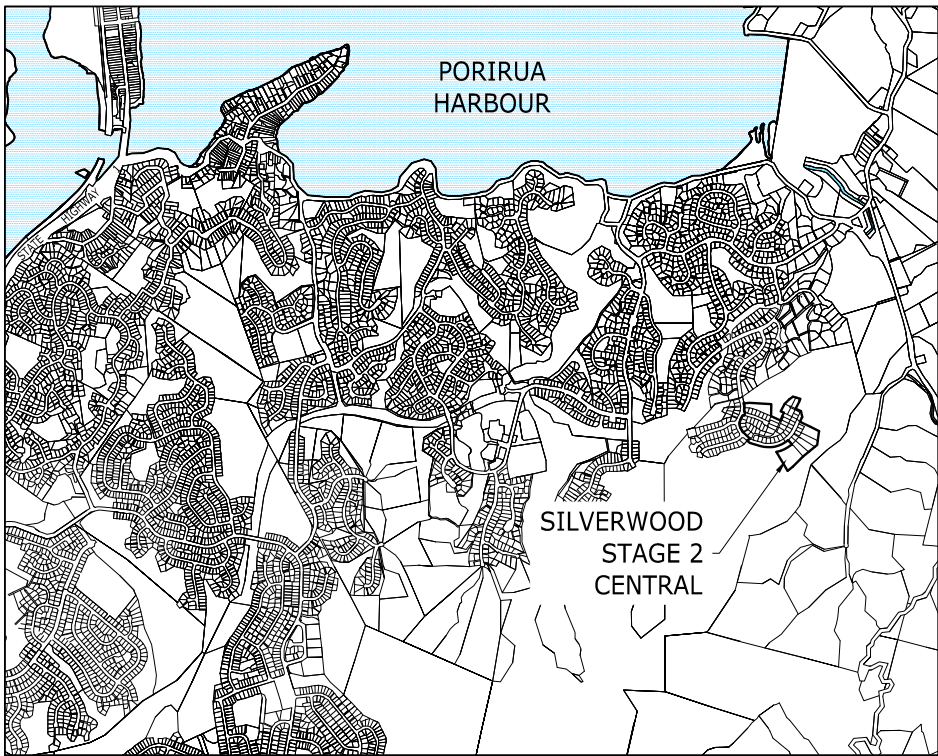


SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL
AS-BUILT PLANS



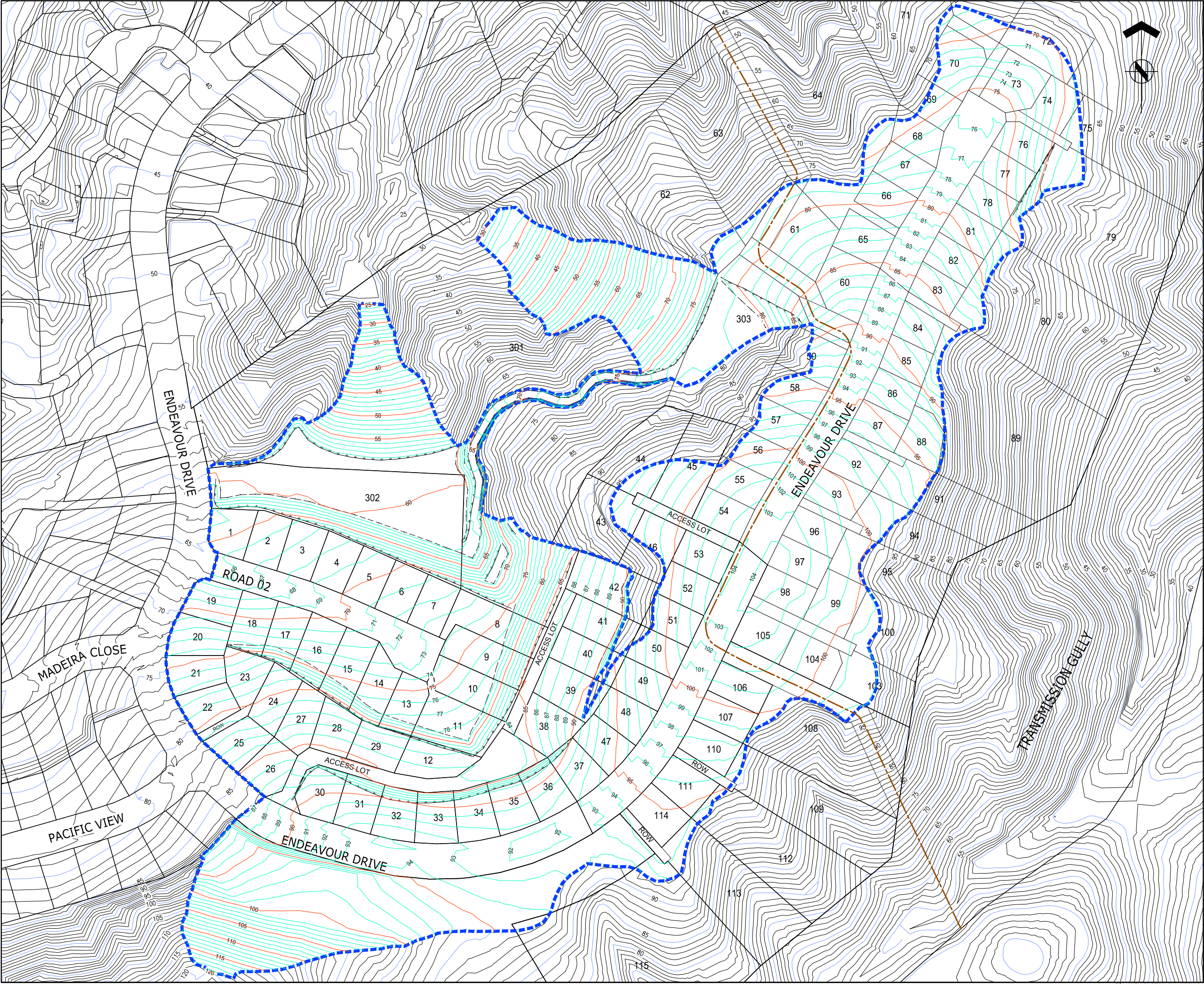
LOCALITY PLAN
SCALE 1:20 000

DRAWING INDEX

000431-2C-AB200	AS-BUILT SUBGRADE CONTOURS
000431-2C-AB201	AS-BUILT CUT/FILL CONTOURS
000431-2C-AB202	AS-BUILT CUT/FILL CONTOURS WITH SUBSOIL DRAINS
000431-2C-AB203	AS-BUILT CUT/FILL CONTOURS WITH SOIL COMPACTION TESTS
000431-2C-AB204	AS-BUILT CUT/FILL CONTOURS WITH SCALA PENETROMETER TESTS
000431-2C-AB205	AS-BUILT SUBGRADE CONTOURS OVERLAY WITH ORIGINAL CONTOURS
000431-2C-AB300	ROADING AS-BUILT PLANS OVERALL LAYOUT & LIGHTS
000431-2C-AB400	STORMWATER AS-BUILT PLANS SHEET 1 OF 3
000431-2C-AB401	STORMWATER AS-BUILT PLANS SHEET 2 OF 3
000431-2C-AB402	STORMWATER AS-BUILT PLANS SHEET 3 OF 3
000431-2C-AB403	SANITARY SEWER AS-BUILT PLANS SHEET 1 OF 3
000431-2C-AB404	SANITARY SEWER AS-BUILT PLANS SHEET 2 OF 3
000431-2C-AB405	SANITARY SEWER AS-BUILT PLANS SHEET 3 OF 3
000431-2C-AB500	WATER RETICULATION AS-BUILT PLANS SHEET 1 OF 3
000431-2C-AB501	WATER RETICULATION AS-BUILT PLANS SHEET 2 OF 3
000431-2C-AB502	WATER RETICULATION AS-BUILT PLANS SHEET 3 OF 3

MASTER

PROJECT No. 1850-000431-11
FEBRUARY 2010
AS-BUILT ISSUE





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:
1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.
2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.

LEGEND:

INDICATES EARTHWORKS EXTENTS.

INDICATES AS-BUILT SUBGRADE CONTOURS.

INDICATES ORIGINAL CONTOURS.

INDICATES TOP OF BANK.

INDICATES BOTTOM OF BANK.

INDICATES GAS LINE

MASTER

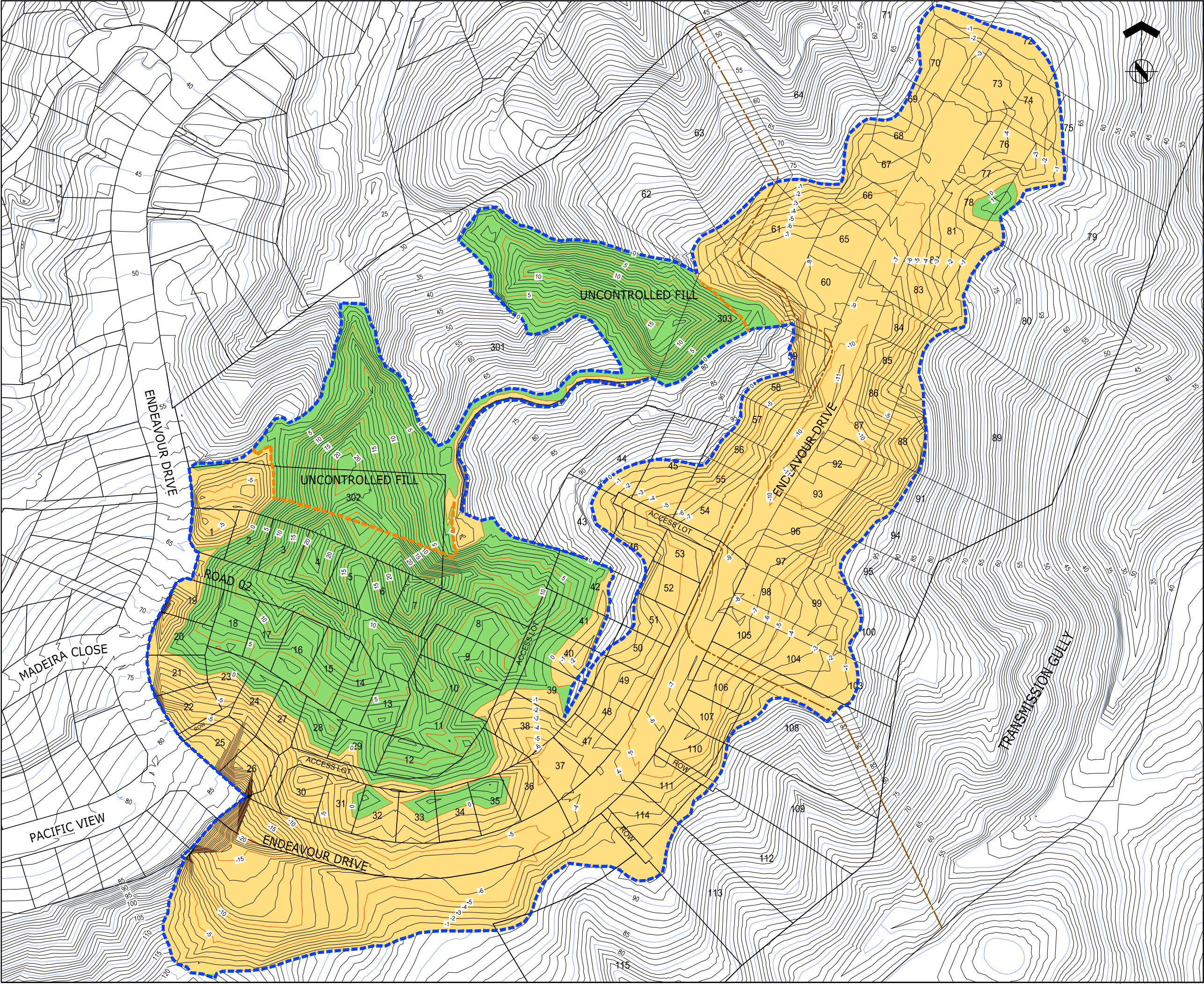


HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE:			
AS-BUILT SUBGRADE CONTOURS			
DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
PWJ	05.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	04.12.09		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	04.12.09		2008
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No: 1850-000431-11		SCALES: 1:1000-A1 1:2000-A3	A1
DRAWING No:			REV
000431-2C-AB200			A





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:

1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.

2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.

3. UNCONTROLLED FILL IS NON-ENGINEERED FILL DETAILED
IN THE FOUNDATION COMPLETION REPORT.

4. 1500 SUBSOIL DRAINS ARE NOVACOIL.

5. 2250 SUBSOIL DRAINS ARE DN 225 CONCRETE PIPE.

LEGEND:

INDICATES EARTHWORKS EXTENTS.

INDICATES EXTENT OF UNCONTROLLED FILL

INDICATES CUT CONTOURS (393,240 m3).

INDICATES FILL CONTOURS (313,400 m3).

INDICATES SUBSOIL DRAINS

INDICATES GAS LINE

MASTER



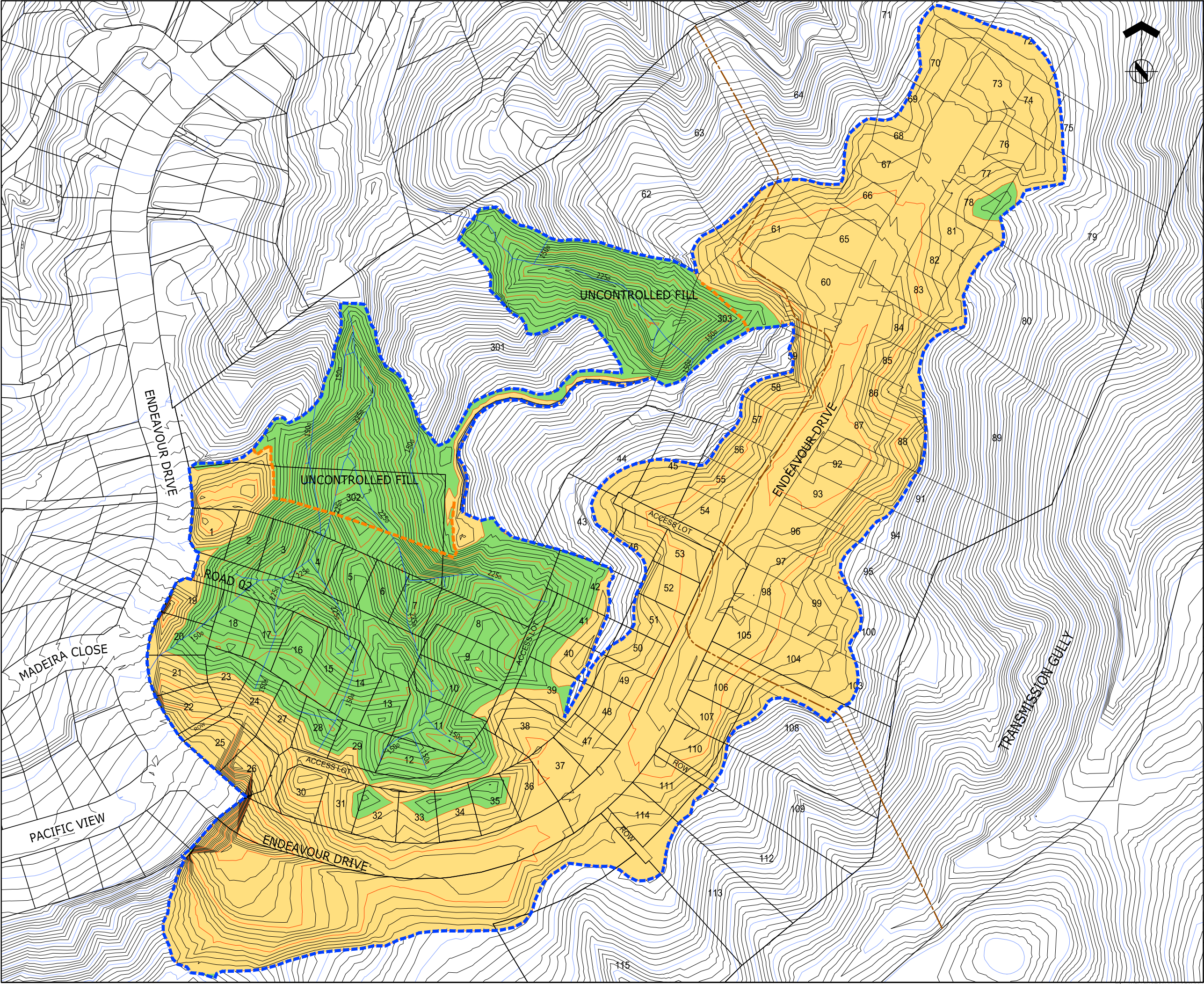
HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE:			
AS-BUILT CUT / FILL CONTOURS			
DESIGNED:	DATE:	SIGNED:	PLOT BY: SMB
DRAWN: PWJ	DATE: 05.2009	SIGNED:	PLOT DATE: 16.03.10
CHECKED: MJH	DATE: 04.12.09	SIGNED:	SURVEY BY: GMB
APPROVED: AMB	DATE: 04.12.09	SIGNED:	SURVEY DATE: 2008
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No: 1850-000431-11		SCALES: 1:1000-A1 1:2000-A3	A1
DRAWING No:			REV
000431-2C-AB201			A

File: WELLINGTON N:\1850\000431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB200-205.DWG





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:
1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.
2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.
3. UNCONTROLLED FILL IS NON-ENGINEERED FILL DETAILED
IN THE FOUNDATION COMPLETION REPORT.

LEGEND:

INDICATES EARTHWORKS EXTENTS.

INDICATES EXTENT OF UNCONTROLLED FILL

INDICATES CUT CONTOURS (393,240 m3).

INDICATES FILL CONTOURS (313,400 m3).

INDICATES SUBSOIL DRAINS.

INDICATES GAS LINE

MASTER

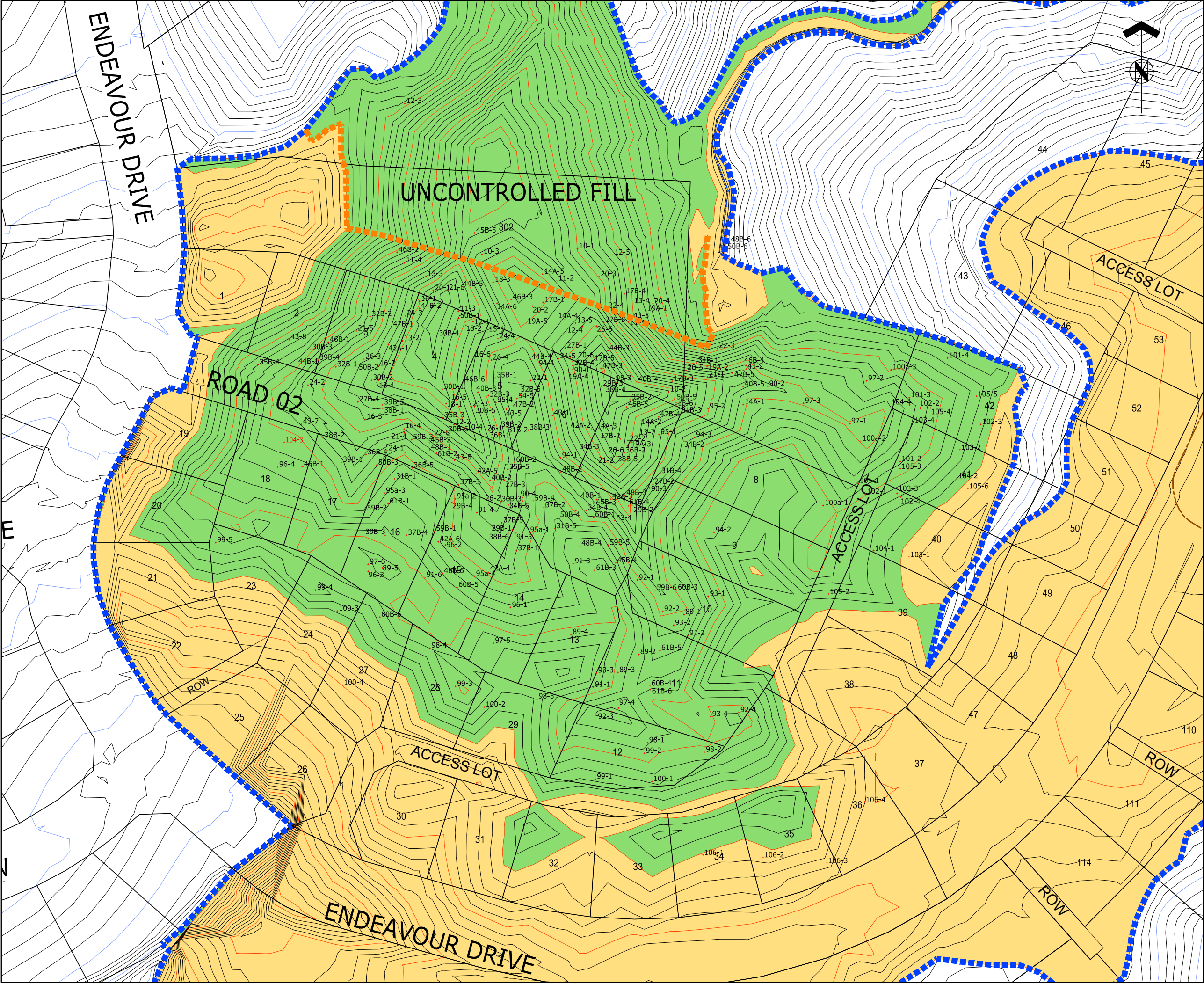


HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS
Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE:			
AS-BUILT CUT / FILL CONTOURS WITH SUBSOIL DRAINS			
DESIGNED:	DATE:	SIGNED:	PLOT BY:
DRAWN:	DATE:	SIGNED:	PLOT DATE:
CHECKED:	DATE:	SIGNED:	SURVEY BY:
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No:	SCALES:		A1
1850-000431-11	1:1000-A1 1:2000-A3		REV
DRAWING No:			A
000431-2C-AB202			

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB200-205.DWG





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:

1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.

2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.

LEGEND:

INDICATES EARTHWORKS EXTENTS.

INDICATES EXTENT OF UNCONTROLLED FILL

INDICATES CUT CONTOURS (393,240 m3).

INDICATES FILL CONTOURS (313,400 m3).

INDICATES GEOTECH TESTING LOCATIONS.

INDICATES GAS LINE

MASTER



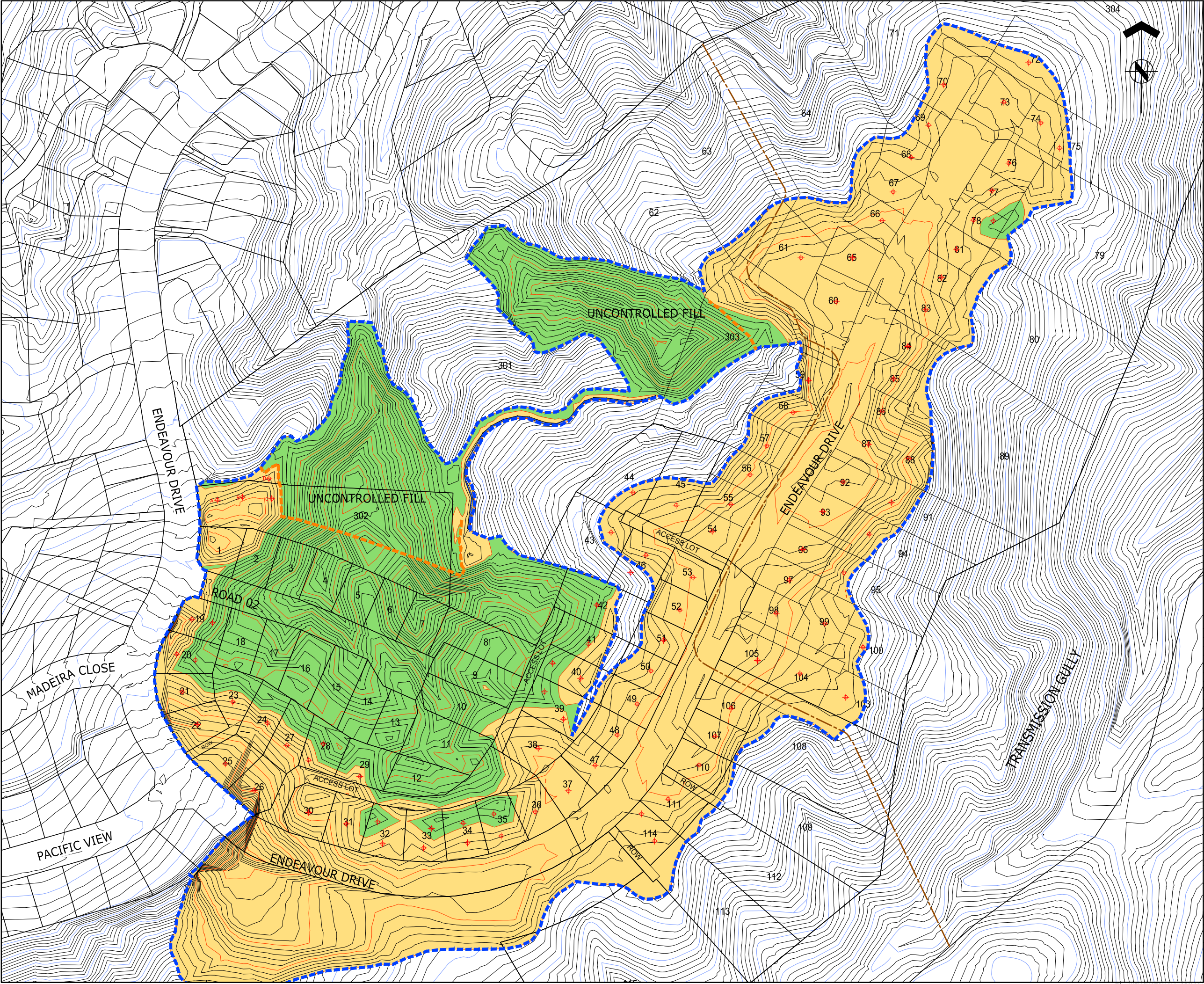
HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE:			
AS-BUILT CUT / FILL CONTOURS WITH SOIL COMPACTION TESTS			
DESIGNED:	DATE:	SIGNED:	PLOT BY:
DRAWN:	DATE:	SIGNED:	PLOT DATE:
CHECKED:	DATE:	SIGNED:	SURVEY BY:
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No:	SCALES:	A1	
1850-000431-11	1:500-A1 1:1000-A3	REV	
DRAWING No:	000431-2C-AB203		A

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB200-205.DWG





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:
1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.
2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.

LEGEND:
- - - INDICATES EARTHWORKS EXTENTS.
- - - INDICATES EXTENT OF UNCONTROLLED FILL
[Yellow Hatched Box] INDICATES CUT CONTOURS (393,240 m3).
[Green Hatched Box] INDICATES FILL CONTOURS (313,400 m3).
+ INDICATES SCALA PENETROMETER TEST.
- - - INDICATES GAS LINE

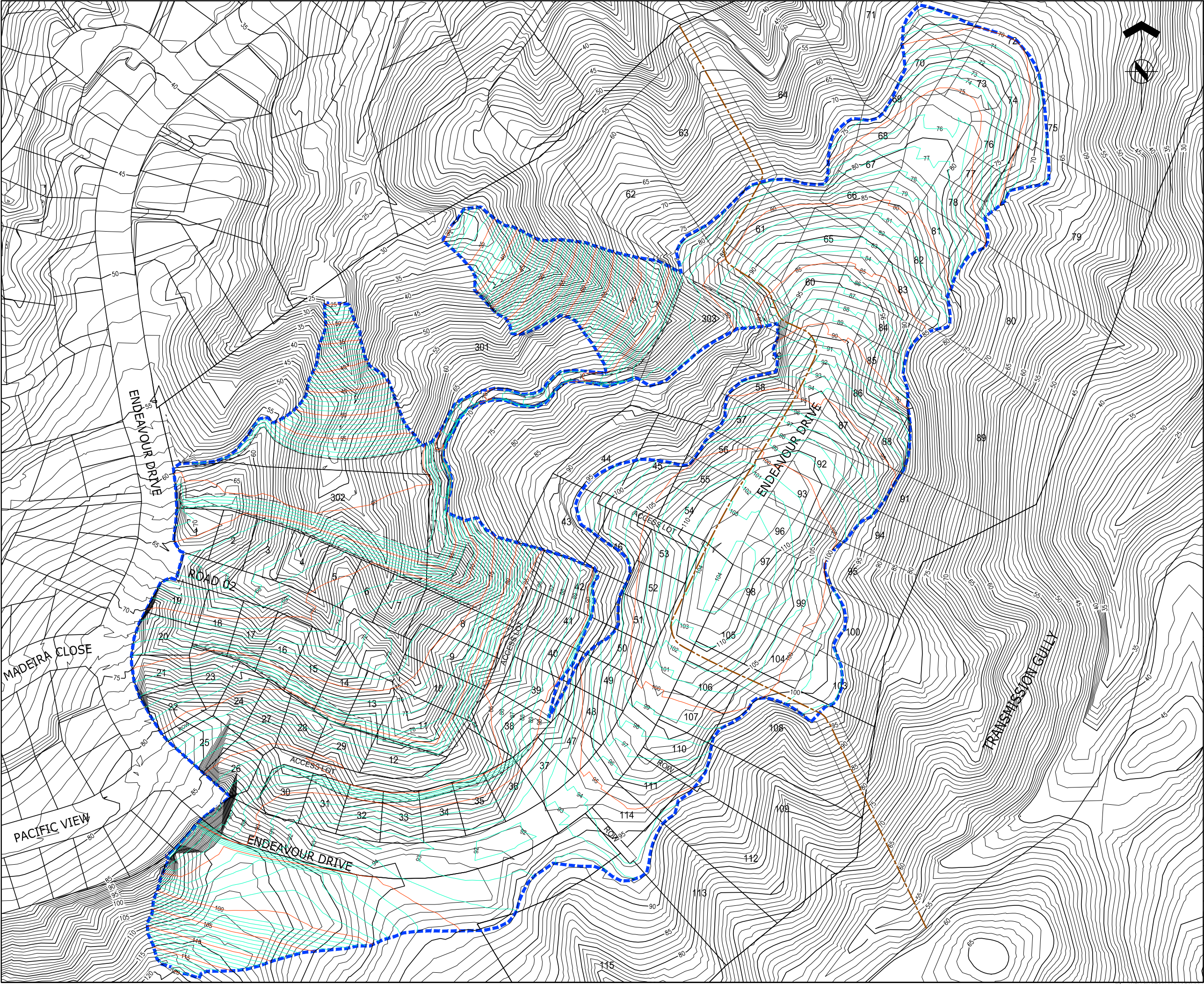
MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS
Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE:			
AS-BUILT CUT / FILL CONTOURS WITH SCALA PENETROMETER TESTS			
DESIGNED:	DATE:	SIGNED:	PLOT BY:
DRAWN:	DATE:	SIGNED:	PLOT DATE:
CHECKED:	DATE:	SIGNED:	SURVEY BY:
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No:	SCALES:	A1	
1850-000431-11	1:1000-A1 1:2000-A3		
DRAWING No:			REV
000431-2C-AB204			A





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES:
1. LOT LAYOUT IS INDICATIVE ONLY, SUBJECT TO FINAL LAND
TRANSFER SURVEY.
2. CONTOURS ARE SHOWN AT 1 METRE INTERVALS.

LEGEND:

 INDICATES EARTHWORKS EXTENTS.

 INDICATES AS-BUILT SUBGRADE CONTOURS.

 INDICATES ORIGINAL CONTOURS.

 INDICATES TOP OF BANK.

 INDICATES BOTTOM OF BANK.

 INDICATES GAS LINE

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS
Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT ISSUE	PWJ	04.12.09
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - PORIRUA STAGE 2 CENTRAL			
TITLE: AS-BUILT SUBGRADE CONTOURS OVERLAY WITH ORIGINAL CONTOURS			
DESIGNED:	DATE:	SIGNED:	PLOT BY: SMB
DRAWN:	DATE: 05.2009	SIGNED:	PLOT DATE: 16.03.10
CHECKED:	DATE: 04.12.09	SIGNED:	SURVEY BY: GMB
APPROVED:	DATE: 04.12.09	SIGNED:	SURVEY DATE: 2008
ISSUE STATUS:			
AS-BUILT ISSUE			
PROJECT No: 1850-000431-11		SCALES: 1:1000-A1 1:2000-A3	A1
DRAWING No: 000431-2C-AB205			REV A





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

LEGEND

-  SINGLE LIGHT 6.5m HPS 70W (ref. S363.01)
-  EXISTING LIGHT

NOTES

- ALL LIGHT POLES MANUFACTURED AND SUPPLIED BY KENDELIER LIGHTING LTD.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

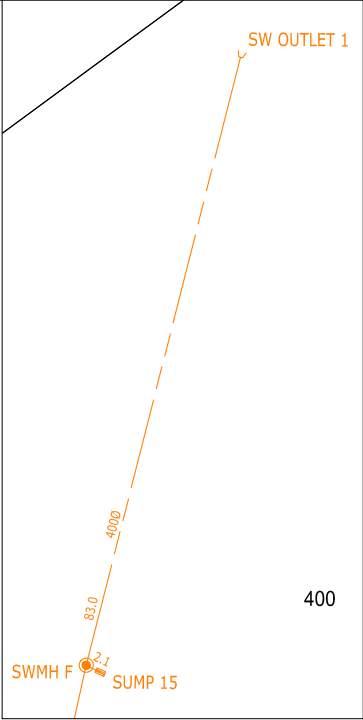
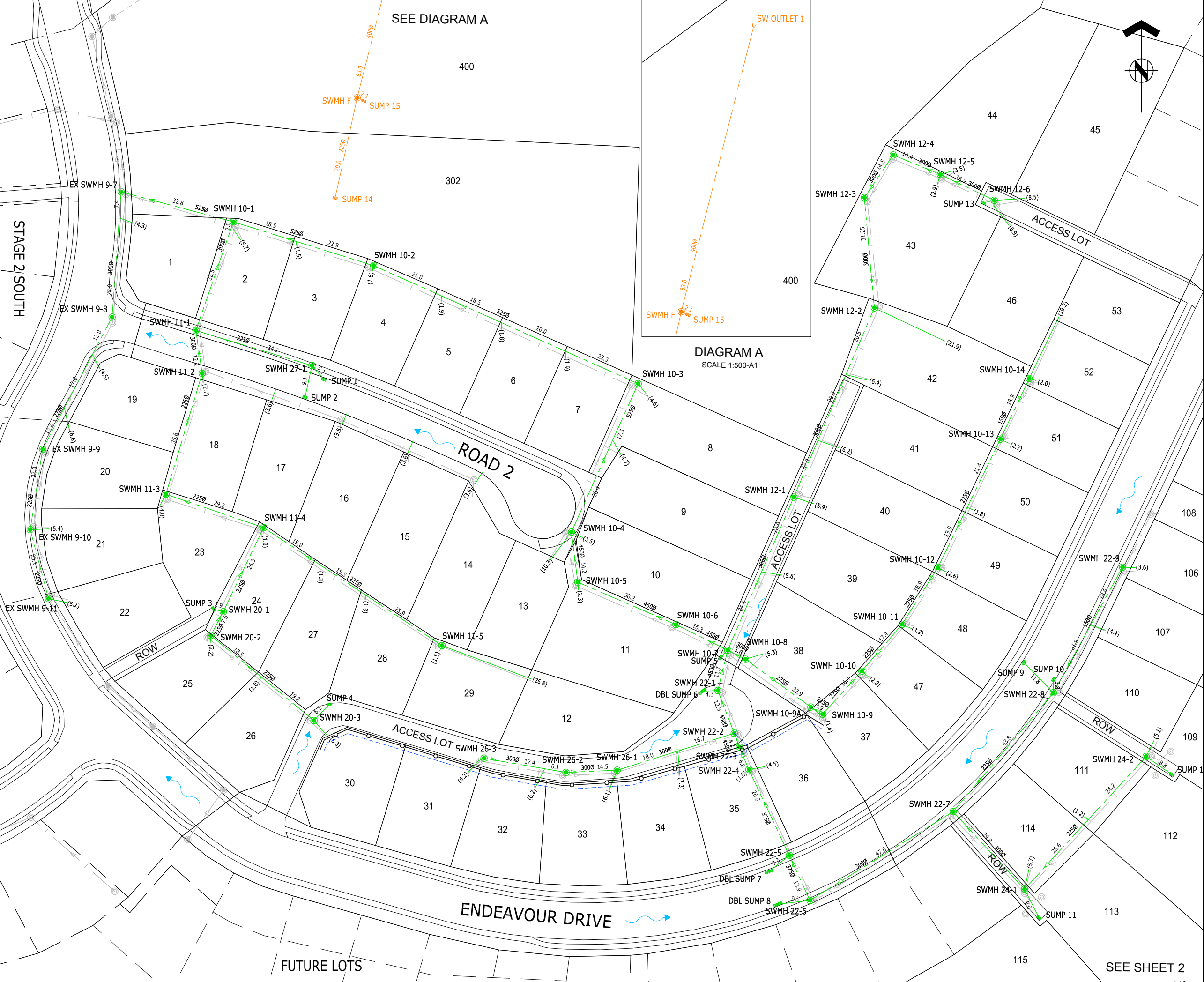
ROADING
AS-BUILT PLANS
OVERALL LAYOUT AND STREET LIGHTS


DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	SCALES:	
1850-000431-11	1:750-A1 1:1500-A3	A1
DRAWING No:		REV
000431-2C-AB300		C
















ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

ISO 9001 QUALITY ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

LEGEND



STORMWATER LINE
STORMWATER MANHOLE
STORMWATER CONNECTION
SUMP
SEWER LINE
SEWER MANHOLE
SEWER CONNECTION
EXISTING STORMWATER LINE
EXISTING STORMWATER MANHOLE
SECONDARY FLOW PATH
STORMWATER - PRIVATE (INSTRUCTED AND APPROVED BY LEISURE ASSETS PORIRUA CITY COUNCIL)
SUBSOIL DRAIN
RETAINING WALL

NOTES

1. ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.
2. ALL SINGLE SUMP LEADS ARE 225mm DIA uPVC.
3. ALL DOUBLE SUMP LEADS ARE 300mm DIA uPVC.
4. ALL POSITIONS AND LEVELS ARE ACCURATE AS AT TIME OF SURVEY.
5. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
6. ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m
7. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.
8. WORK COMPLETED AS AT OCTOBER 2009.
9. POSITION OF HOUSE CONNECTIONS BASED ON INFORMATION SUPPLIED BY HIGGINS CONTRACTORS WELLINGTON.
10. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.
11. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

STORMWATER LINE - PIPE MATERIALS:

(unless shown otherwise)

150 DIA - uPVC
225 DIA - uPVC
300 DIA - RCRRJ Class X
525 DIA - RCRRJ Class X

MASTER



HARRISON GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
B	RETAINING WALL AND SUBSOIL DRAIN ADDED	NJA	14.01.10
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

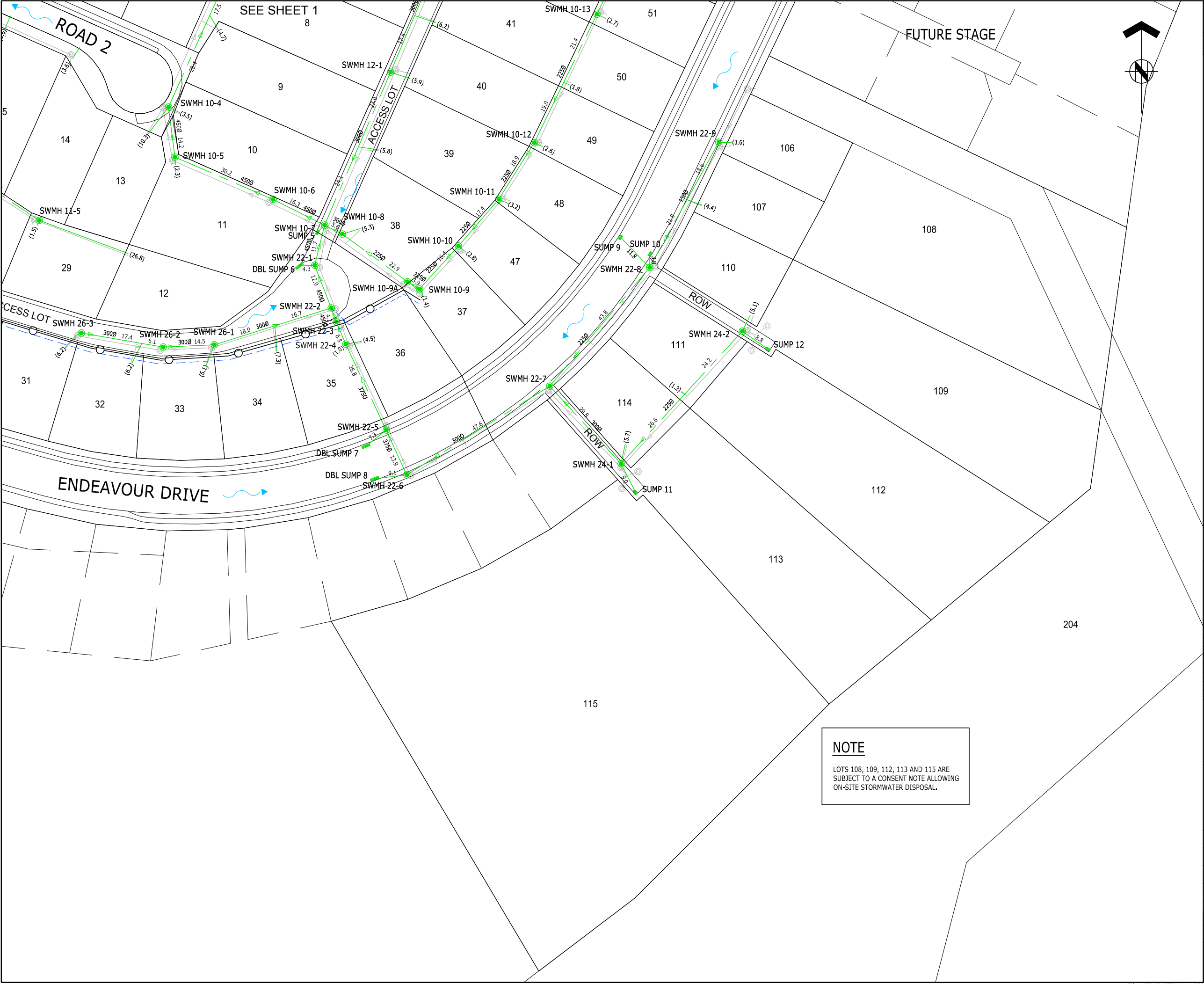
STORMWATER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:	SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:	16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:	GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:	11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	1850-000431-11	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:	000431-2C-AB400	REV	C	







ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND


ISO 9001 QUALITY ASSURED


THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.


LEGEND


 STORMWATER LINE


 STORMWATER MANHOLE


 STORMWATER CONNECTION


 SUMP


 SEWER LINE


 SEWER MANHOLE


 SEWER CONNECTION


 EXISTING STORMWATER LINE

 EXISTING STORMWATER MANHOLE

 SECONDARY FLOW PATH

 STORMWATER - PRIVATE (INSTRUCTED AND APPROVED BY LEISURE ASSETS PORIRUA CITY COUNCIL)

 SUBSOIL DRAIN

 RETAINING WALL

NOTES

1. ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.

2. ALL SINGLE SUMP LEADS ARE 225mm DIA uPVC.

3. ALL DOUBLE SUMP LEADS ARE 300mm DIA uPVC.

4. ALL POSITIONS AND LEVELS ARE ACCURATE AS AT TIME OF SURVEY.

5. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.

6. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

7. WORK COMPLETED AS AT OCTOBER 2009.

8. POSITION OF HOUSE CONNECTIONS BASED ON INFORMATION SUPPLIED BY HIGGINS CONTRACTORS WELLINGTON.

9. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.

10. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

STORMWATER LINE - PIPE MATERIALS:

(unless shown otherwise)


150 DIA - uPVC

225 DIA - uPVC

300 DIA - RCRRJ Class X

525 DIA - RCRRJ Class X

MASTER



HARRISON GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
B	RETAINING WALL AND SUBSOIL DRAIN ADDED	NJA	14.01.10
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

STORMWATER RETICULATION
AS-BUILT PLANS
SHEET 2 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	1850-000431-11	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:	000431-2C-AB401			REV
				C

NOTE

LOTS 108, 109, 112, 113 AND 115 ARE SUBJECT TO A CONSENT NOTE ALLOWING ON-SITE STORMWATER DISPOSAL.

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB400.DWG

MH no	mN	mE	LL	IL	DEPTH
EX SWMH 9-7	820565.25	411128.78	61.64	59.08	2.56
EX SWMH 9-8	820529.90	411126.25	65.78	63.51	2.27
EX SWMH 9-9	820492.59	411106.63	71.23	69.43	1.80
EX SWMH 9-10	820469.90	411103.13	74.42	72.74	1.68
EX SWMH 9-11	820450.44	411108.30	77.24	75.56	1.68
SWMH 10-1	820556.79	411160.50	64.31	61.18	3.13
SWMH 10-2	820544.44	411200.07	67.32	65.24	2.08
SWMH 10-3	820511.10	411274.79	72.34	69.90	2.44
SWMH 10-4	820469.21	411255.95	73.37	71.55	1.82
SWMH 10-5	820455.08	411257.74	75.53	73.35	2.18
SWMH 10-6	820443.10	411285.49	78.46	76.29	2.17
SWMH 10-7	820435.84	411300.08	84.17	81.34	2.83
SWMH 10-8	820433.31	411305.10	84.27	82.83	1.44
SWMH 10-9	820417.78	411326.90	89.25	86.85	2.40
SWMH 10-9A	820419.81	411323.55	86.17	84.89	1.28
SWMH 10-10	820429.95	411337.92	90.61	88.42	2.19
SWMH 10-11	820443.14	411349.31	92.64	91.08	1.56
SWMH 10-12	820459.12	411359.38	94.84	93.59	1.25
SWMH 10-13	820495.44	411377.09	97.07	95.55	1.52
SWMH 10-14	820512.54	411385.22	99.09	97.91	1.18
SWMH 11-1	820526.11	411149.90	66.48	64.52	1.96
SWMH 11-2	820513.99	411151.68	66.77	64.98	1.79
SWMH 11-3	820479.89	411141.44	74.08	71.89	2.19
SWMH 11-4	820470.47	411169.04	77.49	75.56	1.93
SWMH 11-5	820437.17	411219.41	81.60	79.60	2.00

SUMP No	mN	mE	LL
SUMP 1	820512.28	411186.04	68.48
SUMP 2	820507.29	411180.71	68.28
SUMP 3	820447.42	411154.81	80.05
SUMP 4	820420.54	411187.51	85.41
SUMP 5	820433.83	411298.08	83.92
SUMP 6	820424.24	411293.22	83.29
SUMP 7	820373.41	411311.77	91.76
SUMP 8	820364.16	411314.24	91.60
SUMP 9	820432.36	411383.78	97.41
SUMP 10	820427.69	411392.1	97.41
SUMP 11	820360.43	411388.02	93.87
SUMP 12	820400.84	411425.57	95.03
SUMP 13	820562.17	411372.33	96.64
SUMP 14	820563.49	411189.22	59.23
SUMP 15	820590.91	411197.39	58.27

MH No	mN	mE	LL	IL	DEPTH
SWMH 12-1	820479.06	411318.74	85.31	83.32	1.99
SWMH 12-2	820532.49	411341.49	85.61	84.27	1.34
SWMH 12-3	820563.61	411338.66	88.57	87.03	1.54
SWMH 12-4	820575.65	411346.80	89.27	87.79	1.48
SWMH 12-5	820570.17	411360.12	94.89	93.30	1.59
SWMH 12-6	820562.86	411375.35	97.02	95.10	1.92
SWMH 20-1	820446.68	411157.63	80.26	78.40	1.86
SWMH 20-2	820440.02	411154.12	81.10	79.18	1.92
SWMH 20-3	820416.01	411183.24	85.92	83.66	2.26
SWMH 22-1	820424.49	411297.28	83.42	81.92	1.50
SWMH 22-2	820412.43	411301.93	83.60	82.10	1.50
SWMH 22-3	820408.51	411303.40	83.85	82.68	1.17
SWMH 22-4	820402.19	411306.05	89.06	86.91	2.15
SWMH 22-5	820377.92	411317.49	92.02	89.71	2.31
SWMH 22-6	820365.26	411323.29	91.91	89.99	1.92
SWMH 22-7	820390.31	411363.75	94.04	91.78	2.26
SWMH 22-8	820423.84	411392.02	97.38	95.87	1.51
SWMH 22-9	820459.27	411411.55	100.66	99.28	1.38
SWMH 24-1	820368.40	411383.90	94.02	92.10	1.92
SWMH 24-2	820405.85	411418.22	95.95	93.91	2.04
SWMH 26-1	820401.99	411268.88	84.22	82.62	1.60
SWMH 26-2	820401.37	411254.41	84.37	82.91	1.46
SWMH 26-3	820405.37	411231.27	84.75	83.35	1.40
SWMH 27-1	820516.21	411182.68	68.42	66.70	1.72
SWMH F	820591.81	411195.47	58.97	57.62	1.35
SW OUTLET 1	820672.449	411215.855	OUTLET BURIED. LEVELS TO BE CONFIRMED WITH POND AS-BUILT		



ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES

1. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

2. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON
CIRCUIT.

3. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN
OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE
VERIFIED ON SITE PRIOR TO CONSTRUCTION
COMMENCING. HARRISON GRIERSON DOES NOT IN ANY
WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND
SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

STORMWATER RETICULATION
AS-BUILT TABLES
SHEET 3 OF 3

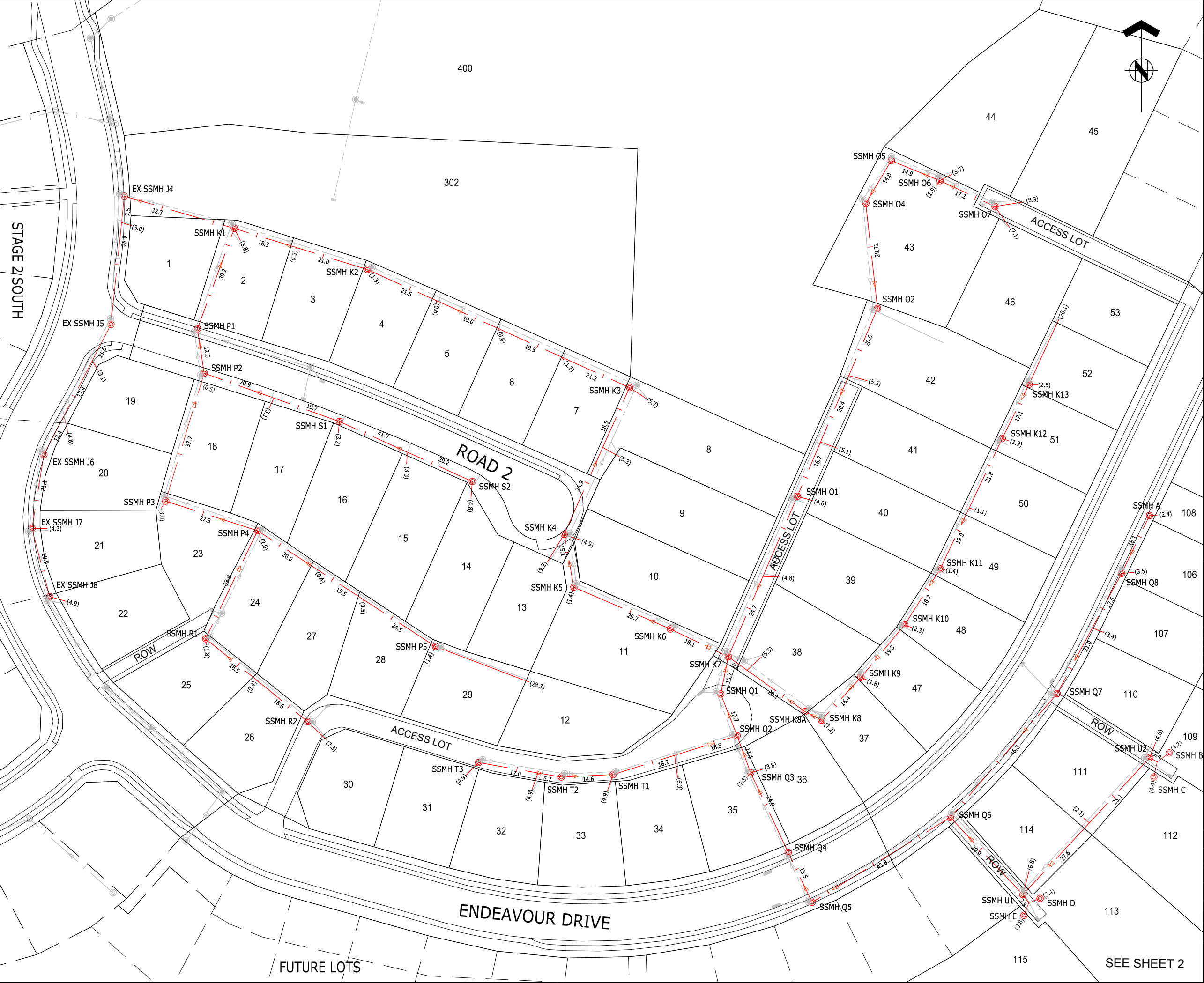
DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009


ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	SCALES:	A1
1850-000431-11	1:500-A1 1:1000-A3	
DRAWING No:	REV	
000431-2C-AB402	C	

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB400.DWG







ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND


ISO 9001
QUALITY
ASSURED


THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.


LEGEND


 STORMWATER LINE


 STORMWATER MANHOLE


 STORMWATER CONNECTION


 SUMP

 SEWER LINE

 SEWER MANHOLE

 SEWER CONNECTION

 EXISTING SEWER LINE

 EXISTING SEWER MANHOLE

NOTES

1. ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.

2. ALL SEWER MAIN PIPES ARE 150mm DIA uPVC UNLESS SHOWN OTHERWISE.

3. ALL POSITIONS AND LEVELS ARE ACCURATE AT TIME OF SURVEY.

4. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

5. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

6. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.


7. WORK COMPLETED AS AT OCTOBER 2009.

8. POSITION OF HOUSE CONNECTIONS BASED ON INFORMATION SUPPLIED BY HIGGINS CONTRACTORS WELLINGTON.

9. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.

10. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

SANITARY SEWER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

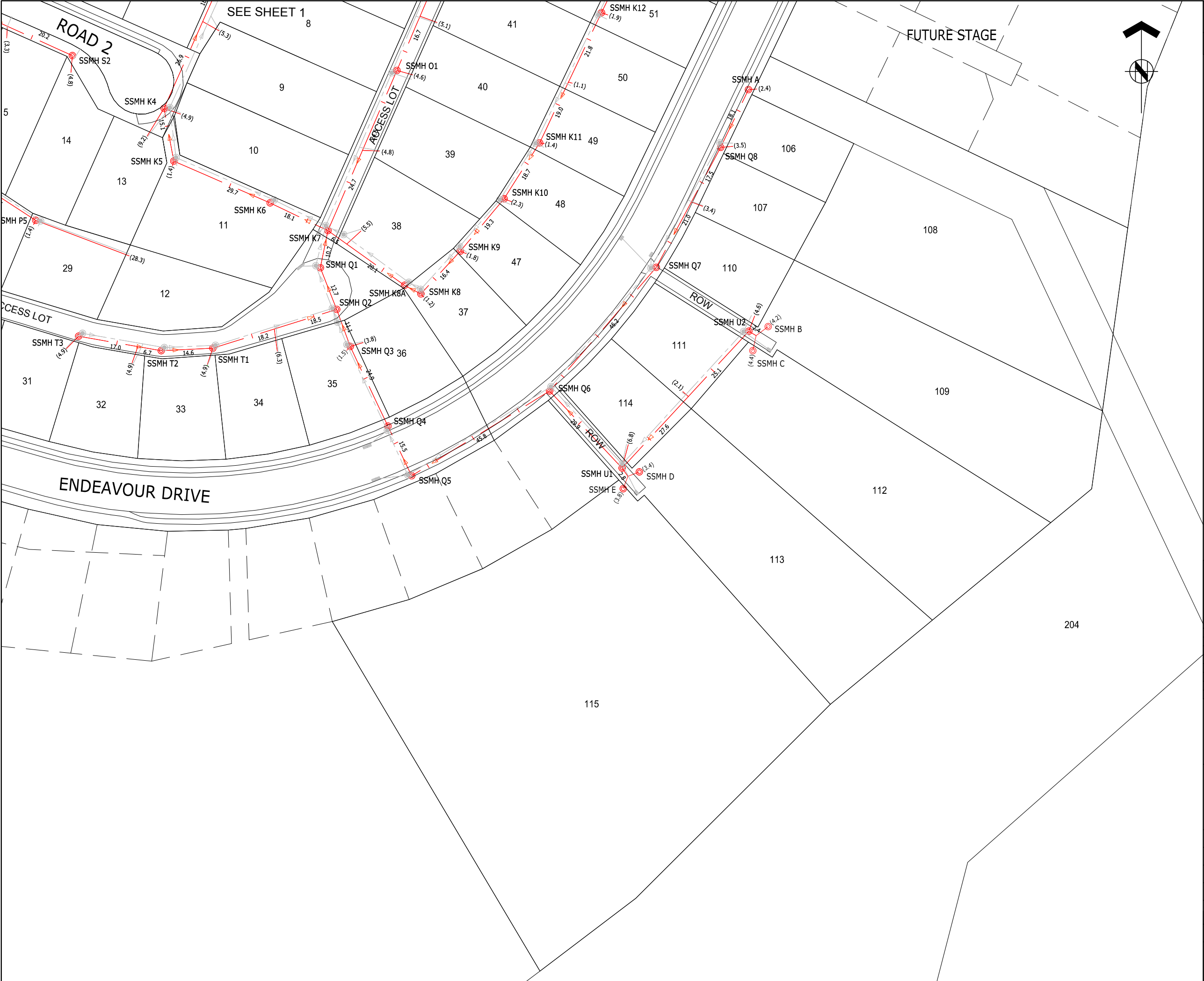
ISSUE STATUS:


AS-BUILT ISSUE

PROJECT No:	1850-000431-11	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:				REV
000431-2C-AB403				C

SEE SHEET 2

WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB400.DWG














ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND

ISO 9001 QUALITY ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

LEGEND



STORMWATER LINE
STORMWATER MANHOLE
STORMWATER CONNECTION
SUMP
SEWER LINE
SEWER MANHOLE
SEWER CONNECTION
EXISTING SEWER LINE
EXISTING SEWER MANHOLE

NOTES

1. ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.

2. ALL SEWER MAIN PIPES ARE 150mm DIA uPVC UNLESS SHOWN OTHERWISE.

3. ALL POSITIONS AND LEVELS ARE ACCURATE AT TIME OF SURVEY.

4. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

5. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

6. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.


7. WORK COMPLETED AS AT OCTOBER 2009.

8. POSITION OF HOUSE CONNECTIONS BASED ON INFORMATION SUPPLIED BY HIGGINS CONTRACTORS WELLINGTON.

9. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.

10. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

SANITARY SEWER RETICULATION
AS-BUILT PLANS
SHEET 2 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	1:500-A1	A1
1850-000431-11	1:1000-A3	
DRAWING No:		REV
000431-2C-AB404		C

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB400.DWG



ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES

1. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

2. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON
CIRCUIT.

3. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN
OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE
VERIFIED ON SITE PRIOR TO CONSTRUCTION
COMMENCING. HARRISON GRIERSON DOES NOT IN ANY
WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND
SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

SANITARY SEWER RETICULATION
AS-BUILT TABLES
SHEET 3 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

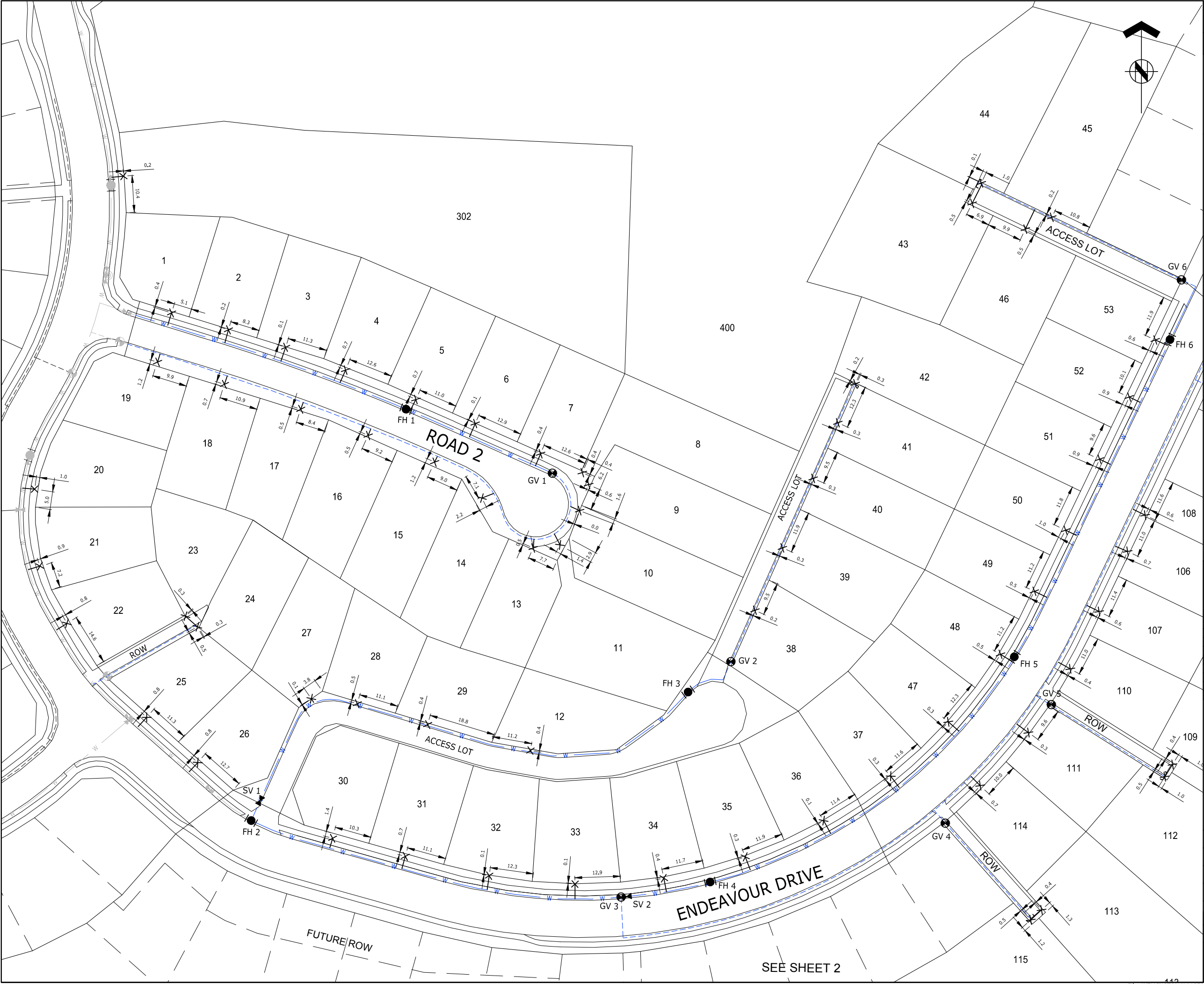
AS-BUILT ISSUE

PROJECT No:	SCALES:	A1
1850-000431-11	1:500-A1 1:1000-A3	
DRAWING No:	REV	
000431-2C-AB405	C	

File: WELLINGTON N:\1850\00431_A\CAD-STAGE 2 CENTRAL\ASBUILT PLANS\000431-2C-AB400.DWG

MH No	mN	mE	LL	IL	DEPTH
EX SSMH J4	820564.52	411130.15	61.77	60.18	1.59
EX SSMH J5	820528.28	411126.37	65.89	63.70	2.19
EX SSMH J6	820491.47	411107.42	71.40	69.60	1.80
EX SSMH J7	820470.68	411104.07	74.38	72.62	1.76
EX SSMH J8	820451.42	411109.07	77.17	75.39	1.78
SSMH K1	820555.41	411161.19	64.37	62.69	1.68
SSMH K2	820543.82	411198.73	67.24	65.18	2.06
SSMH K3	820510.46	411272.78	72.32	69.80	2.52
SSMH K4	820469.00	411254.35	73.34	71.49	1.85
SSMH K5	820454.11	411257.07	75.60	73.40	2.20
SSMH K6	820442.26	411284.33	78.48	76.29	2.19
SSMH K7	820434.43	411300.70	84.12	81.55	2.57
SSMH K8	820416.54	411326.97	89.41	86.99	2.42
SSMH K8A	820418.94	411322.36	86.12	84.52	1.60
SSMH K9	820428.61	411338.13	90.74	88.39	2.35
SSMH K10	820443.45	411350.49	92.81	91.27	1.54
SSMH K11	820459.25	411360.55	94.95	93.77	1.18
SSMH K12	820496.09	411378.04	97.13	95.63	1.50
SSMH K13	820511.38	411385.62	99.03	97.86	1.17
SSMH O1	820479.73	411320.19	85.37	83.36	2.01
SSMH O2	820532.80	411342.83	85.72	84.36	1.36
SSMH O4	820562.51	411339.49	88.84	86.98	1.86
SSMH O5	820574.53	411346.71	89.28	87.73	1.55
SSMH O6	820568.90	411360.46	95.00	93.47	1.53
SSMH O7	820561.58	411375.98	97.12	95.19	1.93
SSMH P1	820527.03	411150.80	66.54	64.79	1.75

MH No	mN	mE	LL	IL	DEPTH
SSMH P2	820514.53	411152.68	66.79	65.02	1.77
SSMH P3	820478.39	411141.81	74.23	72.01	2.22
SSMH P4	820470.04	411167.76	77.42	75.46	1.96
SSMH P5	820437.34	411218.03	81.54	79.62	1.92
SSMH Q1	820423.93	411298.55	83.45	81.97	1.48
SSMH Q2	820412.13	411303.17	83.59	82.19	1.40
SSMH Q3	820401.66	411307.00	89.23	87.15	2.08
SSMH Q4	820379.12	411317.65	92.03	89.54	2.49
SSMH Q5	820365.09	411324.35	91.91	89.90	2.01
SSMH Q6	820389.06	411363.38	93.96	91.70	2.26
SSMH Q7	820424.05	411393.55	97.47	95.96	1.51
SSMH Q8	820457.96	411411.74	100.56	99.17	1.39
SSMH R1	820439.53	411153.10	81.32	79.24	2.08
SSMH R2	820416.14	411181.90	85.95	83.60	2.35
SSMH S1	820500.87	411190.89	69.30	68.20	1.10
SSMH S2	820483.94	411228.40	71.78	70.81	0.97
SSMH T1	820401.18	411268.15	84.22	82.60	1.62
SSMH T2	820400.48	411253.53	84.43	82.97	1.46
SSMH T3	820404.55	411230.19	84.80	83.40	1.40
SSMH U1	820367.29	411383.88	94.01	92.09	1.92
SSMH U2	820405.97	411419.73	95.90	93.84	2.06
SSMH A	820474.30	411419.62	102.05	101.22	0.83
SSMH B	820407.29	411425.19	95.89	95.11	0.78
SSMH C	820400.47	411420.85	95.30	94.42	0.88
SSMH D	820366.19	411388.73	94.15	93.25	0.90
SSMH E	820361.43	411384.18	93.87	92.97	0.90





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED
OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS
LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

LEGEND

 FIRE HYDRANT

 GATE VALVE

 SLUICE VALVE

 WATER TOBY

 END CAP

 150mm I.D. PN12 uPVC BLUE
BRUTE WATERMAIN

 50mm I.D. MDPE RIDERMAIN

 EXISTING 150mm WATERMAIN

 EXISTING RIDERMAIN

 EXISTING FIRE HYDRANT

 EXISTING GATE VALVE

 EXISTING SLUICE VALVE

 EXISTING PRV CHAMBER

NOTES

1. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

2. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON
CIRCUIT.

3. ALL DIMENSIONS ARE GIVEN IN METRES UNLESS
OTHERWISE STATED.

4. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN
OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE
VERIFIED ON SITE PRIOR TO CONSTRUCTION
COMMENCING. HARRISON GRIERSON DOES NOT IN ANY
WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND
SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

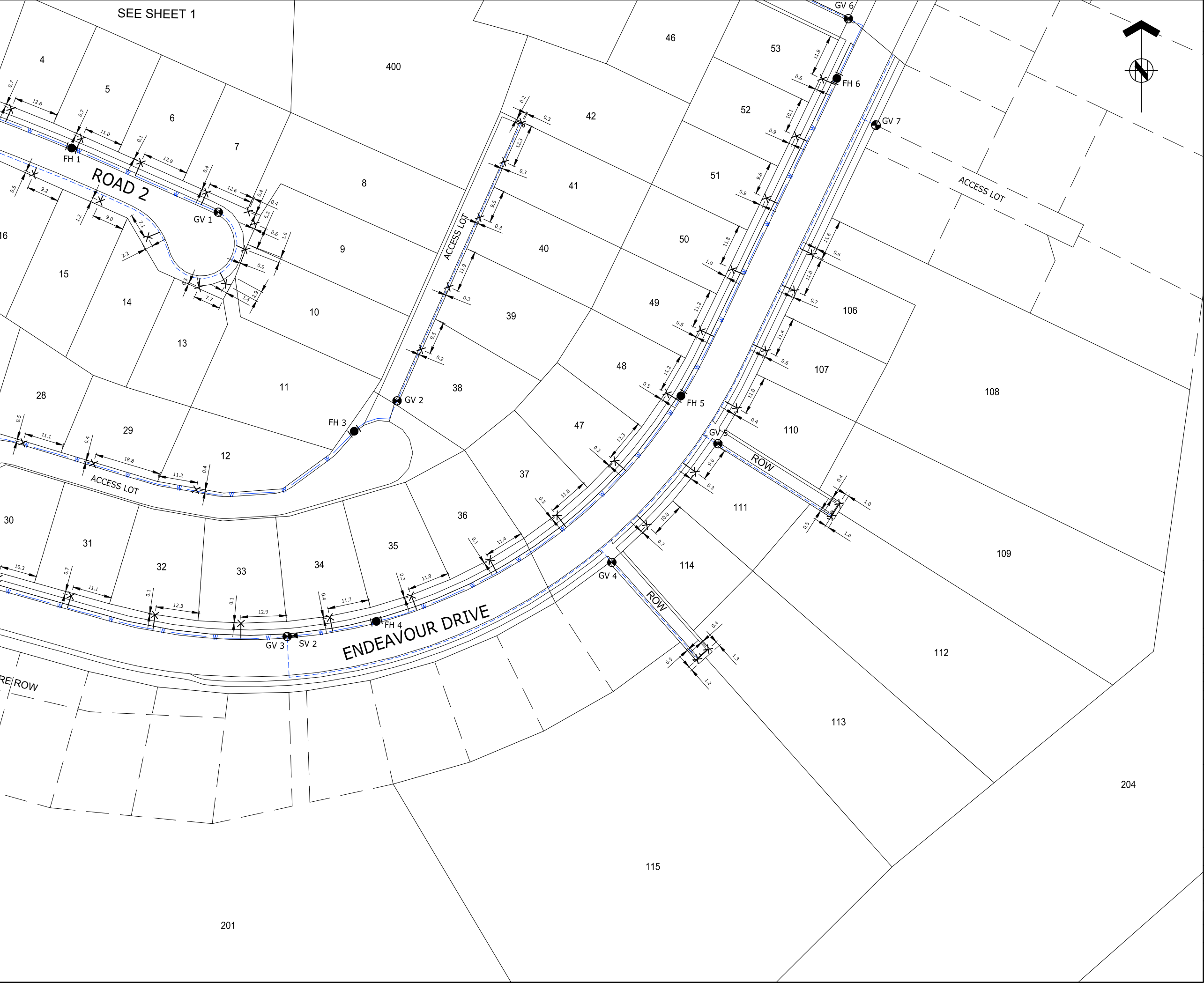
WATER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:	SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:	16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:	GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:	11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	1850-000431-11	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:				REV
000431-2C-AB500				C





ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
ASSURED

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

LEGEND



FIRE HYDRANT
GATE VALVE
SLUICE VALVE
WATER TOBY
END CAP
150mm I.D. PN12 uPVC BLUE
BRUTE WATERMAIN
50mm I.D. MDPE RIDERMAIN
EXISTING 150mm WATERMAIN
EXISTING RIDERMAIN
EXISTING FIRE HYDRANT
EXISTING GATE VALVE
EXISTING SLUICE VALVE
EXISTING PRV CHAMBER

NOTES

1. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m

2. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

3. ALL DIMENSIONS ARE GIVEN IN METRES UNLESS OTHERWISE STATED.

4. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

MASTER



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

WATER RETICULATION
AS-BUILT PLANS
SHEET 2 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11.2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:	SCALES:	A1
1850-000431-11	1:500-A1 1:1000-A3	
DRAWING No:		REV
000431-2C-AB501		C

THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.

NOTES

1. LEVELS ARE IN TERMS OF MEAN SEA LEVEL.
ORIGIN OF LEVELS: NAIL X DP 348624, RL: 51.94m
2. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.
3. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

MASTER

HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

C	AS-BUILT ISSUE	AMB	03.03.10
-			
A	AS-BUILT ISSUE	GMB	04.12.09
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE
SILVERWOOD BLOCK - PORIRUA
STAGE 2 CENTRAL

TITLE:

WATER RETICULATION
AS-BUILT TABLES
SHEET 3 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
GMB	11-2009		16.03.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
MJH	03.03.10		GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	03.03.10		11.2009

ISSUE STATUS:

AS-BUILT ISSUE

PROJECT No:
1850-000431-11

SCALES: 1:500-A1
1:1000-A3

A1

DRAWING No:

000431-2C-AB502

REV

C

LOT CONNECTION COORDINATE TABLE		
	mN	mE
LOT 1	820530.67	411144.85
LOT 2	820525.89	411160.93
LOT 3	820520.95	411177.11
LOT 4	820514.51	411194.07
LOT 5	820506.20	411213.96
LOT 6	820499.40	411230.72
LOT 7	820490.87	411249.17
LOT 8	820485.53	411261.02
LOT 9	820482.15	411262.83
LOT 10	820474.62	411260.63
LOT 11	820465.10	411254.71
LOT 12	820406.97	411246.34
LOT 13	820464.23	411247.12
LOT 14	820478.33	411232.62
LOT 15	820488.49	411219.22
LOT 16	820496.02	411200.43
LOT 17	820503.44	411181.38
LOT 18	820510.46	411159.81
LOT 19	820516.77	411140.89
LOT 20	820480.87	411106.11
LOT 21	820459.11	411107.63
LOT 22	820442.92	411115.26
LOT 23	820444.97	411148.80
LOT 24	820441.96	411152.16
LOT 25	820416.36	411137.83
LOT 26	820403.58	411152.27
LOT 27	820421.64	411184.37
LOT 28	820420.22	411197.38
LOT 29	820414.33	411217.29
LOT 30	820382.18	411190.40
LOT 31	820377.07	411210.96
LOT 32	820371.61	411234.68

LOT CONNECTION COORDINATE TABLE		
	mN	mE
LOT 33	820369.23	411258.94
LOT 34	820370.88	411284.06
LOT 35	820376.91	411307.10
LOT 36	820387.18	411329.26
LOT 37	820399.72	411348.23
LOT 38	820446.63	411309.84
LOT 39	820464.26	411317.60
LOT 40	820483.91	411326.30
LOT 41	820499.62	411333.29
LOT 42	820510.66	411338.18
LOT 43	820561.61	411371.28
LOT 44	820567.39	411373.86
LOT 45	820557.72	411393.79
LOT 46	820554.35	411386.31
LOT 47	820415.10	411364.51
LOT 48	820434.18	411379.28
LOT 49	820451.99	411388.86
LOT 50	820469.25	411397.69
LOT 51	820489.35	411407.29
LOT 52	820506.89	411415.69
LOT 53	820523.01	411423.05
LOT 106	820463.27	411415.21
LOT 107	820446.29	411407.16
LOT 108	820473.51	411420.19
LOT 109	820403.03	411427.95
LOT 110	820430.07	411399.01
LOT 111	820412.05	411387.18
LOT 112	820399.57	411425.74
LOT 113	820361.93	411390.89
LOT 114	820397.06	411373.55
LOT 115	820359.11	411387.83

WATERMAIN FITTING COORDINATE TABLE		
	mN	mE
FH 1	820503.6	411211.13
FH 2	820387.64	411167.16
FH 3	820423.40	411291.04
FH 4	820369.81	411297.20
FH 5	820433.53	411383.17
FH 6	820523.16	411427.26
GV 1	820485.23	411252.50
GV 2	820432.06	411303.02
GV 3	820365.21	411272.01
GV 4	820386.44	411363.66
GV 5	820419.95	411393.63
GV 6	820539.77	411430.37
GV 7	820509.94	411438.25
SV 1	820393.08	411169.49
SV 2	820365.70	411273.74