

I certify that these As-Built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: 01.10.13

Name: *[Signature]*

NOTES

1. CONTOURS ARE 1.0m INTERVALS

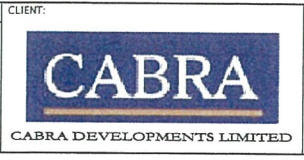
LEGEND

— FINAL CONTOURS

- - - STAGE BOUNDARIES



REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	



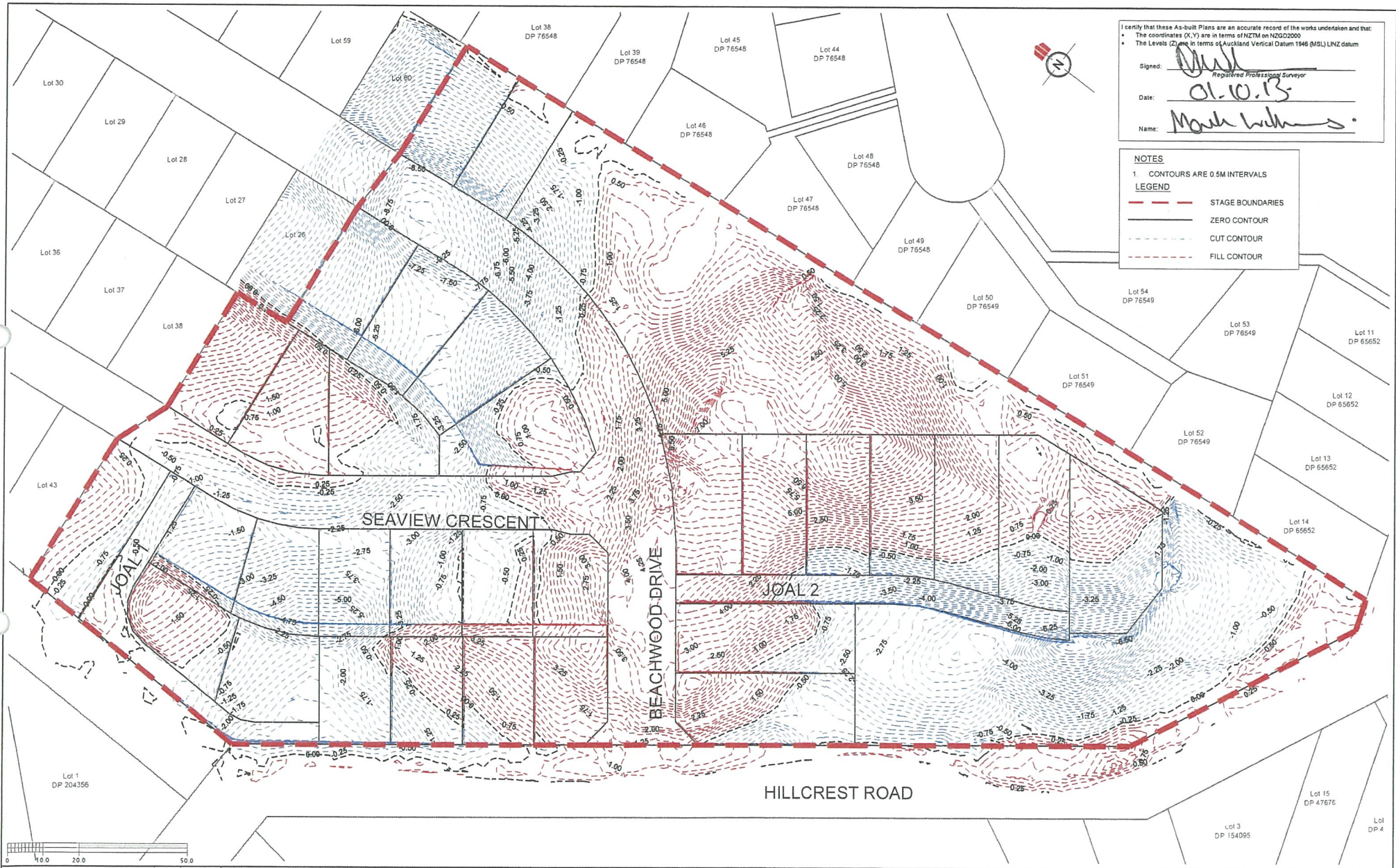
BEACHWOOD SUBDIVISION - STAGE 2BD

ASBUILT FINAL CONTOUR PLAN

AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:1000 @ A3
ISSUED: SEP 2013	
DWG NO: 60354-2BD-100-AB	REV: A



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Mark Williams
Registered Professional Surveyor

Date: 01.10.13

Name: Mark Williams

NOTES

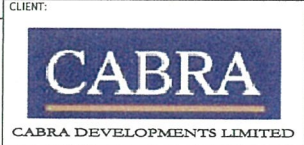
1. CONTOURS ARE 0.5M INTERVALS

LEGEND

- STAGE BOUNDARIES
- ZERO CONTOUR
- - - CUT CONTOUR
- · · FILL CONTOUR



REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	CABRA



BEACHWOOD SUBDIVISION - STAGE 2BD
ASBUILT CUT AND FILL DEPTH CONTOUR PLAN

AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: <u>CD</u>	DRAWN: CD
APPROVED: <u>CD</u>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:1000 @ A3
ISSUED: SEP 2013	
DWG. NO: 60354-2BD-120-AB	REV: A

SHEET 133



NOTES

1 PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3d AND DRAINLAYERS ASBULTS.

WALL NOTES

TYPE A WALL

 18' FRONT SLOPE
 22' BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES

TYPE B WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22' BACK SLOPE

TYPE C WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

1.4 RETAINED HEIGHT (FROM FGL.)

RETAINING WALL RESTRICTION ZONE

PALLISADE WALL NUMBER ONE AS PER BUILDING CONSENT ABA 1014148

PALLISADE WALL NUMBER TWO AS PER BUILDING CONSENT ABA 1014148

SHEET 134

SHEET 132

RESTRICTION ZONE NOTE:

NO EARTHWORKS OR STRUCTURES TO BE CONSTRUCTED IN THE RETAINING WALL RESTRICTION ZONES, UNLESS SPECIFICALLY DESIGNED BY A SUITABLY QUALIFIED ENGINEER.

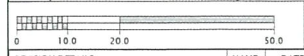
EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY

NOTES

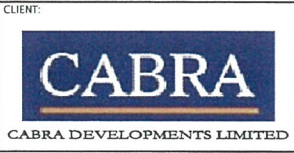
1. DIMENSIONS ARE TAKEN FROM THE BOUNDARY.

2. THIS PLAN PREPARED BY WOODS ON BEHALF OF COFFEY GEOTECHNICS AS PER THEIR SPECIFIC GEOTECHNICAL RECOMMENDATIONS.

3. THIS PLAN TO BE READ IN CONJUNCTION WITH THE COFFEY GEOTECHNICS GEOTECHNICAL COMPLETION REPORT.



REVISION DETAILS	NAME	DATE	CLIENT:
A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	CABRA DEVELOPMENTS LIMITED
B. PALLISADE WALLS EXTENDED & CHAINAGES ADDED	CD	22/10/2013	



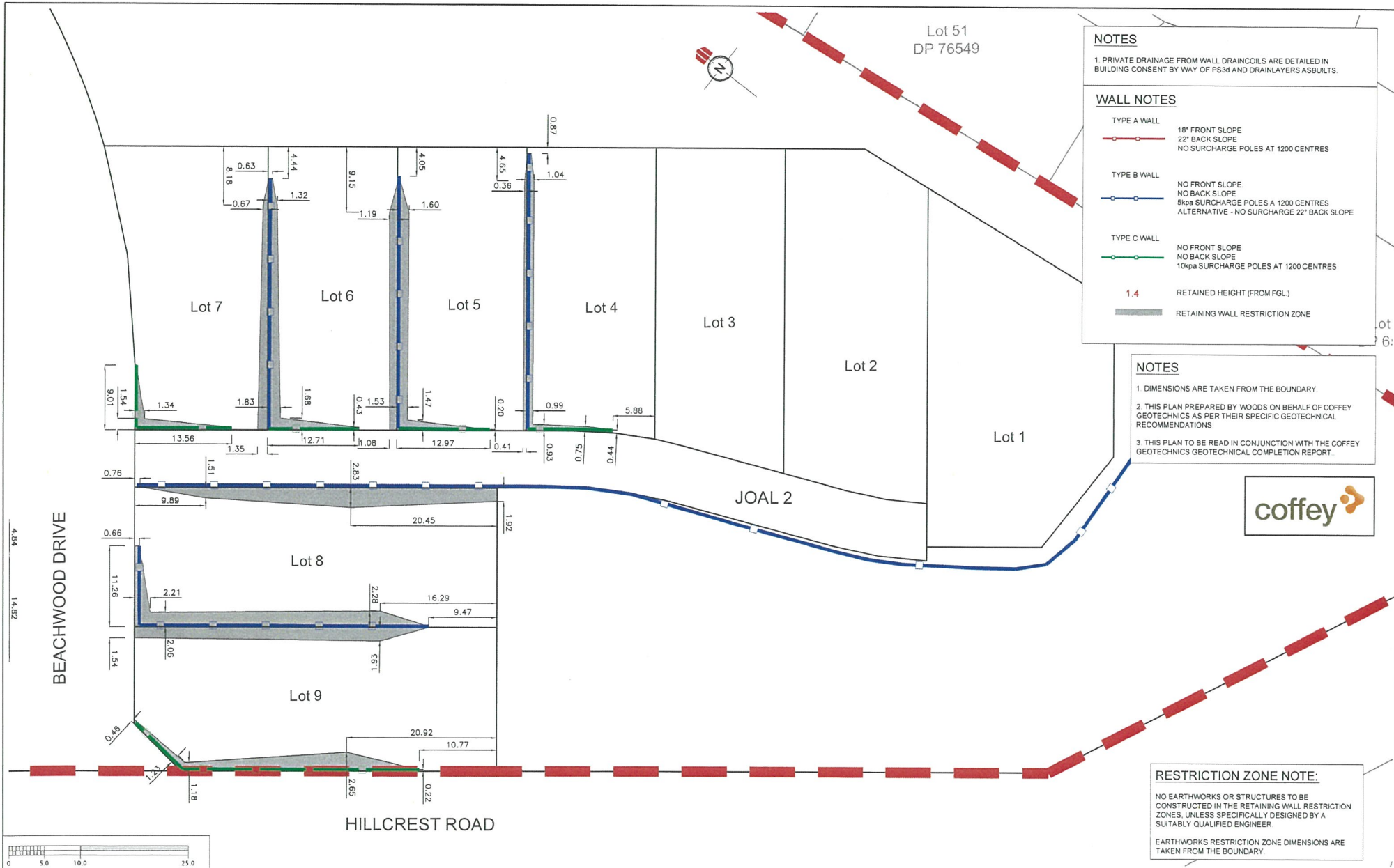
BEACHWOOD SUBDIVISION - STAGE 2BD

OVERALL ASBULT RETAINING WALL RESTRICTION ZONE PLAN

AUCKLAND COUNCIL



DESIGNED:	MW	FOR GCR
CHECKED:		DRAWN: CD
APPROVED:		SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:1000 @ A3
ISSUED:	OCT 2013	
DWG. NO.	60354-2BD-131-AB	REV. B



NOTES
 1. PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3d AND DRAINLAYERS ASBUILTS

WALL NOTES

TYPE A WALL
 18° FRONT SLOPE
 22° BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES

TYPE B WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE

TYPE C WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

1.4 RETAINED HEIGHT (FROM FGL)
 RETAINING WALL RESTRICTION ZONE

NOTES

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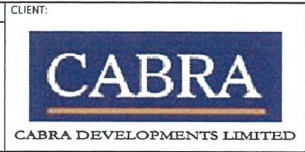
RESTRICTION ZONE NOTE:

NO EARTHWORKS OR STRUCTURES TO BE CONSTRUCTED IN THE RETAINING WALL RESTRICTION ZONES, UNLESS SPECIFICALLY DESIGNED BY A SUITABLY QUALIFIED ENGINEER.

EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY.



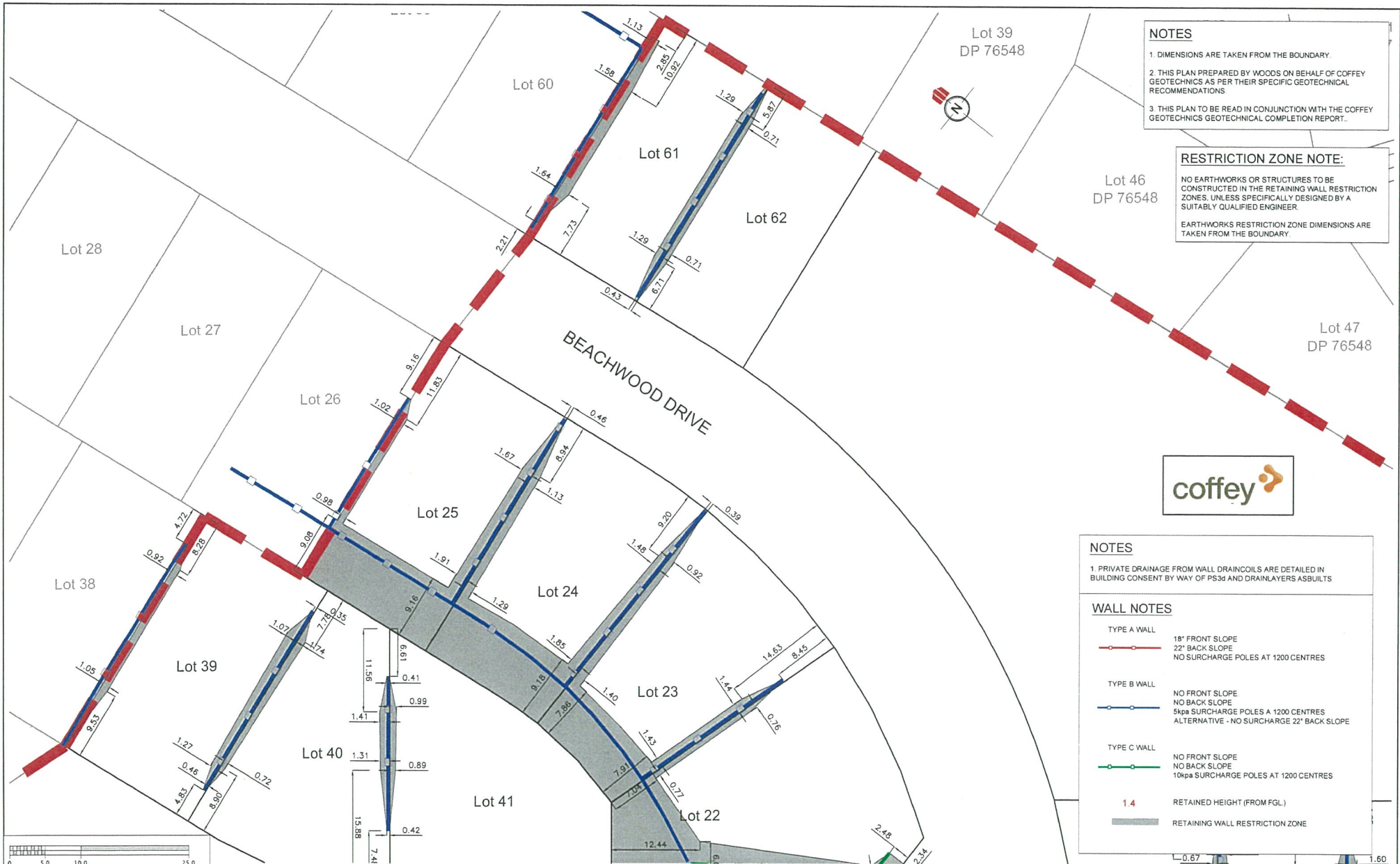
REVISION DETAILS	NAME	DATE	CLIENT:
A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	CABRA



BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT RETAINING WALL RESTRICTION ZONE PLAN
 DETAIL SHEET 1
 AUCKLAND COUNCIL



DESIGNED:	MW	FOR GCR:
CHECKED:	[Signature]	DRAWN: CD
APPROVED:	[Signature]	SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:500 @ A3
ISSUED:	OCT 2013	
DWG. NO:	60354-2BD-132-AB	REV: A



NOTES

- 1 DIMENSIONS ARE TAKEN FROM THE BOUNDARY.
- 2 THIS PLAN PREPARED BY WOODS ON BEHALF OF COFFEY GEOTECHNICS AS PER THEIR SPECIFIC GEOTECHNICAL RECOMMENDATIONS
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RESTRICTION ZONE NOTE:

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EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY.



NOTES

- 1 PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS34 AND DRAINLAYERS ASBULTS

WALL NOTES

TYPE A WALL

 18° FRONT SLOPE
 22° BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES

TYPE B WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE

TYPE C WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

1.4 RETAINED HEIGHT (FROM FGL)

RETAINING WALL RESTRICTION ZONE



REVISION DETAILS	NAME	DATE	CLIENT:
A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	

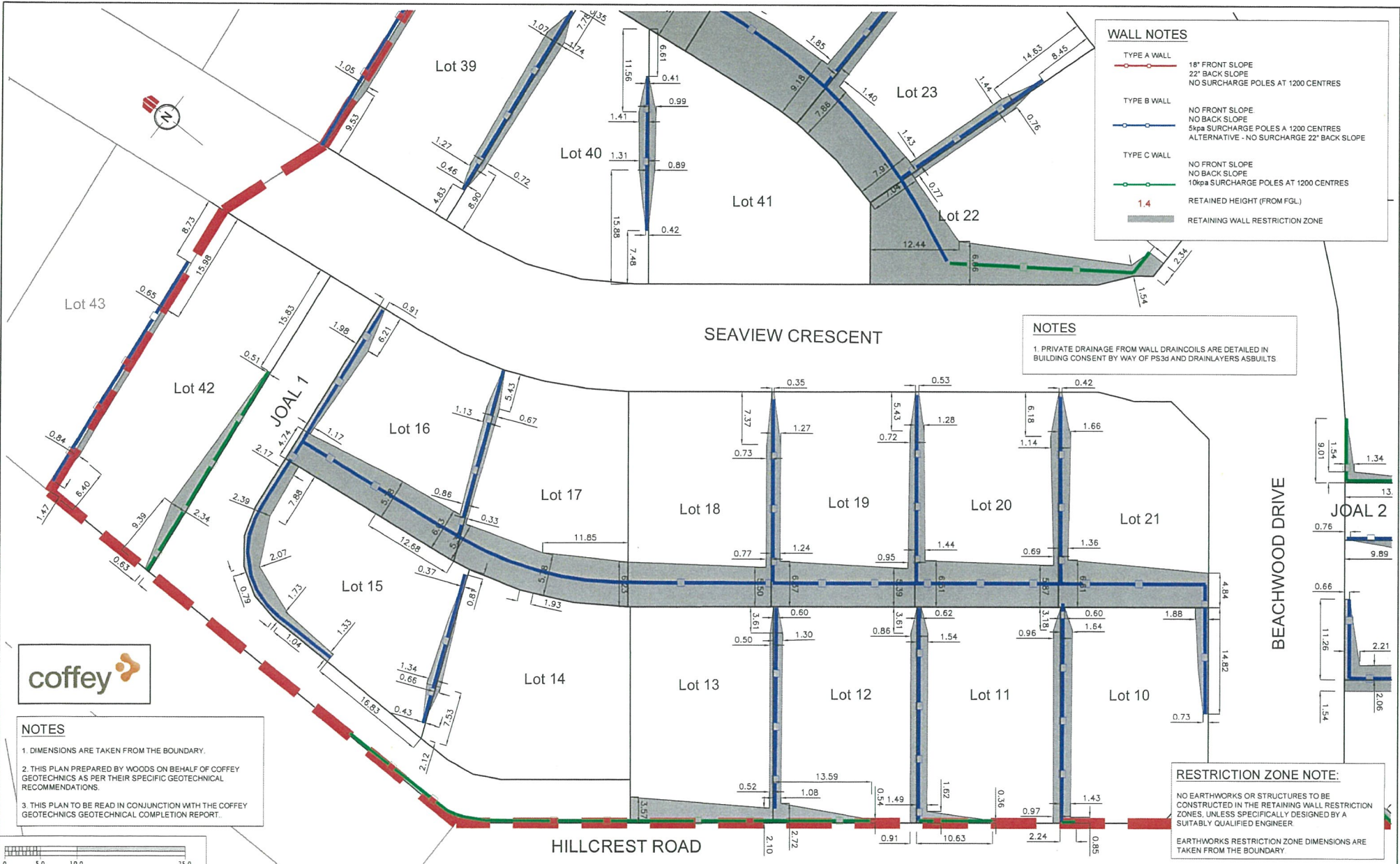


BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBULT RETAINING WALL RESTRICTION ZONE PLAN
 DETAIL SHEET 2

AUCKLAND COUNCIL



DESIGNED: MW	FOR GCR
CHECKED:	DRAWN: CD
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: OCT 2013	
DWG NO: 60354-2BD-133-AB	REV: A



WALL NOTES

- TYPE A WALL: 18° FRONT SLOPE, 22° BACK SLOPE, NO SURCHARGE POLES AT 1200 CENTRES
- TYPE B WALL: NO FRONT SLOPE, NO BACK SLOPE, 5kpa SURCHARGE POLES AT 1200 CENTRES, ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE
- TYPE C WALL: NO FRONT SLOPE, NO BACK SLOPE, 10kpa SURCHARGE POLES AT 1200 CENTRES
- 1.4: RETAINED HEIGHT (FROM FGL)
- RETAINING WALL RESTRICTION ZONE

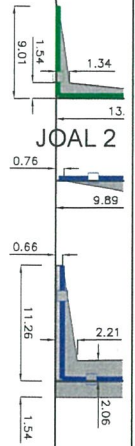
NOTES

1. PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3d AND DRAINLAYERS ASBUILTS



NOTES

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RESTRICTION ZONE NOTE:

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EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY



REVISION DETAILS	NAME	DATE	CLIENT:
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BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT RETAINING WALL RESTRICTION ZONE PLAN
 DETAIL SHEET 3
 AUCKLAND COUNCIL



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APPROVED: [Signature]	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: OCT 2013	
DWG NO: 60354-2BD-134-AB	REV: A

SHEET 142



NOTES

1. PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3d AND DRAINLAYERS ASBUILTS.

WALL NOTES

- TYPE A WALL**

 18° FRONT SLOPE
 22° BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES
- TYPE B WALL**

 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE
- TYPE C WALL**

 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

LEGEND

- TOP OF BATTER
- SPECIFIC DESIGN ZONE
- LEADING EDGE PILE ZONE

PALLISADE WALL NUMBER ONE AS PER BUILDING CONSENT ABA 1014148

PALLISADE WALL NUMBER TWO AS PER BUILDING CONSENT ABA 1014148

SHEET 141

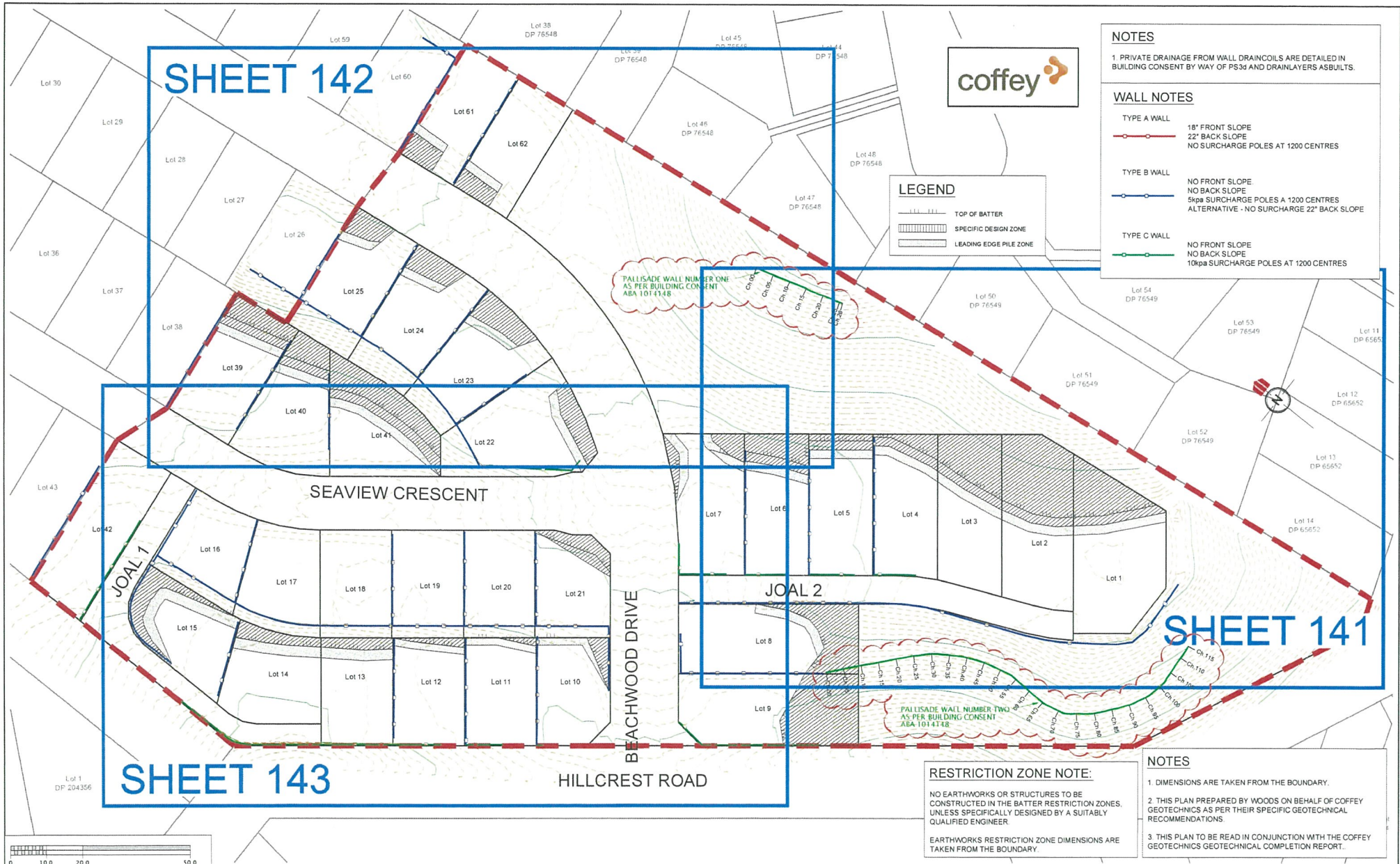
NOTES

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RESTRICTION ZONE NOTE:

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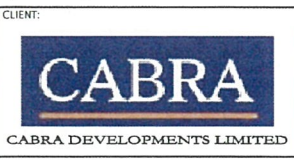
EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY.



SHEET 143



REVISION DETAILS	NAME	DATE	CLIENT:
A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	CABRA DEVELOPMENTS LIMITED
B. PALLISADE WALLS EXTENDED & CHAINAGES ADDED.	CD	22/10/2013	



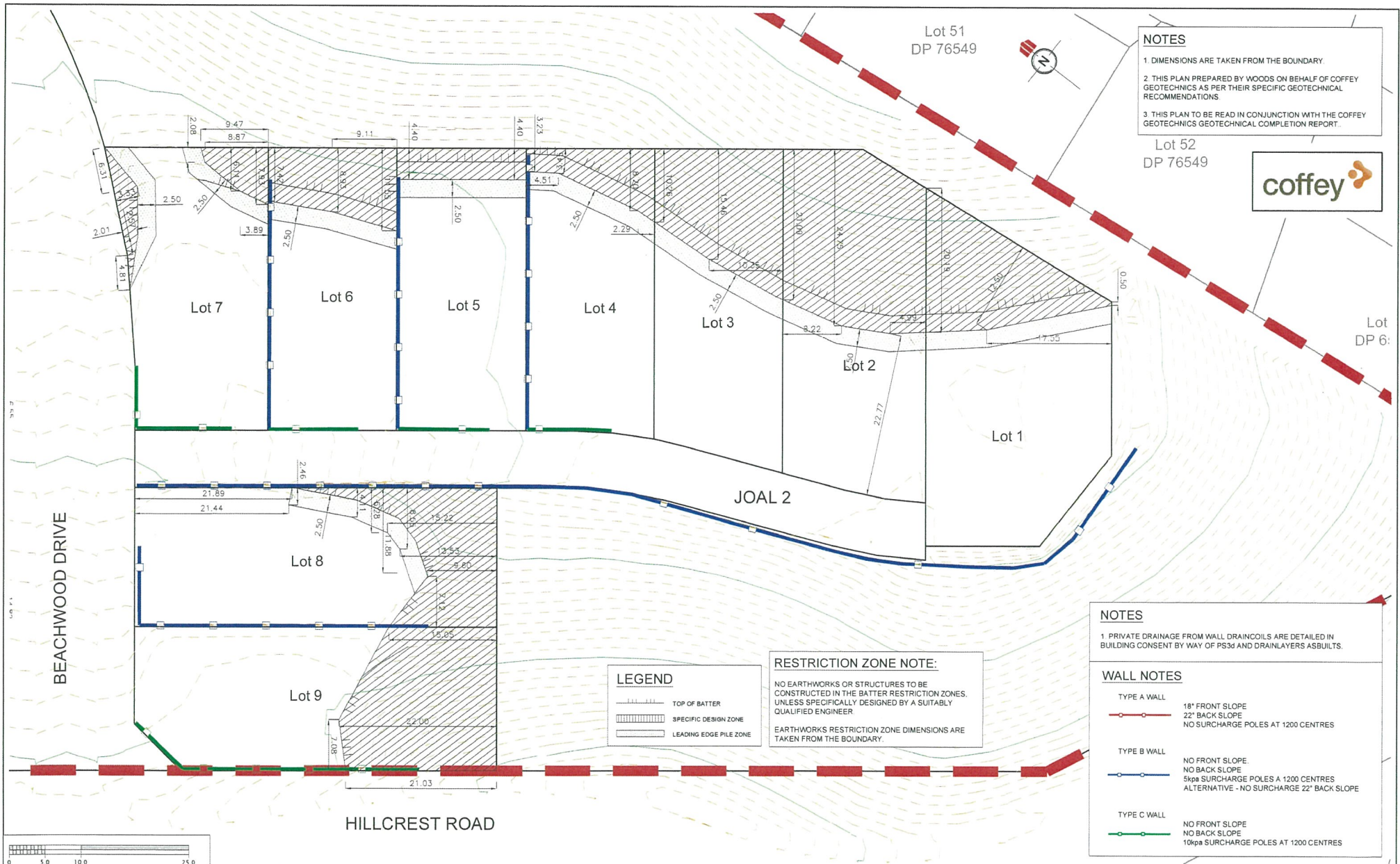
BEACHWOOD SUBDIVISION - STAGE 2BD

OVERALL ASBUILT BATTER RESTRICTION ZONE PLAN

AUCKLAND COUNCIL



DESIGNED:	MW	FOR GCR
CHECKED:		DRAWN: CD
APPROVED:		SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:1000 @ A3
ISSUED:	OCT 2013	
DWG. NO.	60354-2BD-140-AB	REV. B



NOTES

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3. THIS PLAN TO BE READ IN CONJUNCTION WITH THE COFFEY GEOTECHNICS GEOTECHNICAL COMPLETION REPORT.



NOTES

1. PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3d AND DRAINLAYERS ASBUILTS.

WALL NOTES

TYPE A WALL

 18" FRONT SLOPE
 22" BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES

TYPE B WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22" BACK SLOPE

TYPE C WALL

 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

LEGEND

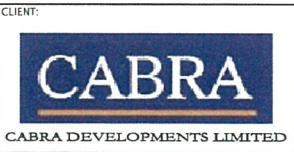
- TOP OF BATTER
- SPECIFIC DESIGN ZONE
- LEADING EDGE PILE ZONE

RESTRICTION ZONE NOTE:

NO EARTHWORKS OR STRUCTURES TO BE CONSTRUCTED IN THE BATTER RESTRICTION ZONES, UNLESS SPECIFICALLY DESIGNED BY A SUITABLY QUALIFIED ENGINEER.

EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY.

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A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	

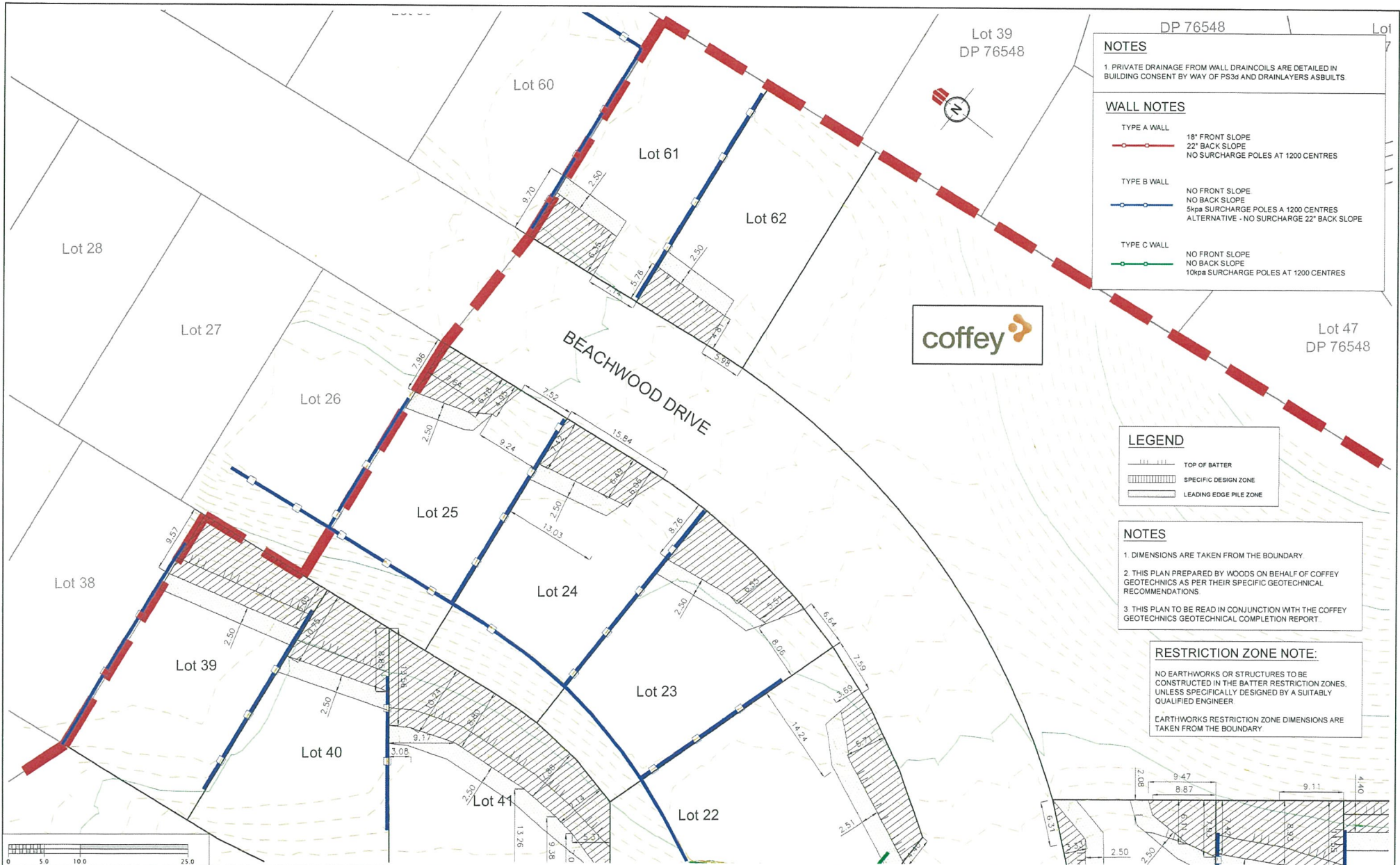


BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT BATTER RESTRICTION ZONE PLAN
 DETAIL SHEET 1

AUCKLAND COUNCIL



DESIGNED: MW	FOR GCR
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APPROVED: [Signature]	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: OCT 2013	
DWG NO: 60354-2BD-141-AB	REV: A



DP 76548

NOTES

1 PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS3s AND DRAINLAYERS ASBUILTS

WALL NOTES

TYPE A WALL
 18° FRONT SLOPE
 22° BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES

TYPE B WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES A 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE

TYPE C WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES



LEGEND

TOP OF BATTER

SPECIFIC DESIGN ZONE

LEADING EDGE PILE ZONE

NOTES

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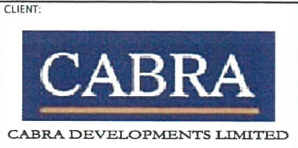
RESTRICTION ZONE NOTE:

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EARTHWORKS RESTRICTION ZONE DIMENSIONS ARE TAKEN FROM THE BOUNDARY



REVISION DETAILS	NAME	DATE	CLIENT:
A GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	



BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT BATTER RESTRICTION ZONE PLAN
 DETAIL SHEET 2

AUCKLAND COUNCIL






DESIGNED:	MW	FOR GCR
CHECKED:	[Signature]	DRAWN: CD
APPROVED:	[Signature]	SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:500 @ A3
ISSUED:	OCT 2013	
DWC NO:	60354-2BD-142-AB	REV: A

NOTES

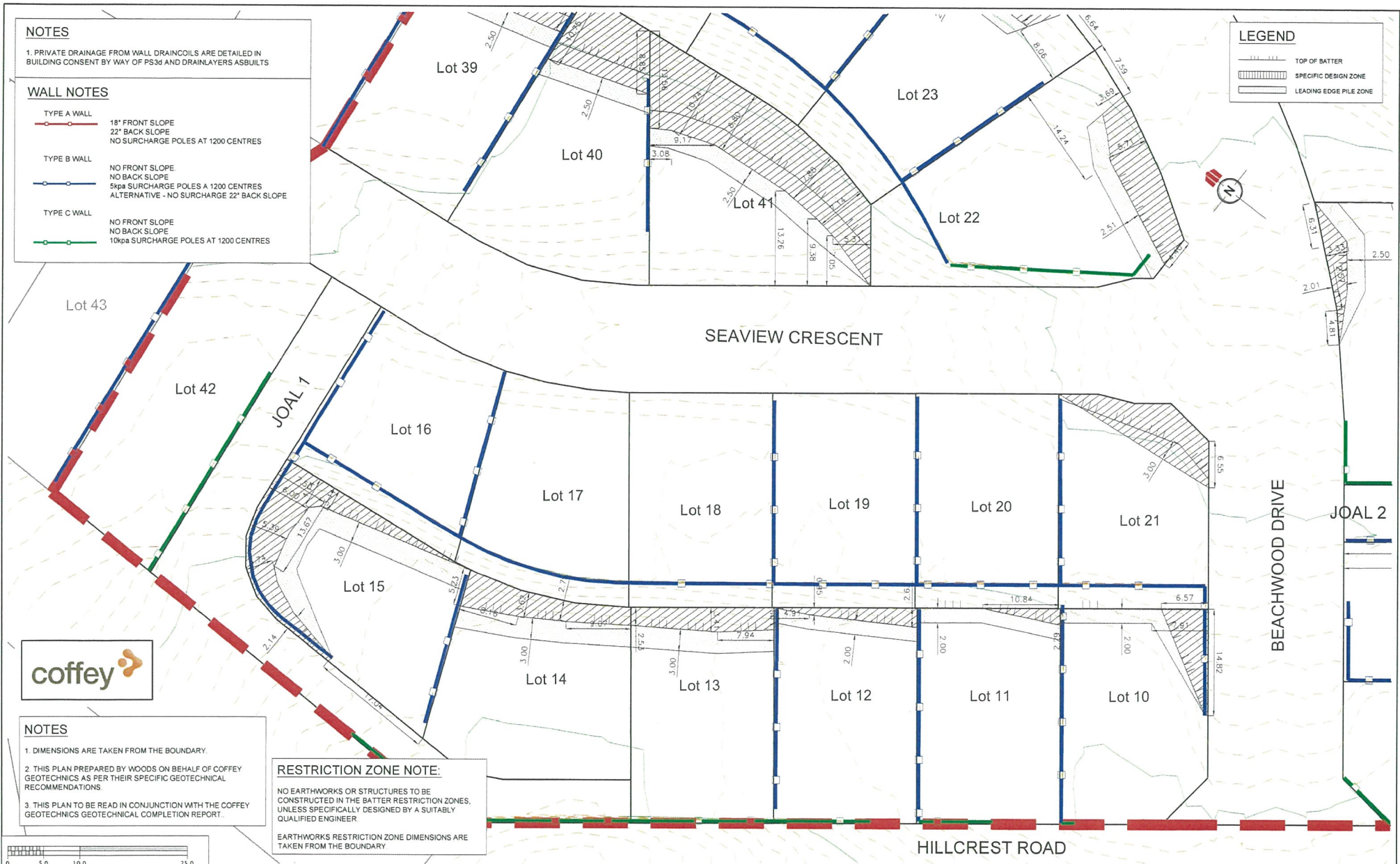
1. PRIVATE DRAINAGE FROM WALL DRAINCOILS ARE DETAILED IN BUILDING CONSENT BY WAY OF PS36 AND DRAINLAYERS ASBUILTS

WALL NOTES

- TYPE A WALL
 18° FRONT SLOPE
 22° BACK SLOPE
 NO SURCHARGE POLES AT 1200 CENTRES
- TYPE B WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 5kpa SURCHARGE POLES AT 1200 CENTRES
 ALTERNATIVE - NO SURCHARGE 22° BACK SLOPE
- TYPE C WALL
 NO FRONT SLOPE
 NO BACK SLOPE
 10kpa SURCHARGE POLES AT 1200 CENTRES

LEGEND

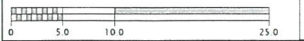
-  TOP OF BATTER
-  SPECIFIC DESIGN ZONE
-  LEADING EDGE PILE ZONE



NOTES

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


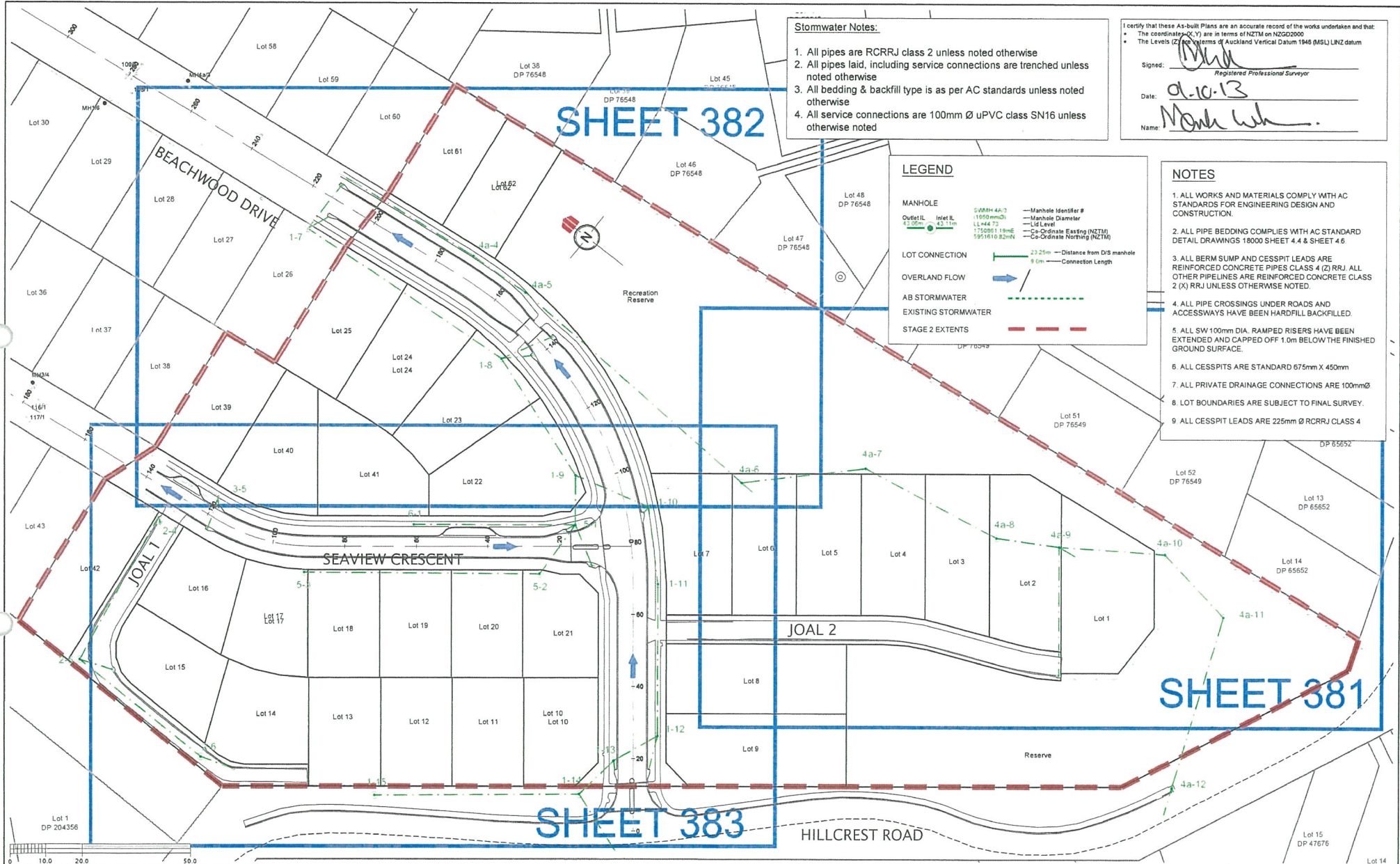
REVISION DETAILS	NAME	DATE	CLIENT:
A. GEOTECHNICAL COMPLETION REPORT	CD	OCT 2013	



BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT BATTER RESTRICTION ZONE PLAN
 DETAIL SHEET 3
 AUCKLAND COUNCIL



DESIGNED: MW	FOR GCR
CHECKED: 	DRAWN: CD
APPROVED: 	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: OCT 2013	
DWC NO: 60354-2BD-143-AB	REV: A



Stormwater Notes:

1. All pipes are RCRRJ class 2 unless noted otherwise
2. All pipes laid, including service connections are trenched unless noted otherwise
3. All bedding & backfill type is as per AC standards unless noted otherwise
4. All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: 01-10-13

Name: *[Signature]*

LEGEND

MANHOLE

Output IL	Inlet IL	SWRM 4A-3	Manhole Identifier #
1500mm	43.11m	1100mmØ	Manhole Diameter
		LL444.73	LL Level
		175080.119mE	Co-Ordinate Easting (NZTM)
		9951610.82mN	Co-Ordinate Northing (NZTM)

LOT CONNECTION

23.25m — Distance from DIS manhole
9.0m — Connection Length

OVERLAND FLOW

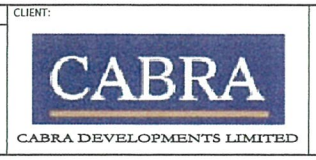
AB STORMWATER

EXISTING STORMWATER

STAGE 2 EXTENTS

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6
 3. ALL BERM SUMP AND CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (2) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 6. ALL CESSPITS ARE STANDARD 675mm X 450mm
 7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ
 8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 9. ALL CESSPIT LEADS ARE 225mm Ø RCRRJ CLASS 4

REVISION DETAILS	NAME	DATE	CLIENT
A. 224c ISSUE	CD	SEP 2013	



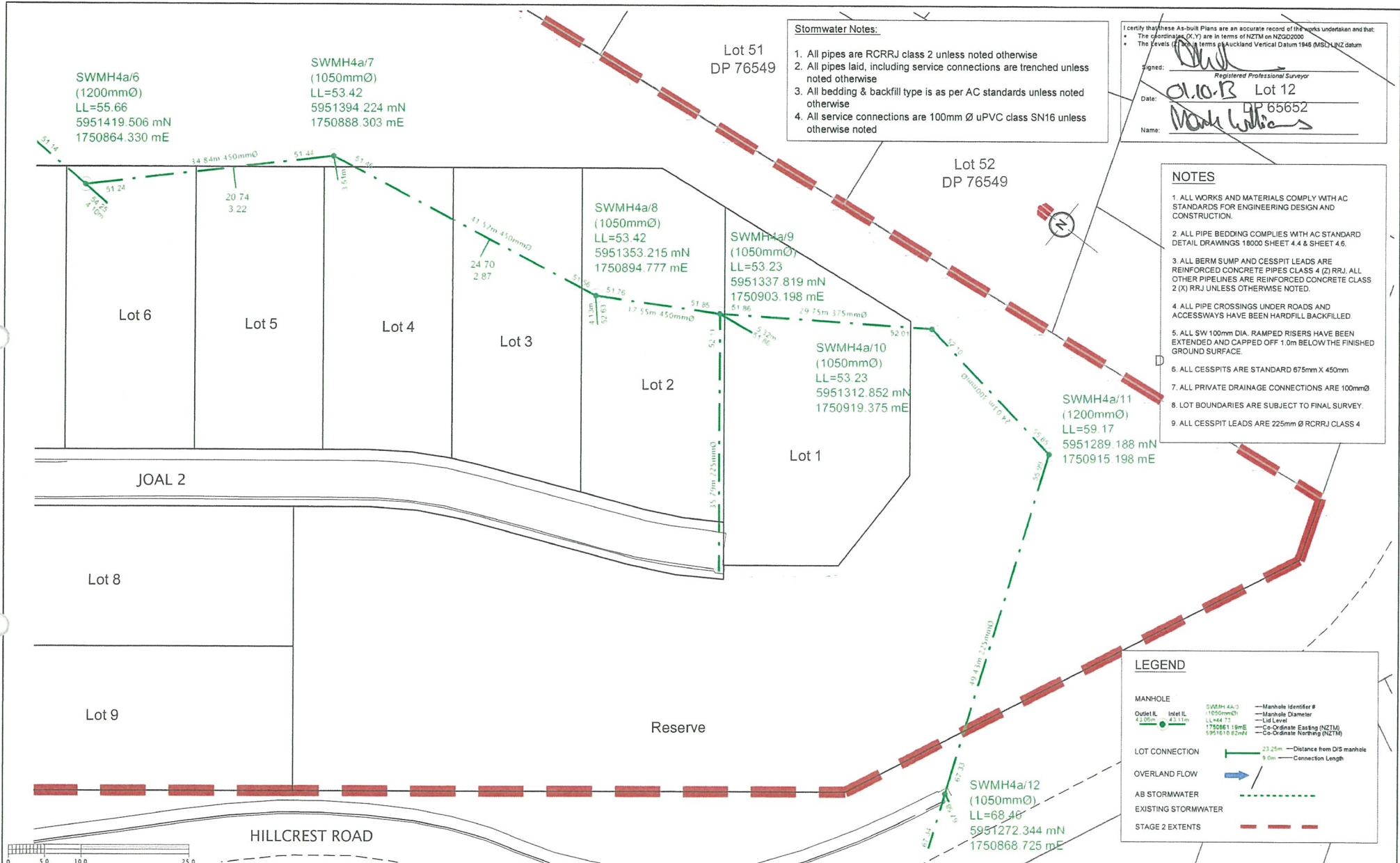
BEACHWOOD SUBDIVISION - STAGE 2BD

ASBULT STORMWATER PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED: MW	ASBULT
CHECKED: [Signature]	DRAWN: CD
APPROVED: [Signature]	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:1000 @ A3
ISSUED: SEP 2013	
DWG. NO. 60354-2BD-DR-380-AB	REV. A



Stormwater Notes:

1. All pipes are RCRRJ class 2 unless noted otherwise
2. All pipes laid, including service connections are trenched unless noted otherwise
3. All bedding & backfill type is as per AC standards unless noted otherwise
4. All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels are in terms of Auckland Vertical Datum 1940 (MSL) NZ datum

Signed: *[Signature]*
Registered Professional Surveyor
Date: 01.03.12
Name: *[Signature]*

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDINGS COMPLIES WITH AC STANDARD DETAIL DRAWINGS 1800D SHEET 4.4 & SHEET 4.6.
 3. ALL BERM SUMP AND CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (2) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 6. ALL CESSPITS ARE STANDARD 675mm X 450mm
 7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ
 8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 9. ALL CESSPIT LEADS ARE 225mm Ø RCRRJ CLASS 4

LEGEND

MANHOLE

- Outlet I.L. 43.00m
- Inlet I.L. 43.11m
- 1750861.19mE
- 5951610.82mN
- Manhole Identifier #
- Manhole Diameter
- Low Level
- Co-Ordinate Easting (NZTM)
- Co-Ordinate Northing (NZTM)

LOT CONNECTION

- 23.25m - Distance from DIS manhole
- 9.0m - Connection Length

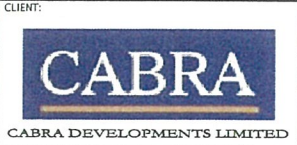
OVERLAND FLOW

AB STORMWATER

EXISTING STORMWATER

STAGE 2 EXTENTS

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	CABRA



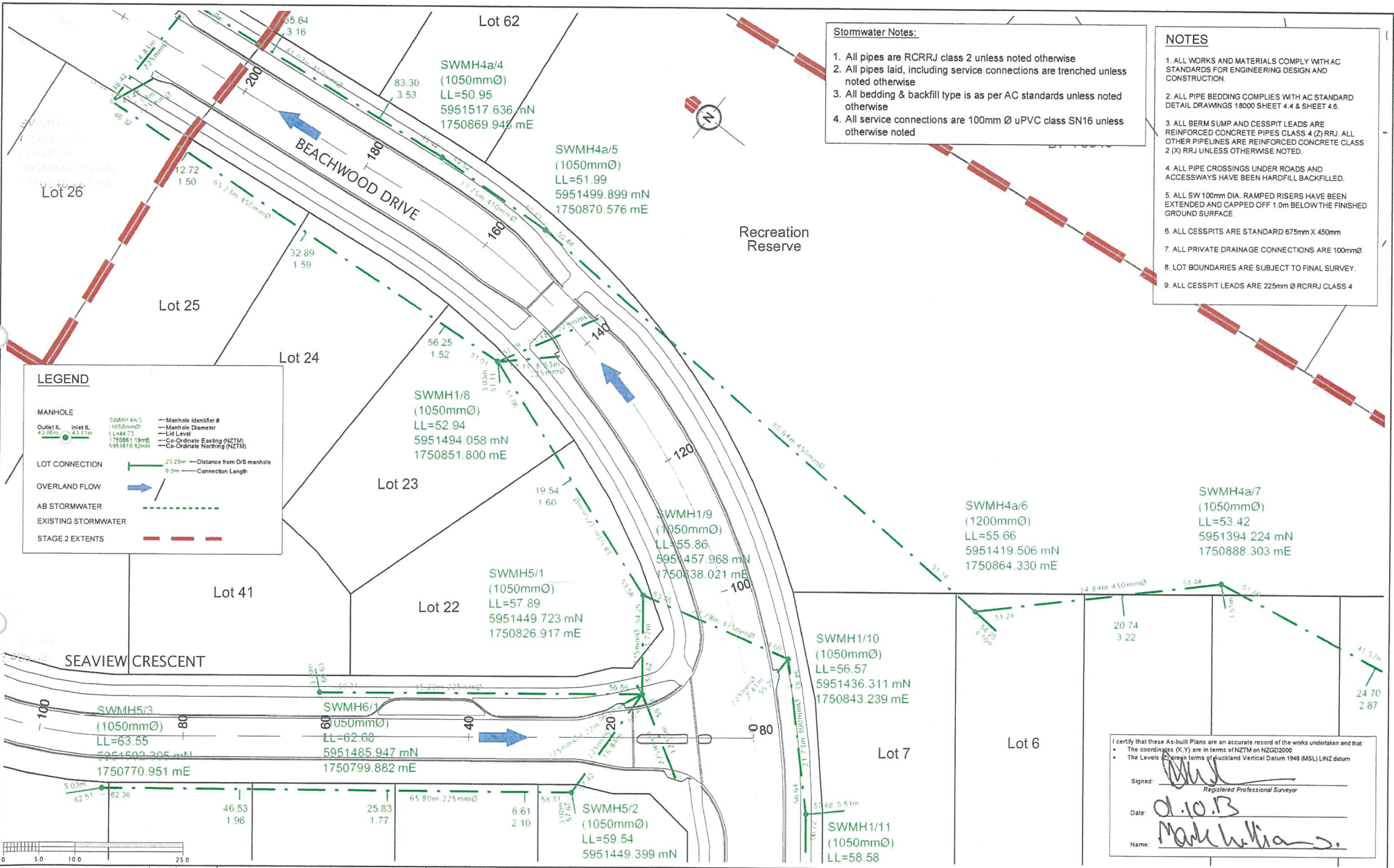
BEACHWOOD SUBDIVISION - STAGE 2BD

ASBUILT STORMWATER PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED:	MW	ASBUILT
CHECKED:	<i>[Signature]</i>	DRAWN: CD
APPROVED:	<i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:500 @ A3
ISSUED:	SEP 2013	
DWG. NO.	60354-2BD-DR-381-AB	REV. A



Stormwater Notes:

1. All pipes are RCRRJ class 2 unless noted otherwise
2. All pipes laid, including service connections are trenched unless noted otherwise
3. All bedding & backfill type is as per AC standards unless noted otherwise
4. All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6.
3. ALL BERM SUMP AND CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (2) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
6. ALL CESSPITS ARE STANDARD 675mm X 450mm
7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
9. ALL CESSPIT LEADS ARE 225mm Ø RCRRJ CLASS 4

LEGEND

MANHOLE

MANHOLE IDENTIFIER #

MANHOLE DIAMETER

LL LEVEL

Co-Ordinate Easting (NZTM)

Co-Ordinate Northing (NZTM)

Outlet RL 43.30m

Inlet RL 43.11m

LL=48.78

1750861.19mE

5951610.82mN

23.25m Distance from O/S manhole

9.0m Connection Length

LOT CONNECTION

OVERLAND FLOW

AB STORMWATER

EXISTING STORMWATER

STAGE 2 EXTENTS

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: *Mark Williams*
Registered Professional Surveyor

Date: 01.10.13

Name: Mark Williams

REVISION DETAILS	NAME	DATE
A. 224c ISSUE	CD	SEP 2013

CLIENT:

CABRA DEVELOPMENTS LIMITED

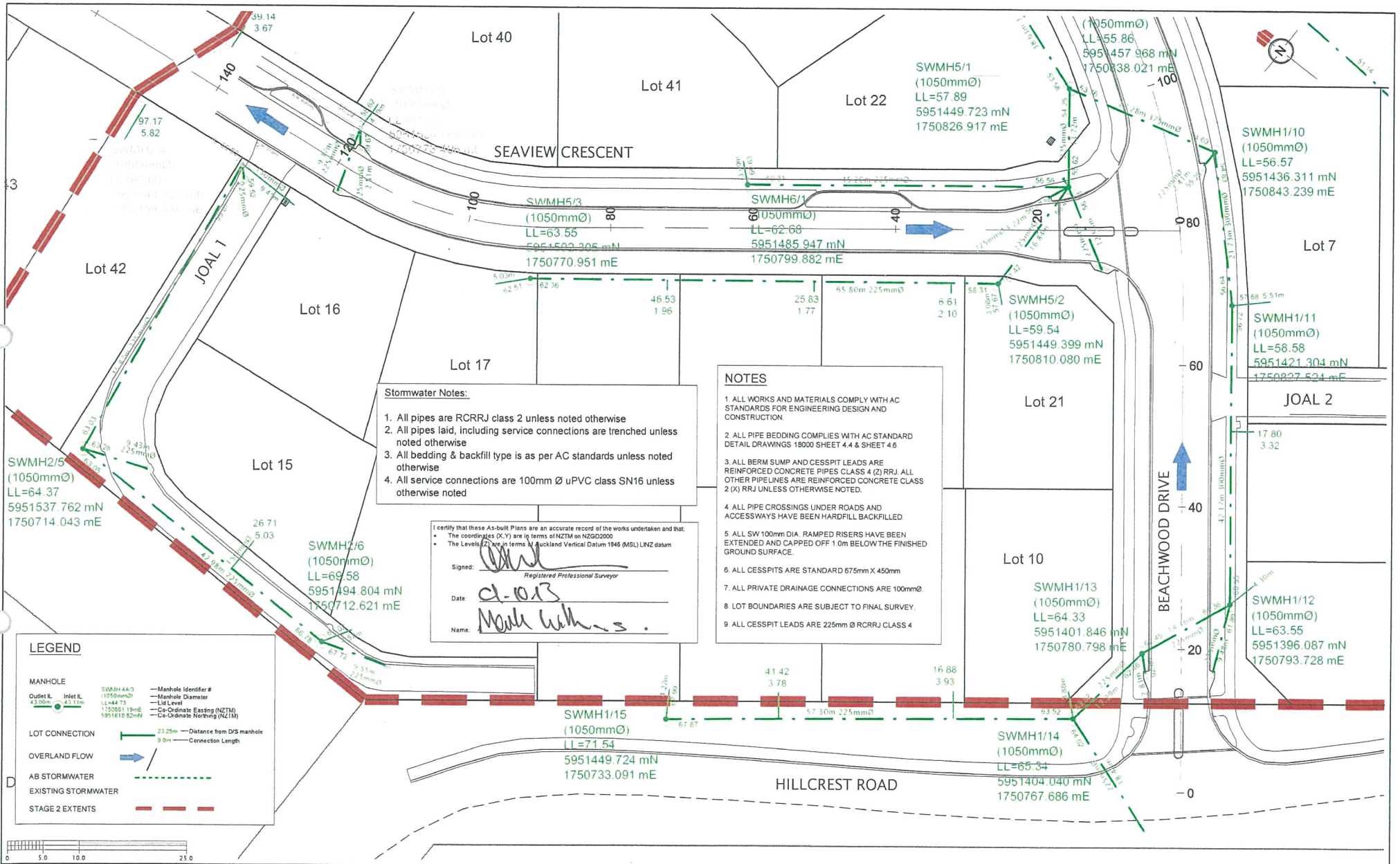
BEACHWOOD SUBDIVISION - STAGE 2BD

ASBUILT STORMWATER PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL

Engineers, Surveyors, Planners.

DESIGNED:	MW	ASBUILT
CHECKED:	<i>AS</i>	DRAWN: CD
APPROVED:	<i>AS</i>	SURVEYED: WOODS
JOB NUMBER:	60354/2BD	SCALE: 1:500 @ A3
ISSUED:	SEP 2013	
DWG. NO.	60354-2BD-DR-382-AB	REV. A



Stormwater Notes:

1. All pipes are RCRRJ class 2 unless noted otherwise
2. All pipes laid, including service connections are trenched unless noted otherwise
3. All bedding & backfill type is as per AC standards unless noted otherwise
4. All service connections are 100mm \varnothing PVC class SN16 unless otherwise noted

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6
3. ALL BERM SUMP AND CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED
5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
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7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm \varnothing
8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
9. ALL CESSPIT LEADS ARE 225mm \varnothing RCRRJ CLASS 4

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
 Registered Professional Surveyor
 Date: 01-01-13
 Name: Mark Williams

LEGEND

MANHOLE

Outlet I.L. 43.00m
 Inlet I.L. 43.10m

SWMH 4A/3
 (1050mm \varnothing)
 LL=44.73
 1750281.19mE
 5951618.82mN

Manhole Identifier #
 Manhole Diameter
 LL Level
 Co-Ordinate Easting (NZTM)
 Co-Ordinate Northing (NZTM)

LOT CONNECTION

23.25m — Distance from D/S manhole
 9.0m — Connection Length

OVERLAND FLOW

AB STORMWATER

EXISTING STORMWATER

STAGE 2 EXTENTS

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	 CABRA DEVELOPMENTS LIMITED

BEACHWOOD SUBDIVISION - STAGE 2BD

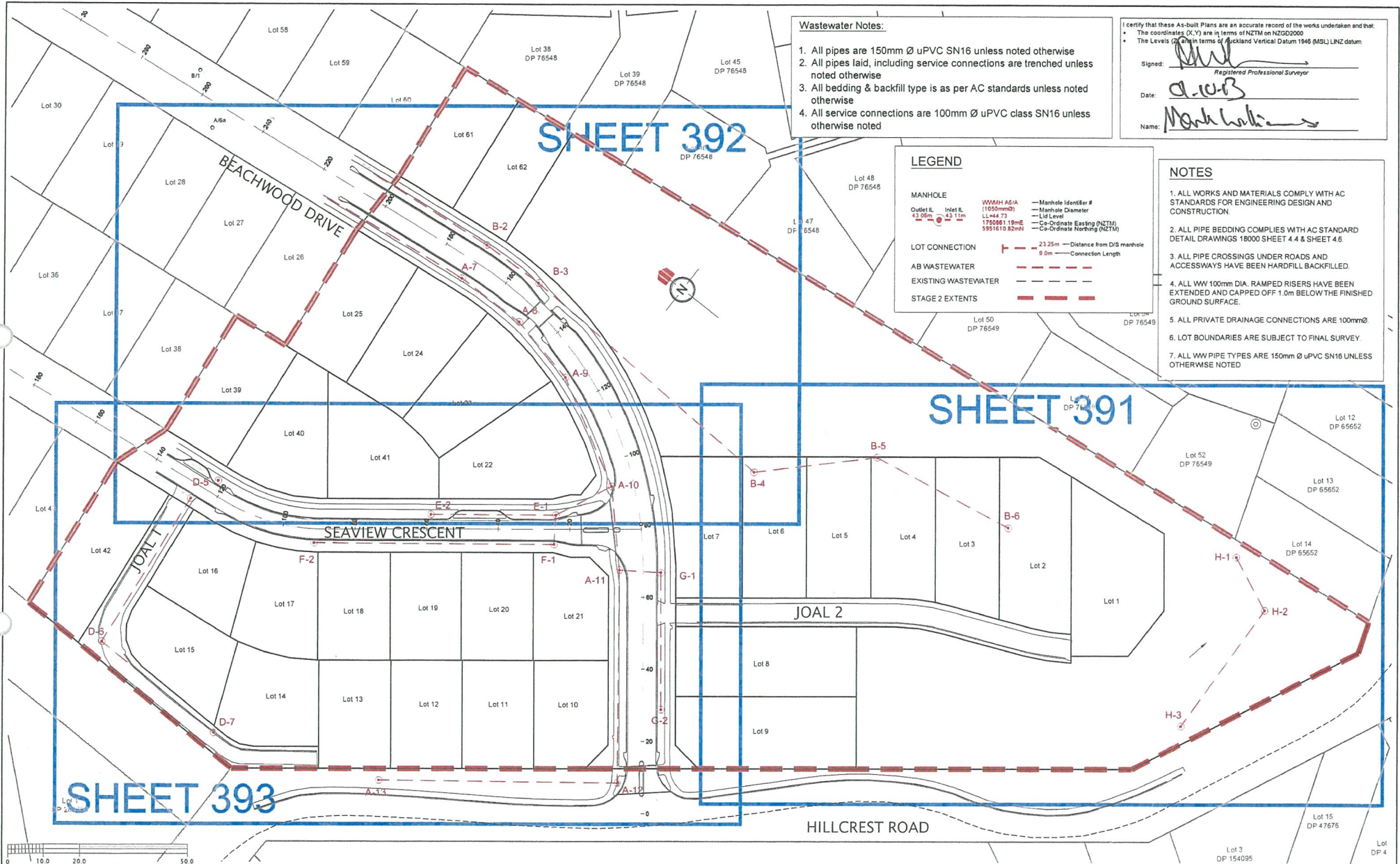
ASBUILT STORMWATER PLAN
 RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL

WOODS
 Engineers, Surveyors, Planners.

DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: SEP 2013	
DWG. NO. 60354-2BD-DR-383-AB	REV. A

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	 CABRA DEVELOPMENTS LIMITED



Wastewater Notes:

- All pipes are 150mm Ø uPVC SN16 unless noted otherwise
- All pipes laid, including service connections are trenched unless noted otherwise
- All bedding & backfill type is as per AC standards unless noted otherwise
- All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels are given in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: *21/09/13*

Name: *Mark Walker*

LEGEND

MANHOLE	<table border="0"> <tr> <td>W/MH A/B/A</td> <td>Manhole Identifier #</td> </tr> <tr> <td>(1050mmØ)</td> <td>Manhole Diameter</td> </tr> <tr> <td>L444 73</td> <td>Lot Level</td> </tr> <tr> <td>1750881 15mE</td> <td>Co-Ordinate Easting (NZTM)</td> </tr> <tr> <td>9951610 82mN</td> <td>Co-Ordinate Northing (NZTM)</td> </tr> </table>	W/MH A/B/A	Manhole Identifier #	(1050mmØ)	Manhole Diameter	L444 73	Lot Level	1750881 15mE	Co-Ordinate Easting (NZTM)	9951610 82mN	Co-Ordinate Northing (NZTM)		
W/MH A/B/A	Manhole Identifier #												
(1050mmØ)	Manhole Diameter												
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1750881 15mE	Co-Ordinate Easting (NZTM)												
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<table border="0"> <tr> <td>23.25m</td> <td>Distance from DIS manhole</td> </tr> <tr> <td>9.0m</td> <td>Connection Length</td> </tr> </table>	23.25m	Distance from DIS manhole	9.0m	Connection Length	<table border="0"> <tr> <td>LOT CONNECTION</td> <td>—</td> </tr> <tr> <td>AB WASTEWATER</td> <td>---</td> </tr> <tr> <td>EXISTING WASTEWATER</td> <td>- - -</td> </tr> <tr> <td>STAGE 2 EXTENTS</td> <td>---</td> </tr> </table>	LOT CONNECTION	—	AB WASTEWATER	---	EXISTING WASTEWATER	- - -	STAGE 2 EXTENTS	---
23.25m	Distance from DIS manhole												
9.0m	Connection Length												
LOT CONNECTION	—												
AB WASTEWATER	---												
EXISTING WASTEWATER	- - -												
STAGE 2 EXTENTS	---												

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL WW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 - ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL WW PIPE TYPES ARE 150mm Ø uPVC SN16 UNLESS OTHERWISE NOTED



REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	

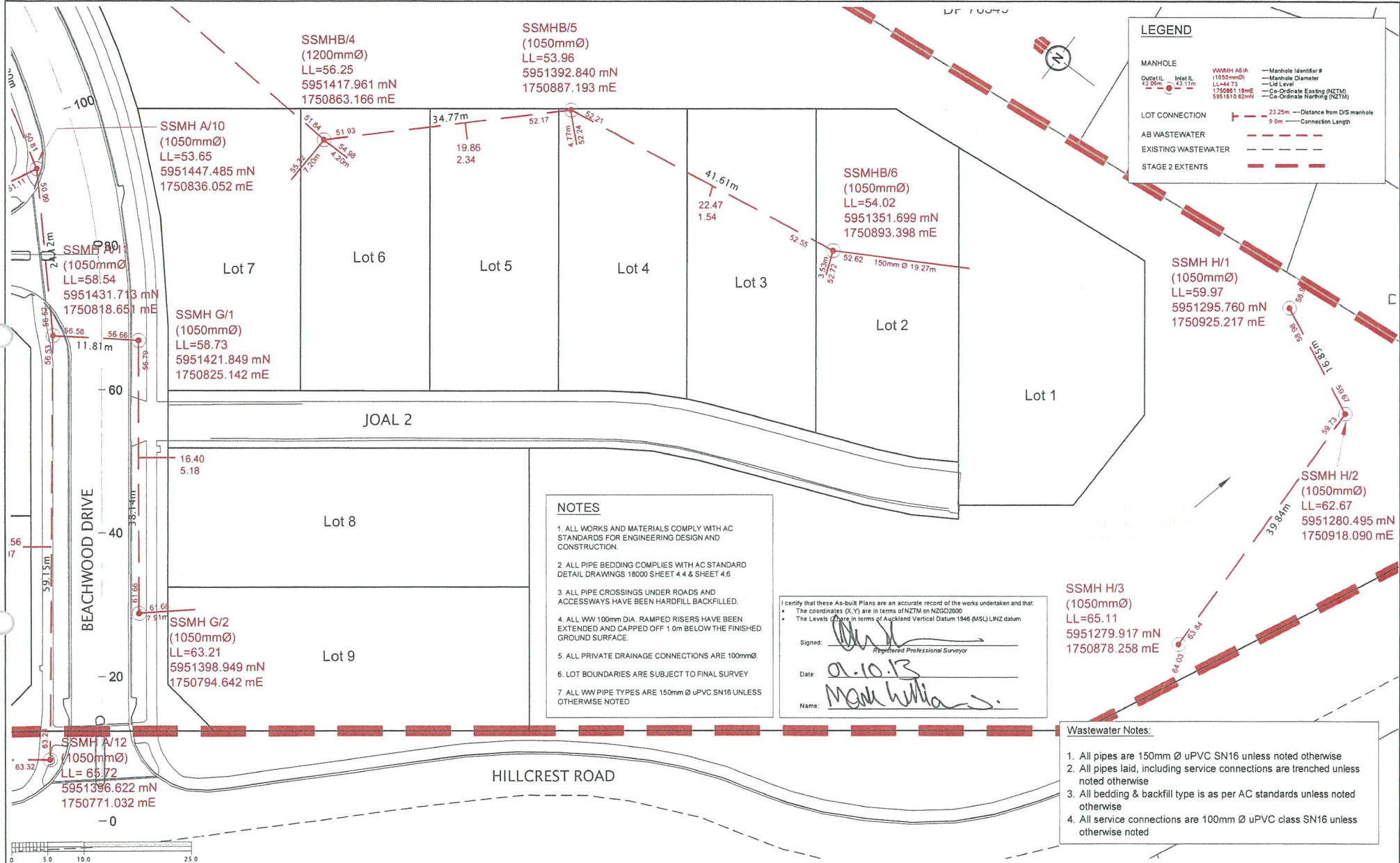


BEACHWOOD SUBDIVISION - STAGE 2BD
ASBUILT WASTEWATER PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:1000 @ A3
ISSUED: SEP 2013	
DWG. NO. 60354-2BD-390-AB	REV. A



- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6
 3. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 4. ALL WW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 5. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ALL WW PIPE TYPES ARE 150mm Ø uPVC SN16 UNLESS OTHERWISE NOTED.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

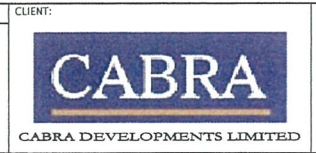
Signed: *[Signature]*
 Registered Professional Surveyor

Date: 01.10.13

Name: *[Signature]*

- Wastewater Notes:**
1. All pipes are 150mm Ø uPVC SN16 unless noted otherwise
 2. All pipes laid, including service connections are trenched unless noted otherwise
 3. All bedding & backfill type is as per AC standards unless noted otherwise
 4. All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	CABRA DEVELOPMENTS LIMITED

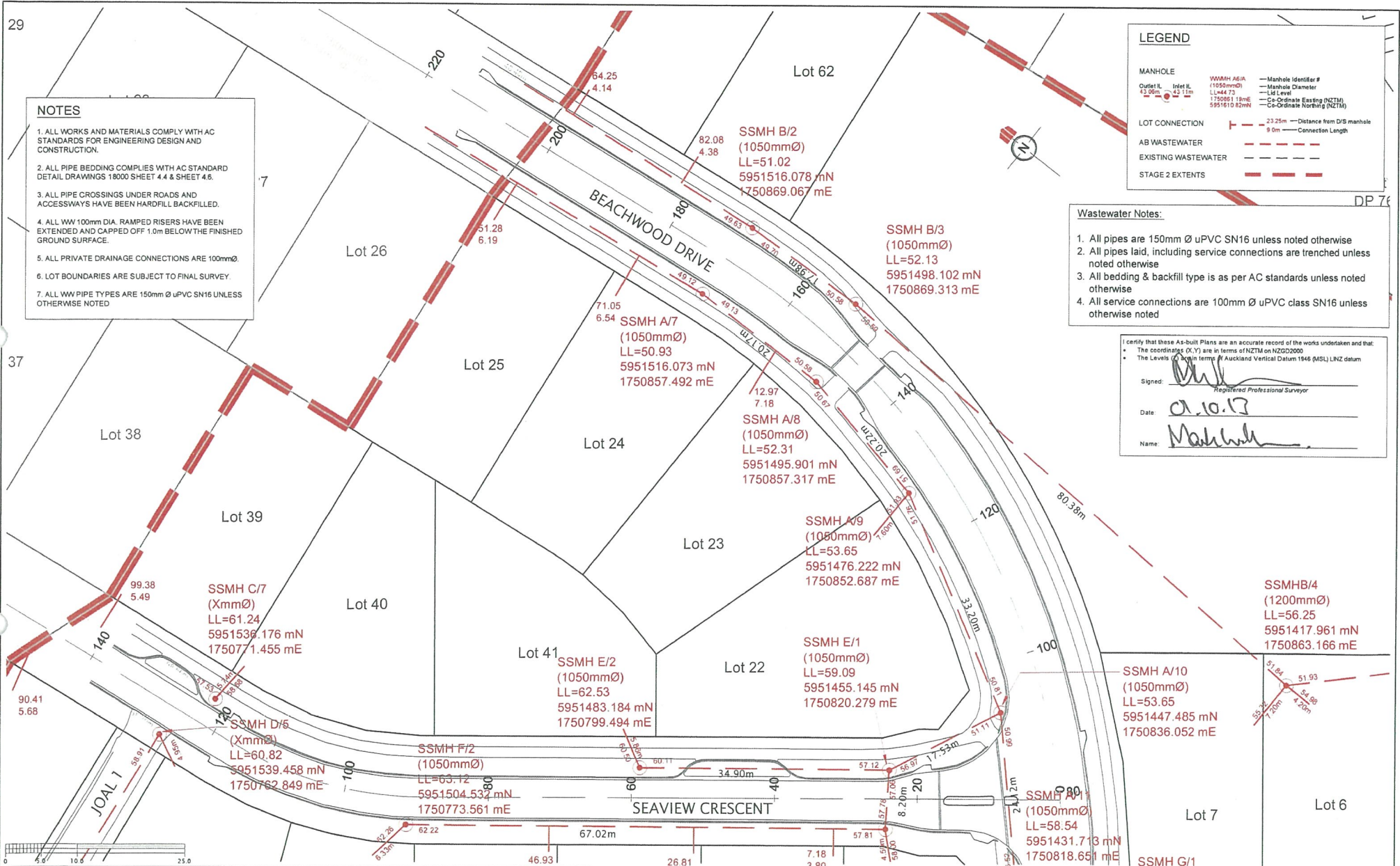


BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT WASTEWATER PLAN
 RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED:	MW	ASBUILT
CHECKED:		DRAWN: CD
APPROVED: <i>[Signature]</i>		SURVEYED: WOODS
JOB NUMBER: 60354/2BD		SCALE: 1:500 @ A3
ISSUED: SEP 2013		
DWG. NO: 60354-2BD-391-AB		REV. A



- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6.
 3. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 4. ALL WW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 5. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ALL WW PIPE TYPES ARE 150mm Ø uPVC SN16 UNLESS OTHERWISE NOTED

LEGEND

MANHOLE

Outlet I.L.	Inlet I.L.	WMMH AREA (1050mmØ)	Manhole Identifier #
42.00m	42.12m	11.44.73	Manhole Diameter
		1750861.19m	Lid Level
		5951610.82mN	Co-Ordinate Easting (NZTM)
			Co-Ordinate Northing (NZTM)

LOT CONNECTION

23.25m — Distance from D/S manhole
9.0m — Connection Length

AB WASTEWATER — Dashed line

EXISTING WASTEWATER — Dotted line

STAGE 2 EXTENTS — Thick dashed line

- Wastewater Notes:**
1. All pipes are 150mm Ø uPVC SN16 unless noted otherwise
 2. All pipes laid, including service connections are trenched unless noted otherwise
 3. All bedding & backfill type is as per AC standards unless noted otherwise
 4. All service connections are 100mm Ø uPVC class SN16 unless otherwise noted

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: 02.10.13

Name: *[Signature]*

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	

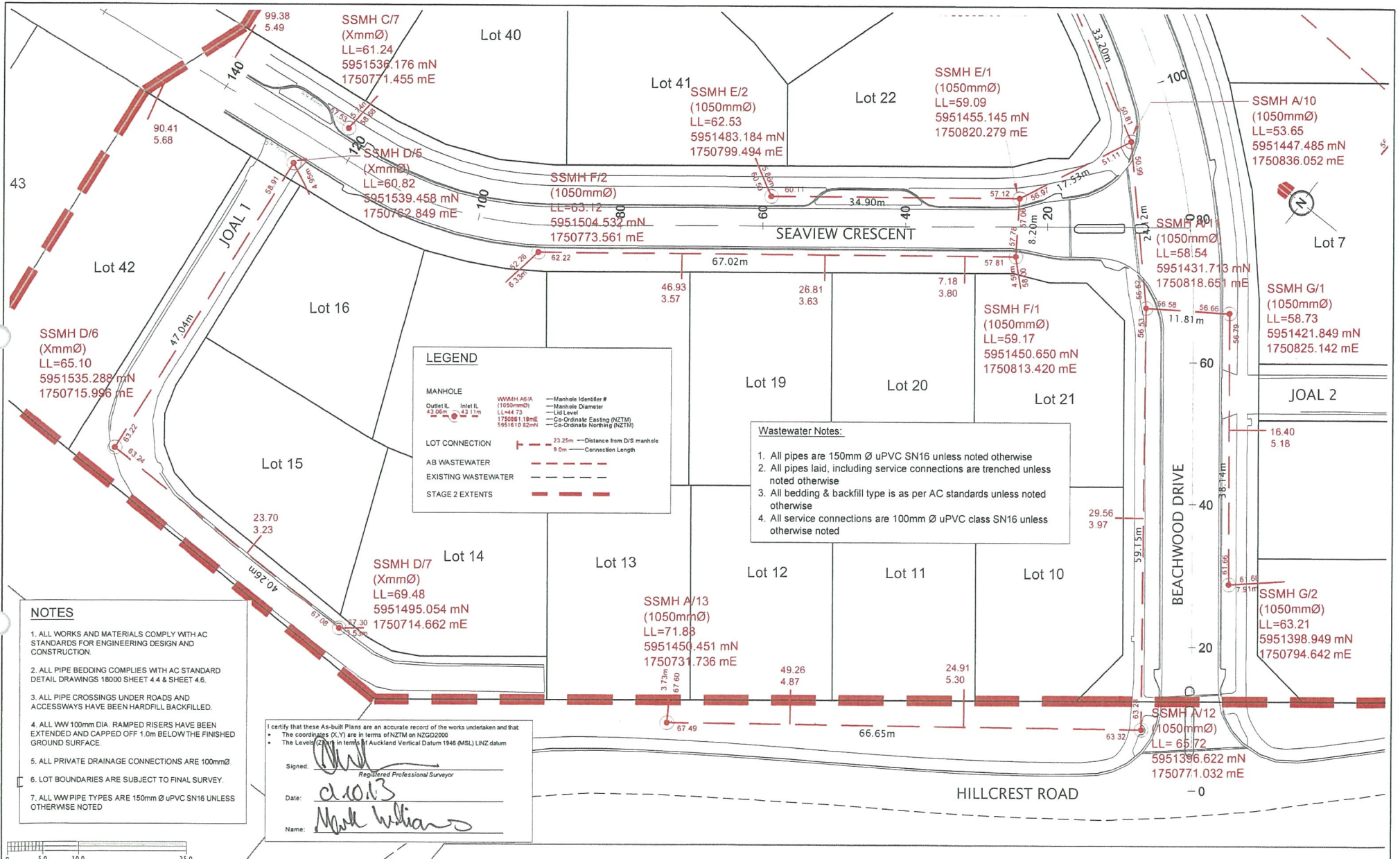


BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT WASTEWATER PLAN
 RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: SEP 2013	
DWG. NO. 60354-2BD-392-AB	REV. A



- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6.
 3. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
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 5. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ALL WW PIPE TYPES ARE 150mm Ø uPVC SN16 UNLESS OTHERWISE NOTED.

LEGEND

MANHOLE

WWMH A/G/A (1050mmØ)
 Outlet I.L. Inlet I.L.
 LL=44.73 LL=43.1m
 1750961.19mE
 951610.82mN

— Manhole Identifier #
 — Manhole Diameter
 — Lid Level
 — Co-Ordinate Easting (NZTM)
 — Co-Ordinate Northing (NZTM)

LOT CONNECTION

23.25m — Distance from D/S manhole
 9.0m — Connection Length

AB WASTEWATER
 EXISTING WASTEWATER
 STAGE 2 EXTENTS

- Wastewater Notes:**
1. All pipes are 150mm Ø uPVC SN16 unless noted otherwise
 2. All pipes laid, including service connections are trenching unless noted otherwise
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- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LNZ datum

Signed: *[Signature]*
 Registered Professional Surveyor

Date: *21/01/23*

Name: *Mark Williams*

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	



BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT WASTEWATER PLAN
 RMA SLC 57858 & RDC 21082

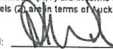
AUCKLAND COUNCIL



DESIGNED:	MW	ASBUILT
CHECKED:	<i>[Signature]</i>	DRAWN: CD
APPROVED:	<i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3	
ISSUED: SEP 2013		
DWG. NO. 60354-2BD-393-AB	REV. A	

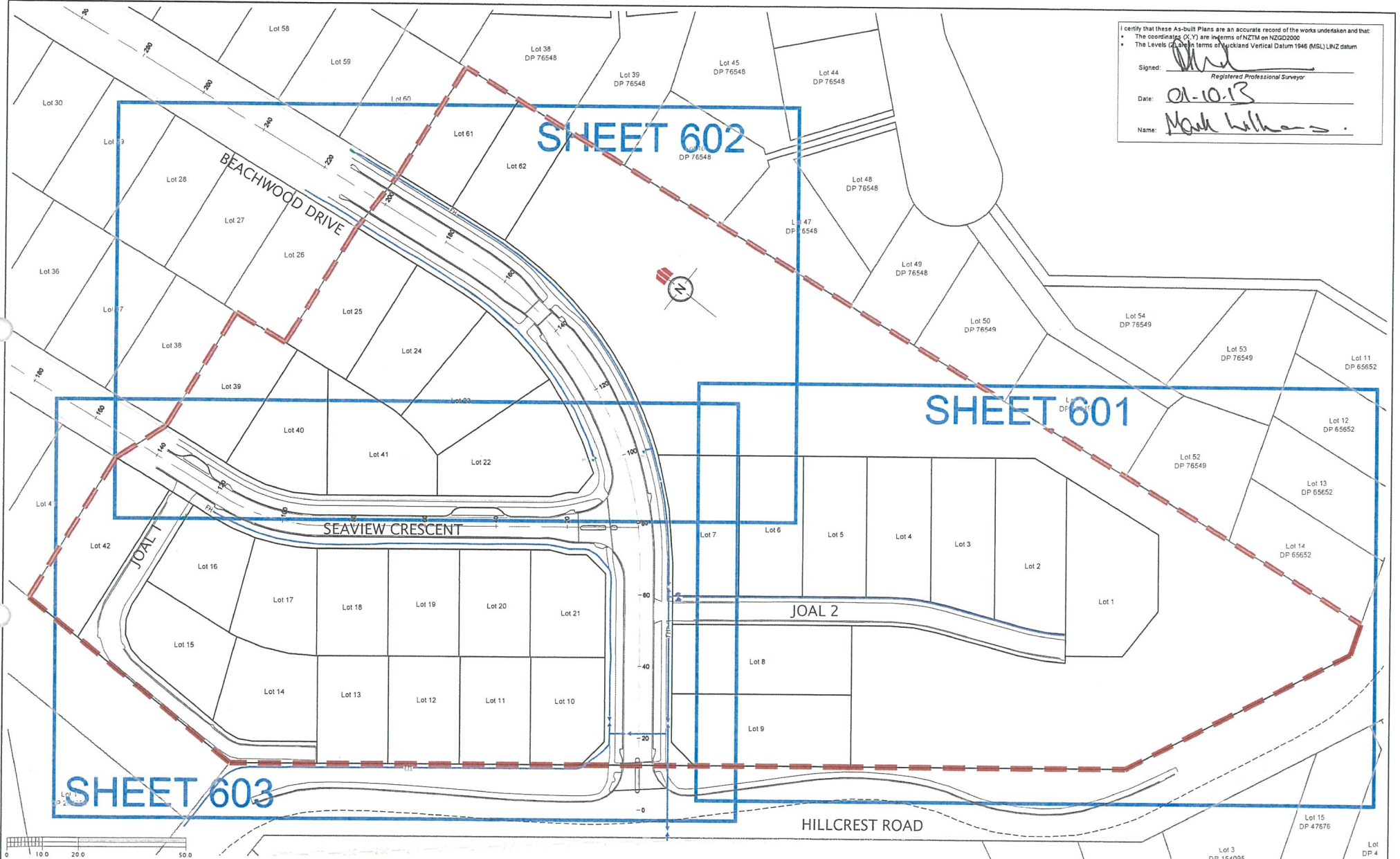
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM or NZGD2009
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

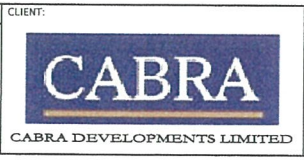
Signed: 
Registered Professional Surveyor

Date: 01-10-13

Name: Mark Williams





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A. 224c ISSUE	CD	SEP 2013

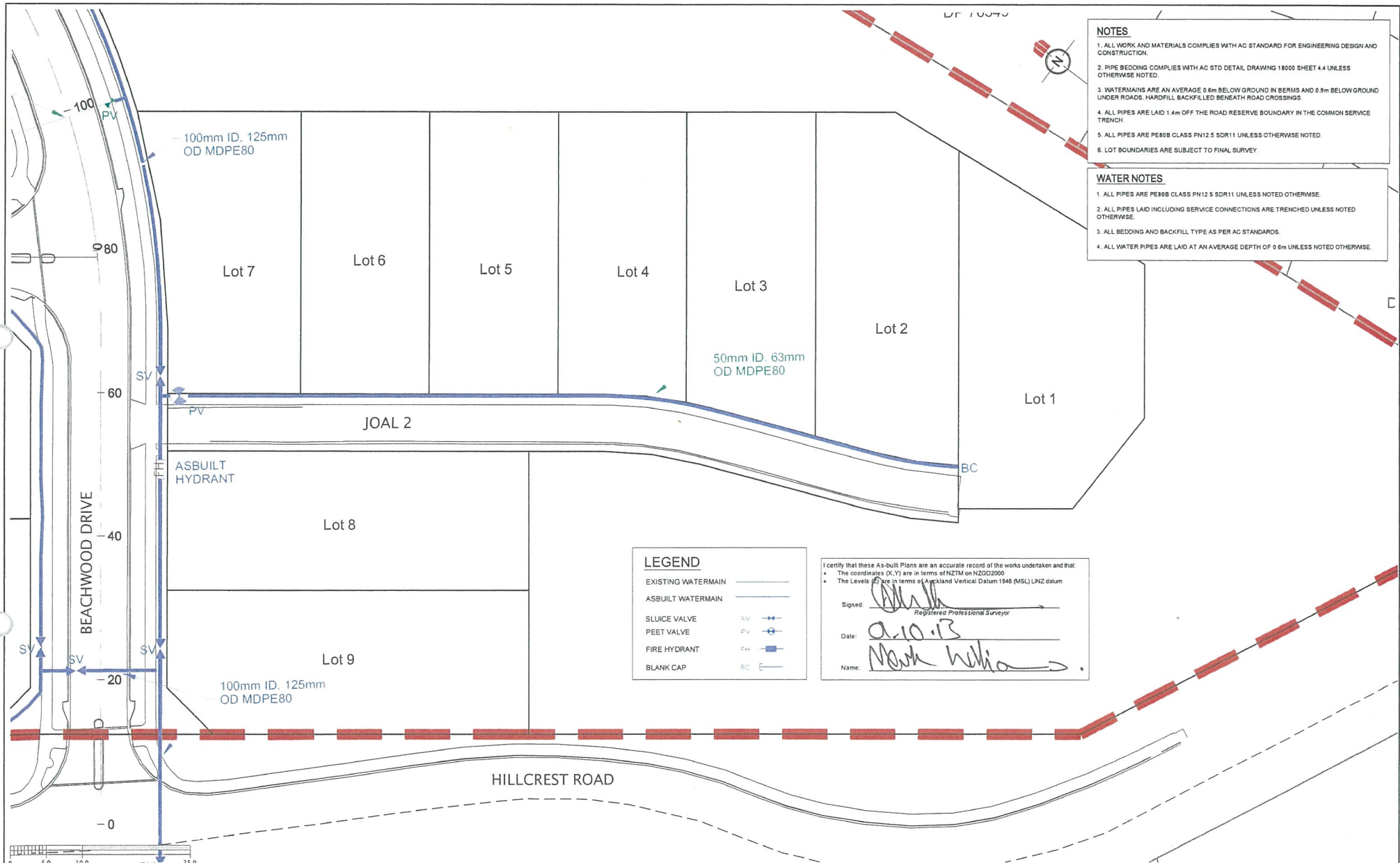


BEACHWOOD SUBDIVISION - STAGE 2BD
ASBUILT WATERMAIN PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: 	DRAWN: CD
APPROVED: 	SURVISED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:1000 @ A3
ISSUED: SEP 2013	
DWG NO: 60354-2BD-600-AB	REV: A



NOTES

1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS
4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH
5. ALL PIPES ARE PE80B CLASS PN12.5 SDR11 UNLESS OTHERWISE NOTED
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY

WATER NOTES

1. ALL PIPES ARE PE80B CLASS PN12.5 SDR11 UNLESS NOTED OTHERWISE.
2. ALL PIPES LAID INCLUDING SERVICE CONNECTIONS ARE TRENCHED UNLESS NOTED OTHERWISE.
3. ALL BEDDING AND BACKFILL TYPE AS PER AC STANDARDS.
4. ALL WATER PIPES ARE LAID AT AN AVERAGE DEPTH OF 0.6m UNLESS NOTED OTHERWISE.

LEGEND

EXISTING WATERMAIN	—
ASBUILT WATERMAIN	—
SLUICE VALVE	SV
PEET VALVE	PV
FIRE HYDRANT	FH
BLANK CAP	BC

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- The Levels are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: 02.10.13

Name: *[Signature]*

REVISION DETAILS	NAME	DATE
A. 224c ISSUE	CD	SEP 2013

CLIENT:

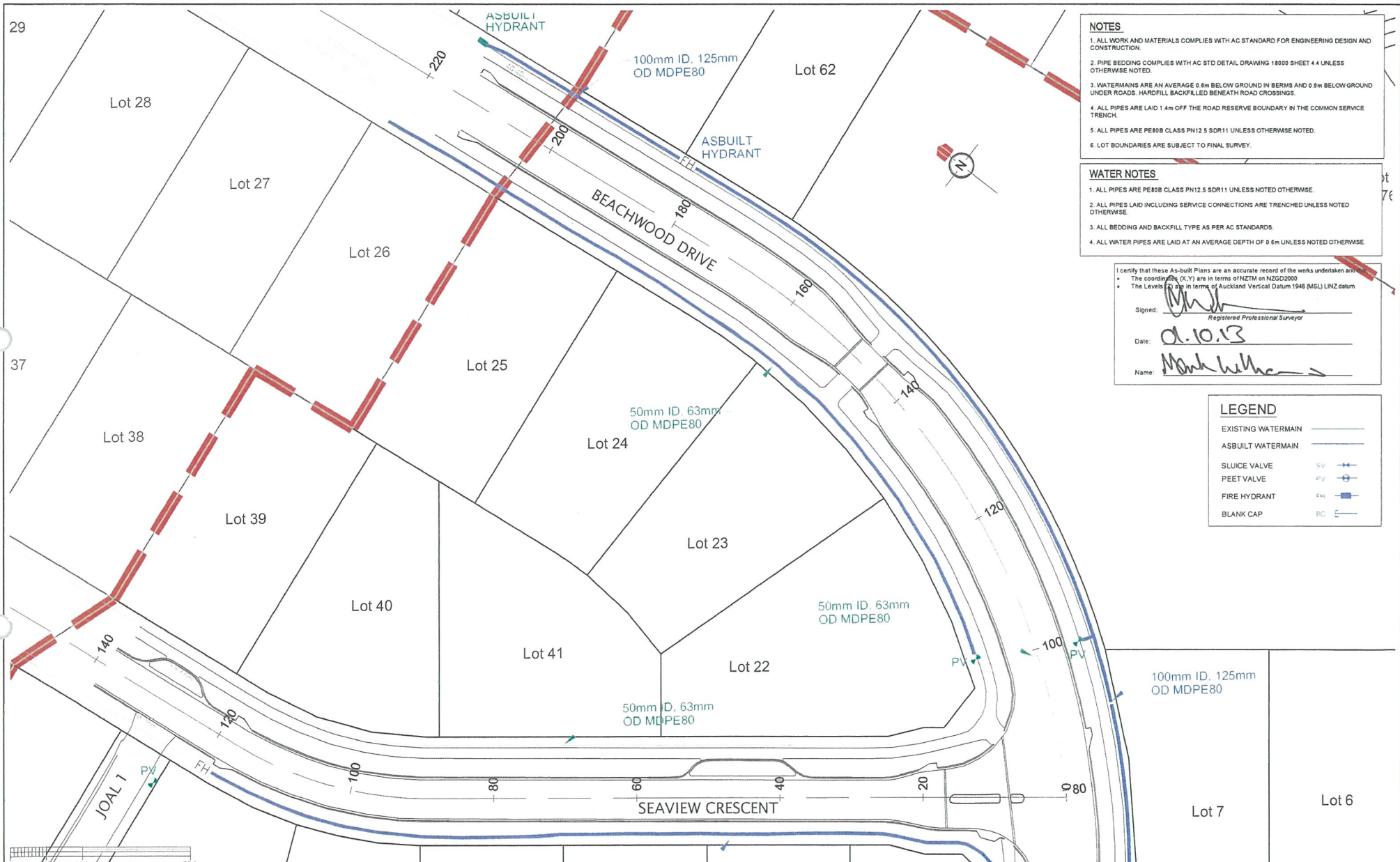
CABRA
CABRA DEVELOPMENTS LIMITED

BEACHWOOD SUBDIVISION - STAGE 2BD
ASBUILT WATERMAIN PLAN
RMA SLC 57858 & RDC 21082

AUCKLAND COUNCIL

WOODS
Engineers. Surveyors. Planners.

DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: SEP 2013	
DWG. NO: 60354-2BD-601-AB	REV: A



- NOTES**
1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 5. ALL PIPES ARE PE80B CLASS PN12.5 SDR11 UNLESS OTHERWISE NOTED.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

- WATER NOTES**
1. ALL PIPES ARE PE80B CLASS PN12.5 SDR11 UNLESS NOTED OTHERWISE.
 2. ALL PIPES LAID INCLUDING SERVICE CONNECTIONS ARE TRENCHED UNLESS NOTED OTHERWISE.
 3. ALL BEDDING AND BACKFILL TYPE AS PER AC STANDARDS.
 4. ALL WATER PIPES ARE LAID AT AN AVERAGE DEPTH OF 0.6m UNLESS NOTED OTHERWISE.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels are in terms of Auckland Vertical Datum 1948 (MSL) LINZ datum

Signed: *[Signature]*
Registered Professional Surveyor

Date: 01.10.13

Name: Mark Williams

LEGEND

EXISTING WATERMAIN	
ASBUILT WATERMAIN	
SLUCE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	

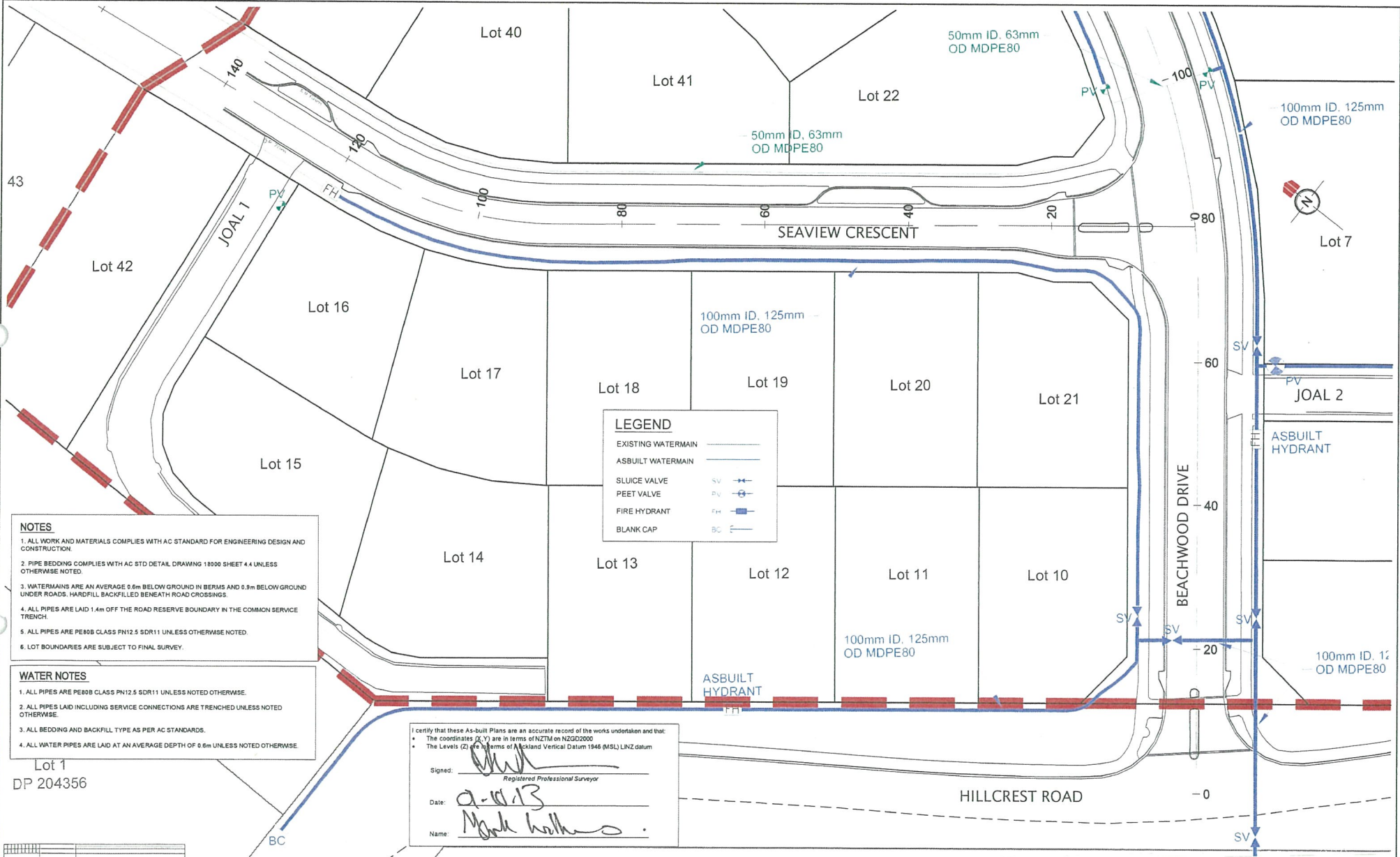
REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	CABRA



BEACHWOOD SUBDIVISION - STAGE 2BD
ASBUILT WATERMAIN PLAN
RMA SLC 57858 & RDC 21082
AUCKLAND COUNCIL



DESIGNED: MW	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: CD
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 60354/2BD	SCALE: 1:500 @ A3
ISSUED: SEP 2013	
DWG. NO: 60354-2BD-602-AB	REV: A



- NOTES**
1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. PIPE BEDDING COMPLIES WITH AC STD DETAIL, DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.3m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
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LEGEND

EXISTING WATERMAIN	---
ASBUILT WATERMAIN	—
SLUICE VALVE	SV
PEET VALVE	PV
FIRE HYDRANT	FH
BLANK CAP	BC

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *[Signature]*
 Registered Professional Surveyor
 Date: 2-11-13
 Name: Mark Walker

REVISION DETAILS	NAME	DATE	CLIENT:
A. 224c ISSUE	CD	SEP 2013	



BEACHWOOD SUBDIVISION - STAGE 2BD
 ASBUILT WATERMAIN PLAN
 RMA SLC 57858 & RDC 21082
 AUCKLAND COUNCIL



DESIGNED:	MW	ASBUILT
CHECKED:		DRAWN: CD
APPROVED: <i>[Signature]</i>		SURVEYED: WOODS
JOB NUMBER: 60354/2BD		SCALE: 1:500 @ A3
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