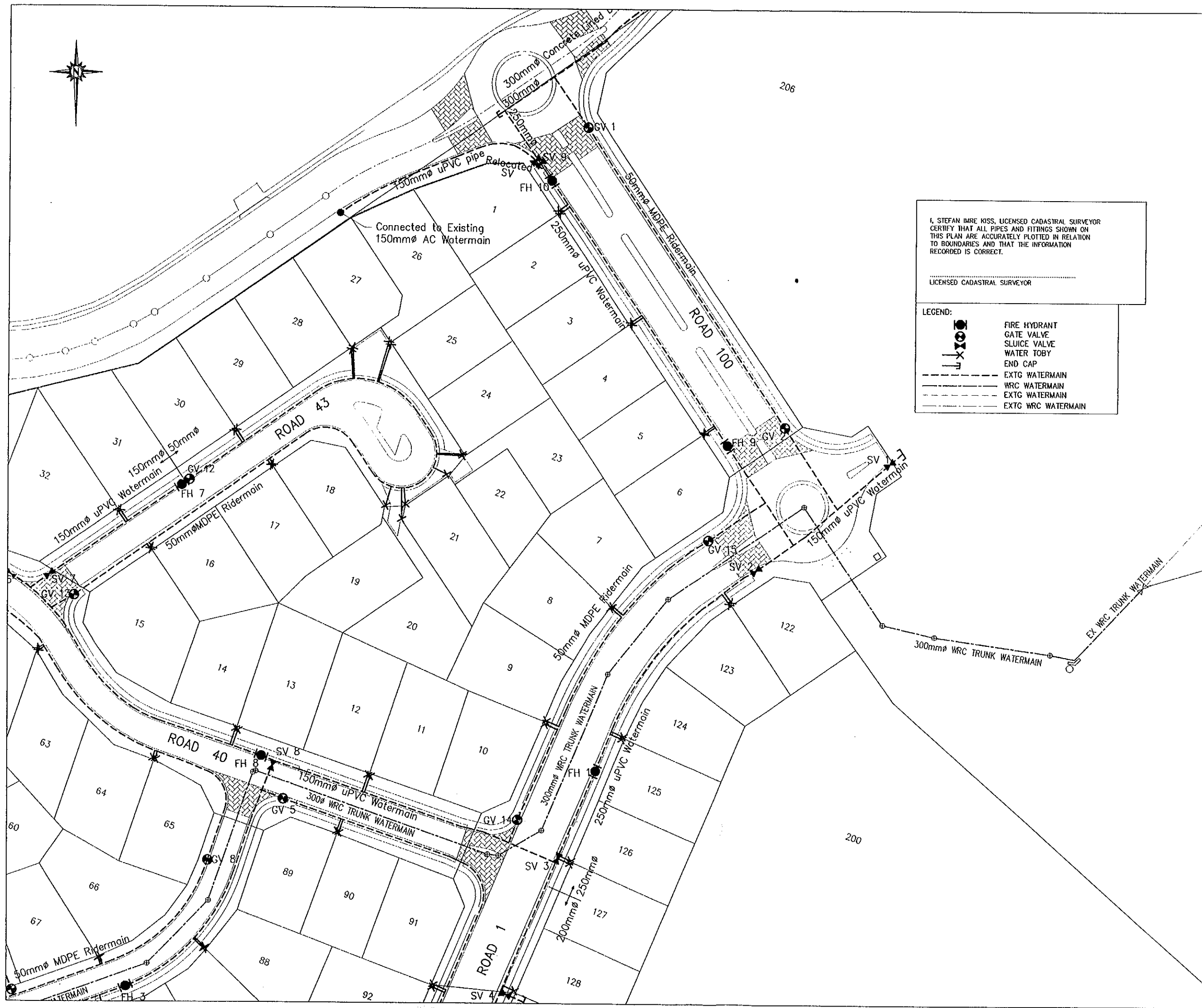
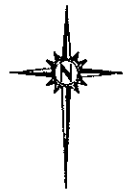
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DRAWN:	DATE:	SIGNATURE:	CAD REF: 00417-AB600 TO AB601
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
			SURVEY DATE:
			SOR REF:

PLOT STATUS:

PROJECT No:	SCALES:	A1
95 00417.1	1:500 1:1000 (A3)	
DRAWING No:		REV

00417-AB601 A





I, STEFAN IMRE KISS, LICENSED CADASTRAL SURVEYOR  
CERTIFY THAT ALL PIPES AND FITTINGS SHOWN ON  
THIS PLAN ARE ACCURATELY PLOTTED IN RELATION  
TO BOUNDARIES AND THAT THE INFORMATION  
RECORDED IS CORRECT.

LICENSED CADASTRAL SURVEYOR

- LEGEND:
- FIRE HYDRANT
  - GATE VALVE
  - SLUICE VALVE
  - WATER TOBY
  - END CAP
  - EXTG WATERMAIN
  - WRC WATERMAIN
  - EXTG WATERMAIN
  - EXTG WRC WATERMAIN

**HARRISON GRIERSON**  
CONSULTING ENGINEERS SURVEYORS PLANNERS  
Level 26 Grand Plumer Tower 2-6 Colmar Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	INITIAL RELEASE	BY	DATE
REF	AMENDMENT		

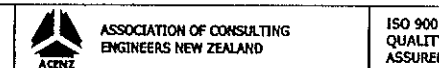
PROJECT: CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE: WATERMAIN AS-BUILT  
SHEET 2 OF 4

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:	14/06/04
DRAWN:	DATE:	SIGNATURE:	CAD REF:	00417-AB602 TO AB603
CHECKED:	DATE:	SIGNATURE:	CAD XREF:	
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:	
			SURVEY DATE:	
			SDR REF:	

PROJECT No:	95 00417.1	SCALE:	1:500 1:1000 (A3)	A1
DRAWING No:				REV
				A

00417-AB602



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**NOTE:**

1. COORDINATES ARE IN TERMS OF GEODETIC 1949.

[illegible]

PROJECT:

CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE:

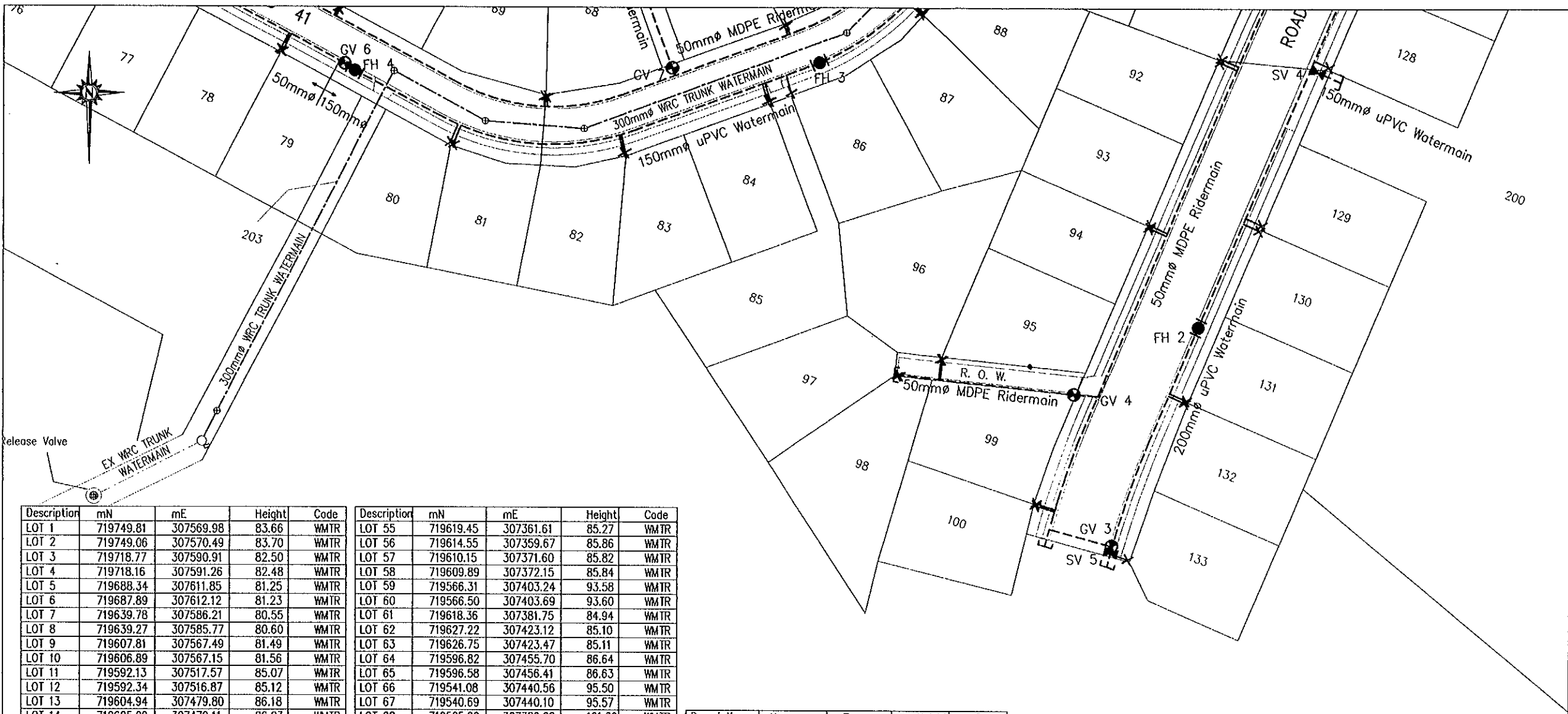
WATERMAIN AS-BUILT  
SHEET 3 OF 4

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE: 14/06/00
DRAWN: RZK	DATE: 11/06/04	SIGNATURE:	CAD REF: 00417-AB600 TO 600
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
			SURVEY DATE:
			SDR REF:

PLOT STATUS:

PROJECT No: 95 00417.1	SCALES: 1:500 1:1000 (A3)	A1
---------------------------	------------------------------	----

DRAWING No:	REV
00417-AB603	A



Description	mN	mE	Height	Code
LOT 1	719749.81	307569.98	83.66	WMTR
LOT 2	719749.06	307570.49	83.70	WMTR
LOT 3	719718.77	307590.91	82.50	WMTR
LOT 4	719718.16	307591.26	82.48	WMTR
LOT 5	719688.34	307611.85	81.25	WMTR
LOT 6	719687.89	307612.12	81.23	WMTR
LOT 7	719639.78	307586.21	80.55	WMTR
LOT 8	719639.27	307585.77	80.60	WMTR
LOT 9	719607.81	307567.49	81.49	WMTR
LOT 10	719606.89	307567.15	81.56	WMTR
LOT 11	719592.13	307517.57	85.07	WMTR
LOT 12	719592.34	307516.87	85.12	WMTR
LOT 13	719604.94	307479.80	86.18	WMTR
LOT 14	719605.29	307479.11	86.23	WMTR
LOT 15	719655.16	307454.72	83.99	WMTR
LOT 16	719655.54	307455.18	83.99	WMTR
LOT 17	719678.57	307488.89	84.29	WMTR
LOT 18	719678.91	307489.39	84.25	WMTR
LOT 19	719667.58	307521.62	85.53	WMTR
LOT 20	719663.80	307526.16	85.86	WMTR
LOT 21	719667.96	307527.15	85.48	WMTR
LOT 22	719676.33	307538.83	85.40	WMTR
LOT 23	719681.52	307543.33	85.78	WMTR
LOT 24	719681.99	307543.22	85.78	WMTR
LOT 25	719712.35	307522.74	85.61	WMTR
LOT 26	719713.11	307522.27	85.64	WMTR
LOT 27	719711.47	307512.11	85.33	WMTR
LOT 28	719710.77	307511.60	85.37	WMTR
LOT 29	719688.54	307478.94	84.35	WMTR
LOT 30	719688.13	307478.35	84.33	WMTR
LOT 31	719666.03	307446.27	84.08	WMTR
LOT 32	719665.68	307445.67	84.08	WMTR
LOT 33	719662.99	307387.96	81.02	WMTR
LOT 34	719663.30	307387.12	80.95	WMTR
LOT 35	719676.00	307349.86	77.43	WMTR
LOT 36	719676.21	307349.28	77.42	WMTR
LOT 37	719688.81	307311.98	74.47	WMTR
LOT 38	719689.05	307311.35	74.43	WMTR
LOT 39	719704.31	307275.64	71.78	WMTR
LOT 40	719703.94	307274.89	71.77	WMTR
LOT 41	719714.21	307236.01	66.22	WMTR
LOT 42	719714.54	307235.22	66.09	WMTR
LOT 43	719727.04	307198.51	60.51	WMTR
LOT 44	719727.39	307198.09	60.48	WMTR
LOT 45	719722.91	307196.76	60.57	WMTR
LOT 46	719710.56	307222.29	64.65	WMTR
LOT 47	719710.43	307223.05	64.79	WMTR
LOT 48	719697.78	307260.15	70.43	WMTR
LOT 49	719697.52	307261.08	70.55	WMTR
LOT 50	719669.11	307296.23	73.64	WMTR
LOT 51	719669.21	307296.84	73.69	WMTR
LOT 52	719665.05	307338.10	76.53	WMTR
LOT 53	719664.80	307339.00	76.61	WMTR
LOT 54	719651.84	307377.13	80.35	WMTR

Description	mN	mE	Height	Code
LOT 55	719619.45	307361.61	85.27	WMTR
LOT 56	719614.55	307359.67	85.86	WMTR
LOT 57	719610.15	307371.60	85.82	WMTR
LOT 58	719609.89	307372.15	85.84	WMTR
LOT 59	719566.31	307403.24	93.58	WMTR
LOT 60	719566.50	307403.69	93.60	WMTR
LOT 61	719618.36	307381.75	84.94	WMTR
LOT 62	719627.22	307423.12	85.10	WMTR
LOT 63	719626.75	307423.47	85.11	WMTR
LOT 64	719596.82	307455.70	86.64	WMTR
LOT 65	719596.58	307456.41	86.63	WMTR
LOT 66	719541.08	307440.56	95.50	WMTR
LOT 67	719540.69	307440.10	95.57	WMTR
LOT 68	719525.60	307389.09	101.29	WMTR
LOT 69	719525.57	307388.47	101.31	WMTR
LOT 70	719544.32	307343.78	100.29	WMTR
LOT 71	719544.62	307343.36	100.26	WMTR
LOT 72	719574.33	307313.97	97.61	WMTR
LOT 73	719573.99	307314.50	97.59	WMTR
LOT 74	719564.93	307303.95	97.36	WMTR
LOT 75	719565.49	307304.36	97.44	WMTR
LOT 76	719551.44	307300.99	97.83	WMTR
LOT 77	719551.07	307301.53	97.83	WMTR
LOT 78	719535.64	307330.86	99.90	WMTR
LOT 79	719535.32	307331.27	99.91	WMTR
LOT 80	719515.86	307368.08	101.88	WMTR
LOT 81	719515.45	307368.73	101.89	WMTR
LOT 82	719513.62	307405.67	100.54	WMTR
LOT 83	719513.82	307406.12	100.48	WMTR
LOT 84	719524.70	307436.78	96.80	WMTR
LOT 85	719524.88	307437.33	96.77	WMTR
LOT 86	719526.57	307442.04	96.22	WMTR
LOT 87	719543.49	307470.22	91.81	WMTR
LOT 88	719544.00	307470.51	91.72	WMTR
LOT 89	719576.52	307508.13	85.32	WMTR
LOT 90	719576.27	307508.69	85.33	WMTR
LOT 91	719533.89	307535.57	87.27	WMTR
LOT 92	719533.10	307535.33	87.29	WMTR
LOT 93	719498.45	307520.27	90.50	WMTR
LOT 94	719497.90	307520.05	90.52	WMTR
LOT 95	719469.89	304475.21	97.00	WMTR
LOT 96	719469.91	307474.87	97.03	WMTR
LOT 97	719466.54	307465.45	98.35	WMTR
LOT 98	719466.48	307465.89	98.30	WMTR
LOT 99	719439.30	307495.76	95.49	WMTR
LOT 100	719438.86	307495.62	95.45	WMTR
LOT 122	719641.13	307620.08	79.98	WMTR
LOT 123	719640.59	307619.49	80.00	WMTR
LOT 124	719603.49	307589.47	81.32	WMTR
LOT 125	719602.79	307589.14	81.37	WMTR
LOT 126	719568.71	307574.52	83.47	WMTR
LOT 127	719567.90	307574.26	83.51	WMTR
LOT 128	719532.21	307558.75	86.57	WMTR
LOT 129	719498.58	307544.34	89.60	WMTR

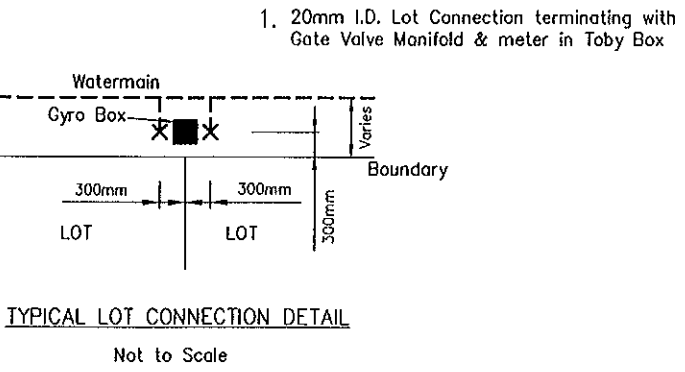
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LOT 131	719461.18	307528.18	92.72	WMTR
LOT 132	719460.69	307527.92	92.78	WMTR
LOT 133	719427.35	307515.59	95.73	WMTR
LOT 134	719617.81	307381.51	85.01	WMTR
FH 1	719593.79	307581.37	81.75	FH
FH 2	719476.76	306530.77	91.41	FH
FH 3	719532.93	307448.19	94.81	FH
FH 4	719531.12	307347.04	100.95	FH
FH 5	719688.83	307300.03	73.62	FH
FH 6	719654.11	307401.95	82.25	FH
FH 7	719673.07	307463.50	83.74	FH
FH 8	719597.58	307486.43	85.80	FH
FH 9	719684.73	307618.63	80.91	FH
FH 10	719758.15	307568.09	84.08	FH
GV 1	719772.94	307578.24	84.66	GV
GV 2	719658.33	307613.37	79.79	GV
GV 3	719430.28	307512.10	95.57	GV
GV 4	719462.54	306503.87	93.58	GV
GV 5	719585.53	307492.69	85.56	GV
GV 6	719532.62	307344.85	100.77	GV
GV 7	719531.74	307416.18	98.78	GV
GV 8	719568.33	307471.24	88.55	GV
GV 9	719647.92	307384.61	81.24	GV
GV 10	719690.30	307281.47	72.99	GV
GV 11	719689.91	307297.03	73.50	GV
GV 12	719674.53	307465.71	83.78	GV
GV 13	719642.24	307433.33	84.22	GV
GV 14	719580.03	307559.41	82.96	GV
GV 15	719658.32	307613.36	79.80	GV
SV Relocated	719763.75	307563.56	84.51	SV
SV 1	719679.84	307664.64	79.16	SV
SV 2	719650.00	307626.98	79.66	SV
SV 3	719568.17	307570.28	83.51	SV
SV 4	719531.77	307554.81	86.64	SV
SV 5	719428.83	307511.93	95.70	SV
SV 6	719647.93	307415.62	83.49	SV
SV 7	719648.05	307426.50	84.09	SV
SV 8	719596.14	307490.03	85.68	SV
SV 9	719762.97	307564.86	84.41	SV

I, STEFAN IMRE KISS, LICENSED CADASTRAL SURVEYOR  
CERTIFY THAT ALL PIPES AND FITTINGS SHOWN ON  
THIS PLAN ARE ACCURATELY PLOTTED IN RELATION  
TO BOUNDARIES AND THAT THE INFORMATION  
RECORDED IS CORRECT.

LICENSED CADASTRAL SURVEYOR

LEGEND:

- FIRE HYDRANT
- GATE VALVE
- SLUICE VALVE
- WATER TOBY
- END CAP
- EXTG WATERMAIN
- WRC WATERMAIN
- EXTG WATERMAIN



ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

ISO 9001 QUALITY ASSURED

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NOTE:

1. COORDINATES ARE IN TERMS OF GEODETIC 1949.

HARRISON GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 26 Grand Pinnacle Tower 2-6 Gomer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

PROJECT:

CARRUS LIMITED  
AOTEA BLOCK  
PORIRUA

TITLE:

WATERMAIN AS-BUILT  
SHEET 4 OF 4

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
DRW:	DATE:	SIGNATURE:	CAD REF: 00417-AB600 TO 603
CHECKED:	DATE:	SIGNATURE:	CAD REF:
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
			SURVEY DATE:
			SUR REF:

PLOT STATUS:

PROJECT No:	SCALE:	A1
95 00417.1	1:500 1:1000 (A3)	REV
DRAWING No:		A

00417-AB604