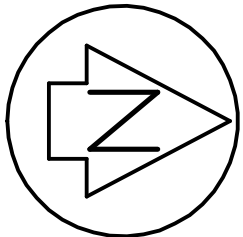




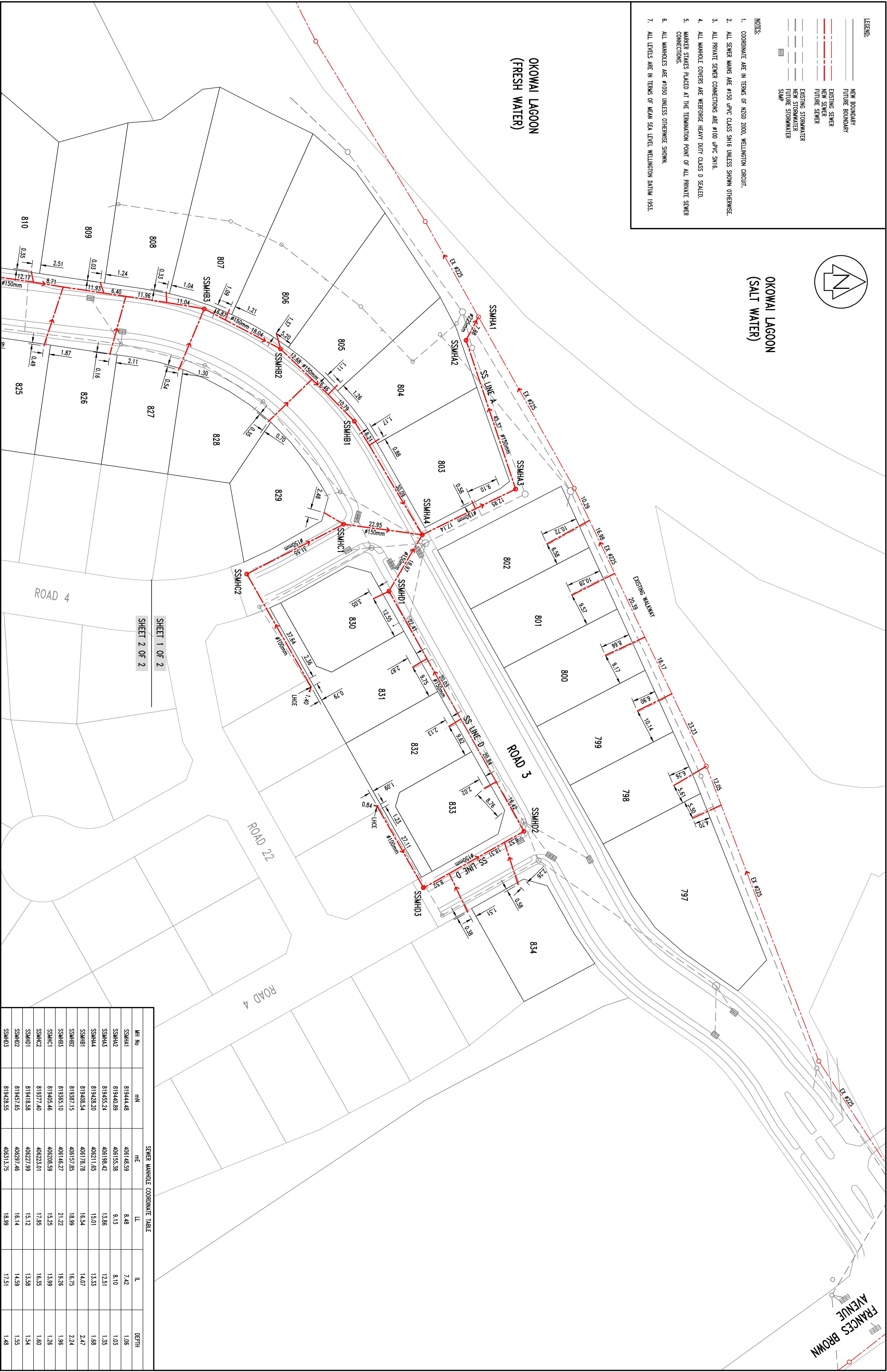
- LEGEND:
- NEW BOUNDARY
 - FUTURE BOUNDARY
 - EXISTING SEWER
 - NEW SEWER
 - FUTURE SEWER
 - EXISTING STORMWATER
 - NEW STORMWATER
 - FUTURE STORMWATER
 - SUMP

- NOTES:
- COORDINATE ARE IN TERMS OF NZSD 2000, WELLINGTON CIRCUIT.
 - ALL SEWER MAINS ARE #150 UPVC CLASS SM16 UNLESS SHOWN OTHERWISE.
 - ALL PRIVATE SEWER CONNECTIONS ARE #100 UPVC SM16.
 - ALL MANHOLE COVERS ARE WERORGE HEAVY DUTY CLASS D SEALED.
 - MARKER STAKES PLACED AT THE TERMINATION POINT OF ALL PRIVATE SEWER CONNECTIONS.
 - ALL MANHOLES ARE #1050 UNLESS OTHERWISE SHOWN.
 - ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON DATUM 1953.



OKOWAI LAGOON
(SALT WATER)

OKOWAI LAGOON
(FRESH WATER)



SHEET 1 OF 2
SHEET 2 OF 2

SEWER MANHOLE COORDINATE TABLE

MH No	MN	MC	LL	IL	DEPTH
SSMHA1	819444.48	406148.59	8.48	7.42	1.06
SSMHA2	819440.89	406155.38	9.13	8.10	1.03
SSMHA3	819455.24	406198.42	13.86	12.51	1.35
SSMHA4	819428.20	406211.65	15.01	13.33	1.68
SSMHB1	819406.54	406178.78	16.54	14.07	2.47
SSMHB2	819387.15	406157.85	18.99	16.75	2.24
SSMHB3	819385.10	406146.27	21.22	19.26	1.96
SSMHC1	819405.46	406208.59	15.25	13.99	1.26
SSMHC2	819377.40	406223.01	17.95	16.35	1.60
SSMHD1	819418.98	406227.99	15.12	13.88	1.54
SSMHD2	819457.65	406297.46	16.14	14.59	1.55
SSMHD3	819428.55	406313.75	18.99	17.51	1.48

Copyright of the drawing is vested in Cuttriss Consultants Limited

AOTEA

STAGE 10 SUBDIVISION CIVIL WORKS
SEWER – ASBUILT PLAN (1 OF 2)

CARRUS LIMITED

Cuttriss

Land Surveyors, Engineers & Resource Managers

Lower Hut Beach - Level 3 Court House, 82 Queens Drive, Lower Hut
Postal Address - PO Box 429, Lower Hut 540
Telephone (04) 939 804 Fax (04) 939 806 Email info@cuttriss.co.nz

Paraparaumu Beach - 33 High Road, Paraparaumu
Postal Address - PO Box 386, Paraparaumu 524
Telephone (04) 939 804 Fax (04) 939 823 Email info@cuttriss.co.nz

JOB

CLIENT

AMENDMENT

NAME

DATE

SCALE 1:500 (A3 1:1000)

SIZE A1

FIELDWORK

DESIGNED

DRAWN

CHECKED

NAME

DATE

SHEET 1 OF 4

REVISION

KOC

05/12

27510S ASB

1

KOC

05/12

12/12

4

KOC

05/12

12/12

4

KOC

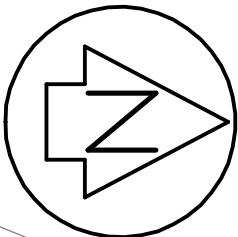
05/12

12/12

4

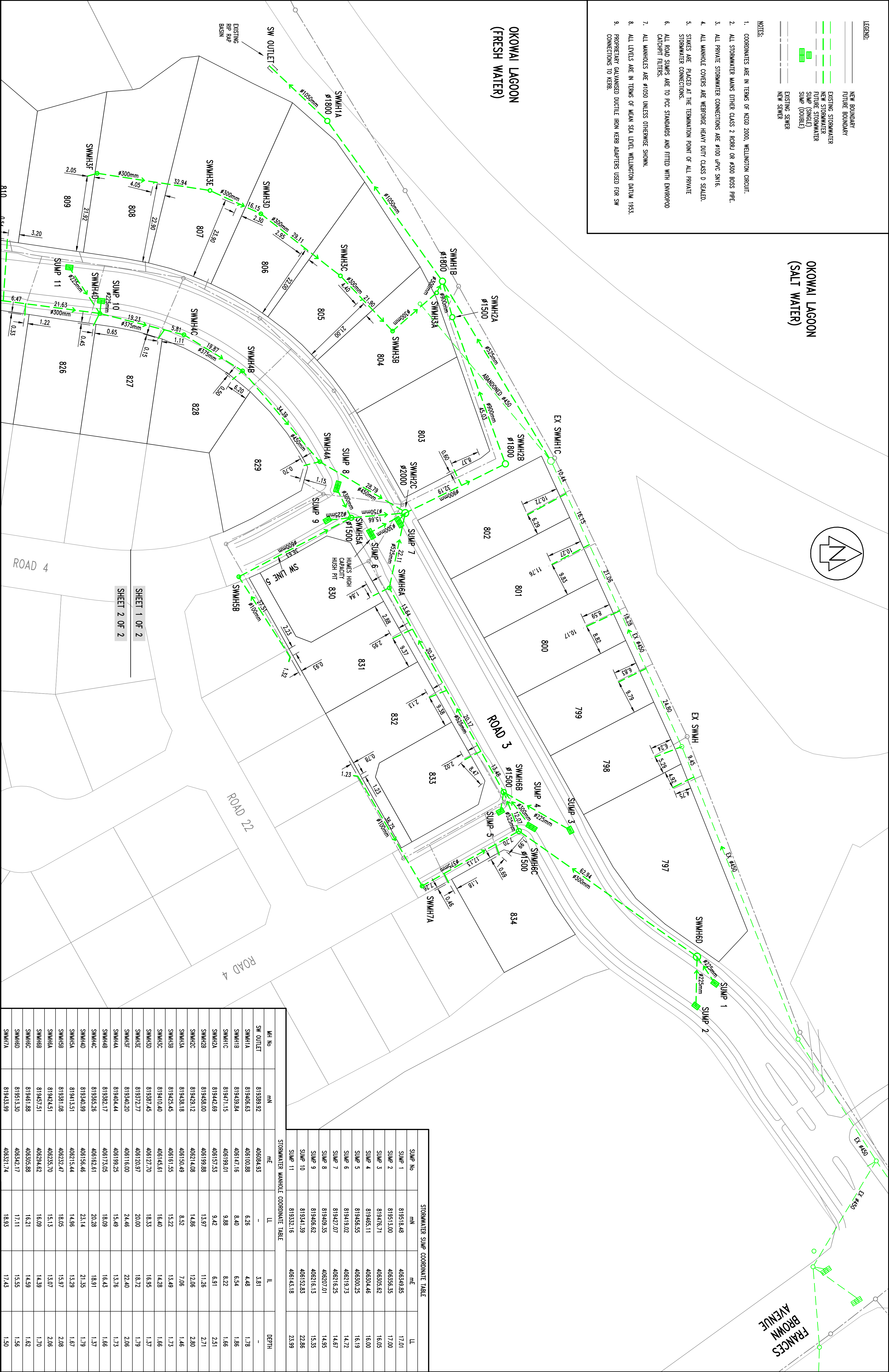
- LEGEND:
- NEW BOUNDARY
 - FUTURE BOUNDARY
 - EXISTING STORMWATER
 - NEW STORMWATER
 - FUTURE STORMWATER
 - SUMP (SINGLE)
 - SUMP (DOUBLE)
 - EXISTING SEWER
 - NEW SEWER

OKOWAI LAGOON
(SALT WATER)



- NOTES:
- COORDINATES ARE IN TERMS OF NZSD 2000, WELLINGTON CIRCUIT.
 - ALL STORMWATER MAINS EITHER CLASS 2 RCBR OR 4300 BOSS PIPE.
 - ALL PRIVATE STORMWATER CONNECTIONS ARE #100 UPVC SM6.
 - ALL MANHOLE COVERS ARE WEBOFCE HEAVY DUTY CLASS D SEALED.
 - STAKES ARE PLACED AT THE TERMINATION POINT OF ALL PRIVATE STORMWATER CONNECTIONS.
 - ALL ROAD SUMPS ARE TO PCC STANDARDS AND FITTED WITH ENVIROPOD CATCHIT FILTERS.
 - ALL MANHOLES ARE #1050 UNLESS OTHERWISE SHOWN.
 - ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON DATUM 1953.
 - PROPRIETARY GALVANISED DUCTILE IRON KERP ADAPTERS USED FOR SW CONNECTIONS TO KERB.

OKOWAI LAGOON
(FRESH WATER)



STORMWATER SUMP COORDINATE TABLE				
SUMP No	mN	mE	LL	DEPTH
SUMP 1	819518.48	406349.95	17.01	17.01
SUMP 2	819513.00	406356.35	17.00	17.00
SUMP 3	819476.71	406305.62	16.05	16.05
SUMP 4	819465.11	406304.46	16.00	16.00
SUMP 5	819456.55	406300.25	16.19	16.19
SUMP 6	819419.02	406219.73	14.72	14.72
SUMP 7	819427.07	406216.25	14.67	14.67
SUMP 8	819409.35	406207.01	14.55	14.55
SUMP 9	819406.62	406216.13	15.35	15.35
SUMP 10	819341.39	406152.83	22.86	22.86
SUMP 11	819332.16	406143.18	23.99	23.99

STORMWATER MANHOLE COORDINATE TABLE				
MH No	mN	mE	LL	DEPTH
SW OUTLET	819399.92	406084.93	-	-
SWMH1A	819406.63	406100.88	6.26	4.48
SWMH1B	819439.84	406147.16	8.40	6.54
SWMH1C	819471.15	406199.01	9.88	8.22
SWMH2A	819442.89	406157.33	9.42	6.91
SWMH2B	819458.00	406199.88	13.97	11.26
SWMH2C	819429.12	406214.08	14.86	12.06
SWMH3A	819438.18	406150.49	8.52	7.06
SWMH3B	819425.45	406161.55	15.22	13.49
SWMH3C	819410.40	406145.61	16.40	14.28
SWMH3D	819387.45	406127.70	18.33	16.95
SWMH3E	819372.77	406120.97	20.03	18.72
SWMH3F	819340.20	406116.00	24.46	22.40
SWMH4A	819404.44	406199.25	15.49	13.76
SWMH4B	819382.17	406173.05	18.09	16.43
SWMH4C	819365.26	406162.61	20.28	18.91
SWMH4D	819340.99	406156.46	23.14	21.35
SWMH5A	819413.51	406215.44	14.96	13.29
SWMH5B	819391.08	406232.47	18.05	15.97
SWMH6A	819424.51	406235.70	15.13	13.07
SWMH6B	819467.51	406294.62	16.09	14.39
SWMH6C	819461.88	406305.88	16.21	14.99
SWMH6D	819513.30	406342.17	17.11	15.55
SWMH7A	819433.99	406321.74	18.93	17.43

Cuttriss

Land Surveys, Engineers & Resource Managers

Lower Hut Basin - Level 3 Court House, 82 Queen Drive, Lower Hut
Postal Address - PO Box 429, Lower Hut 540
Telephone (04) 939 804 Fax (04) 939 806 Email info@cuttriss.co.nz

Paraparaumu Basin - 33 High Road, Paraparaumu
Postal Address - PO Box 386, Paraparaumu 524
Telephone (04) 939 804 Fax (04) 942 542 Email info@cuttriss.co.nz

JOB

AOTEA

STAGE 10 SUBDIVISION CIVIL WORKS
STORMWATER – ASBUILT PLAN (1 OF 2)

CARRUS LIMITED

CLIENT

AMENDMENT		NAME	DATE	DRAWING NUMBER	
SCALE 1:500 (A3 1:1000) <td data-kind="ghost"></td> <td>NAME<td>DATE<td data-cs="2" data-kind="parent">SHEET 3 OF 4 SHEETS</td><td data-kind="ghost"></td></td></td>		NAME <td>DATE<td data-cs="2" data-kind="parent">SHEET 3 OF 4 SHEETS</td><td data-kind="ghost"></td></td>	DATE <td data-cs="2" data-kind="parent">SHEET 3 OF 4 SHEETS</td> <td data-kind="ghost"></td>	SHEET 3 OF 4 SHEETS	
FIELDWORK		KOC	05/12	27510S ASB	
DESIGNED		-	-	REVISION	
DRAWN		KML	05/12	-	
CHECKED		KOC	12/12	-	

STORMWATER MANHOLE COORDINATE TABLE				
MH No	MN	ME	LL	LL
SWMH3E	819372.77	406120.97	20.00	18.72
SWMH3F	819340.20	406116.00	24.46	22.40
SWMH4C	819365.26	406162.61	20.28	18.91
SWMH4D	819340.99	406156.46	23.14	21.35
SWMH4E	819363.72	406146.37	30.90	29.15
SWMH4F	819168.77	406132.17	40.54	38.75

DEPTH

STORMWATER SUMP COORDINATE TABLE			
SUMP No	MN	ME	LL
SUMP 10	819341.39	406152.83	22.86
SUMP 11	819352.16	406143.18	23.99
SUMP 12	819261.88	406142.35	30.90
SUMP 13	819262.66	406133.89	30.95
SUMP 14	819164.95	406128.14	40.71
SUMP 15	819162.17	406119.89	40.63

- LEGEND:
- NEW BOUNDARY
 - FUTURE BOUNDARY
 - EXISTING STORMWATER
 - NEW STORMWATER
 - FUTURE STORMWATER
 - SUMP (SINGLE)
 - SUMP (DOUBLE)
 - EXISTING SEWER
 - NEW SEWER

- NOTES:
- COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - ALL STORMWATER MANS ARE EITHER CLASS 2 RCRII OR #300 BOSS PIPE.
 - ALL PRIVATE STORMWATER CONNECTIONS ARE #100 UPVC SNI6.
 - ALL MANHOLE COVERS ARE WEIREFORGE HEAVY DUTY CLASS D SEALED.
 - STAKES ARE PLACED AT THE TERMINATION POINT OF ALL PRIVATE STORMWATER CONNECTIONS.
 - ALL ROAD SUMPS ARE TO PCC STANDARDS AND FITTED WITH ENVIROPOD CATCHPIT FILTERS.
 - ALL MANHOLES ARE #1050 UNLESS OTHERWISE SHOWN.
 - ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON DATUM 1953.
 - PROPRIETARY GALVANISED DUCTILE IRON KERB ADAPTERS USED FOR SW CONNECTIONS TO KERB.



SHEET 1 OF 2
SHEET 2 OF 2

Cuttriss

Land Surveyors, Engineers & Resource Managers

Lower Hut Basin - Level 3 Court House, 82 Queens Drive, Lower Hut

Postal Address: PO Box 429, Lower Hut 540

Telephone: (04) 939 804 Fax: (04) 939 806 Email: info@cuttriss.co.nz

Paraparaumu Basin - 33 Kipah Road, Paraparaumu

Postal Address: PO Box 386, Paraparaumu 524

Telephone: (04) 934 540 Fax: (04) 934 542 Email: info@cuttriss.co.nz

Cuttriss Consultants Limited

Hutt Valley, Wellington, Kaitiaki Coast

JOB

AOTEA

STAGE 10 SUBDIVISION CIVIL WORKS

STORMWATER – ASBUILT PLAN (2 OF 2)

CARRUS LIMITED

CLIENT

AMENDMENT

NAME

DATE

SCALE 1:500 (A3 1:1000)

SIZE A1

NAME

DATE

FIELDWORK

KOC

05/12

DESIGNED

-

-

DRAWN

KML

05/12

CHECKED

KOC

12/12

DRAWING NUMBER

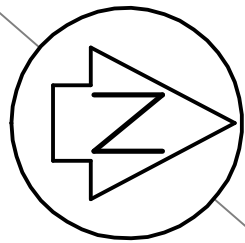
27510S ASB

SHEET 4 OF 4 SHEETS

REVISION

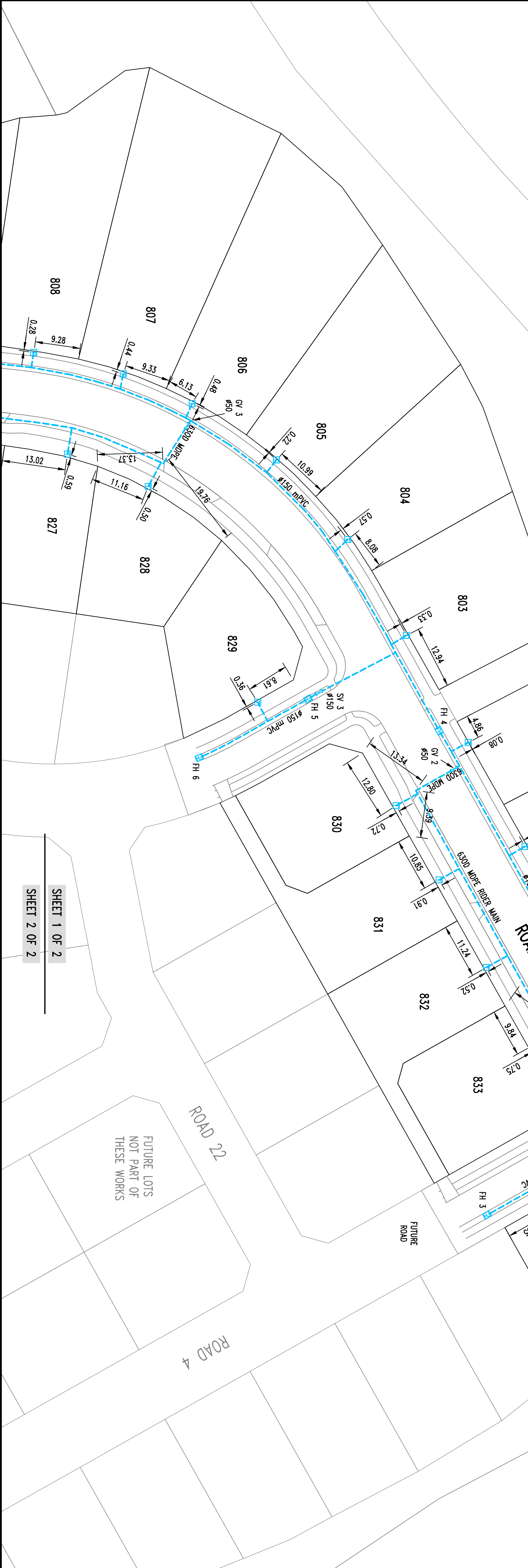
-

LOT CONNECTION COORDINATE TABLE		
COMPONENT DESCRIPTION	mN	mE
LOT 797	819492.93	406323.21
LOT 798	819474.66	406292.10
LOT 799	819465.75	406276.16
LOT 800	819456.10	406258.89
LOT 801	819446.50	406241.76
LOT 802	819444.98	406220.43
LOT 803	819422.32	406198.49
LOT 804	819410.23	406178.85
LOT 805	819395.63	406162.53
LOT 806	819378.34	406151.00
LOT 807	819354.21	406144.92
LOT 808	819345.65	406140.52
LOT 827	819392.79	406161.35
LOT 828	819369.33	406167.97
LOT 829	819391.77	406212.17
LOT 830	819420.20	406233.37
LOT 831	819429.00	406248.58
LOT 832	819458.67	406266.54
LOT 833	819448.01	406282.53
LOT 834	819449.62	406314.67
WATERMAIN FITTING COORDINATE TABLE		
FH 1	819477.87	406305.28
FH 2	819458.02	406306.48
FH 3	819458.84	406317.26
FH 4	819429.00	406218.02
FH 5	819402.77	406211.14
FH 6	819379.81	406233.54
SV 1	819590.86	406426.76
SV 2	819459.31	406305.89
SV 3	819403.70	406210.57
CV 1	819461.78	406276.66
CV 2	819452.10	406225.87
CV 3	819378.01	406154.48



OKOWAI LAGOON
(SALT WATER)

OKOWAI LAGOON
(FRESH WATER)



SHEET 1 OF 2
SHEET 2 OF 2

- LEGEND:**
- NEW BOUNDARY
 - FUTURE BOUNDARY
 - EXISTING WATER
 - NEW WATER
 - TOBY
 - FIRE HYDRANT
 - VALVE
- NOTES:**
- COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - ALL COUNCIL MAINS ARE LAID 0.55m OFF FACE OF KERB (TO CROWN OF PIPE) UNLESS OTHERWISE SHOWN.
 - ALL #150 MAINS ARE mPVC PN12.
 - ALL RIDER MAINS ARE 630D MDPF-PN12.
 - ALL PRIVATE SERVICE CONNECTIONS ARE 250D MDPF-PN12. PIPE IS LAID PERPENDICULAR FROM THE MAIN TO THE TOBY.
 - MINIMUM COVER ON PRES ARE AS FOLLOWS:
 - MAINS #100mm AND GREATER 250mm COVER (ALL AREAS)
 - RIDER MAINS 600mm COVER IN BENS & 750mm COVER IN TRAFFICKED AREAS
 - SERVICE PRES 450mm COVER
 - ALL RESIDENTIAL SERVICE TOBES ARE ACQUID MANIFOLDS WITH DOUBLE CHECK VALVES.
 - TOBES ARE MARKED WITH AN ARROW ETCHED INTO THE KERB.
 - ALL HYDRANTS ARE TALL TYPE HYDRANTS.
 - ALL #50 VALVES ARE TYPE ANK OR HAMLE EPOXY COATED DUCTILE IRON WITH A 207MPa RATING AND CONFORM TO AS2638:2011.
 - ALL #100 OR GREATER VALVES HAVE FLANGED JOINTS EPOXY COATED DUCTILE IRON WITH A 207MPa RATING TO CONFORM TO AS2638:2011.
 - #150 & #50 VALVES HAVE WHITE CAST IRON COVER PAINTED WHITE WITH A MINIMUM OPENING OF 200mm SQUARE. VALVES ARE MARKED WITH 'V' ETCHED IN KERB.
 - FIRE HYDRANTS HAVE YELLOW PAINTED TRIANGLE AND BLUE CATS EYE ON ROAD. COVER PAINTED YELLOW.



Land Surveyors, Engineers & Resource Managers

Lower Hut Basin - Level 3 Court House, 82 Queen Drive, Lower Hut
Postal Address - PO Box 429, Lower Hut 540
Telephone (04) 939 804 Fax (04) 939 866 Email info@cuttriss.co.nz

Paraparaumu Basin - 33 Kipahia Road, Paraparaumu
Postal Address - PO Box 386, Paraparaumu 524
Telephone (04) 934 540 Fax (04) 942 542 Email hake@cuttriss.co.nz

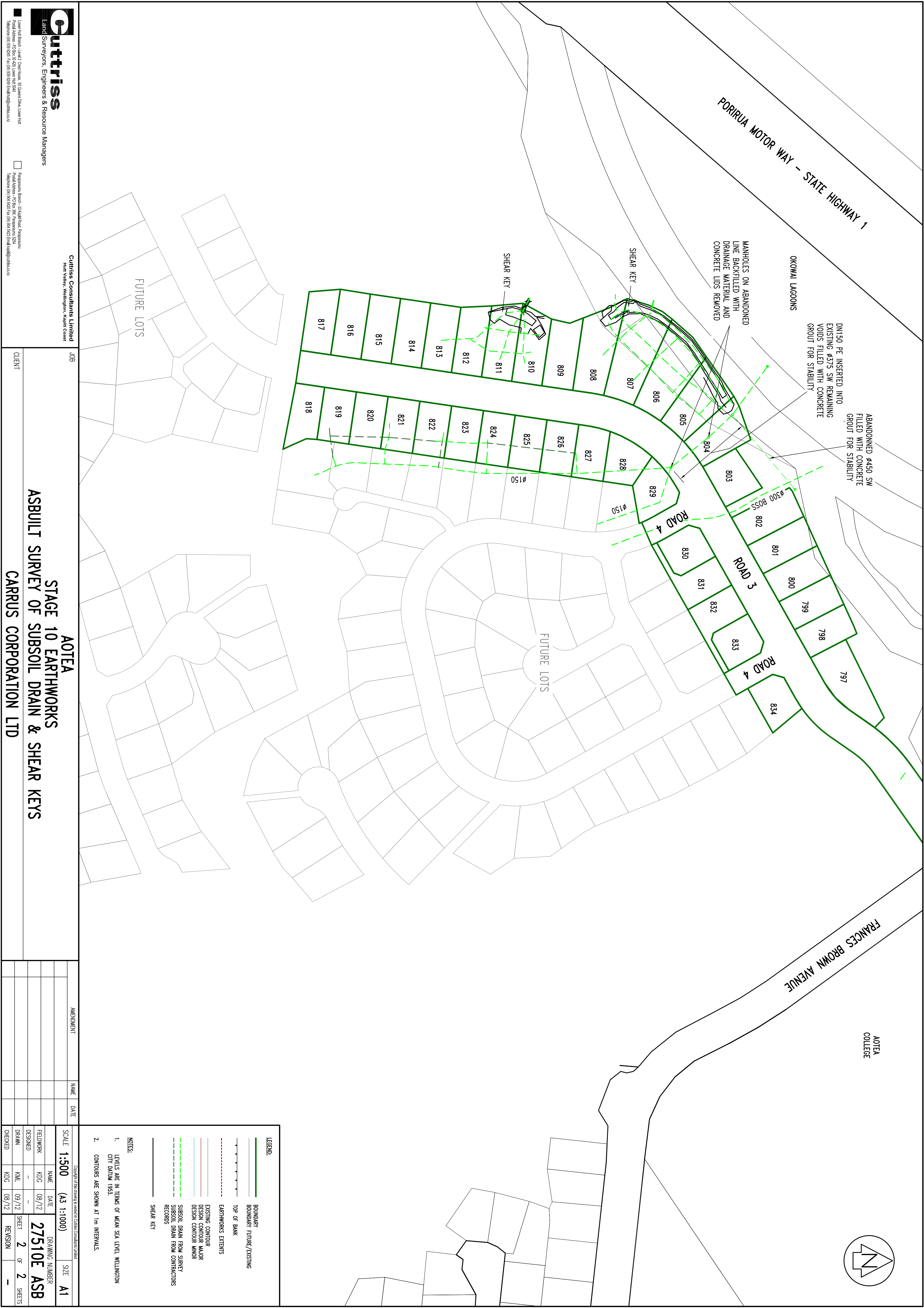
JOB

CLIENT

AOTEA

STAGE 10 SUBDIVISION CIVIL WORKS
WATER – ASBUILT PLAN (1 OF 2)
CARRUS CORPORATION LIMITED

AMENDMENT		NAME	DATE	SCALE 1:500 (1:1000 AT A3)		SIZE A1
		NAME	DATE	DRAWING NUMBER		
		FIELDWORK	KOC 07/12	27510W ASB		
		DESIGNED	-	SHEET 1 OF 2		
		DRAWN	KML 07/12	REVISION		
		CHECKED	KOC 12/12			

[illegible]

Cuttris
Land Surveyors, Engineers & Resource Managers

Lower Hill Boreas - Level 3, Coast House, 92 Queens Drive, Lower Hill
Postal Address: 2006-2008, Lower Hill Road
Telephone: 07 553 5100 Fax: 07 553 5101 Email: info@cuttris.co.nz

Papakura Branch - 51 Kaitiaki Road, Papakura
Postal Address: 2006-2008, Papakura Road
Telephone: 07 553 5100 Fax: 07 553 5101 Email: info@cuttris.co.nz

Cuttris Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

AOTEA
STAGE 10 EARTHWORKS
ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS

CARRUS CORPORATION LTD

CLIENT

AMENDMENT

NAME DATE

SCALE 1:500 (A3 1:1000) SIZE A1

DRAWING NUMBER 27510E ASB

FIELDWORK KOG 08/12

DESIGNED -

DRAWN KML 09/12

CHECKED KOS 08/12

SHEET 2 OF 2 SHEETS

REVISION -

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

OKOWAI LAGOONS

PORIRUA MOTOR WAY -- STATE HIGHWAY 1

ABANDONED ø450 SW FILLED WITH CONCRETE GROUT FOR STABILITY

DN150 PE INSERTED INTO EXISTING ø375 SW REMAINING VOIDS FILLED WITH CONCRETE GROUT FOR STABILITY

MANHOLES ON ABANDONED LINE BACKFILLED WITH DRAINAGE MATERIAL AND CONCRETE LIDS REMOVED

SHEAR KEY

FUTURE LOTS

ROAD 3

ROAD 4

FRANCES BROWN AVENUE

AOTEA COLLEGE

FUTURE LOTS

Cuttriss
Land Surveyors, Engineers & Resource Managers

Lower Hill Road, Unit 3, Christchurch, 80 Queens Drive, Lower Hill
Postal Address: 200 Box 442, Lower Hill Road
Telephone: 03 947 6500 Fax: 03 947 6501 Email: info@cuttriss.co.nz

Paraparaumu Branch, 51 Kaitake Road, Paraparaumu
Postal Address: 200 Box 500, Paraparaumu, NZ
Telephone: 03 947 6500 Fax: 03 947 6501 Email: kaitake@cuttriss.co.nz

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

AOTEA
STAGE 10 EARTHWORKS
ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS

CARRUS CORPORATION LTD

CLIENT

AMENDMENT

NAME DATE

SCALE 1:500 (A3 1:1000) SIZE A1

DRAWING NUMBER 27510E ASB

FIELDWORK KOG 08/12

DESIGNED -

DRAWN KML 09/12

CHECKED KOS 08/12

SHEET 2 OF 2 SHEETS

REVISION -

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

OKOWAI LAGOONS

PORIRUA MOTOR WAY – STATE HIGHWAY 1

ABANDONED Ø450 SW FILLED WITH CONCRETE GROUT FOR STABILITY

DN150 PE INSERTED INTO EXISTING Ø375 SW REMAINING VOIDS FILLED WITH CONCRETE GROUT FOR STABILITY

MANHOLES ON ABANDONED LINE BACKFILLED WITH DRAINAGE MATERIAL AND CONCRETE LIDS REMOVED

SHEAR KEY

FUTURE LOTS

ROAD 3

ROAD 4

FRANCES BROWN AVENUE

AOTEA COLLEGE

Ø300 ROSS

Ø150

817 816 815 814 813 812 811 810 809 808 807 806 805 804 803 802 801 800 799 798 797 830 831 832 833 834

818 819 820 821 822 823 824 825 826 827 828 829

FUTURE LOTS

[illegible]

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

SCALE 1:500 (A3 1:1000) SIZE A1

AMENDMENT		NAME	DATE

SCALE 1:500 (A3 1:1000)		SIZE A1	
NAME	DATE	DRAWING NUMBER	
KDG	08/12	27510E ASB	
DESIGNED		SHEET 2 OF 2 SHEETS	
DRAWN	KML 09/12	REVISION	
CHECKED	KDG 08/12		

Cuttriss
Land Surveyors, Engineers & Resource Managers

Lower Hill Road, Unit 3, Christchurch, 80 Queens Drive, Lower Hill
Postal Address: 2000 2000, Lower Hill Road, Christchurch, 8000
Telephone: 03 378 1000, Fax: 03 378 1001, Email: info@cuttriss.co.nz

Paraparaumu Branch, 51 Kaitiaki Road, Paraparaumu
Postal Address: 4000 4000, Paraparaumu, 5000
Telephone: 03 378 1000, Fax: 03 378 1001, Email: info@cuttriss.co.nz

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

CLIENT

AOTEA
STAGE 10 EARTHWORKS
ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS
CARRUS CORPORATION LTD

AOTEA COLLEGE

Cuttris
Land Surveyors, Engineers & Resource Managers

Lower Hill Block - Level 3 Contour, 30 Queens Drive, Lower Hill
Postal Address: 2006-2008, Lower Hill Road
Telephone: 09 475 1000 Fax: 09 475 1001 Email: info@cuttris.co.nz

Papakura Branch - 31 Kaitake Road, Papakura
Postal Address: 2006-2008, Papakura Road
Telephone: 09 475 1000 Fax: 09 475 1001 Email: info@cuttris.co.nz

Cuttris Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

AOTEA
STAGE 10 EARTHWORKS
ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS

CARRUS CORPORATION LTD

CLIENT

AMENDMENT

NAME DATE

SCALE 1:500 (A3 1:1000) SIZE A1

DRAWING NUMBER 27510E ASB

FIELDWORK KOG 08/12

DESIGNED -

DRAWN KML 09/12

CHECKED KOS 08/12

SHEET 2 OF 2 SHEETS

REVISION -

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

OKOWAI LAGOONS

PORIRUA MOTOR WAY -- STATE HIGHWAY 1

ABANDONED ø450 SW FILLED WITH CONCRETE GROUT FOR STABILITY

DN150 PE INSERTED INTO EXISTING ø375 SW REMAINING VOIDS FILLED WITH CONCRETE GROUT FOR STABILITY

MANHOLES ON ABANDONED LINE BACKFILLED WITH DRAINAGE MATERIAL AND CONCRETE LIDS REMOVED

SHEAR KEY

FUTURE LOTS

ROAD 3

ROAD 4

FRANCES BROWN AVENUE

AOTEA COLLEGE

FUTURE LOTS

Cuttris
Land Surveyors, Engineers & Resource Managers
Lower Hill Street, Level 3, Christchurch, 8010
Phone: +64 (0)3 366 9999 | Email: info@cuttris.co.nz
Website: www.cuttris.co.nz

Cuttris Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

AOTEA

STAGE 10 EARTHWORKS

ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS

CARRUS CORPORATION LTD

CLIENT

AMENDMENT

NAME

DATE

SCALE 1:500 (A3 1:1000)

SHEET 2 OF 2

DRAWING NUMBER 27510E ASB

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

Copyright © This Drawing Is Owned By Cuttris Consultants Limited

Cuttris
Land Surveyors, Engineers & Resource Managers
Lower Hill Street, Level 3, Christchurch, 8010
Phone: +64 (0)3 366 9999 | Email: info@cuttris.co.nz
Website: www.cuttris.co.nz

Cuttris Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

JOB

AOTEA

STAGE 10 EARTHWORKS

ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS

CARRUS CORPORATION LTD

CLIENT

AMENDMENT

NAME

DATE

SCALE 1:500 (A3 1:1000)

SHEET 2 OF 2

DRAWING NUMBER 27510E ASB

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

Copyright © This Drawing Is Owned By Cuttris Consultants Limited

LEGEND:

- BOUNDARY
- BOUNDARY FUTURE/EXISTING
- TOP OF BANK
- EARTHWORKS EXTENTS
- EXISTING CONTOUR
- DESIGN CONTOUR MAJOR
- DESIGN CONTOUR MINOR
- SUBSOIL DRAIN FROM SURVEY RECORDS
- SUBSOIL DRAIN FROM CONTRACTORS RECORDS
- SHEAR KEY

NOTES:

- LEVELS ARE IN TERMS OF MEAN SEA LEVEL, WELLINGTON CITY DATUM 1953.
- CONTOURS ARE SHOWN AT 1m INTERVALS.

SCALE 1:500 (A3 1:1000) SIZE A1

NAME	DATE	DRAWING NUMBER
FIELDWORK	08/12	27510E ASB
DESIGNED	-	2 OF 2 SHEETS
DRAWN	09/12	SHEET 2 OF 2 SHEETS
CHECKED	08/12	REVISION -

CUTTRIS CONSULTANTS LIMITED
Hutt Valley, Wellington, Kapiti Coast

CUTTRIS
Land Surveyors, Engineers & Resource Managers

Lower Hutt Branch, Level 3, Coast House, 32 Queens Drive, Lower Hutt
Postal Address: 2002 442, Lower Hutt 5012
Telephone: 04 499 5555 Fax: 04 499 5555 Email: info@cuttris.co.nz

Paraparaumu Branch, 51 Kaitiaki Road, Paraparaumu
Postal Address: 4700 800, Paraparaumu 5424
Telephone: 04 499 5555 Fax: 04 499 5555 Email: info@cuttris.co.nz

JOB

CLIENT

AOTEA
STAGE 10 EARTHWORKS
ASBUILT SURVEY OF SUBSOIL DRAIN & SHEAR KEYS
CARRUS CORPORATION LTD