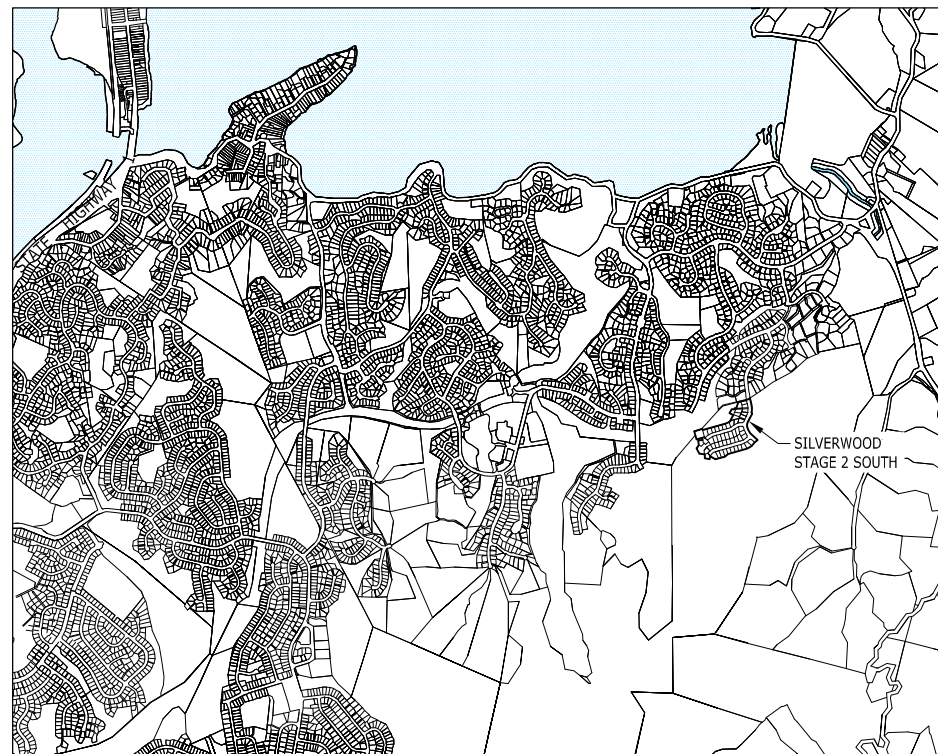


# CARRUS LIMITED SILVERWOOD - PORIRUA STAGE 2 SOUTH AS BUILT PLANS



Locality Plan  
Scale 1:20,000

000431-2AB-AB200	Earthworks As Built plans Finished Subgrade Contours
000431-2AB-AB201	Earthworks As Built plans Cut/Fill Contours
000431-2AB-AB202	Earthworks As Built plans Cut/Fill Contours - Soil Test Locations
000431-2AB-AB210	Earthworks As Built plans Cut/Fill Contours - Subsoil Drain Locations
000431-2AB-AB300	Roading As Built plans Overall Layout & Lights
000431-2AB-AB400	Stormwater As Built plans Sheet 1 of 3
000431-2AB-AB401	Stormwater As Built plans Sheet 2 of 3
000431-2AB-AB402	Stormwater As Built plans Sheet 3 of 3
000431-2AB-AB403	Sanitary Sewer As Built plans Sheet 1 of 2
000431-2AB-AB404	Sanitary Sewer As Built plans Sheet 2 of 2
000431-2AB-AB500	Water Reticulation As Built plans Sheet 1 of 4
000431-2AB-AB501	Water Reticulation As Built plans Sheet 2 of 4
000431-2AB-AB502	Water Reticulation As Built plans Sheet 3 of 4
000431-2AB-AB503	Water Reticulation As Built plans Sheet 4 of 4



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ISSUE A

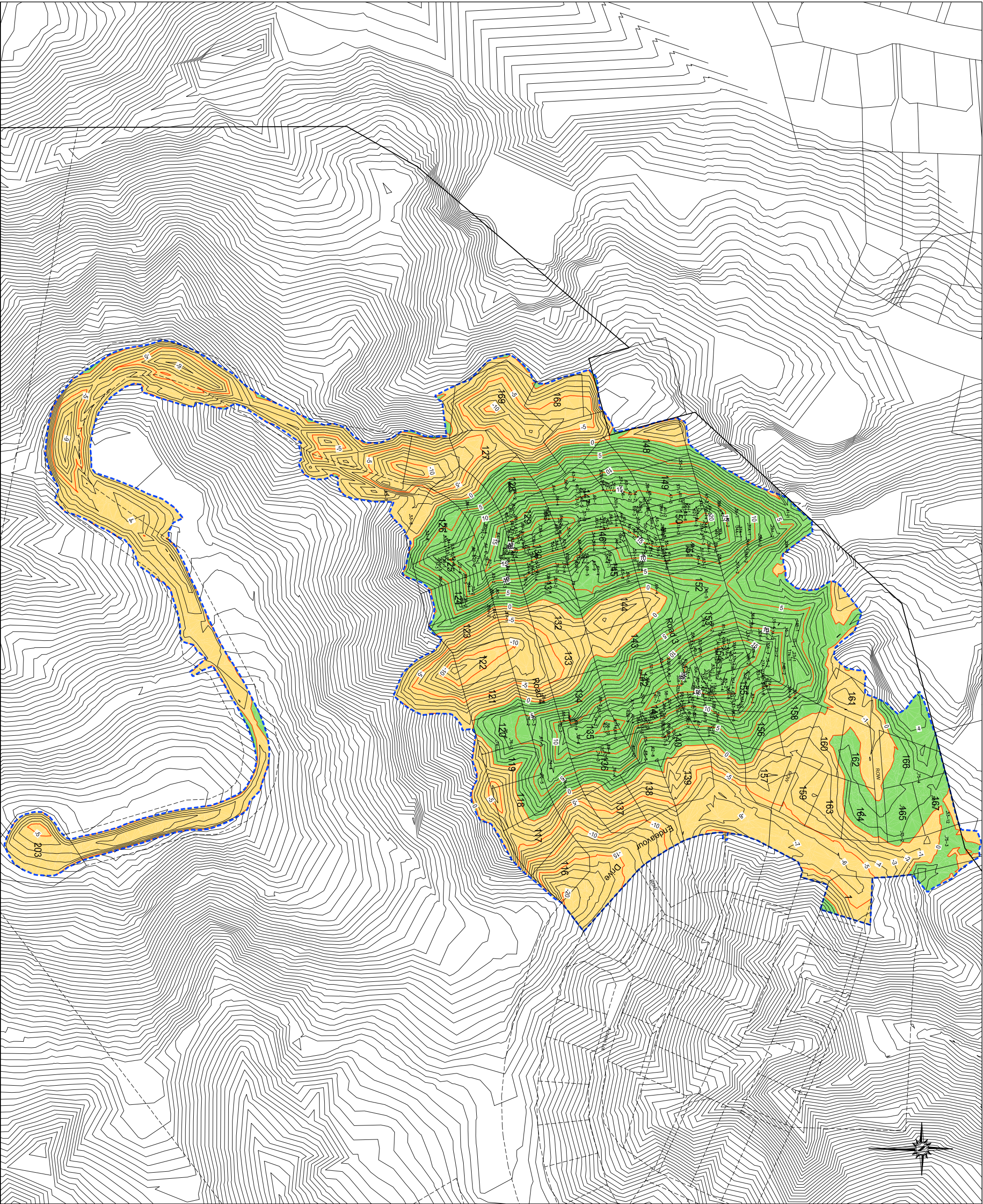
1850-000431-04  
JULY 2008



NOTES:

1, Contours are shown at 1m Intervals.

- 1, Contours are shown at 1m intervals.
- 2,  Indicates Earthwork Boundary,
- 3,  Indicates Cut Contours,  
Total Cut = 174,900m3
- 4,  Indicates Fill Contours,  
Total Fill = 229,100m3
- 5,  Indicates Geotech Soil Tests

[illegible]

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK  
WHITBY

STAGE 2 SOUTH  
ASBUILT CUT / FILL CONTOURS  
AND FILL COMPACTION TESTS

DESIGNED:	DATE:	SIGNATURE:	PLT DATE:	24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:	
PWJ	07-2008		CAD NAME:	
CHECKED:	DATE:	SIGNATURE:	SURVEY PR:	
MJH	23/07/2008		SURVEY DATE:	
APPROVED:	DATE:	SIGNATURE:	SUR REF:	
PWWW	24/07/2008			

## AS BUILT

PROJECT No:	1850-000431-04	SCALES:	1:1000 (A1) 1:2000 (A3)	A1
DRAWING No:				REV

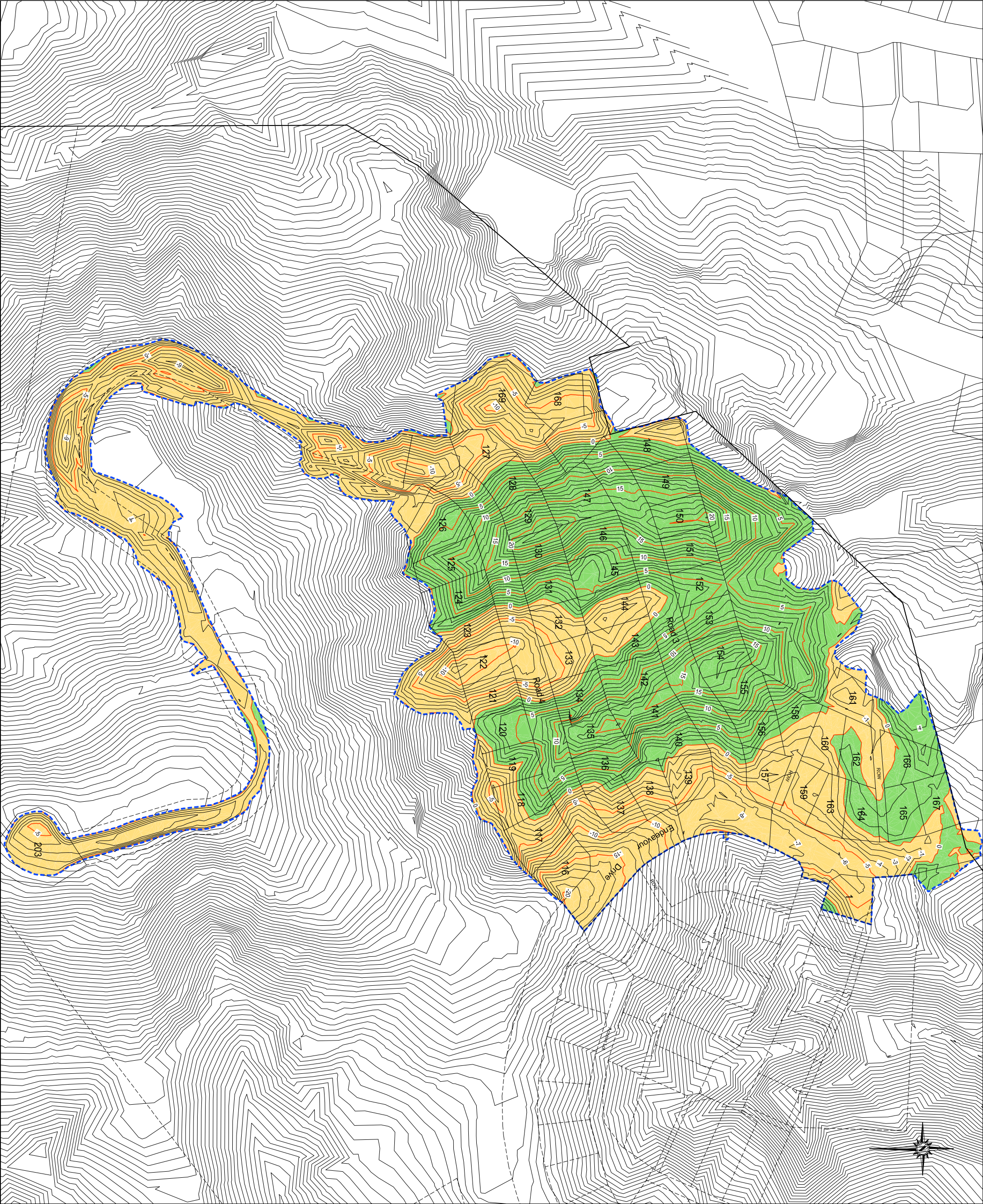
000431-2S-AB202 A



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NOTES:

- Contours are shown at 1m Intervals.
- Indicates Earthworks Boundary.
- Indicates Cut Contours.  
Total Cut = 174,900m<sup>3</sup>
- Indicates Fill Contours,  
Total Fill = 259,100m<sup>3</sup>



**HARRISON GRIERSON**  
CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Good Time Tower 246 Silver Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

PROJECT:	A	INITIAL RELEASE	DATE:	24/07/2008
REF:	AMENDMENT	BY:	DATE:	

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK  
WHITBY

TITLE:  
STAGE 2 SOUTH  
ASBUILT CUT / FILL CONTOURS

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:	24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:	
CHECKED:	DATE:	SIGNATURE:	SUNET BY:	
APPROVED:	DATE:	SIGNATURE:	SUNET DATE:	
PJMMW:	24/07/2008		SUR REF:	

AS BUILT

PROJECT NO:	1850-000431-04	SCALE:	1:1000 (A1)	REV	A1
DRAWING NO:	000431-2S-AB201	SCALE:	1:2000 (A3)	REV	







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LEGEND

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

NOTES

1. All light poles manufactured and supplied by Kendelier Lighting Ltd.



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GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

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

A	INITIAL RELEASE	JMS	24/07/2008
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK - WHITBY  
STAGES 2A, 2B & 2C

TITLE:

ROADING AS BUILT PLANS  
OVERALL LAYOUT AND STREET LIGHTS

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:	24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:	000431-2S-AB300
GMB	24/07/2008		CAD XREF:	
CHECKED:	DATE:	SIGNATURE:	SURVEY BY:	GMB
MAM	24/07/2008		SURVEY DATE:	06/2008
APPROVED:	DATE:	SIGNATURE:	SDR REF:	
JMS	24/07/2008			

PLOT STATUS:

AS BUILT

PROJECT No:	SCALES:	1:750 (A1) 1:1500 (A3)	A1
DRAWING No:			REV

000431-2S-AB300


A

J:\1850\00431\_a\Cad\As-builts Stage 2 South\000431-2S-AB300.dwg



MH No	mN	mE	LL	IL	DEPTH
SSMH A1	820593.19	411052.06	52.47	51.28	1.19
SSMH A2	820583.52	411057.57	56.22	54.32	1.90
SSMH A3	820560.43	411050.93	57.78	56.08	1.70
SSMH A4	820527.80	411035.81	61.33	58.63	2.70
SSMH A5	820488.08	411013.16	61.44	58.98	2.46
SSMH A6	820481.70	410993.00	59.97	59.12	0.85
SSMH A7	820470.67	410952.41	61.40	59.89	1.51
SSMH A8	820459.82	410915.36	63.11	61.76	1.35
SSMH B1	820563.36	411084.43	60.12	58.71	1.41
SSMH B2	820531.15	411074.63	64.60	63.78	0.82
SSMH C1	820514.91	411064.21	66.34	64.88	1.46
SSMH D1	820453.33	411001.47	64.70	62.05	2.65
SSMH D2	820441.46	411005.34	64.70	62.60	2.10
SSMH D3	820434.37	410981.25	64.91	63.42	1.49
SSMH D4	820417.14	410924.17	67.93	66.75	1.18
SSMH D5	820396.45	410893.36	69.73	67.04	2.69
SSMH D6	820379.49	410880.35	70.23	67.95	2.28
SSMH E1	820454.42	411034.64	66.15	64.74	1.41
SSMH E2	820469.27	411058.41	69.21	68.20	1.01
SSMH F1	820412.48	411013.51	69.65	67.66	1.99
SSMH F2	820402.06	411016.68	74.40	71.88	2.52
SSMH F3	820395.10	410992.36	74.72	73.36	1.36
SSMH F4	820378.27	410932.01	77.92	76.34	1.58
SSMH F5	820369.09	410912.62	79.21	78.05	1.16
SSMH G1	820408.72	411038.79	74.32	72.34	1.98
SSMH G2	820426.11	411069.01	76.02	74.70	1.32
SSMH H1	820373.99	411024.92	77.61	75.49	2.12
SSMH H2	820362.23	411027.39	77.65	76.22	1.43
SSMH I1	820371.66	411061.35	78.14	76.66	1.48
SSMH I2	820388.68	411103.29	80.44	78.80	1.64
SSMH I3	820367.79	411126.97	86.44	85.49	0.95
SSMH J1	820590.61	411073.98	56.42	54.85	1.57
SSMH J2	820580.16	411077.03	57.71	56.05	1.66
SSMH J2-B	820588.54	411110.78	58.00	56.38	1.62
SSMH J3	820584.87	411127.51	59.04	57.39	1.65
SSMH J4	820564.52	411130.15	61.77	60.18	1.59
SSMH J5	820528.28	411126.37	65.89	63.70	2.19
SSMH J6	820491.47	411107.42	71.40	69.60	1.80
SSMH J7	820470.68	411104.07	74.38	72.62	1.76
SSMH J8	820451.42	411109.07	77.17	75.39	1.78





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**LEGEND**

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

**NOTE:**

- All house connections are 100mm dia uPVC.
- All sewer main pipes are 150mm dia uPVC unless shown otherwise.
- All positions and levels are accurate at time of survey.
- Levels are in terms of Wellington Vertical Datum 1953.
- Coordinates are in terms of NZGD2000 - Wellington Circuit.
- All distances shown are horizontal distances, in metres.
- Work completed as at June 2008.
- Position of house connections based on Information supplied by Hgghns Contractors Wellington.

**WARNING:** Levels, locations and dimensions of drainage services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierson Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.



**HARRISON  
GRIERSON**

CONSULTING ENGINEERS SURVEYORS PLANNERS

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

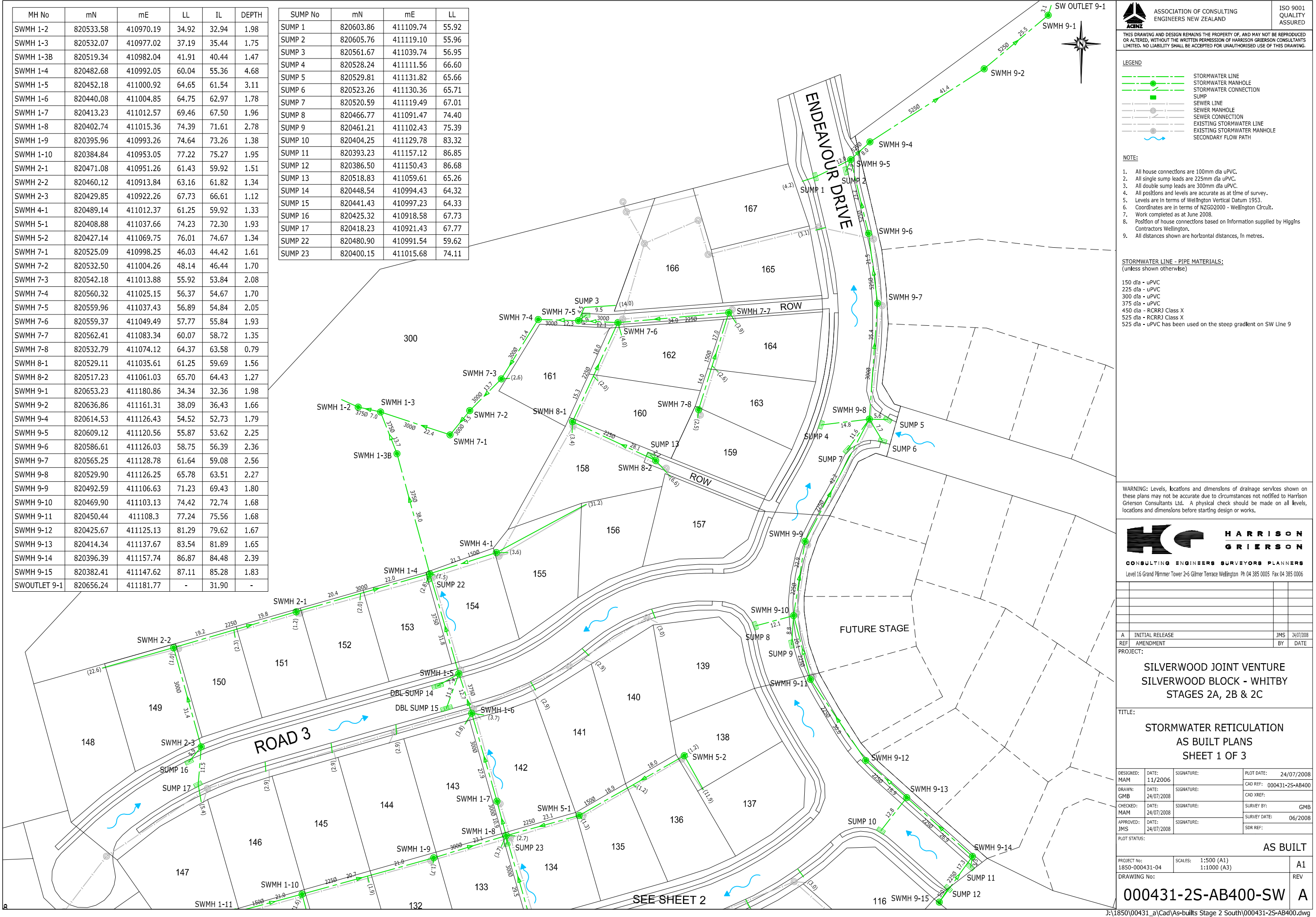
A	INITIAL RELEASE	JMS	24/07/2008
REF	AMENDMENT	BY	DATE
PROJECT:			
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK - WHITBY STAGES 2A, 2B & 2C			
TITLE:			
SANITARY SEWER RETICULATION AS BUILT PLANS SHEET 1 OF 2			
DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
MAM	11/2006		24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:
GMB	24/07/2008		000431-2S-AB400
CHECKED:	DATE:	SIGNATURE:	SURVEY BY:
MAM	24/07/2008		GMB
APPROVED:	DATE:	SIGNATURE:	SURVEY DATE:
JMS	24/07/2008		06/2008
PLOT STATUS:			
AS BUILT			
PROJECT No:	SCALES:	A1	
1850-000431-04	1:500 (A1) 1:1000 (A3)		
DRAWING No:	000431-2S-AB403-SS		REV
			A

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LEGEND



STORMWATER LINE



STORMWATER MANHOLE



STORMWATER CONNECTION



SUMP



SEWER LINE



SEWER MANHOLE



SEWER CONNECTION



EXISTING STORMWATER LINE



EXISTING STORMWATER MANHOLE



SECONDARY FLOW PATH

NOTE:

- All house connections are 100mm dia uPVC.
- All single sump leads are 225mm dia uPVC.
- All double sump leads are 300mm dia uPVC.
- All positions and levels are accurate as at time of survey.
- Levels are in terms of Wellington Vertical Datum 1953.
- Coordinates are in terms of NZGD2000 - Wellington Circuit.
- Work completed as at June 2008.
- Position of house connections based on Information supplied by Higgin Contractors Wellington.
- All distances shown are horizontal distances, in metres.

STORMWATER LINE - PIPE MATERIALS:  
(unless shown otherwise)

150 dia - uPVC  
225 dia - uPVC  
300 dia - uPVC  
375 dia - uPVC  
450 dia - RCRRI Class X  
525 dia - RCRRI Class X  
525 dia - uPVC has been used on the steep gradient on SW Line 9

WARNING: Levels, locations and dimensions of drainage services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierson Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.



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CONSULTING ENGINEERS SURVEYORS PLANNERS

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

MH No	mN	mE	LL	IL	DEPTH
SWMH 3-1	820356.63	410960.41	80.50	79.20	1.30
SWMH 4-1	820489.14	411012.37	61.25	59.92	1.33
SWMH 5-1	820408.88	411037.66	74.23	72.30	1.93
SWMH 5-2	820427.14	411069.75	76.01	74.67	1.34
SWMH 6-1	820374.43	411023.50	77.66	75.46	2.20
SWMH 6-2	820364.65	411034.24	77.54	76.54	1.00
SWMH 6-3	820333.78	411044.40	82.44	81.51	0.93
SWMH 6-4	820319.43	410995.58	84.23	83.23	1.00
SWMH 6-5	820308.05	410965.89	85.02	84.01	1.01
SWMH 9-9	820492.59	411106.63	71.23	69.43	1.80
SWMH 9-10	820469.90	411103.13	74.42	72.74	1.68
SWMH 9-11	820450.44	411108.30	77.24	75.56	1.68
SWMH 9-12	820425.67	411125.13	81.29	79.62	1.67
SWMH 9-13	820414.34	411137.67	83.54	81.89	1.65
SWMH 9-14	820396.39	411157.74	86.87	84.48	2.39
SWMH 9-15	820382.41	411147.62	87.11	85.28	1.83
SWMH 23-1	820378.14	410832.24	59.71	58.31	1.40
SWMH 23-2	820367.15	410844.80	67.02	65.17	1.85
SW INLET 6-3	820331.17	411047.72	-	82.45	-
SW INLET 6-4	820307.73	410992.27	-	85.47	-
SW INLET 6-5	820293.85	410960.90	-	86.10	-
SWMH 1	820241.00	410880.43	91.31	89.87	1.44
SW OUTLET 1	820249.52	410872.09	-	88.30	-

SUMP No	mN	mE	LL
SUMP 8	820466.77	411091.47	74.40
SUMP 9	820461.21	411102.43	75.39
SUMP 10	820404.25	411129.78	83.32
SUMP 11	820393.23	411157.12	86.85
SUMP 12	820386.50	411150.43	86.68
SUMP 13	820518.83	411059.61	65.26
SUMP 14	820448.54	410994.43	64.32
SUMP 15	820441.43	410997.23	64.33
SUMP 16	820425.32	410918.58	67.73
SUMP 17	820418.23	410921.43	67.77
SUMP 18	820351.43	410952.71	80.68
SUMP 19	820344.67	410956.32	80.62
DBL SUMP 20	820374.63	411034.36	77.27
DBL SUMP 21	820367.34	411036.15	77.27
SUMP 22	820480.90	410991.54	59.62
SUMP 23	820400.15	411015.68	74.11

TITLE:

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK - WHITBY  
STAGES 2A, 2B & 2C

STORMWATER RETICULATION  
AS BUILT PLANS  
SHEET 2 OF 3

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
MAM	11/2006		24/07/2008

DRAWN:	DATE:	SIGNATURE:	CAD REF:
GMB	24/07/2008		000431-2S-AB400

CHECKED:	DATE:	SIGNATURE:	SURVEY BY:
MAM	24/07/2008		GMB

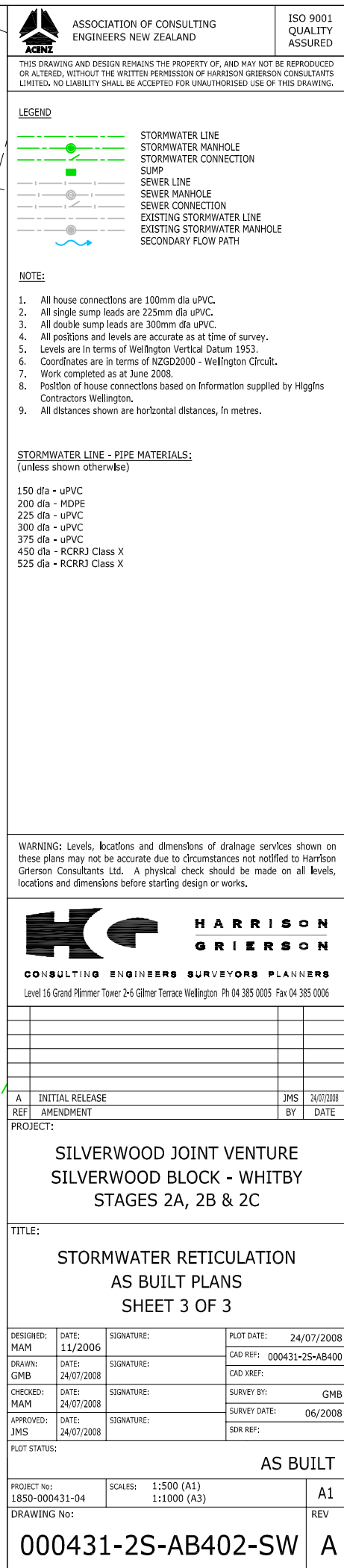
APPROVED:	DATE:	SIGNATURE:	SURVEY DATE:
JMS	24/07/2008		06/2008

PLOT STATUS:	AS BUILT

PROJECT No:	SCALES:	A1
1850-000431-04	1:500 (A1) 1:1000 (A3)	

DRAWING No:	REV
000431-2S-AB401-SW	A



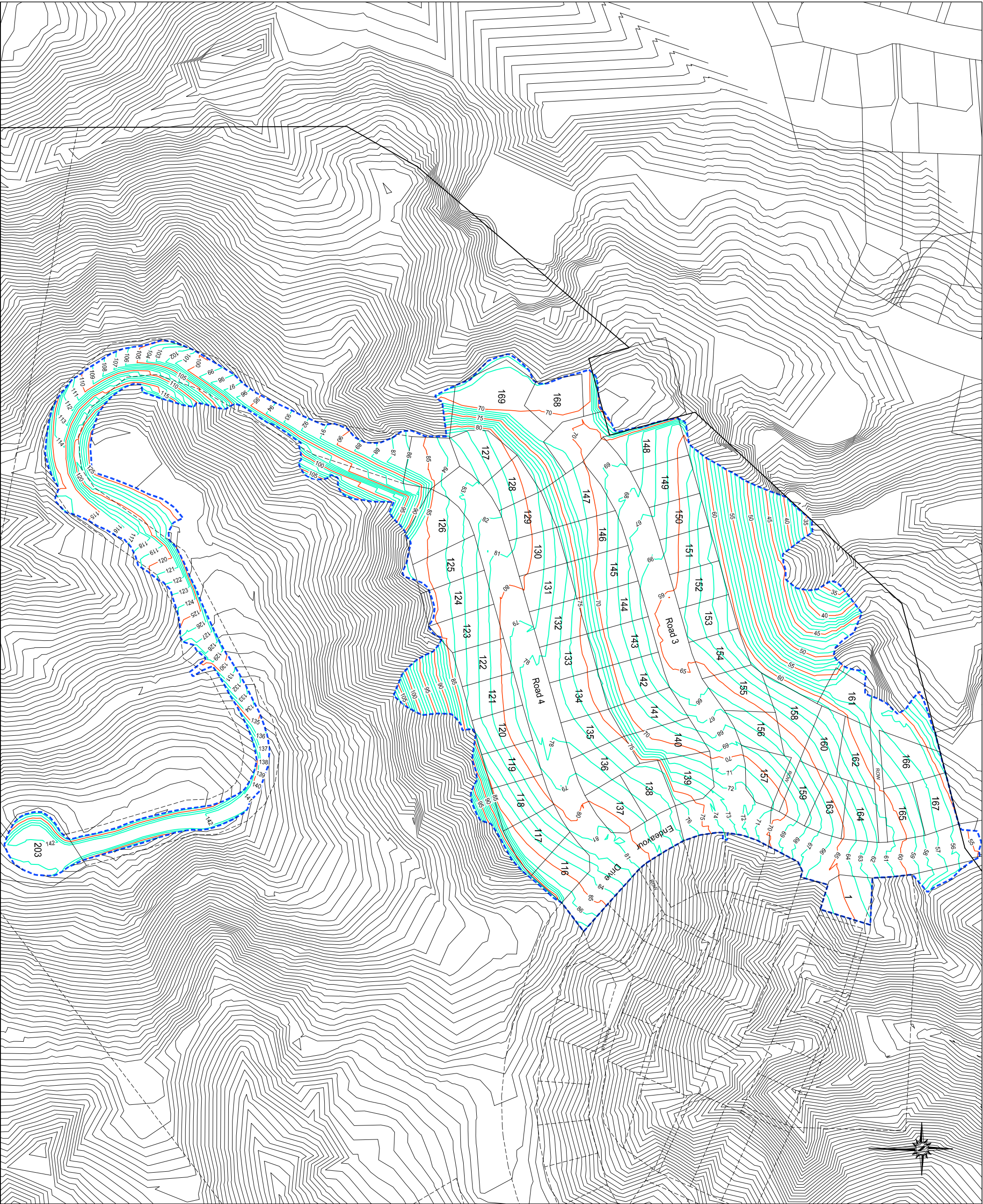





1, Contours are shown at 1m Intervals.

2,  Indicates Earthworks Boundary.

- 1, Contours are shown at 1m Intervals.
- 2,  Indicates Earthworks Boundary.



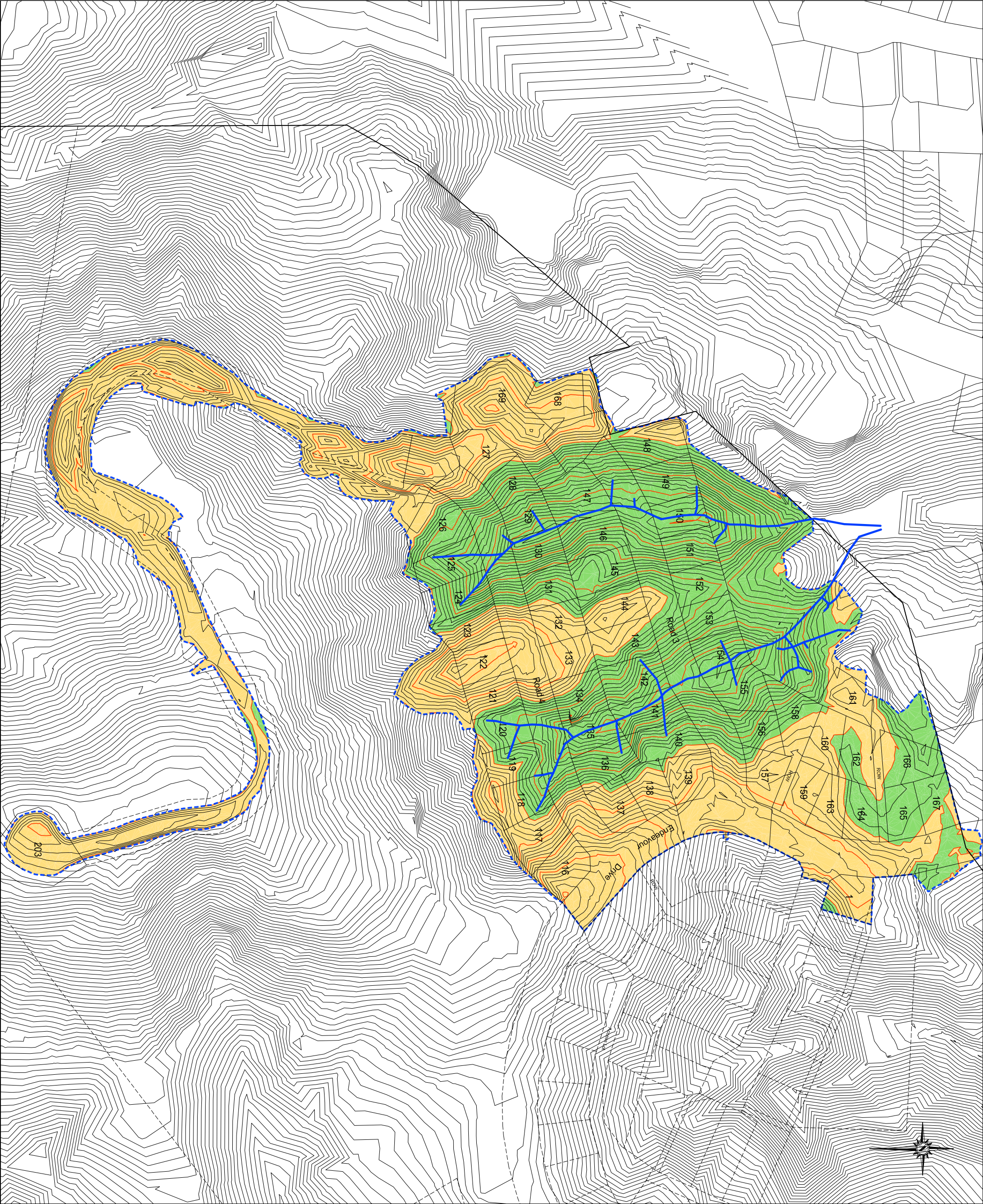
 <b>HARRISON GRIERSON</b> <b>CONSULTING ENGINEERS SURVEYORS PLANNERS</b> Level 15 Grand Primrose Tower 245 Clifton Terrace Wellington Ph 04-385 0005 Fax 04-385 0006									
PROJECT: A INITIAL RELEASE REF. AMENDMENT PROJECT:									
SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK WHITBY									
TITLE:									
STAGE 2 SOUTH ASBUILT SUBGRADE CONTOURS									
DESIGNER:	DATE:	SIGNATURE:	PLOT DATE:		24/07/2008				
DRAWN:	DATE:	SIGNATURE:	CAD REF:						
PMJ	07-2-2008		CAD REF:						
CHECKED:	DATE:	SIGNATURE:	SUNSET BR:						
WJH	23/07/2008		SUNSET DATE:						
APPROVED:	DATE:	SIGNATURE:	SUR REF:						
PMJMW	24/07/2008								
PLOT STATUS:			AS BUILT						
PROJECT NO:	1850-000431-04		SCALES:	1:1:1000 (A1)		A1			
DRAWING NO:	000431-2S-AB200			1:1:2000 (A3)		REV			
					A				




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NOTES:

- Contours are shown at 1m Intervals.
- Indicates Earthworks Boundary.
- Indicates Cut Contours.  
Total Cut = 174,900m<sup>3</sup>
- Indicates Fill Contours,  
Total Fill = 259,100m<sup>3</sup>
- Indicates Subsoil drain

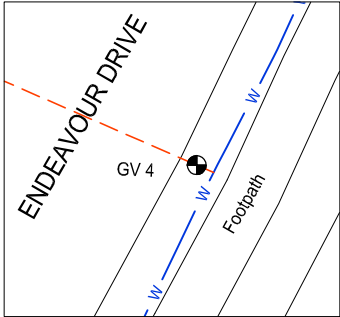


 <b>HARRISON GRIERSON</b> CONSULTING ENGINEERS SURVEYORS PLANNERS Level 16 Grand Prime Tower 246 Silver Terrace Wellington Ph 04 385 0005 Fax 04 385 0006		PROJECT:  SILVERWOOD JOINT VENTURE SILVERWOOD BLOCK WHITBY		TITLE:  STAGE 2 SOUTH SUBSOIL DRAIN LOCATIONS	
DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:	24/07/2008	
DRAWN:	DATE:	SIGNATURE:	CAD REF:		
PMJ	07-2008		CAD REF:		
CHECKED:	DATE:	SIGNATURE:	SURVEY BY:		
MJH	23/07/2008		SURVEY DATE:		
APPROVED:	DATE:	SIGNATURE:	SUR REF:		
PMJMW	24/07/2008		SUR REF:		
PLOT STATUS:					
AS BUILT					
PROJECT NO:	1850-00431-04	SCALE:	1:1000 (A1)		A1
DRAWING NO:	1850-00431-04	SCALE:	1:2000 (A3)		REV
000431-2S-AB210		A		A	

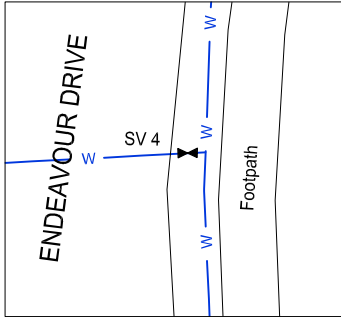


LOT CONNECTION COORDINATE TABLE		
	mN	mE
LOT 116	820397.33	411116.41
LOT 117	820381.50	411093.35
LOT 118	820376.07	411081.24
LOT 132	820367.21	410992.07
LOT 133	820372.76	411011.67
LOT 134	820378.79	411032.15
LOT 135	820384.89	411053.35
LOT 136	820391.48	411075.66
LOT 137	820405.43	411100.14
LOT 138	820439.04	411096.23
LOT 139	820470.24	411073.08
LOT 140	820462.99	411050.02
LOT 141	820450.83	411033.01
LOT 142	820441.90	411014.48
LOT 143	820435.21	410992.08
LOT 144	820429.74	410973.01
LOT 145	820424.27	410953.57
LOT 146	820417.88	410932.58
LOT 147	820410.48	410916.36
LOT 148	820414.94	410893.26
LOT 149	820427.53	410912.46
LOT 150	820435.37	410931.24
LOT 151	820441.05	410950.96
LOT 152	820447.18	410972.07
LOT 153	820451.89	410988.72
LOT 154	820458.72	411011.47
LOT 155	820468.35	411028.86
LOT 156	820482.76	411052.17
LOT 157	820487.02	411072.91
LOT 158	820520.04	411058.34
LOT 159	820513.86	411099.90
LOT 160	820520.14	411059.61
LOT 161	820558.72	411037.78
LOT 162	820559.45	411062.54
LOT 163	820530.70	411107.78
LOT 164	820551.75	411112.52
LOT 165	820578.96	411111.14
LOT 166	820563.33	411061.95
LOT 167	820590.44	411108.54
LOT 168	820386.96	410876.05
LOT 169	820378.79	410884.98

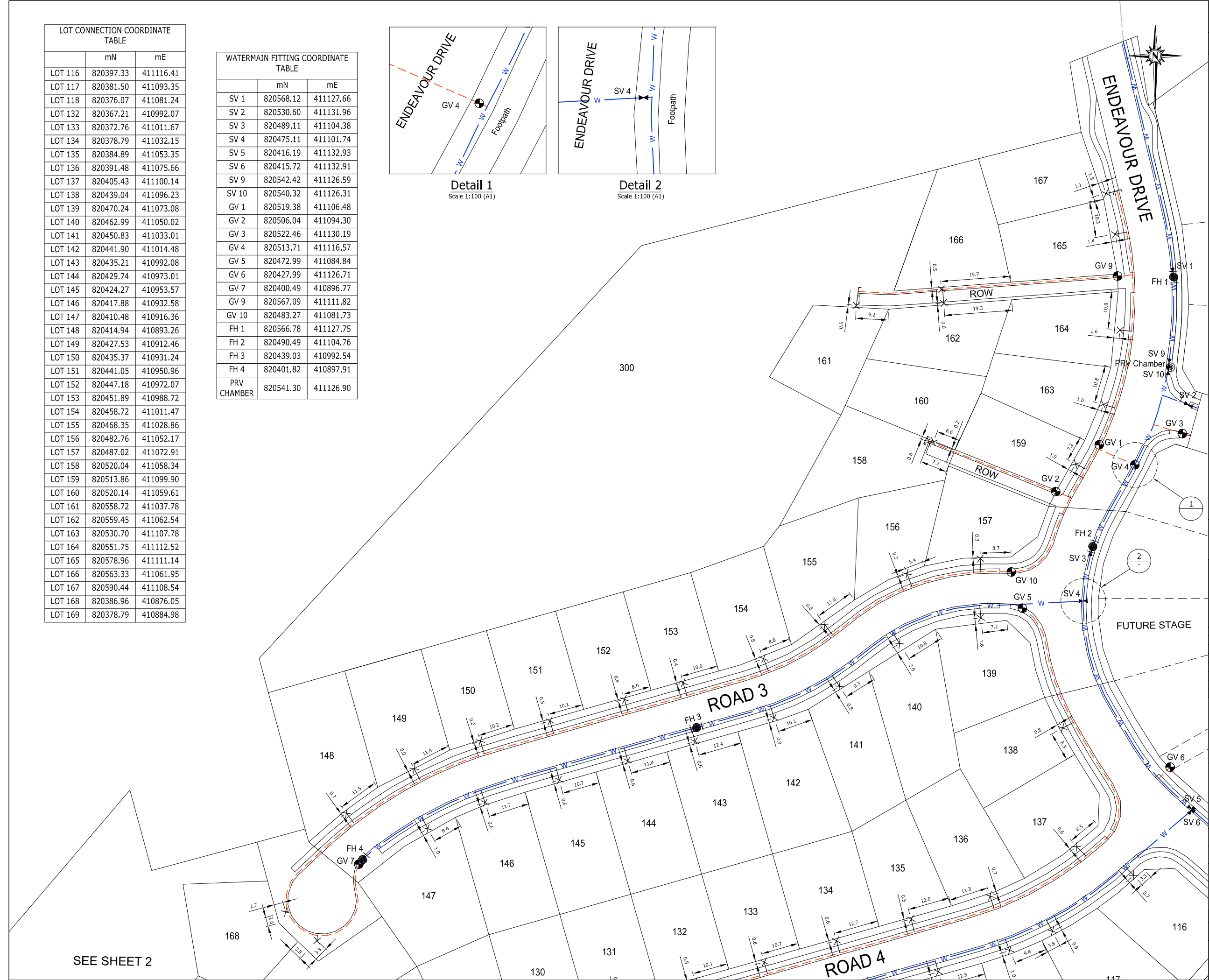
WATERMAIN FITTING COORDINATE TABLE		
	mN	mE
SV 1	820568.12	411127.66
SV 2	820530.60	411131.96
SV 3	820489.11	411104.38
SV 4	820475.11	411101.74
SV 5	820416.19	411132.93
SV 6	820415.72	411132.91
SV 9	820542.42	411126.59
SV 10	820540.32	411126.31
GV 1	820519.38	411106.48
GV 2	820506.04	411094.30
GV 3	820522.46	411130.19
GV 4	820513.71	411116.57
GV 5	820472.99	411084.84
GV 6	820427.99	411126.71
GV 7	820400.49	410896.77
GV 9	820567.09	411111.82
GV 10	820483.27	411081.73
FH 1	820566.78	411127.75
FH 2	820490.49	411104.76
FH 3	820439.03	410992.54
FH 4	820401.82	410897.91
PRV CHAMBER	820541.30	411126.90



Detail 1  
Scale 1:100 (A1)



Detail 2  
Scale 1:100 (A1)





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LEGEND:

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

NOTE:

- All dimensions are shown in metres unless otherwise stated.
- All valves and hydrants installed by June 2008.
- All pipe diameters are nominal bore.

WARNING: Levels, locations and dimensions of water services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierson Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.



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CONSULTING ENGINEERS SURVEYORS PLANNERS

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

A	INITIAL RELEASE	JMS	24/07/2008
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK - WHITBY  
STAGES 2A, 2B & 2C

TITLE:

WATER RETICULATION  
AS BUILT PLANS  
SHEET 1 OF 4

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
SGF	04/2006		24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:
GMB	24/07/2008		000431-2S-AB500
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
MAM	24/07/2008		
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
JMS	24/07/2008		GMB
			SURVEY DATE:
			06/2008
			SDR REF:

PLOT STATUS:

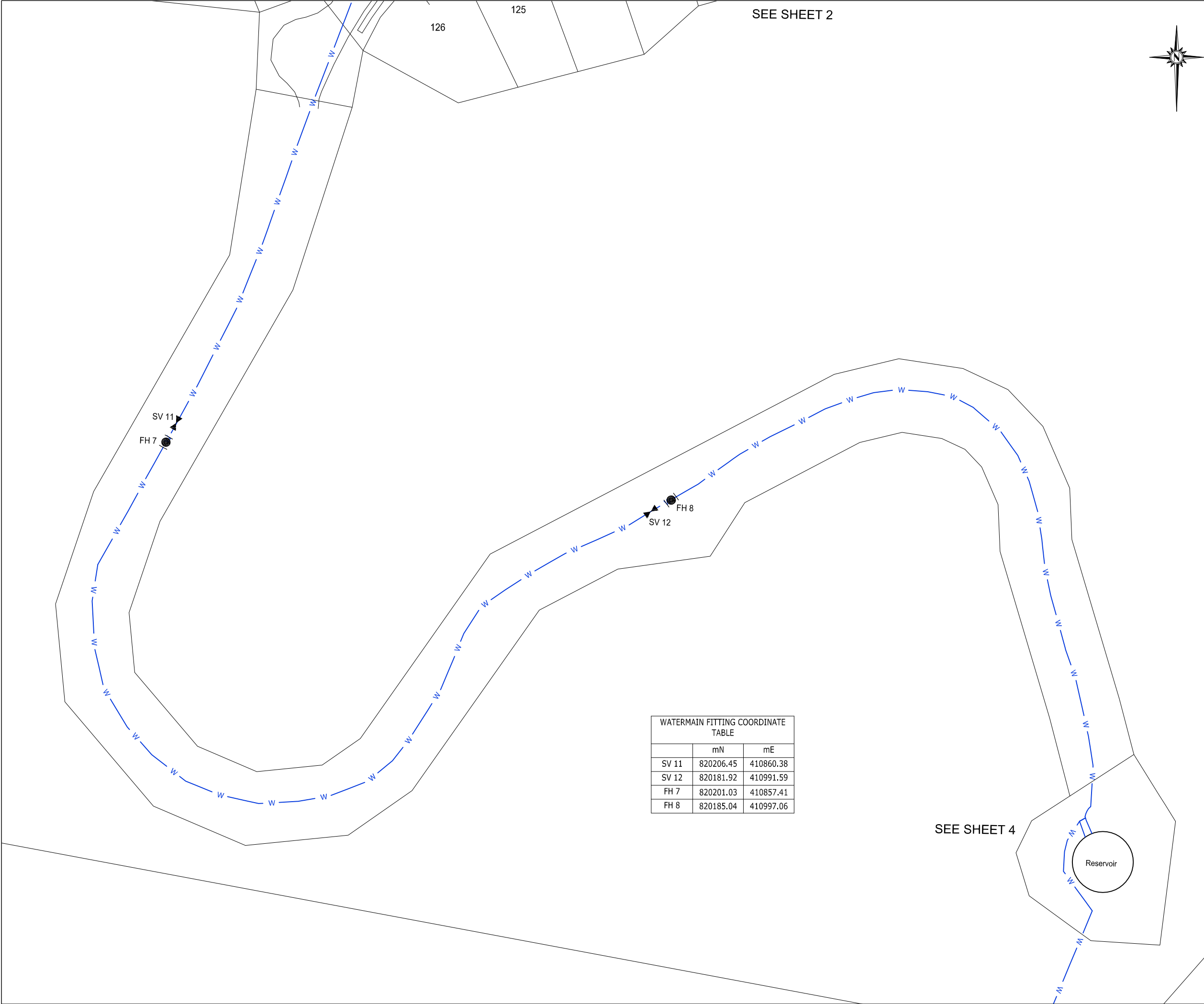
AS BUILT

PROJECT No:	SCALES:	A1
1850-000431-04	1:500 (A1) 1:1000 (A3)	
DRAWING No:		REV
000431-2S-AB500		A










WATERMAIN FITTING COORDINATE TABLE		
	mN	mE
SV 11	820206.45	410860.38
SV 12	820181.92	410991.59
FH 7	820201.03	410857.41
FH 8	820185.04	410997.06





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LEGEND:

 FIRE HYDRANT

 SLUICE VALVE

 150mm I.D PN12 uPVC BLUE BRUTE WATERMAIN


NOTE:

1. All dimensions are shown in metres unless otherwise stated.

2. All valves and hydrants installed by June 2008.

3. All pipe diameters are nominal bore.

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A	INITIAL RELEASE	JMS	24/07/2008
REF	AMENDMENT	BY	DATE

PROJECT:

SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK - WHITBY  
STAGES 2A, 2B & 2C

TITLE:

WATER RETICULATION  
AS BUILT PLANS  
SHEET 3 OF 4

DESIGNED:	DATE:	SIGNATURE:	PLOT DATE:
SGF	04/2006		24/07/2008
DRAWN:	DATE:	SIGNATURE:	CAD REF:
GMB	24/07/2008		000431-2S-AB500
CHECKED:	DATE:	SIGNATURE:	CAD XREF:
MAM	24/07/2008		
APPROVED:	DATE:	SIGNATURE:	SURVEY BY:
JMS	24/07/2008		GMB
			SURVEY DATE:
			06/2008
			SDR REF:

PLOT STATUS:

AS BUILT

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

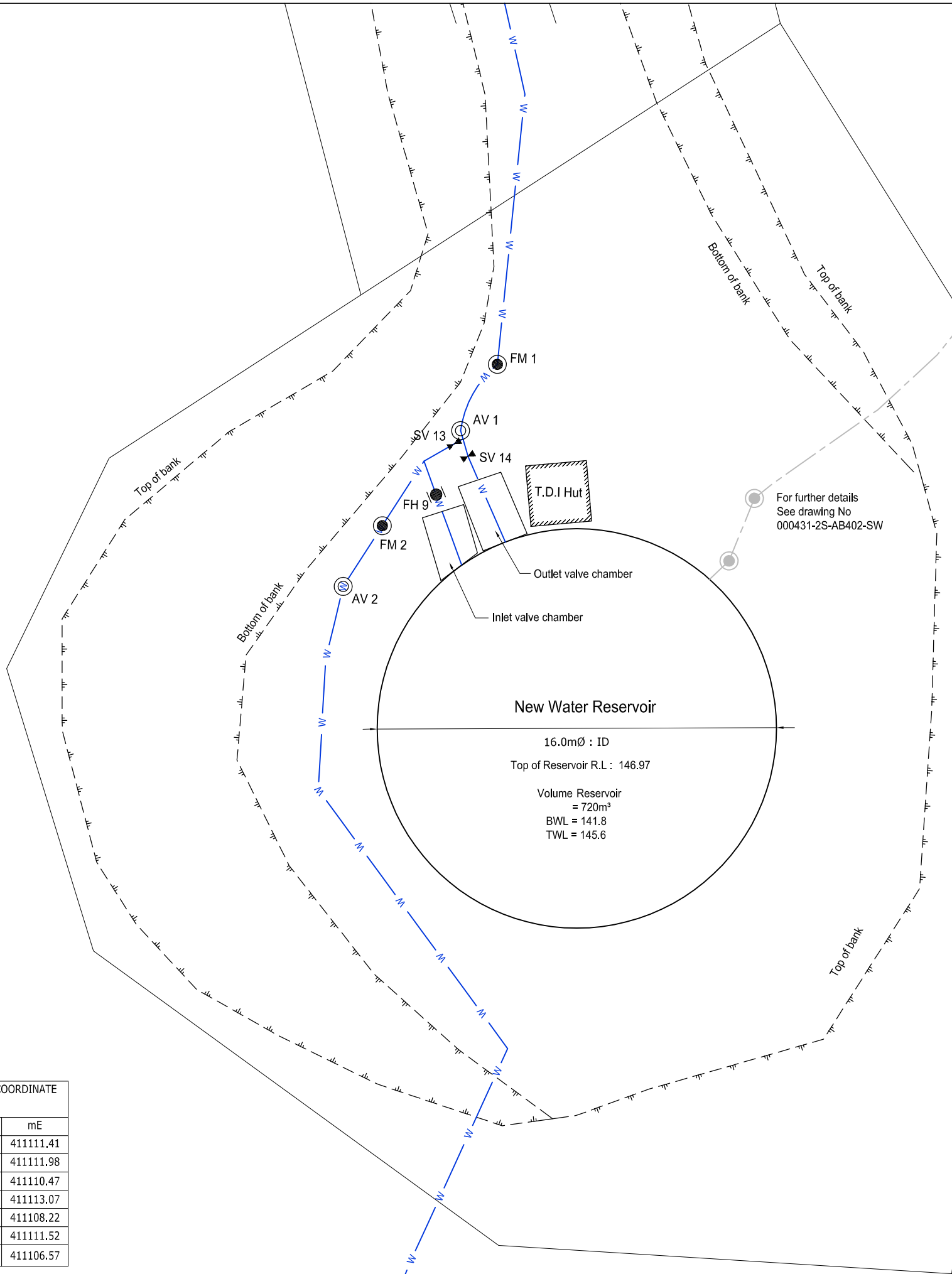
000431-2S-AB502

A

J:\1850\00431\_a\Cad\As-builts Stage 2 South\000431-2S-AB500.dwg



WATERMAIN FITTING COORDINATE TABLE		
	mN	mE
SV 13	820096.97	411111.41
SV 14	820096.44	411111.98
FH 9	820094.88	411110.47
FM 1	820100.32	411113.07
FM 2	820093.52	411108.22
AV 1	820097.53	411111.52
AV 2	820090.96	411106.57



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LEGEND:

- FIRE HYDRANT
- SLUICE VALVE
- FLOW METER
- AIR VALVE
- 150mm I.D PN12 uPVC BLUE
- BRUTE WATERMAIN

NOTE:

- All dimensions are shown in metres unless otherwise stated.
- All valves and hydrants installed by June 2008.
- All pipe diameters are nominal bore.

WARNING: Levels, locations and dimensions of water services shown on these plans may not be accurate due to circumstances not notified to Harrison Grierson Consultants Ltd. A physical check should be made on all levels, locations and dimensions before starting design or works.

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A	INITIAL RELEASE	JMS	24/07/2008
REF	AMENDMENT	BY	DATE

PROJECT:

**SILVERWOOD JOINT VENTURE  
SILVERWOOD BLOCK - WHITBY  
STAGES 2A, 2B & 2C**

TITLE:

**WATER RETICULATION  
AS BUILT PLANS  
SHEET 4 OF 4**

DESIGNED: SGF	DATE: 04/2006	SIGNATURE:	PLOT DATE: 24/07/2008
DRAWN: GMB	DATE: 24/07/2008	SIGNATURE:	CAD REF: 000431-2S-AB500
CHECKED: MAM/JMS	DATE: 24/07/2008	SIGNATURE:	CAD XREF:
APPROVED: JMS	DATE: 24/07/2008	SIGNATURE:	SURVEY BY: GMB
			SURVEY DATE: 06/2008
			SDR REF:

PLOT STATUS:			AS BUILT
PROJECT No: 1850-000431-04	SCALES: 1:100 (A1) 1:200 (A3)	A1	
DRAWING No:	000431-2S-AB503		REV A