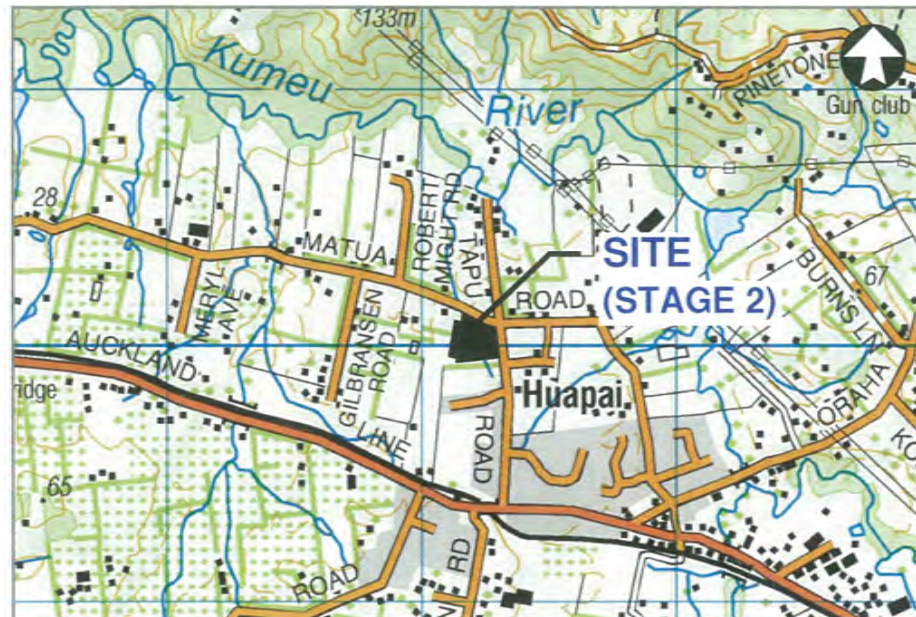


# CABRA DEVELOPMENTS LTD. STAGE 2 ASBUILT MATUA RESIDENTIAL ESTATE 68 LOT RESIDENTIAL SUBDIVISION MATUA ROAD, HUAPAI R59597



154 Centreway Road  
Orewa 0946  
P.O. Box 150 Telephone (09) 426-5702  
Orewa Fax (09) 426-9669  
Auckland Email info@hc.co.nz



**LOCALITY PLAN**



**SITE PLAN**

## DRAWINGS - 17300AB STAGE 2

### GENERAL (GE)

GE-001 COVER

### EARTHWORKS (EW)

EW-101 ASBUILT CONTOUR PLAN  
EW-102 ASBUILT CUT FILL DEPTH CONTOURS  
EW-103 ASBUILT UNDERFILL DRAINAGE PLAN  
EW-104 (REV A) ASBUILT RETAINING WALL PLAN

### ROADING (RD)

RD-201 ASBUILT ROADING PLAN  
RD-202 ASBUILT TYPICAL ROAD CROSS SECTIONS (SHEET 1 OF 2)  
RD-203 ASBUILT TYPICAL ROAD CROSS SECTIONS (SHEET 2 OF 2)

### STORMWATER (SW)

SW-301 ASBUILT STORMWATER PLAN (SHEET 1 OF 2)  
SW-302 ASBUILT STORMWATER PLAN (SHEET 2 OF 2)  
SW-303 ASBUILT STORMWATER PLAN (SHEET 2 OF 3)

### WASTEWATER (WW)

WW-401 ASBUILT WASTEWATER PLAN

### WATER SUPPLY (WS)

WS-501 ASBUILT WATER SUPPLY PLAN

### CONSENT NOTICE (CN)



CN-601 (REV A) ASBUILT RETAINING WALL CONSENT NOTICE AREA  
CN-602 (REV A) ASBUILT STORMWATER CONSENT NOTICE AREA  
CN-603 (REV A) ASBUILT BATTER CONSENT NOTICE AREA

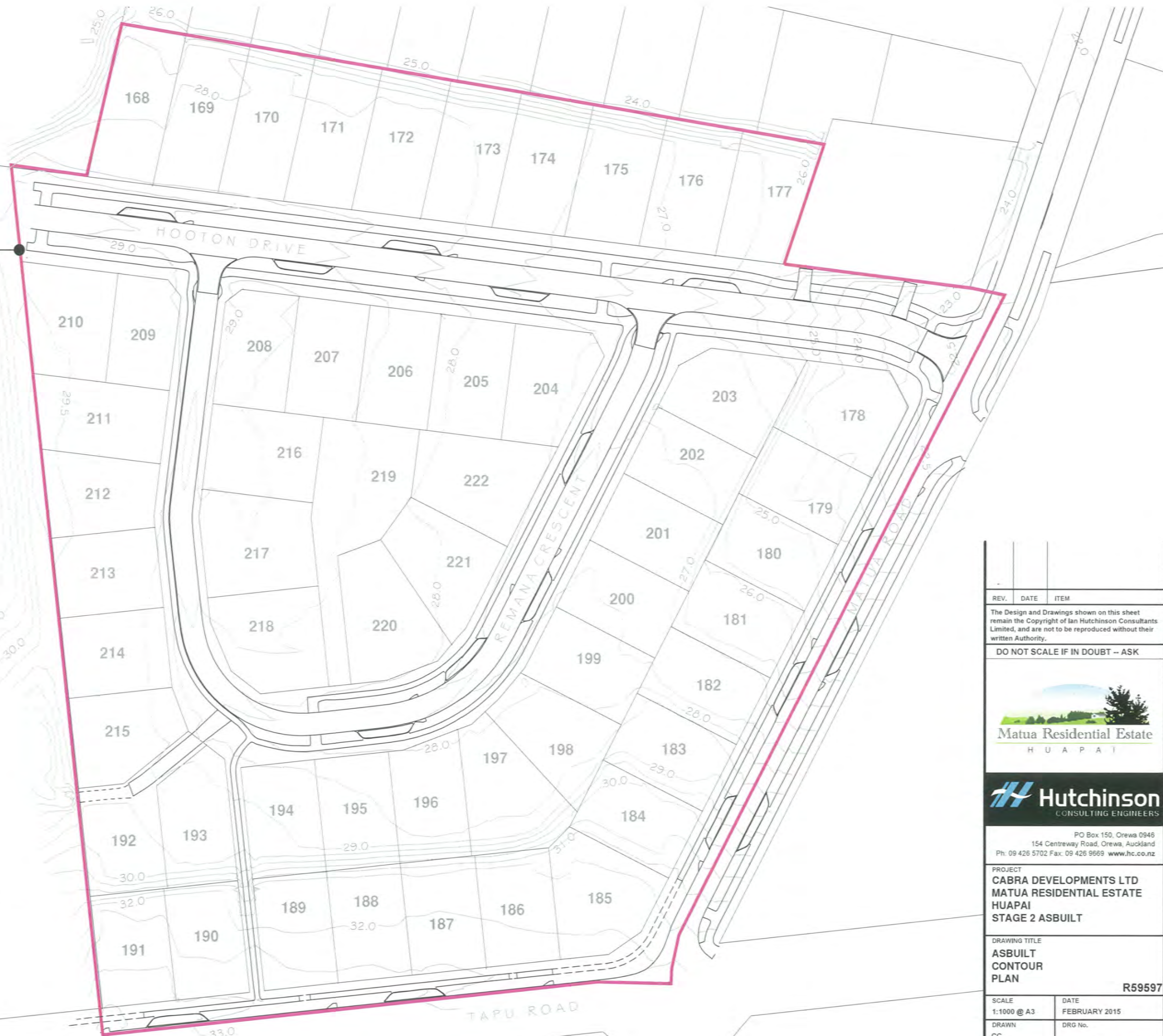
**17300AB / GE-001  
FEBRUARY 2015 Rev A**





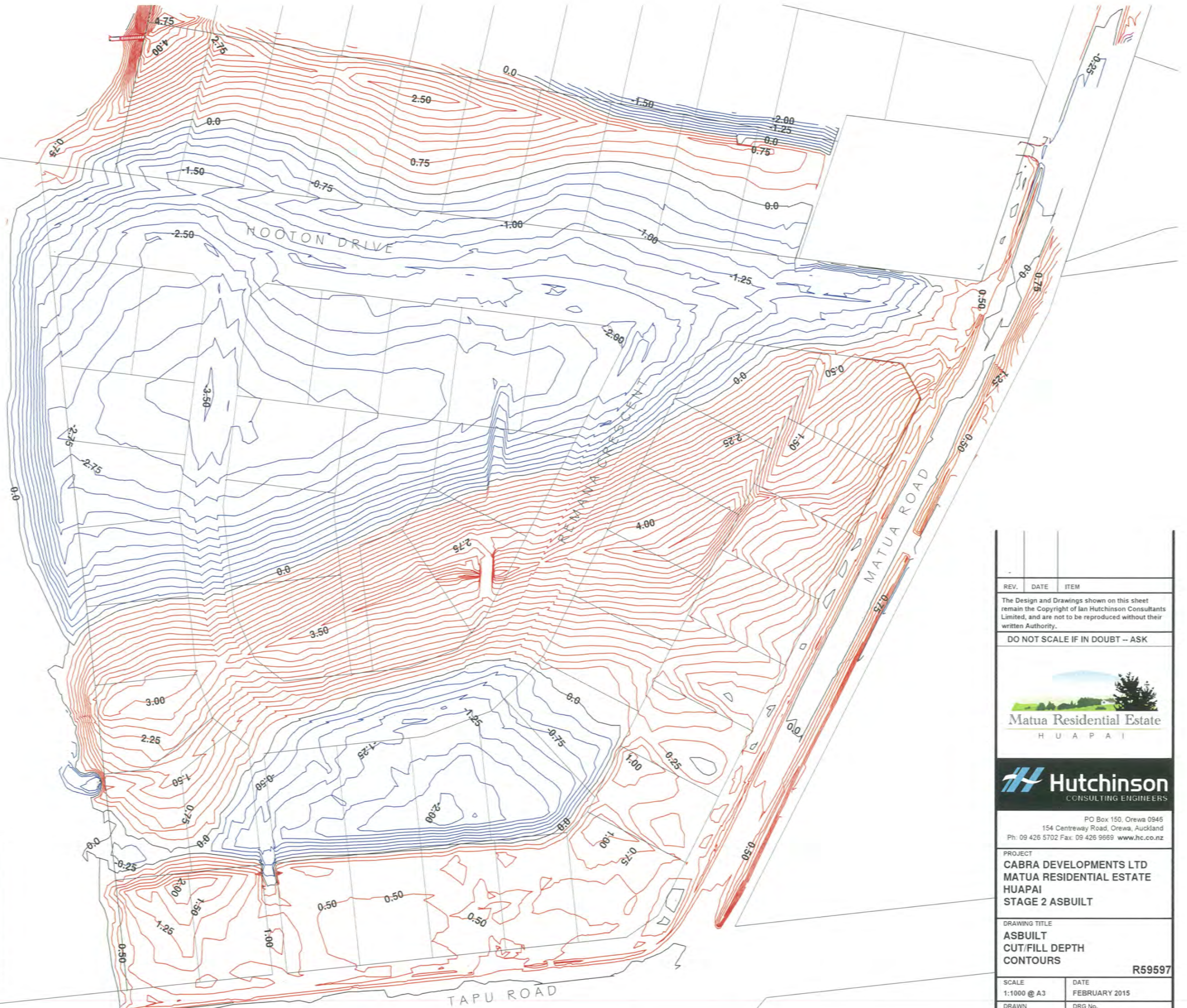
LIMIT OF STAGE 2  
ASBUILT WORKS

LEGEND	
	ASBUILT STAGE 2 LOTS
	ASBUILT SURFACE CONTOURS
<b>185</b>	ASBUILT LOTS



REV.	DATE	ITEM
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PROJECT		
<b>CABRA DEVELOPMENTS LTD</b>		
<b>MATUA RESIDENTIAL ESTATE</b>		
<b>HUAPAI</b>		
<b>STAGE 2 ASBUILT</b>		
DRAWING TITLE		
<b>ASBUILT</b>		
<b>CONTOUR</b>		
<b>PLAN</b>		
		<b>R59597</b>
SCALE	DATE	
1:1000 @ A3	FEBRUARY 2015	
DRAWN	DRG No.	
CC	17300AB 2/EW-101	
REV		

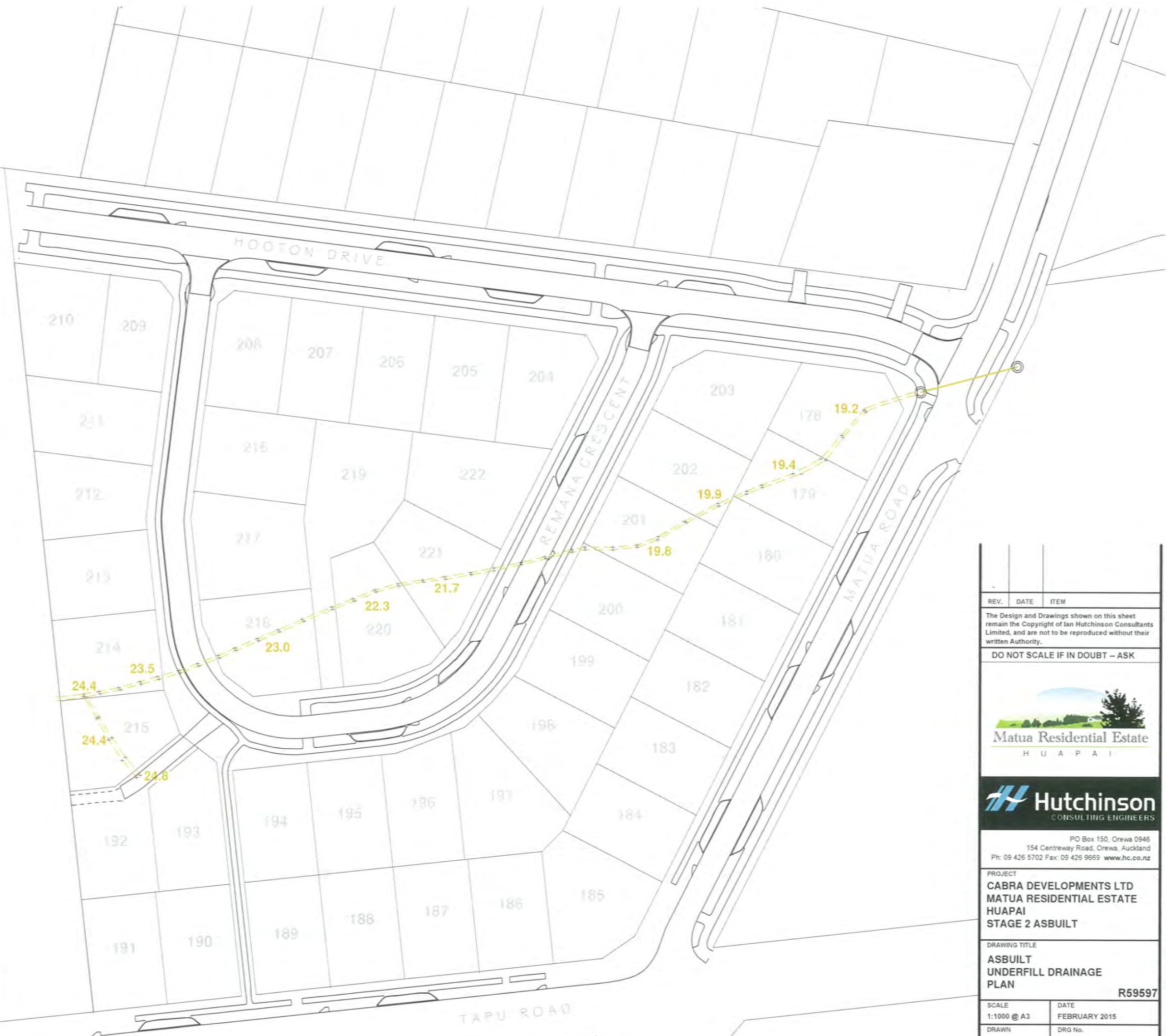




LEGEND	
	CUT CONTOURS
	FILL CONTOURS
VOLUMES	
TOTAL CUT 41,600m <sup>3</sup>	
TOTAL FILL 37,900m <sup>3</sup>	

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DRAWING TITLE <b>ASBUILT            CUT/FILL DEPTH            CONTOURS</b>		
		<b>R59597</b>
SCALE 1:1000 @ A3	DATE FEBRUARY 2015	
DRAWN CC	DRG No.	
REV	17300AB 2/EW-102	

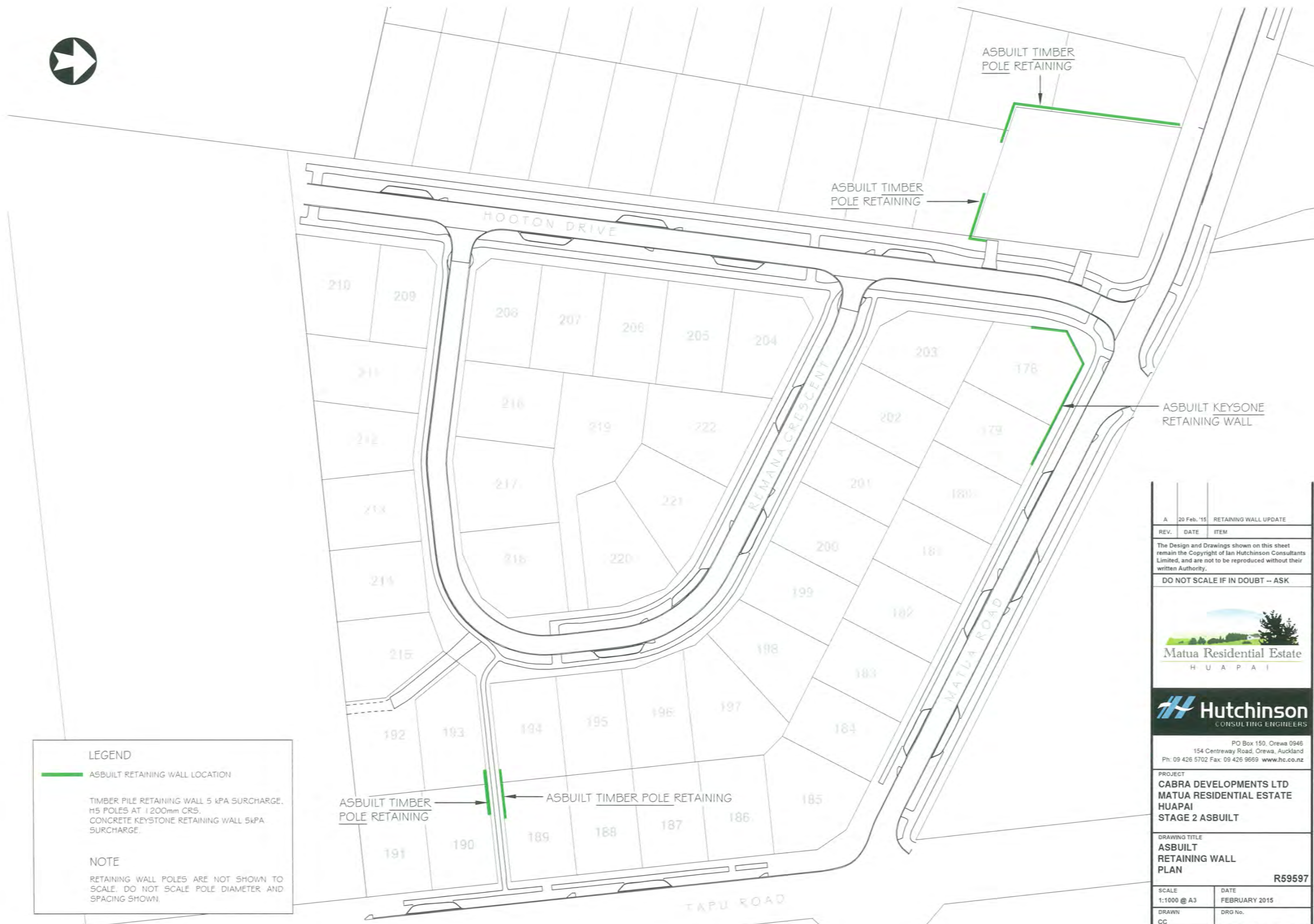




**LEGEND**  
**24.0** ASBUILT UNDERFILL NOVAFLOW DRAINS  
 WITH REDUCED LEVEL AT BASE OF DRAIN

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<b>PROJECT</b> CABRA DEVELOPMENTS LTD MATUA RESIDENTIAL ESTATE HUAPAI STAGE 2 ASBUILT		
<b>DRAWING TITLE</b> ASBUILT UNDERFILL DRAINAGE PLAN <span style="float: right;"><b>R59597</b></span>		
SCALE	DATE	
1:1000 @ A3	FEBRUARY 2015	
DRAWN	DRG No.	
CC	17300AB 2/EW-103	
REV		





**LEGEND**

— ASBUILT RETAINING WALL LOCATION

TIMBER PILE RETAINING WALL 5 kPA SURCHARGE.  
15 POLES AT 1200mm CRS.  
CONCRETE KEYSTONE RETAINING WALL 5kPA SURCHARGE.

**NOTE**

RETAINING WALL POLES ARE NOT SHOWN TO SCALE. DO NOT SCALE POLE DIAMETER AND SPACING SHOWN.

REV.	DATE	ITEM
A	20 Feb. '15	RETAINING WALL UPDATE

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PROJECT  
**CABRA DEVELOPMENTS LTD  
MATUA RESIDENTIAL ESTATE  
HUAPAI  
STAGE 2 ASBUILT**

DRAWING TITLE  
**ASBUILT  
RETAINING WALL  
PLAN**

**R59597**

SCALE	DATE
1:1000 @ A3	FEBRUARY 2015
DRAWN	DRG No.
CC	
REV	<b>17300AB 2/EW-104</b>
A	



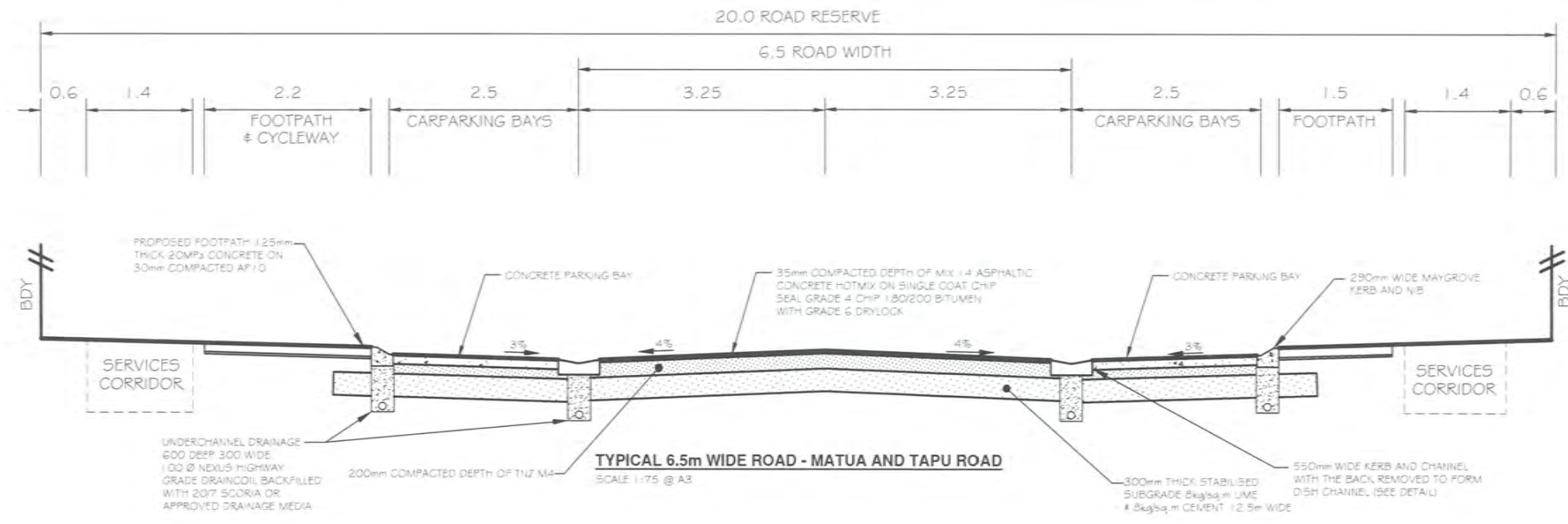
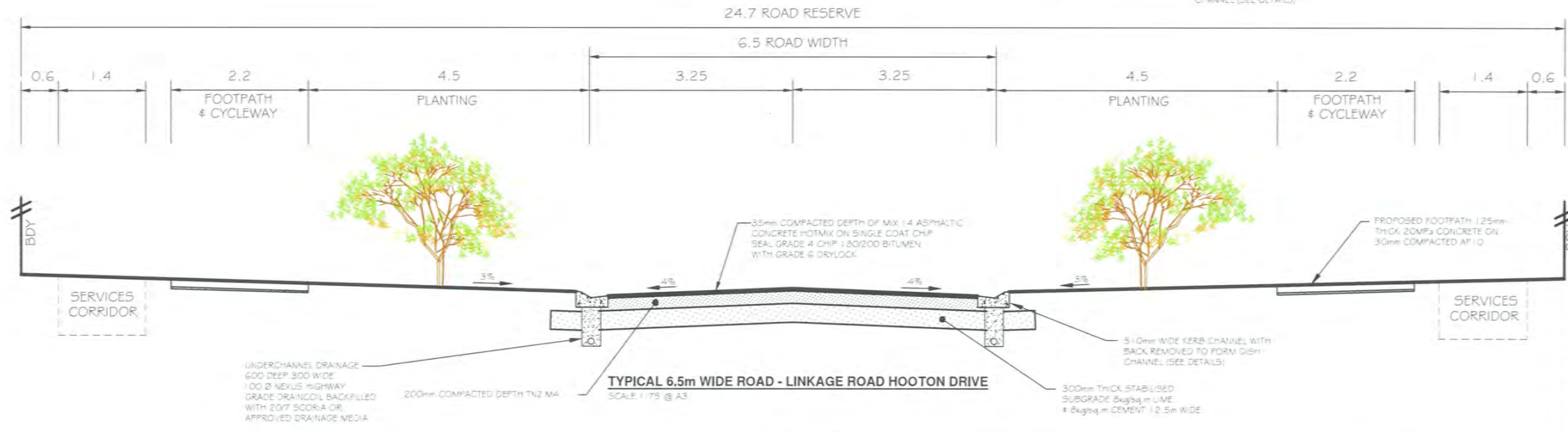
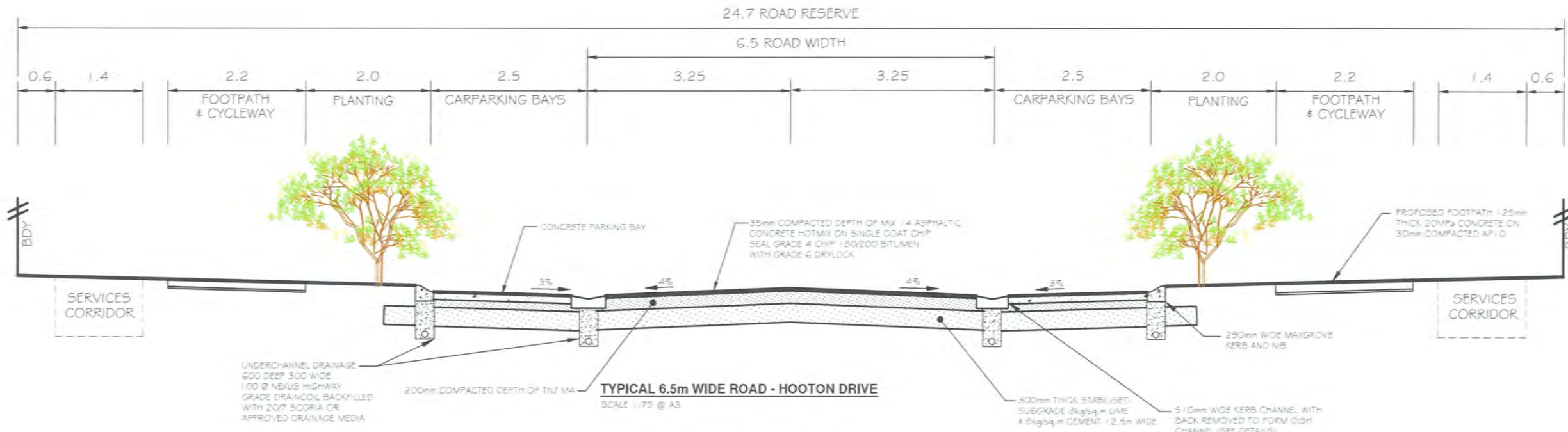


**LEGEND**

	ASBUILT ASPHALTIC CONCRETE 35mm THICK HOTMIX PAVEMENT
	ASBUILT CONCRETE FOOTPATH 125mm THICK 20MPa
	ASBUILT CONCRETE ENTRANCE 200mm THICK 20MPa REINFORCED
	ASBUILT CONCRETE PARKING BAY xxmm THICK 20MPa REINFORCED ???
	EXISTING CONCRETE FOOTPATH
	ASBUILT 2-COAT CHIP SEAL PAVEMENT
	FOOTPATH TO BE CONSTRUCTED
	ASBUILT STREET LIGHT

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DRAWING TITLE <b>ASBUILT            ROADING            PLAN</b>		
		<b>R59597</b>
SCALE 1:1000 @ A3	DATE FEBRUARY 2015	
DRAWN CC	DRG No.	
REV	<b>17300AB 2/RD-201</b>	





REV.	DATE	ITEM

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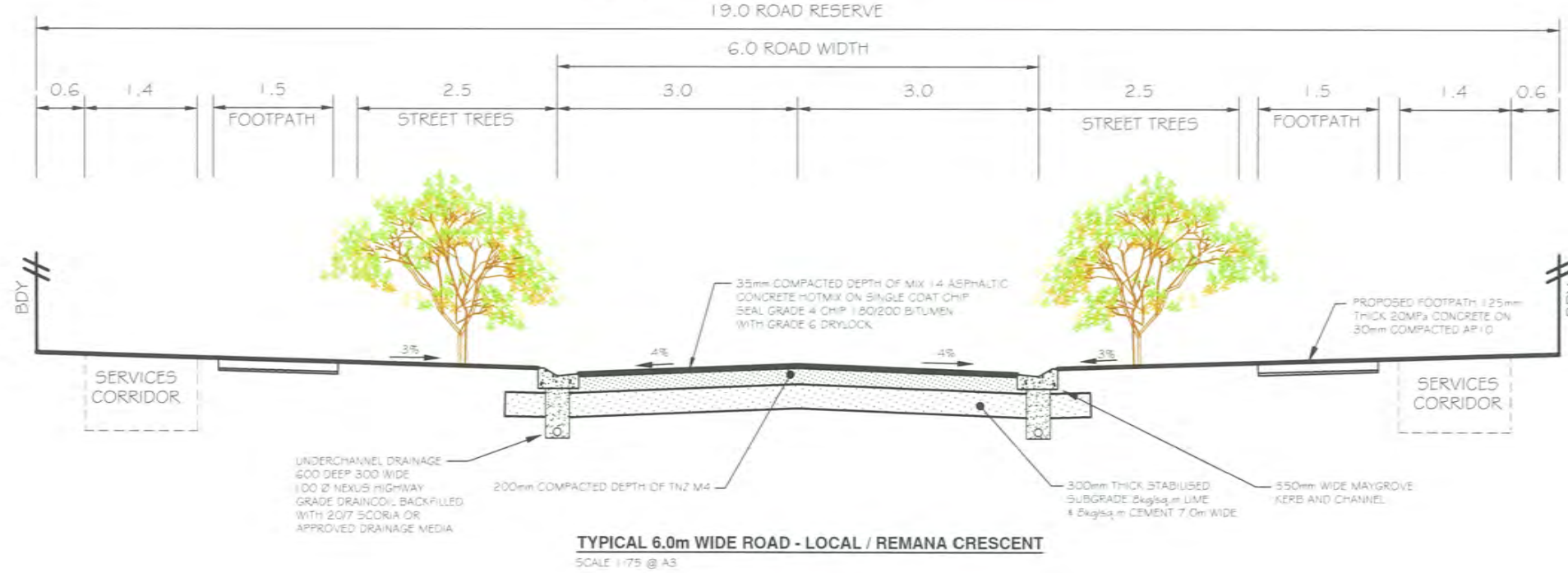
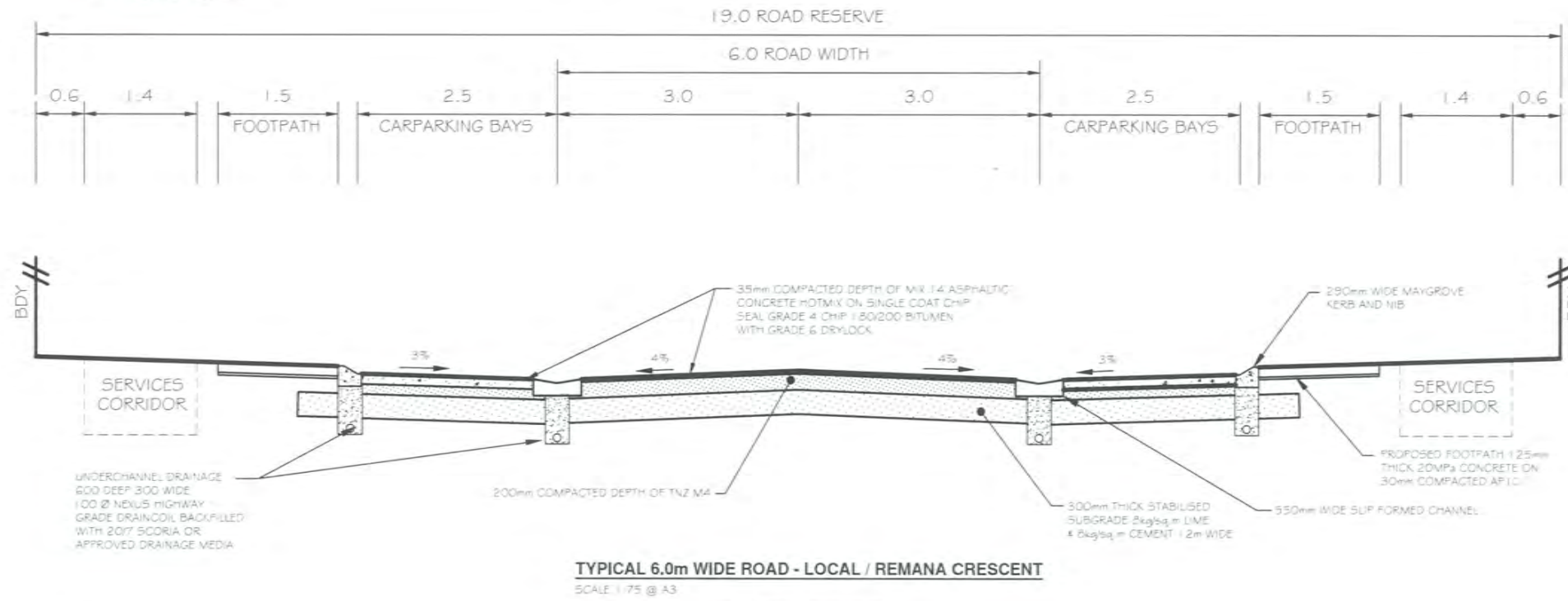
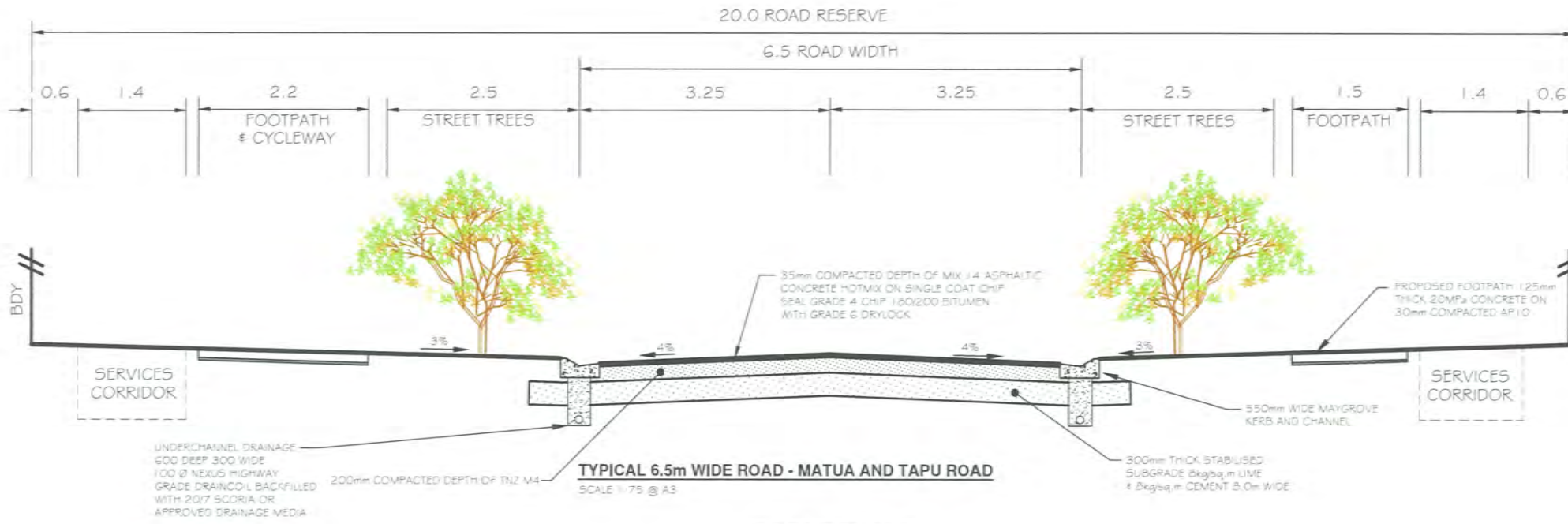
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PROJECT  
**CABRA DEVELOPMENTS LTD  
MATUA RESIDENTIAL ESTATE  
HUAPAI  
STAGE 2 ASBUILT**

DRAWING TITLE  
**TYPICAL ROAD  
CROSS SECTIONS  
(SHEET 1 OF 2)** R59597

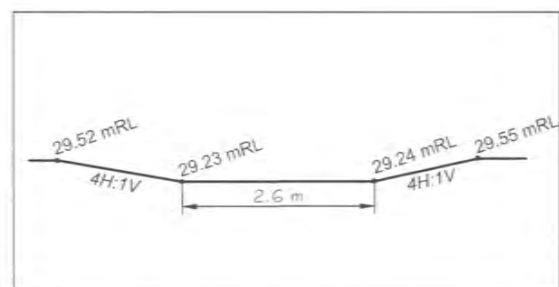
SCALE AS SHOWN	DATE FEBRUARY 2015
DRAWN CC	DRG No.
REV	17300AB 2/RD-202





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PROJECT <b>CABRA DEVELOPMENTS LTD            MATUA RESIDENTIAL ESTATE            HUAPAI            STAGE 2 ASBUILT</b>		
DRAWING TITLE <b>TYPICAL ROAD            CROSS SECTIONS            (SHEET 2 OF 2)</b>		
<b>R59597</b>		
SCALE	DATE	
AS SHOWN	FEBRUARY 2015	
DRAWN	DRG No.	
CC		
REV		<b>17300AB 2/RD-203</b>





SECTION A-A' OPEN DRAIN  
SCALE 1:100A3

**LEGEND**

- ASBUILT STORMWATER LINE
- ASBUILT STORMWATER MANHOLE
- ASBUILT CESSPIT

**NOTE**

ALL CONNECTIONS EXCEPT WHERE NOTED ARE 100mm Ø uPVC SNI 6 BACKFILLED WITH COMPACTED CLAY.

ALL CESSPIT LEADS EXCEPT WHERE NOTED ARE 225mm DIA. RCRRJ.

ALL PIPES ARE CLASS 2 RCRRJ UNLESS OTHERWISE NOTED. ALL PIPES HAVE H2 BEDDING WITH COMPACTED CLAY BACKFILL EXCEPT THOSE CROSSING ROADS OR ROWS WHICH ARE BACKFILLED WITH COMPACTED HARDFILL.

REV.	DATE	ITEM

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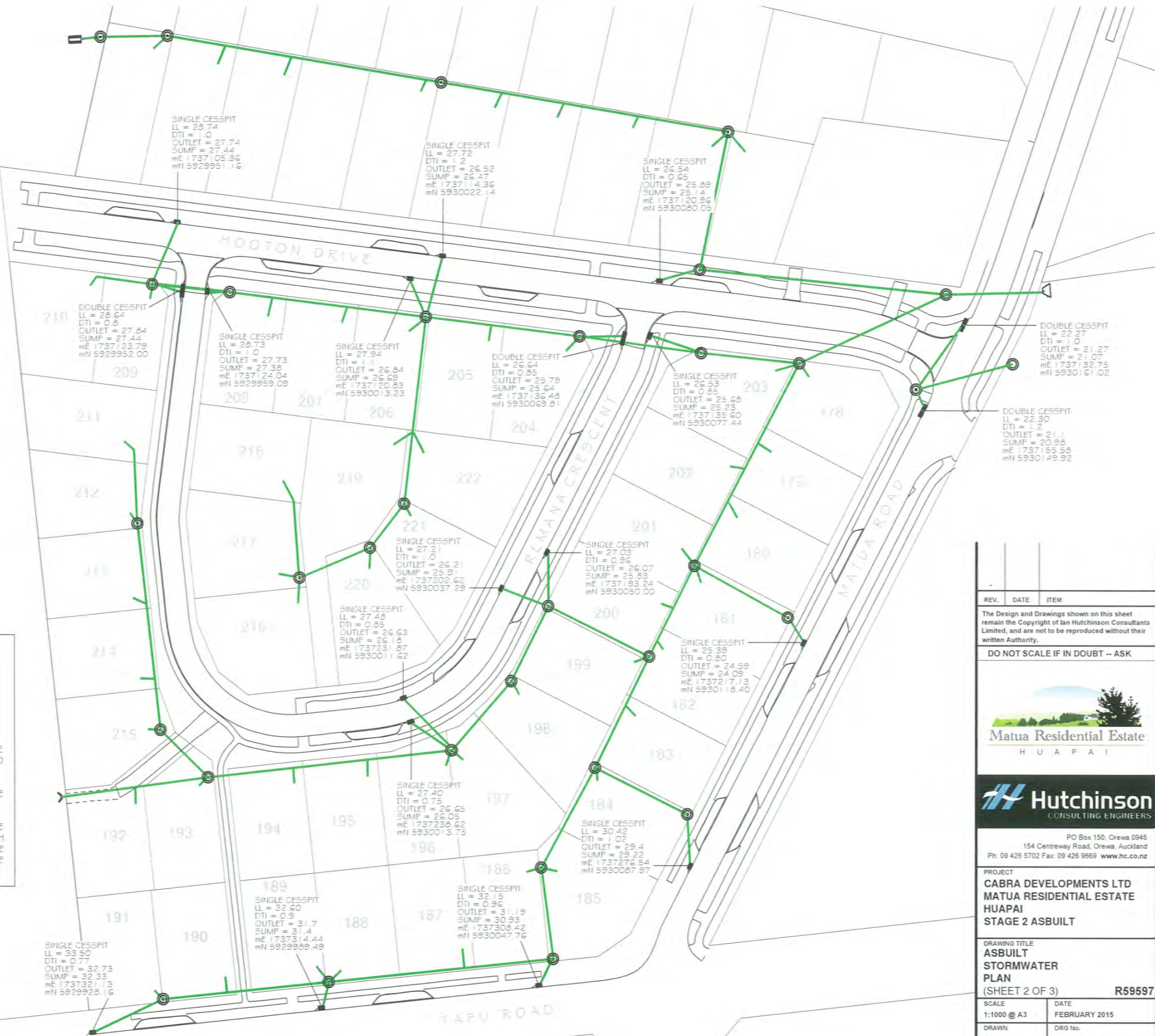
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**PROJECT**  
CABRA DEVELOPMENTS LTD  
MATUA RESIDENTIAL ESTATE  
HUAPAI  
STAGE 2 ASBUILT

**DRAWING TITLE**  
ASBUILT  
STORMWATER  
PLAN  
(SHEET 1 OF 3) **R59597**

SCALE 1:1000 @ A3	DATE FEBRUARY 2015
DRAWN CC	DRG No.
REV	<b>17300AB 2/SW-301</b>





**LEGEND**

- ASBUILT STORMWATER LINE
- ASBUILT STORMWATER MANHOLE
- ASBUILT CESSPIT

**NOTE**

ALL CONNECTIONS EXCEPT WHERE NOTED ARE 100mmØ uPVC S116 BACKFILLED WITH COMPACTED CLAY.

ALL CESSPIT LEADS EXCEPT WHERE NOTED ARE 225mm DIA. RCRRJ.

ALL PIPES ARE CLASS 2 RCRRJ UNLESS OTHERWISE NOTED. ALL PIPES HAVE H2 BEDDING WITH COMPACTED CLAY BACKFILL EXCEPT THOSE CROSSING ROADS OR ROWS WHICH ARE BACKFILLED WITH COMPACTED HARDFILL.

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<b>PROJECT</b> CABRA DEVELOPMENTS LTD MATUA RESIDENTIAL ESTATE HUAPAI STAGE 2 ASBUILT		
<b>DRAWING TITLE</b> ASBUILT STORMWATER PLAN (SHEET 2 OF 3)		<b>R59597</b>
SCALE	DATE	
1:1000 @ A3	FEBRUARY 2015	
DRAWN	DRG No.	
CC	17300AB 2/SW-302	
REV		





**LEGEND**

- ASBUILT STORMWATER LINE
- ASBUILT STORMWATER MANHOLE
- ASBUILT CESSPIT
- 13.8 DISTANCE FROM DOWNSTREAM MH TO LOT CONNECTION

**NOTE**

ALL CONNECTIONS EXCEPT WHERE NOTED ARE 100mmØ uPVC SNI 6 BACKFILLED WITH COMPACTED CLAY.

ALL CESSPIT LEADS EXCEPT WHERE NOTED ARE 225mm DIA. RCRRJ.

ALL PIPES ARE CLASS 2 RCRRJ UNLESS OTHERWISE NOTED. ALL PIPES HAVE M2 BEDDING WITH COMPACTED CLAY BACKFILL EXCEPT THOSE CROSSING ROADS OR ROWS WHICH ARE BACKFILLED WITH COMPACTED HARDFILL.

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<p>PROJECT <b>CABRA DEVELOPMENTS LTD MATUA RESIDENTIAL ESTATE HUAPAI STAGE 2 ASBUILT</b></p>		
<p>DRAWING TITLE <b>ASBUILT STORMWATER PLAN (SHEET 3 OF 3)</b></p>		<p><b>R59597</b></p>
SCALE 1:1000 @ A3	DATE FEBRUARY 2015	
DRAWN CC	DRG No.	
REV		17300AB 2/SW-303





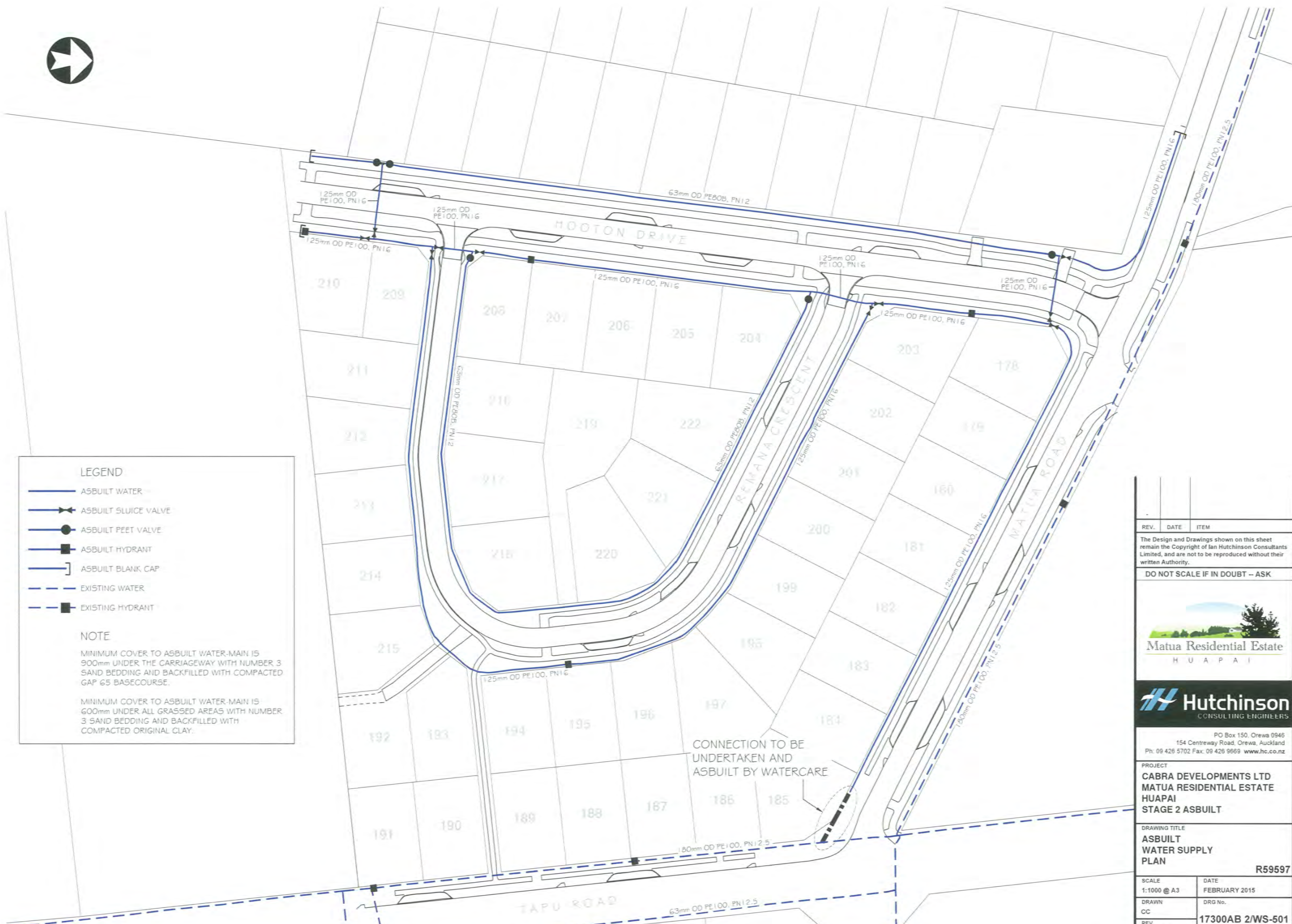
LEGEND	
	ASBUILT 50mm OD (PE100PN16) WASTEWATER LINE
	ASBUILT 63mm OD (PE100PN16) WASTEWATER LINE
	ASBUILT 75mm OD (PE100PN16) WASTEWATER LINE
	EXISTING WASTEWATER LINE
	ASBUILT REDUCER
	ASBUILT PEET VALVE
	ASBUILT FLUSHING POINT
	ASBUILT BOUNDARY KIT

CONNECTION TO EXISTING SEWER TO BE COMPLETED AND ASBUILT BY WATERCARE



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DRAWING TITLE <b>ASBUILT            WASTEWATER            PLAN</b>		
<b>R59597</b>		
SCALE 1:1000 @ A3	DATE FEBRUARY 2015	
DRAWN CC	DRG No.	
REV	<b>17300AB 2/WW-401</b>	





**LEGEND**

- ASBUILT WATER
- ASBUILT SLUICE VALVE
- ASBUILT PEET VALVE
- ASBUILT HYDRANT
- ASBUILT BLANK CAP
- EXISTING WATER
- EXISTING HYDRANT

**NOTE**

MINIMUM COVER TO ASBUILT WATER-MAIN IS 900mm UNDER THE CARRIAGEWAY WITH NUMBER 3 SAND BEDDING AND BACKFILLED WITH COMPACTED GAP 65 BASECOURSE.

MINIMUM COVER TO ASBUILT WATER-MAIN IS 600mm UNDER ALL GRASSED AREAS WITH NUMBER 3 SAND BEDDING AND BACKFILLED WITH COMPACTED ORIGINAL CLAY.

CONNECTION TO BE UNDERTAKEN AND ASBUILT BY WATERCARE

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<b>DRAWING TITLE</b> ASBUILT WATER SUPPLY PLAN		
<b>R59597</b>		
SCALE 1:1000 @ A3	DATE FEBRUARY 2015	
DRAWN CC	DRG No.	
REV	17300AB 2/WS-501	





KEY MAP  
NOT TO SCALE



DETAIL 1  
TIMBER POLE RETAINING WALL  
SCALE 1:500



DETAIL 2  
KEY STONE RETAINING WALL  
SCALE 1:500

**LEGEND**

CONSENT NOTICE AREA

RETAINING WALL HEIGHT

**NOTE**

THE CONSENT NOTICE AREA INDICATES THE LOCATION AND EXTENT OF ZONES OF INFLUENCE OF TIMBER POLE AND CONCRETE BLOCK RETAINING WALLS. BUILDING OR EARTHWORKS WITHIN THIS ZONE WILL REQUIRE SPECIFIC ENGINEERING DESIGN.

RETAINING WALL POLES ARE NOT SHOWN TO SCALE. DO NOT SCALE POLE DIAMETER AND SPACING SHOWN.

A	20 Feb. '15	LEADING EDGE PILE ZONE
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DRAWING TITLE		
ASBUILT RETAINING WALL CONSENT NOTICE AREA R59597		
SCALE	DATE	
AS SHOWN IN A3	FEBRUARY 2015	
DRAWN	DRG No.	
CC	17300AB 2/CN-601	
REV	A	









LEGEND	
	CONSENT NOTICE AREA
	LEADING EDGE PILE ZONE
	32.0 ASBUILT SURFACE CONTOURS
	TOP OF BATTER
	TOE OF BATTER

REV.	DATE	ITEM
A	20 Feb. '15	LEADING EDGE PILE ZONE
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<p>PROJECT CABRA DEVELOPMENTS LTD MATUA RESIDENTIAL ESTATE HUAPAI STAGE 2 ASBUILT</p>		
<p>DRAWING TITLE ASBUILT BATTER CONSENT NOTICE AREA R59597</p>		
SCALE	DATE	
1:1000 @ A3	FEBRUARY 2015	
DRAWN	DRG No.	
CC		
REV	17300AB 2/CN-603	
A		