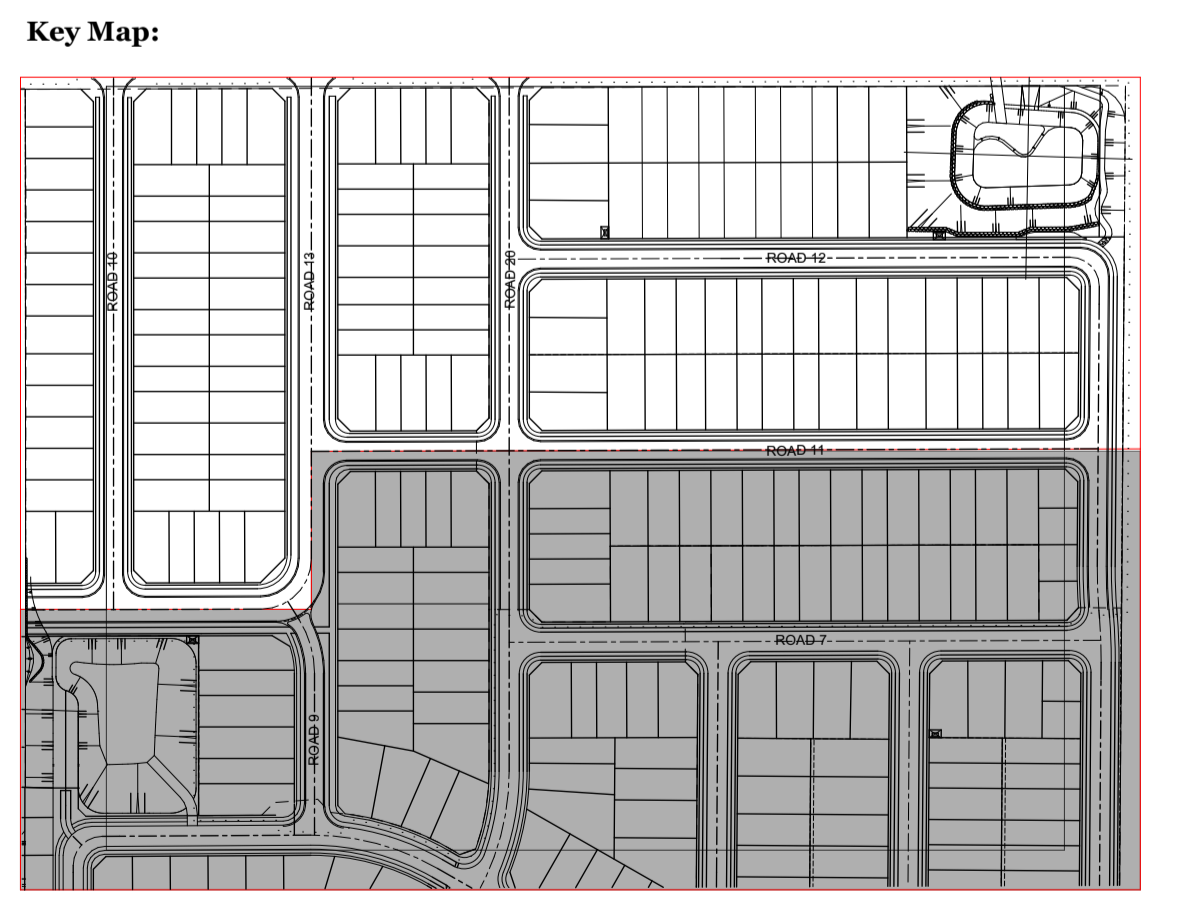
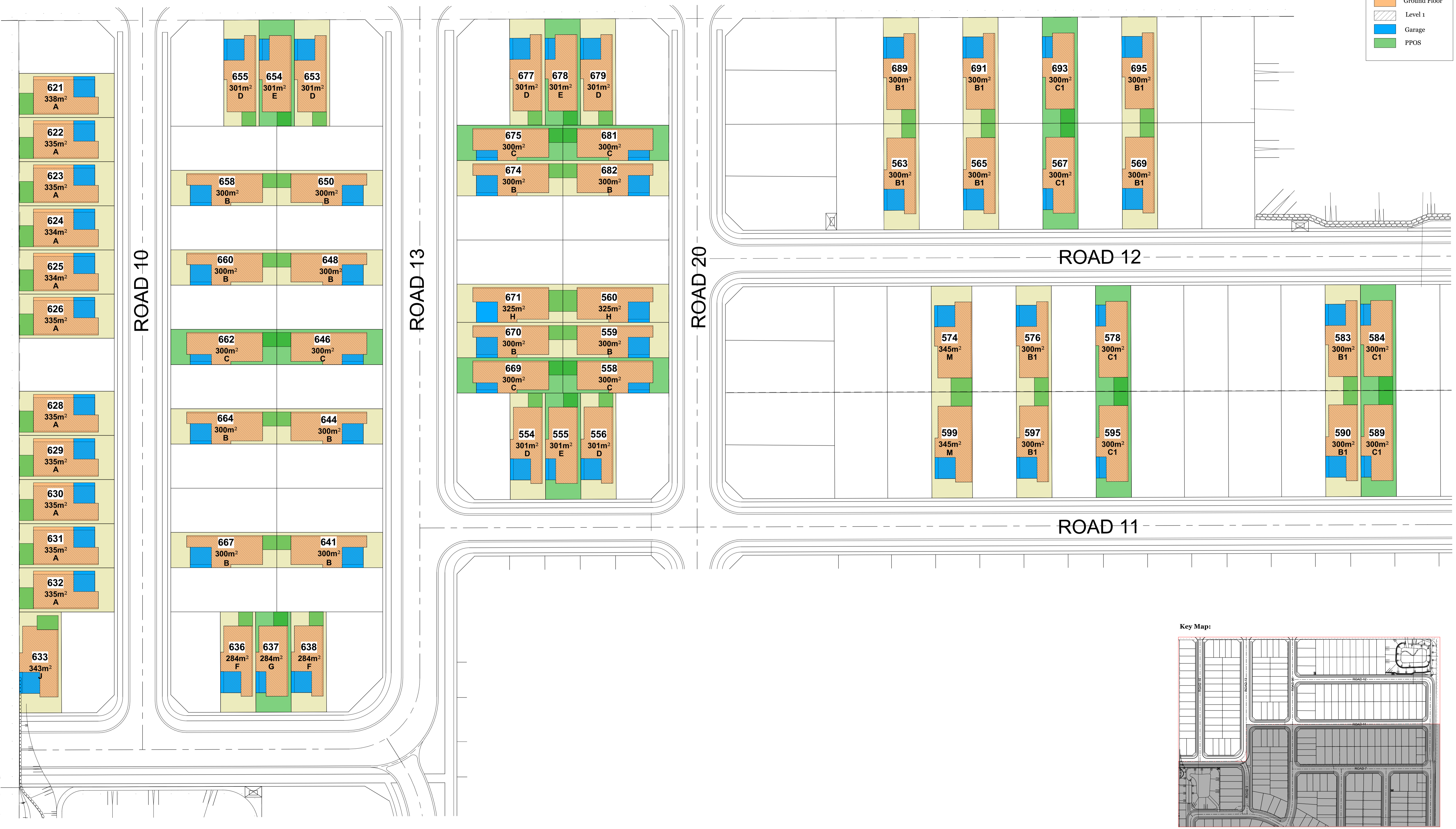


- Legend:**
- Single Garage
 - Double Garage
 - 599** Lot No
 - Lot Area
 - Ground Floor
 - Level 1
 - Garage
 - PPOS

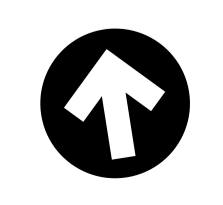


DRAFT

Builder/Contractor shall verify job dimensions before any job commences.
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Rev.	Date	By	Ckd	Description	Rev.	Date	By	Ckd	Description	Consultants

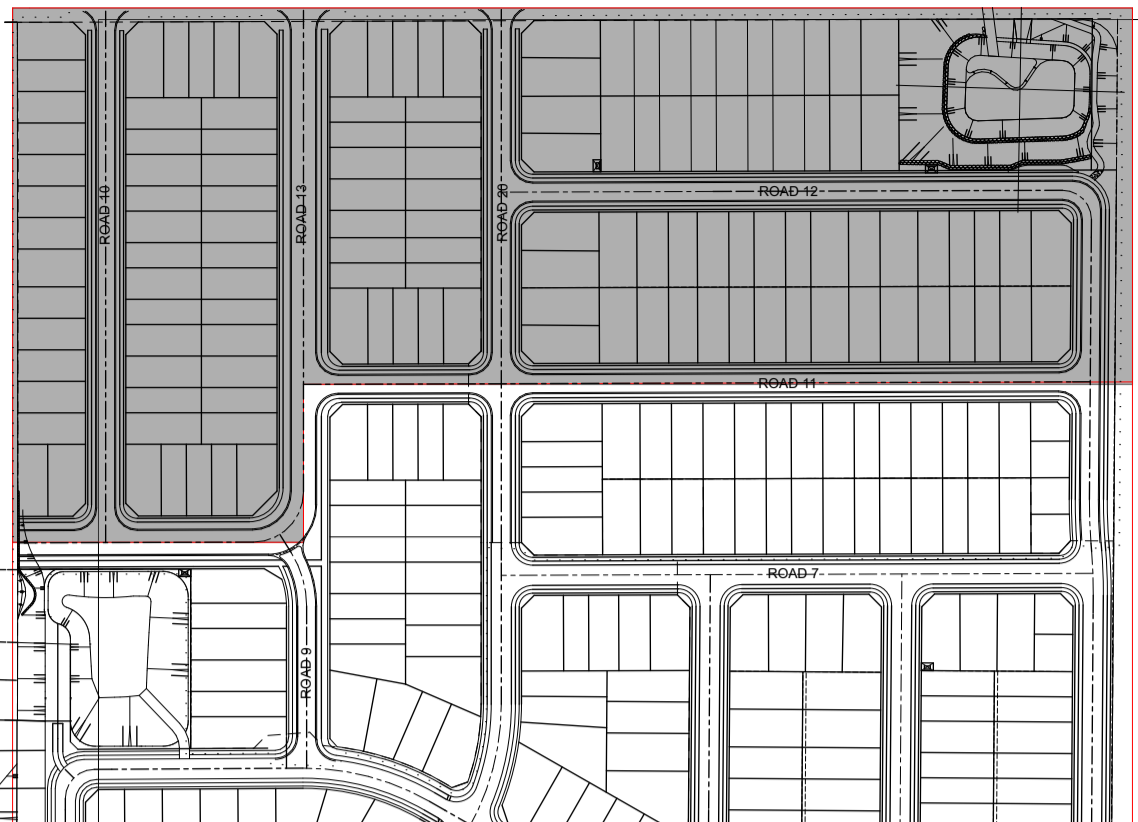


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 David Anderson 8542



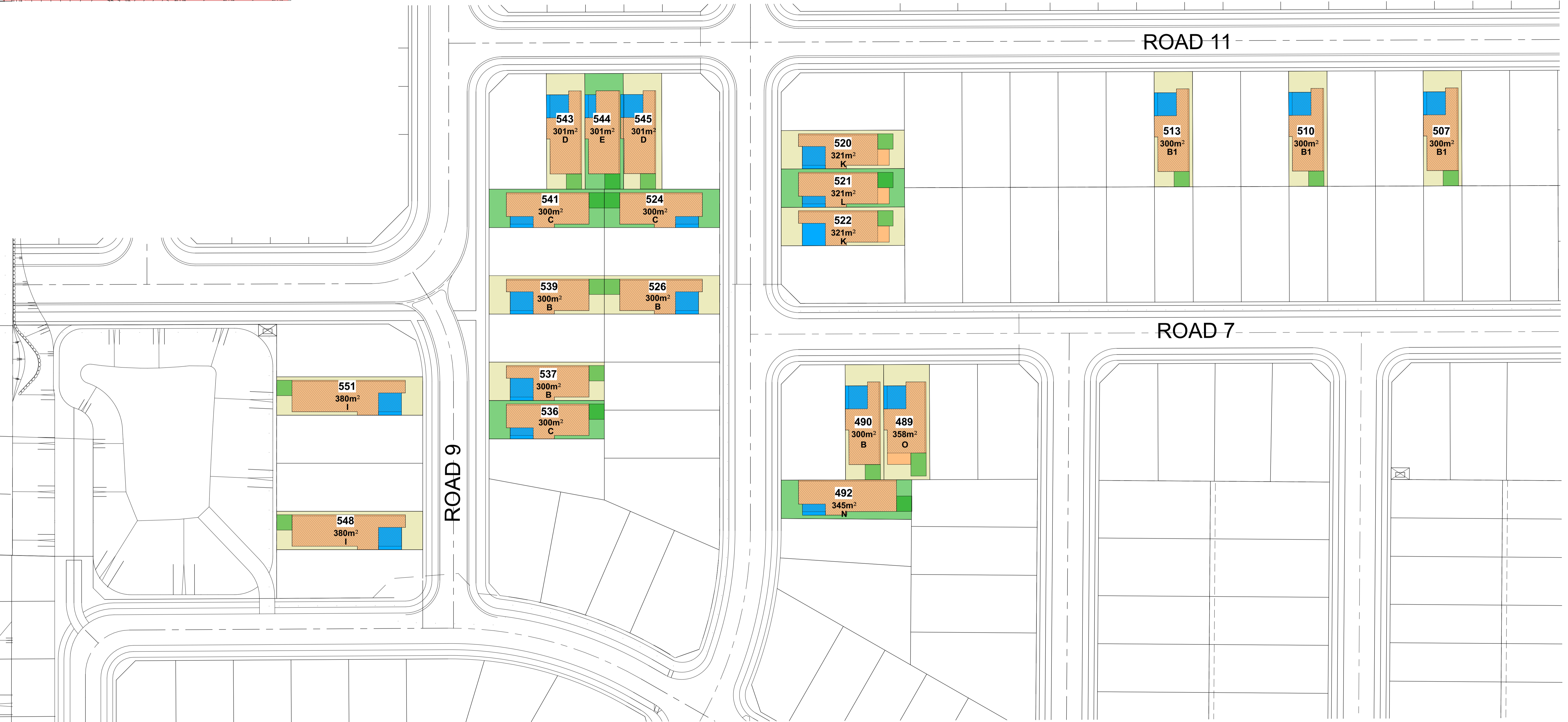
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Project Address	O'Connell Street, Caddens,	Drawing Number	DA2000
Drawn By	MOE, SK	Revision	A
Checked By			
Date	02/02/2017		
Scale	1:500 @ A1		

Key Map:



Legend:

- Single Garage
- Double Garage
- 599** Lot No
- Lot Area
- Ground Floor
- Level 1
- Garage
- PPOS



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Builder/Contractor shall verify job dimensions before any job commences.
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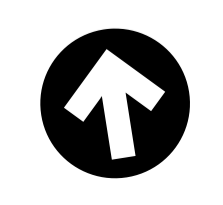
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Rev.	Date	By	Ckd	Description

Consultants

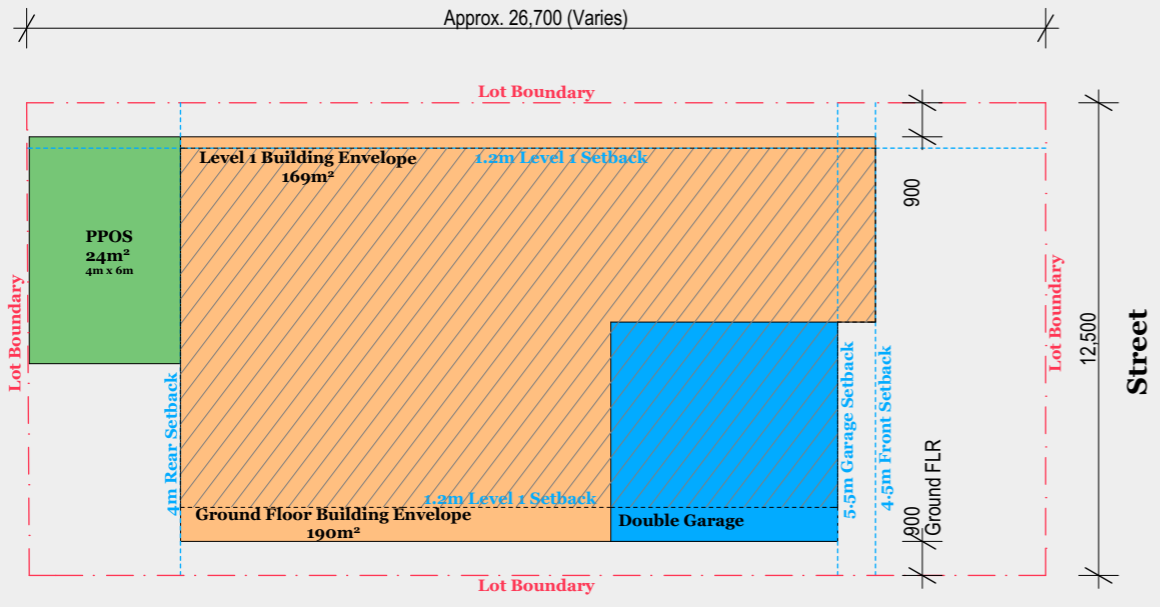


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Project Number	11494	Drawing Name	BEP MASTERPLAN
Project Address	O'Connell Street, Caddens,	Drawing Number	DA2001
Drawn By	MOE, SK	Revision	A
Checked By			
Date	02/02/2017		
Scale	1:500 @ A1		

Type A



Legend:

- - - Site Boundary
- - - Setback Lines
- Ground Floor Building Envelope
- Level 1 Building Envelope
- Garage
- Principal Private Open Space

Lot Type	Garage	Lot Size	Lot No.	Mirrored Lot No.
A	Double	334-336 sqm	621, 622, 623, 624, 625, 626, 628, 629, 630, 631 & 632	N/A

DRAFT

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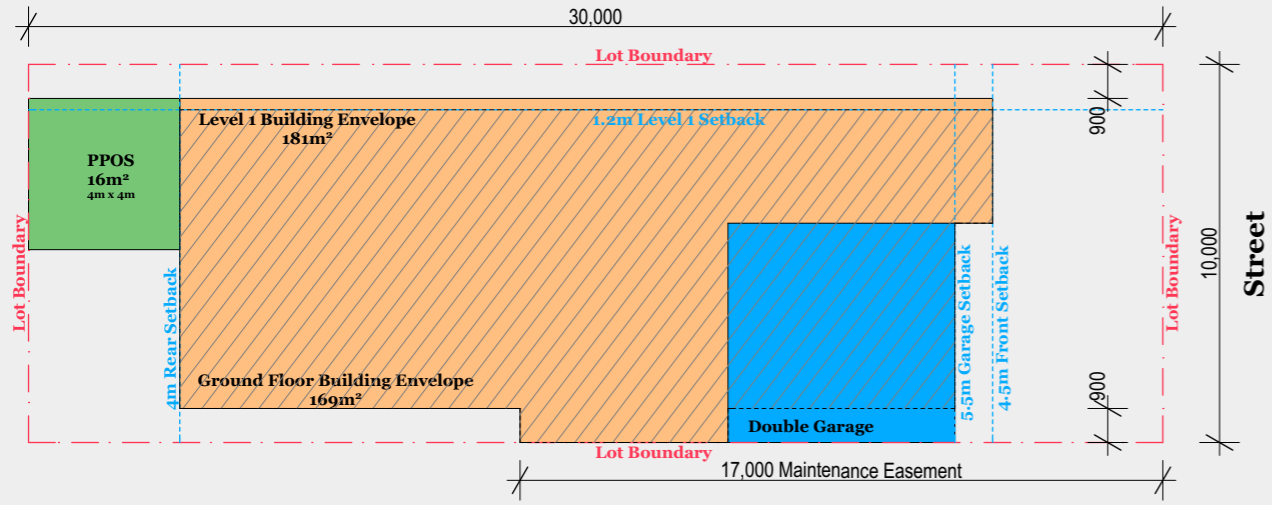
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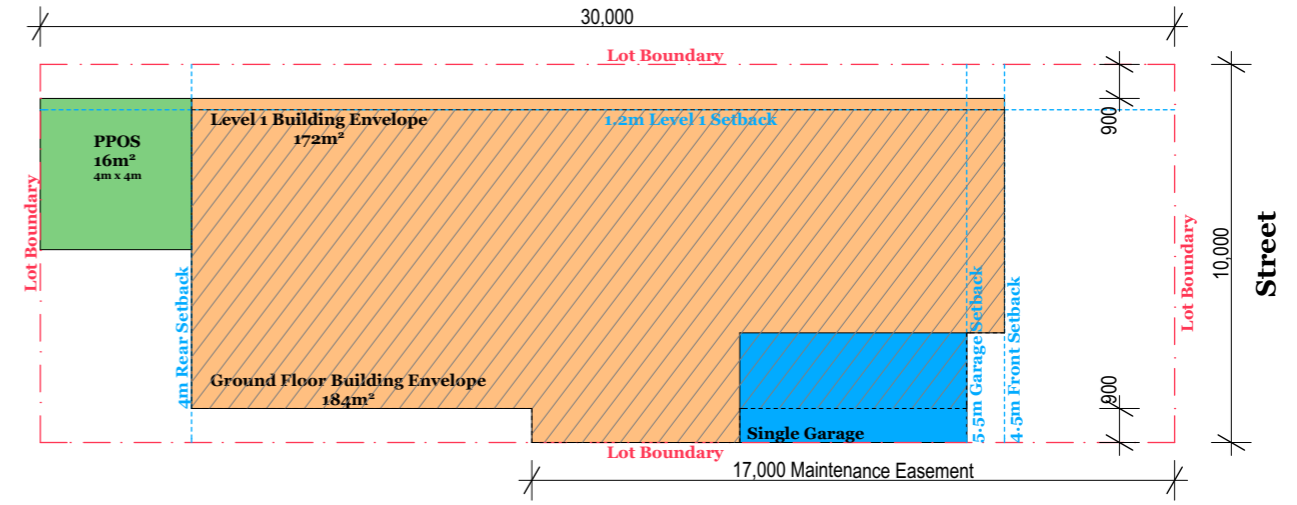
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 Date 02/02/2017
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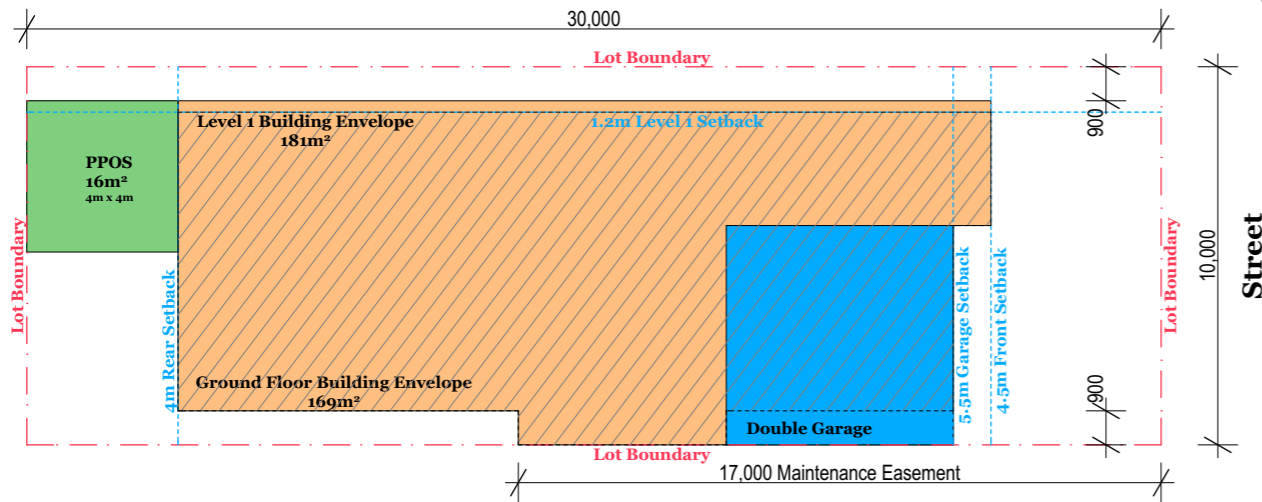
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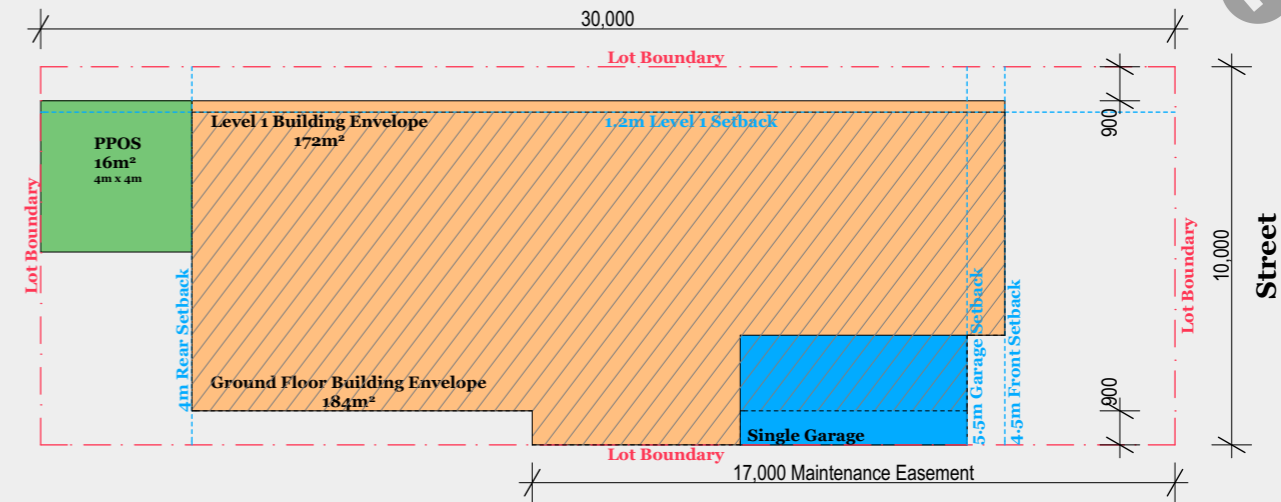
Type C



Type B1



Type C1



Legend:

- Site Boundary
- Setback Lines
- Ground Floor Building Envelope
- Level 1 Building Envelope
- Garage
- Principal Private Open Space

Lot Type	Garage	Lot Size	Lot No.	Mirrored Lot No.
B	Double on Southern Boundary	300 sqm	526, 559, 641, 644, 648, 650 & 682	537, 539, 658, 660, 664, 667, 670 & 674
B1	Double on Western Boundary		563, 565, 569, 590 & 597	490, 507, 510, 513, 583, 576, 689, 691 & 695
C	Single on Southern Boundary		524, 558, 646 & 681	536, 541, 662, 675 & 669
C1	Single on Western Boundary		567, 589 & 595	578, 584 & 693

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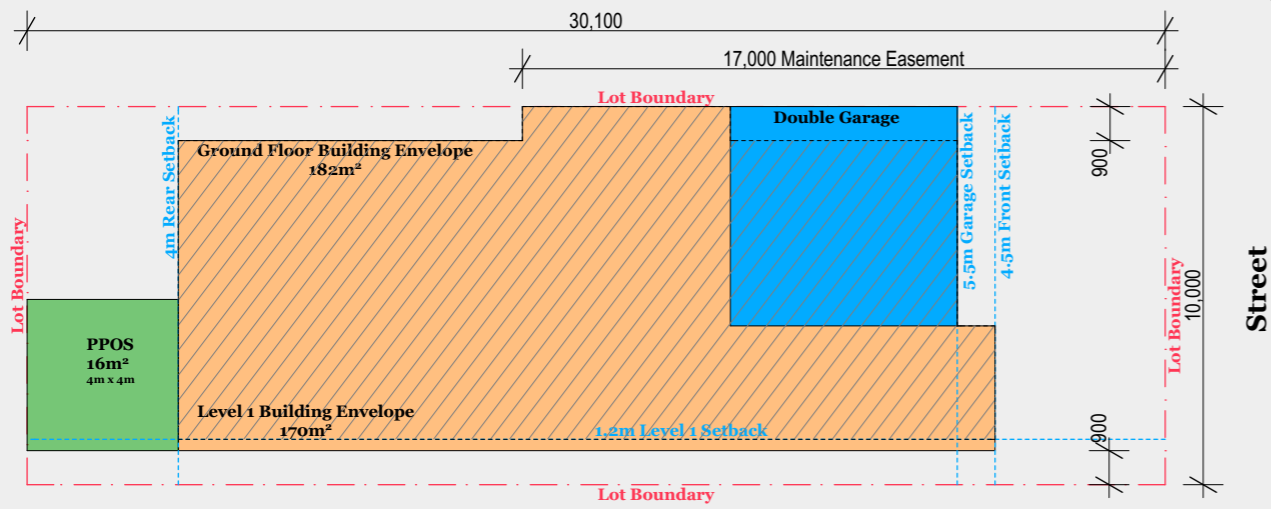
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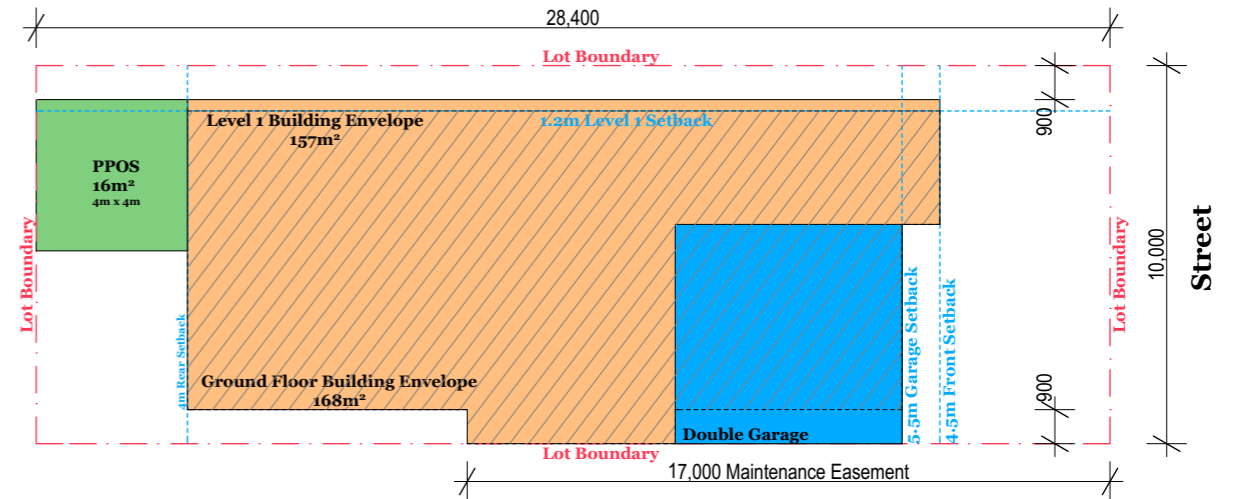
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Revision A

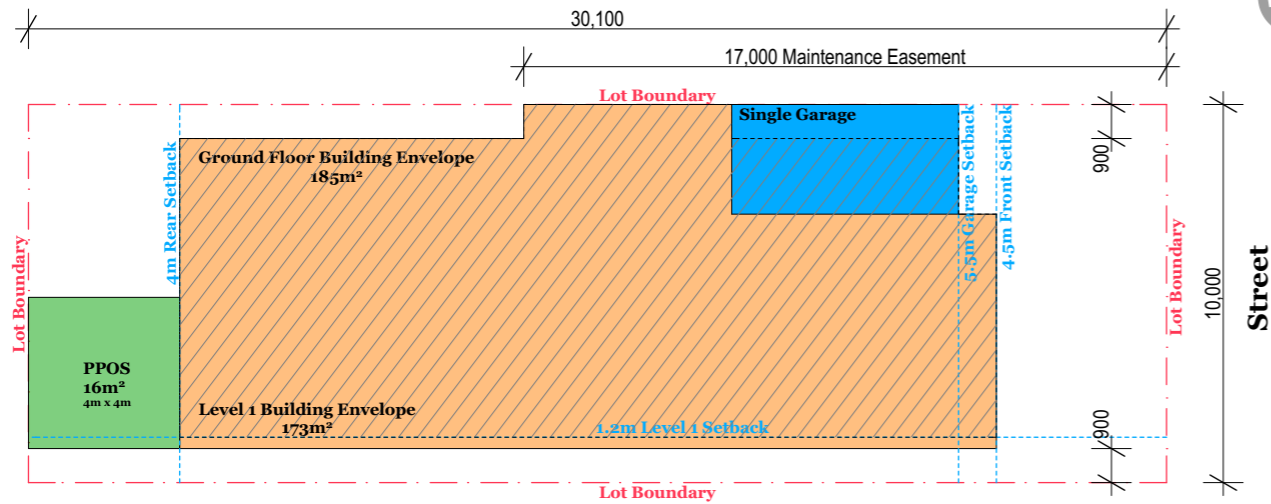
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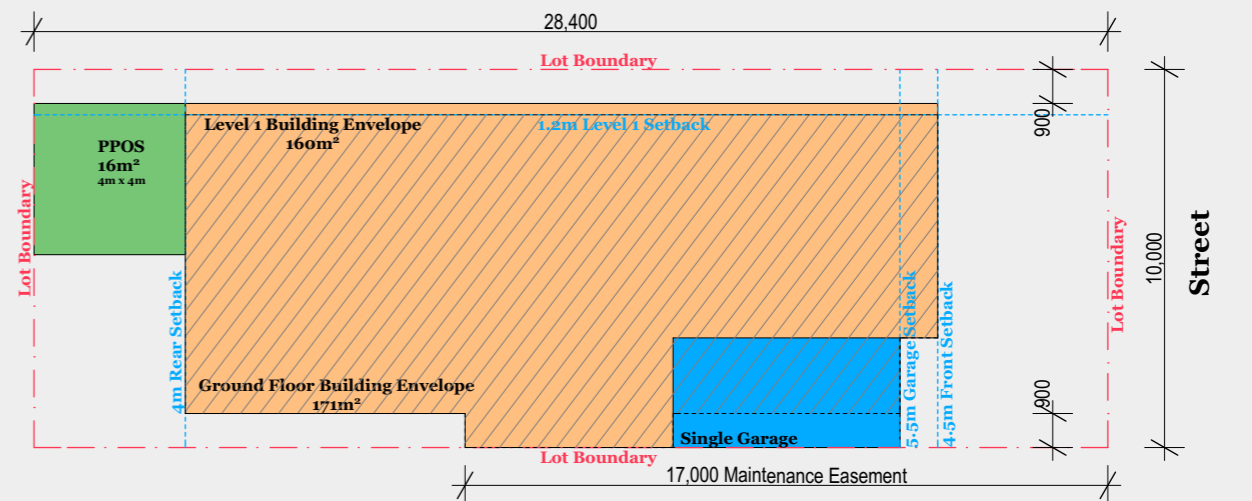
Type F



Type E



Type G



Legend:

- Site Boundary
- Setback Lines
- Ground Floor Building Envelope
- Level 1 Building Envelope
- Garage
- Principal Private Open Space

Lot Type	Garage	Lot Size	Lot No.	Mirrored Lot No.
D	Double	301 sqm	543, 545, 653, 655, 677 & 679	554 & 556
E	Single		544, 654 & 678	555
F	Double	284 sqm	636 & 638	N/A
G	Single		637	

DRAFT

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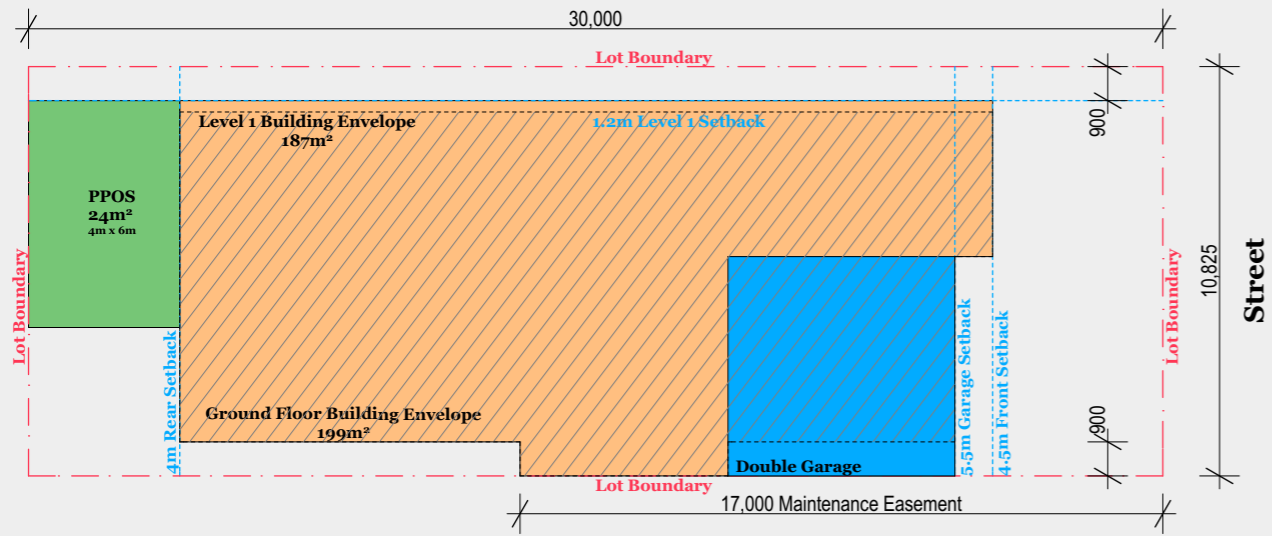
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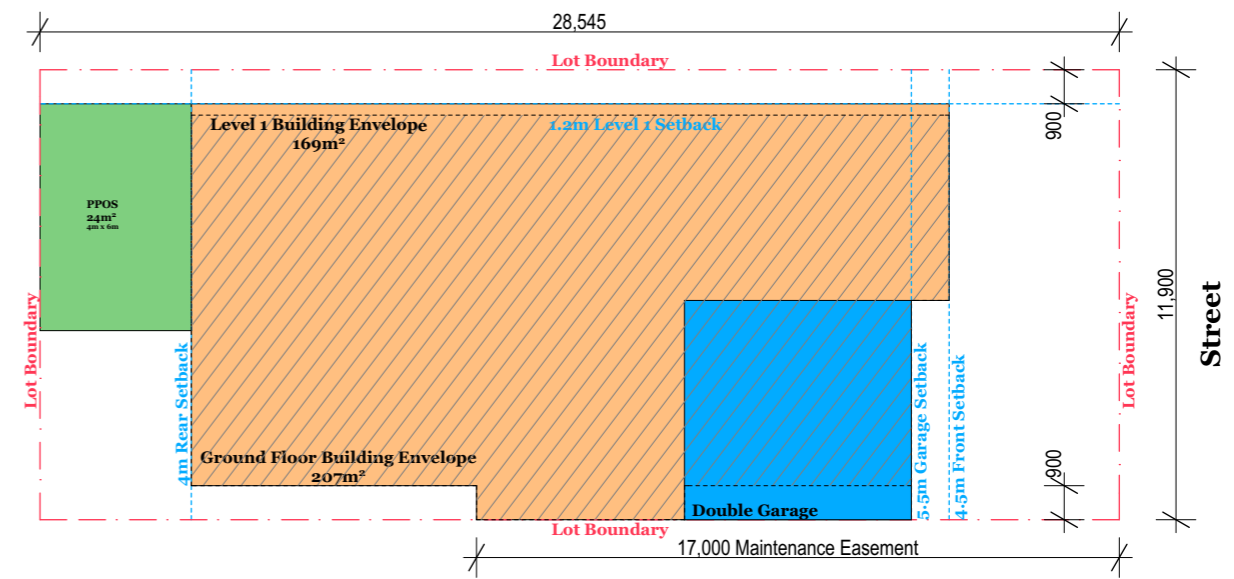
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 Revision A

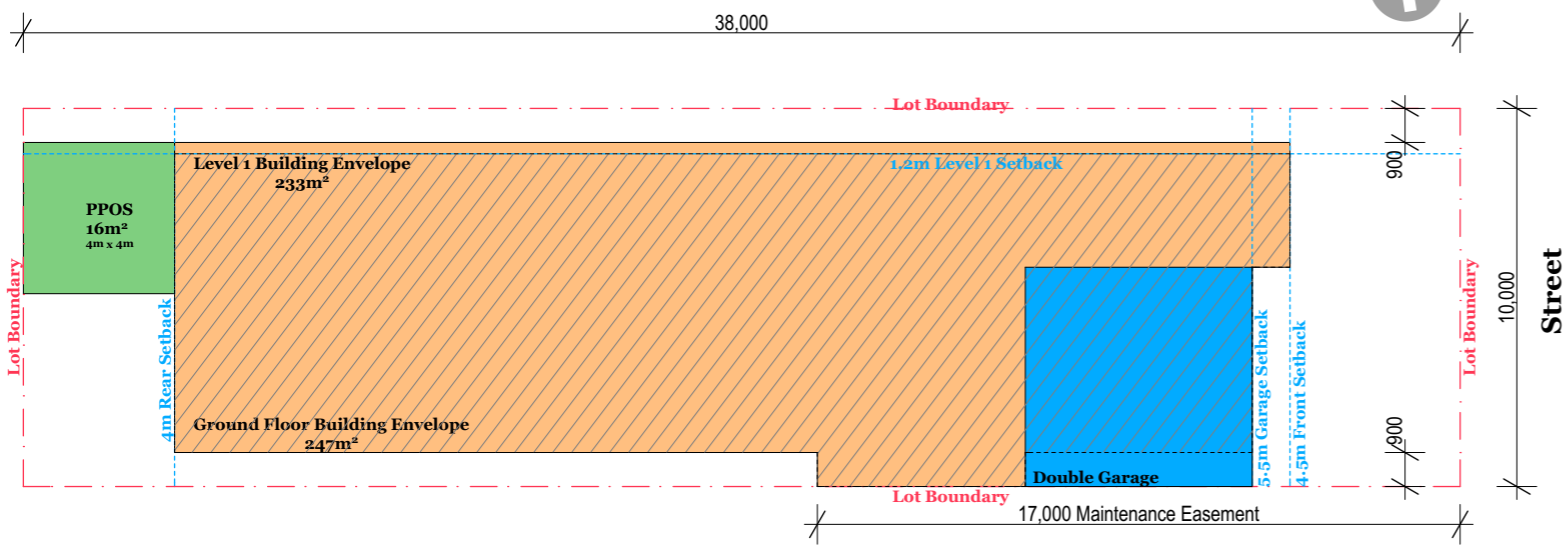
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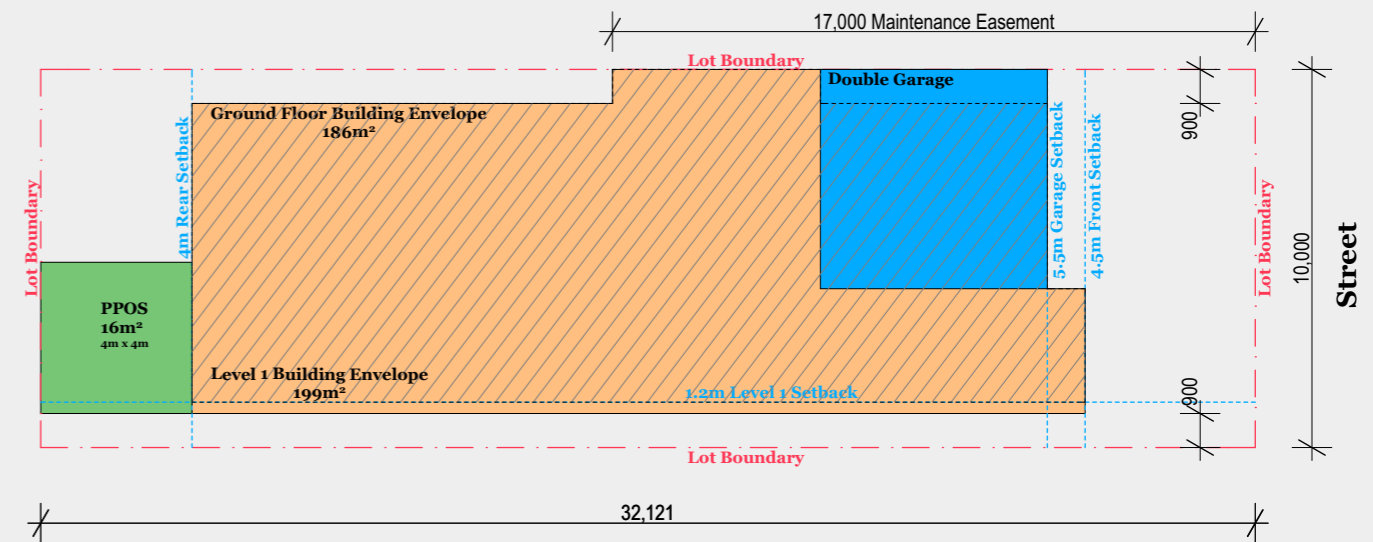
Type J



Type I



Type K



Legend:

- Site Boundary
- Setback Lines
- Ground Floor Building Envelope
- Level 1 Building Envelope
- Garage
- Principal Private Open Space

Lot Type	Garage	Lot Size	Lot No.	Mirrored Lot No.
H	Double	325 sqm	560	671
I	Single	380 sqm	551 & 548	N/A
J	Double	343 sqm	633	
K	Double	321 sqm	520 & 522	

DRAFT

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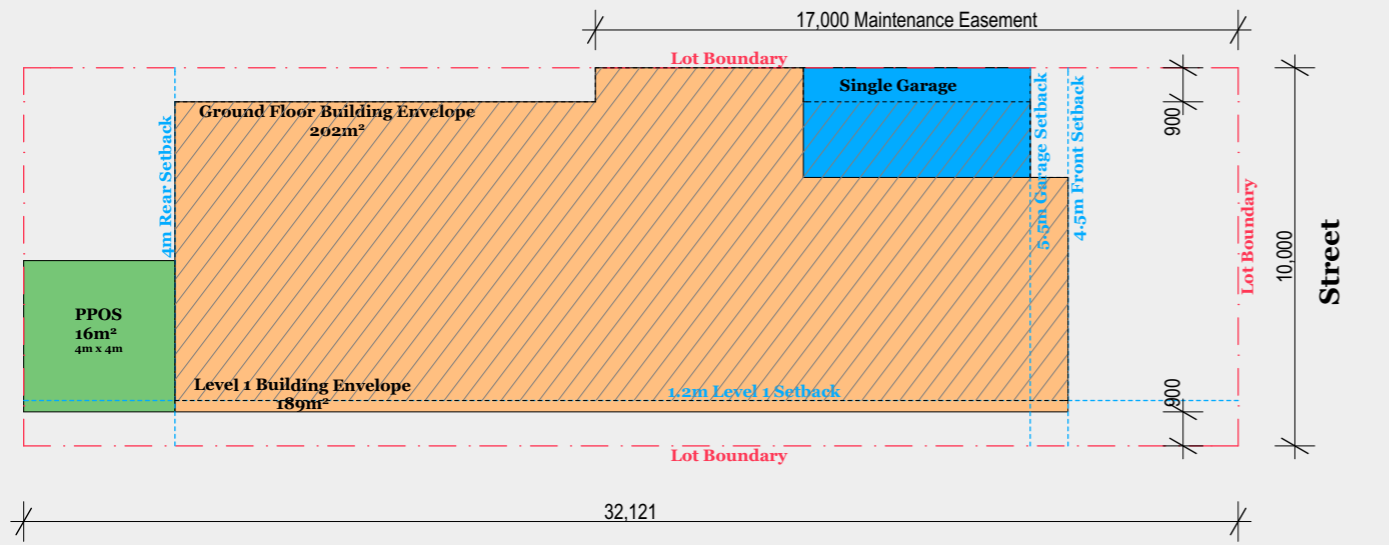
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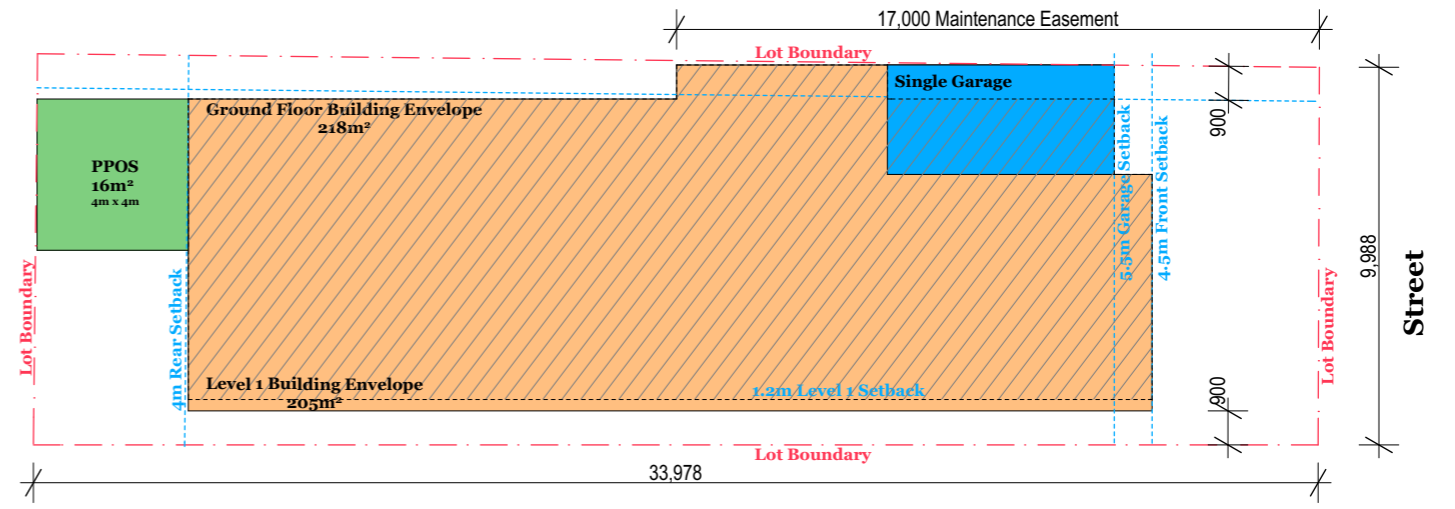
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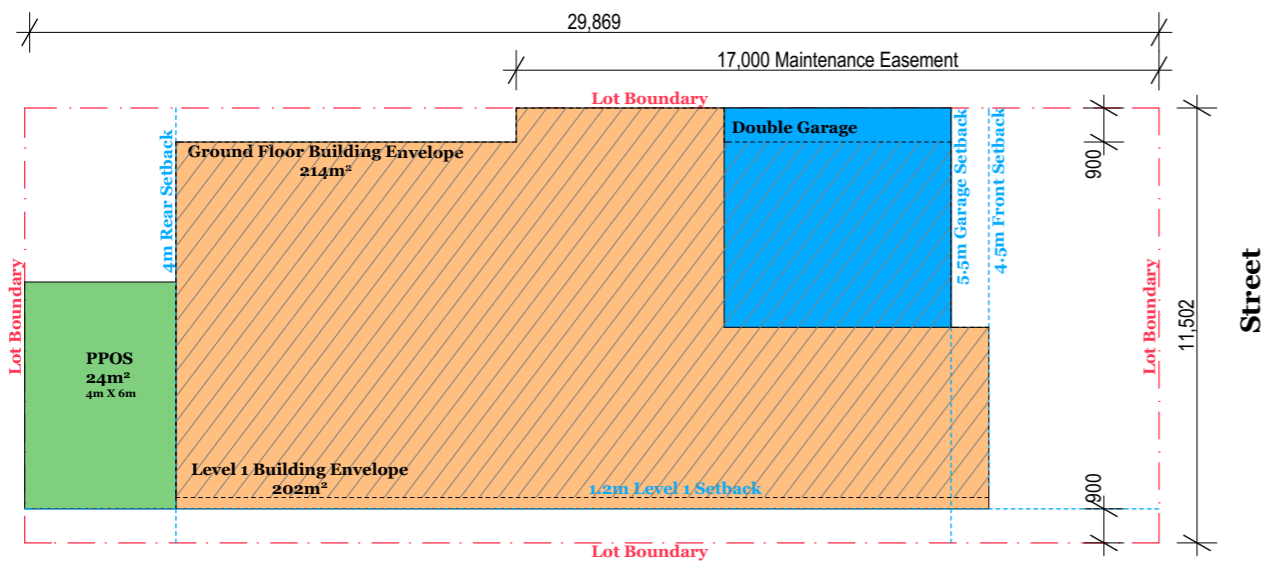
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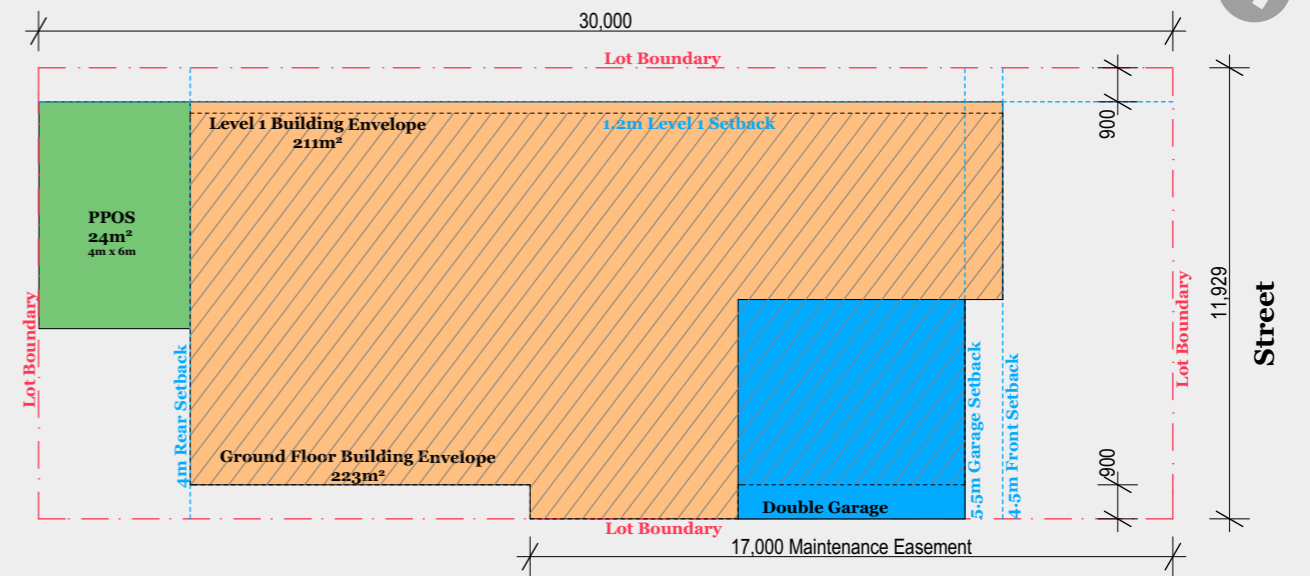
Type N



Type M



Type O



Legend:

- Site Boundary
- Setback Lines
- Ground Floor Building Envelope
- Level 1 Building Envelope
- Garage
- Principal Private Open Space

Lot Type	Garage	Lot Size	Lot No.	Mirrored Lot No.
L	Single	321 sqm	521	N/A
M	Double	345 sqm	599	574
N	Single	345 sqm	492	N/A
O	Double	334-336 sqm	489	

DRAFT

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Project Number 11494
 Project Address O'Connell Steet, Caddens,
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 Date 02/02/2017
 Checked
 Scale 1:200 @ A3

Drawing Name Type L, M, N & O Lots BEP
 Drawing Number DA2006
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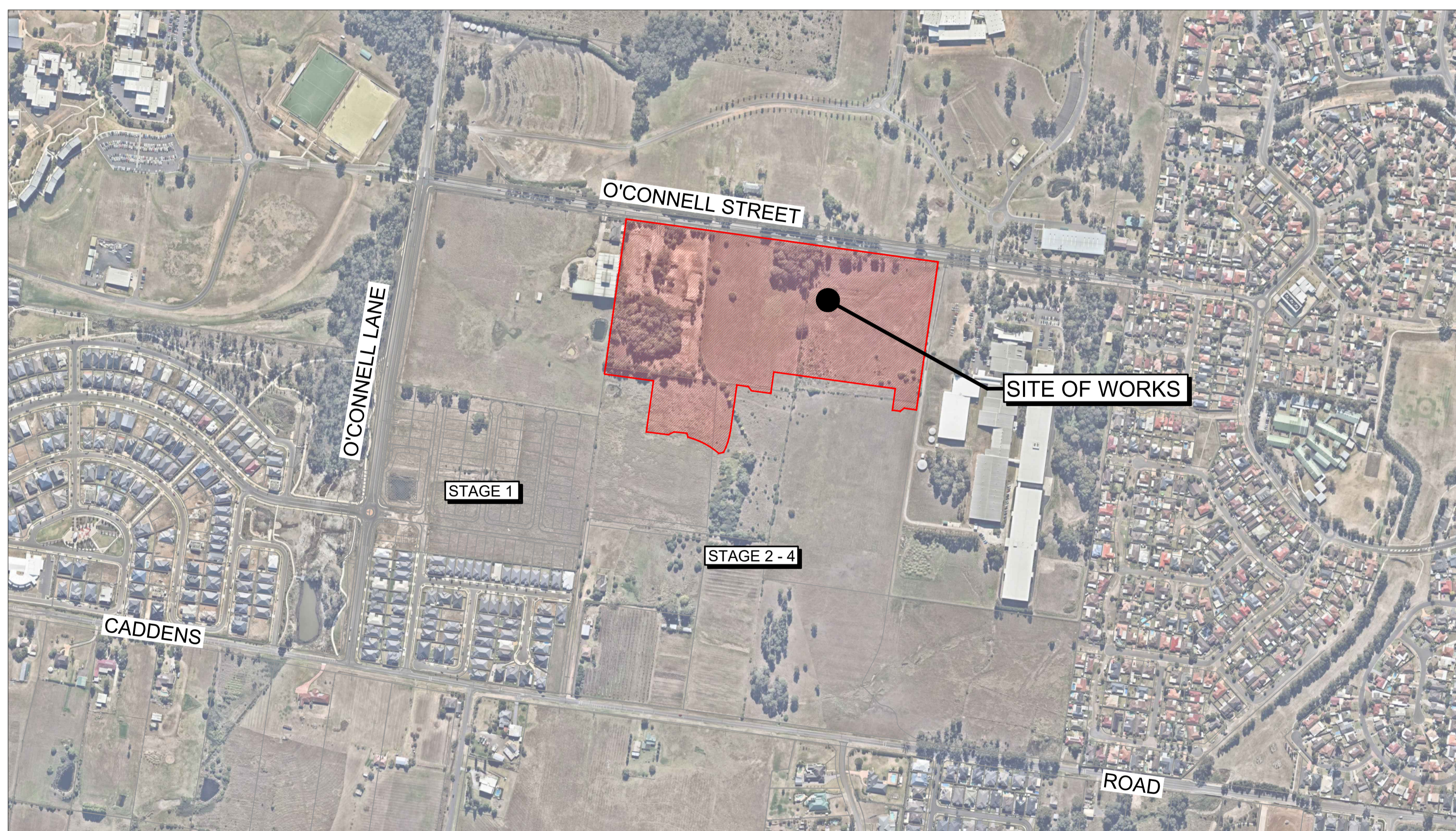


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CADDENS HILL STAGES 5 - 6

PROPOSED ROADS & DRAINAGE WORKS FOR SUBDIVISION

INDEX		
PLAN NO.	PLAN NAME	REV
110358/DA500	COVER SHEET	A
110358/DA501	SITE LAYOUT PLAN	A
110358/DA502	ENGINEERING PLAN	A
110358/DA503	SITE SECTIONS SHEET 1	A
110358/DA504	SITE SECTIONS SHEET 2	A
110358/DA505	TYPICAL SECTIONS	A
110358/DA506	ROAD LONGITUDINAL SECTIONS SHEET 1	A
110358/DA507	ROAD LONGITUDINAL SECTIONS SHEET 2	A
110358/DA508	ROAD LONGITUDINAL SECTIONS SHEET 3	A
110358/DA509	STORMWATER PLAN	A
110358/DA510	DETENTION BASIN & RAINGARDEN C PLAN	A
110358/DA511	BASIN SECTIONS & DETAILS	A
110358/DA512	SOIL & WATER MANAGEMENT PLAN	A



LOCALITY SKETCH

Prepared By:

J. WYNHAM PRINCE

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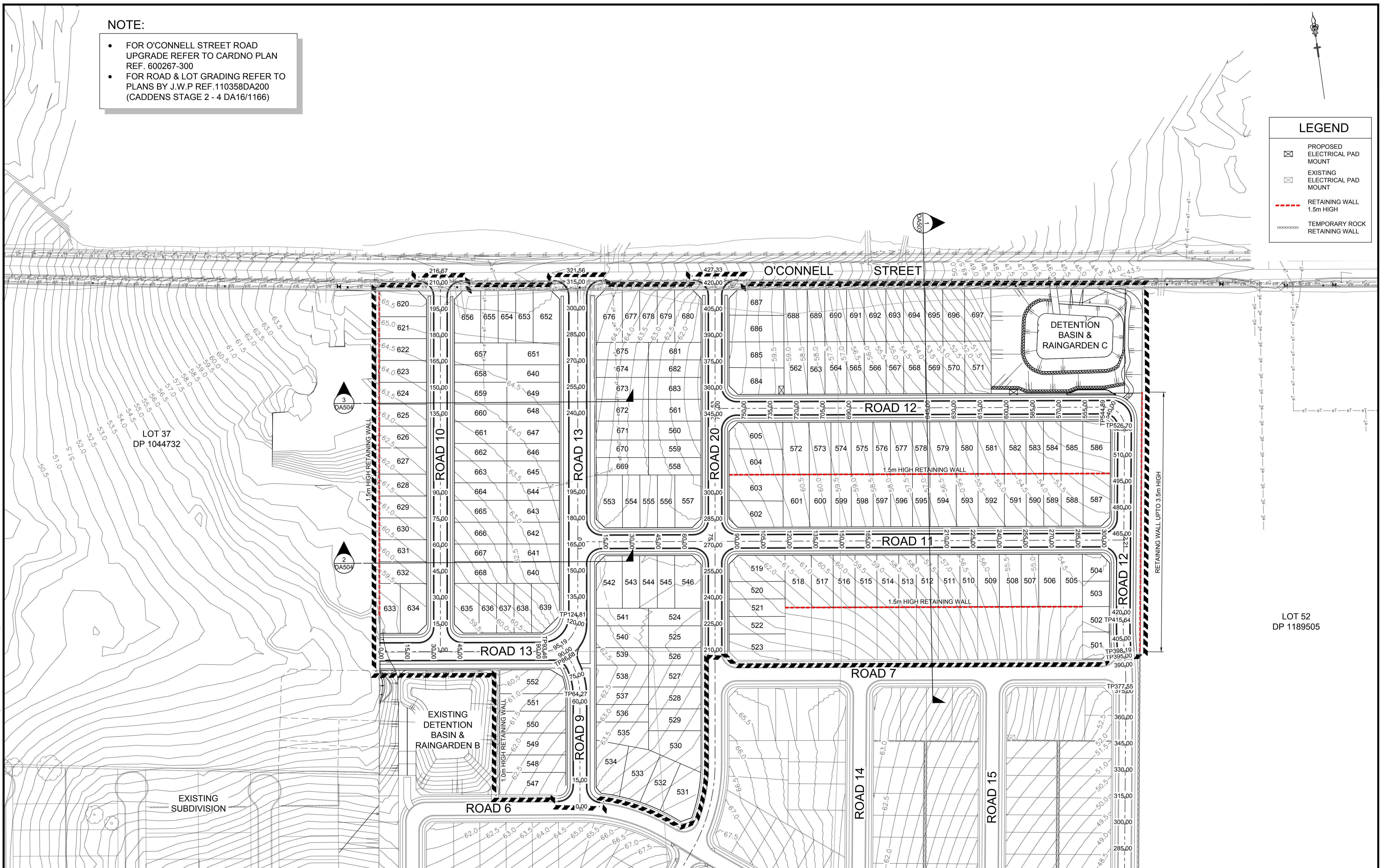
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FILE No. 110358DA500

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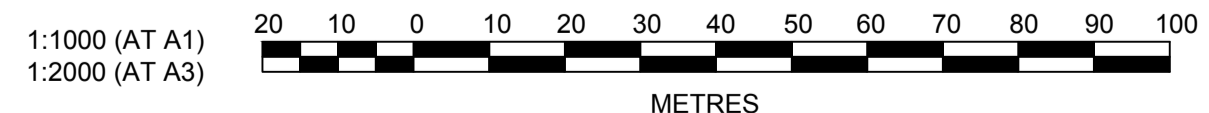
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- FOR ROAD & LOT GRADING REFER TO PLANS BY J.W.P REF.110358DA200 (CADDENS STAGE 2 - 4 DA16/1166)

LEGEND

- ☒ PROPOSED ELECTRICAL PAD MOUNT
- ☒ EXISTING ELECTRICAL PAD MOUNT
- 1.5m HIGH RETAINING WALL
- TEMPORARY ROCK RETAINING WALL



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 DATUM: A.H.D
 ORIGIN:



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 STAGE 5 - 6

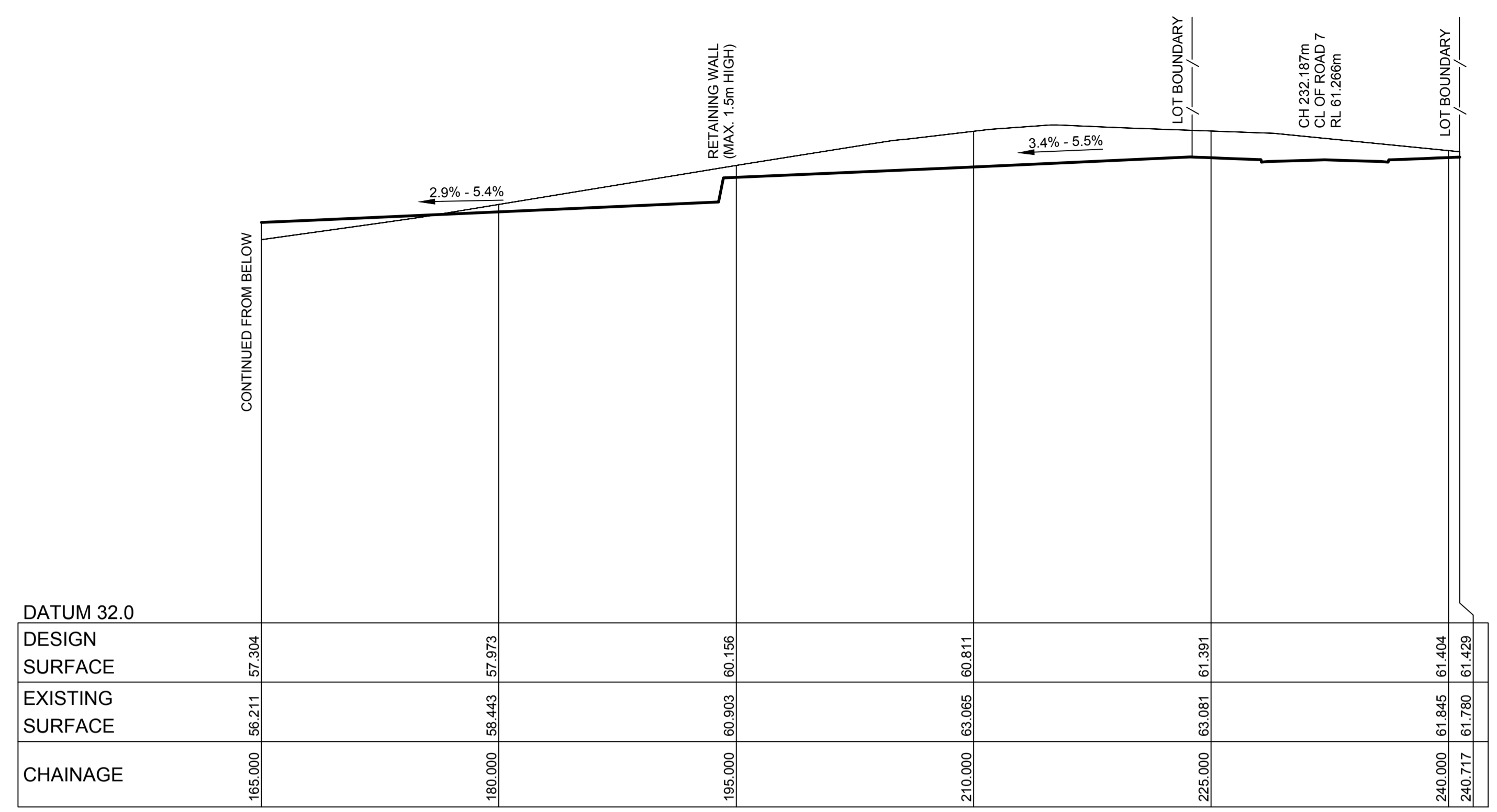
ENGINEERING PLAN

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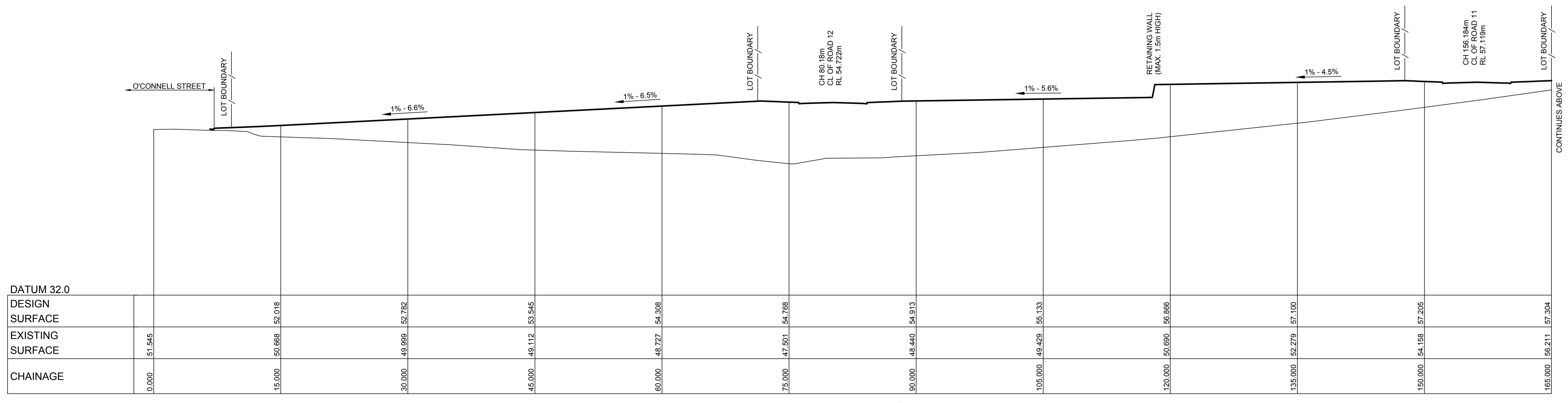
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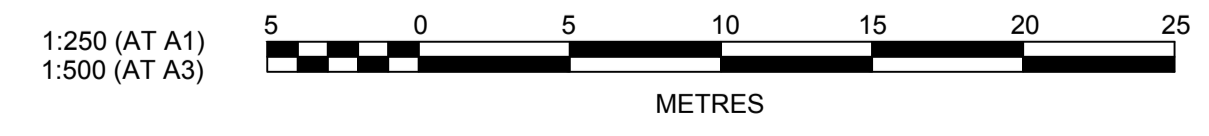
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- FOR ROAD & LOT GRADING REFER TO PLANS BY J.WYNDHAM PRINCE REF.110358DA200 (CADDENS STAGE 2 - 4 DA16/1166)



SECTION 1
SCALE 1:250
DA502



SECTION 1
SCALE 1:250
DA502



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CADDENS HILL
STAGE 5 - 6

SITE SECTIONS SHEET 1

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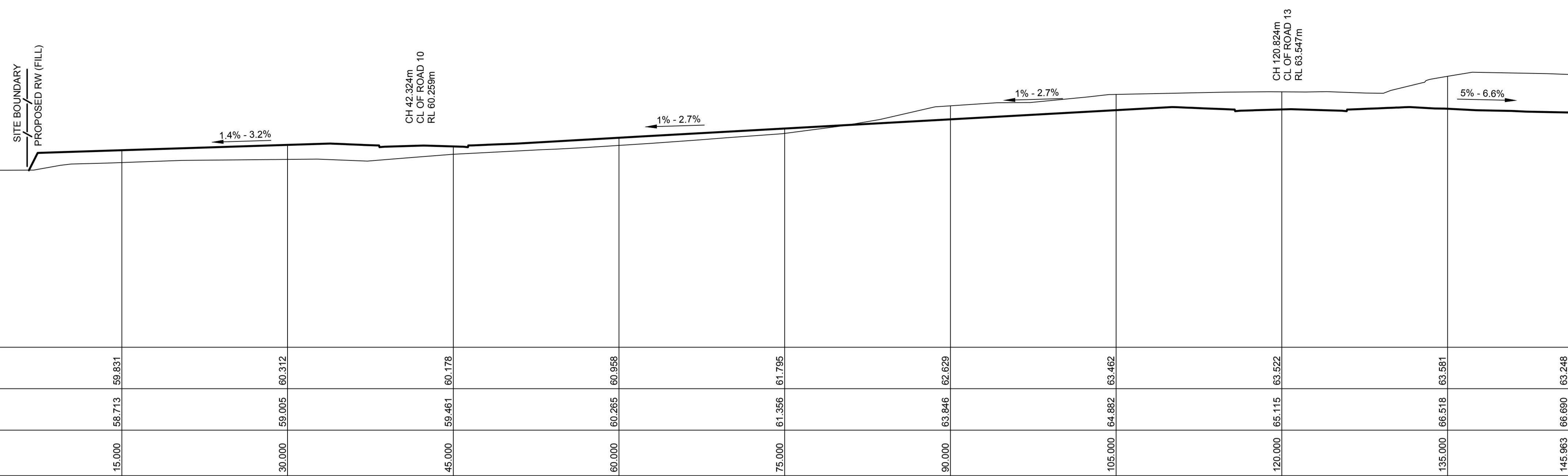
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AMENDMENT	DES	DRN	CKD	APR	DATE

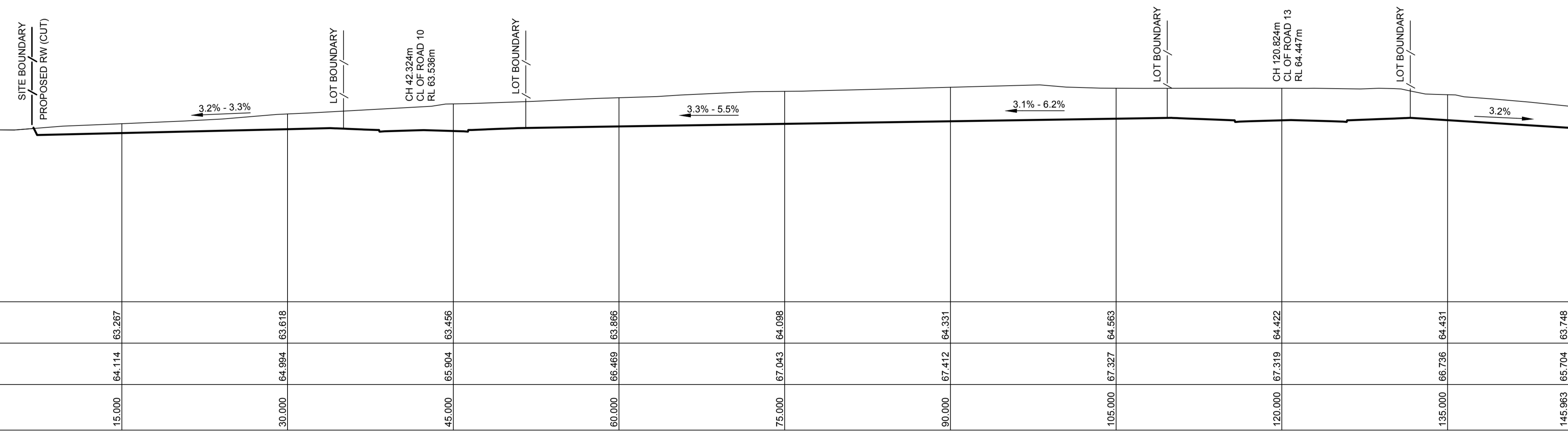
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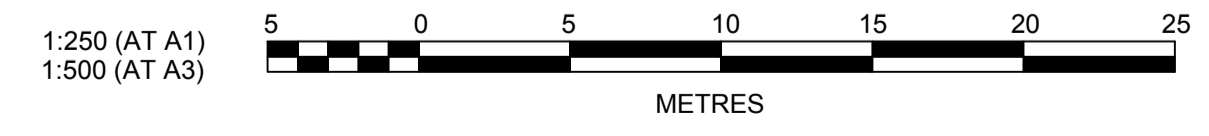
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DA502



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SECTION 2
SCALE 1:250
DA502



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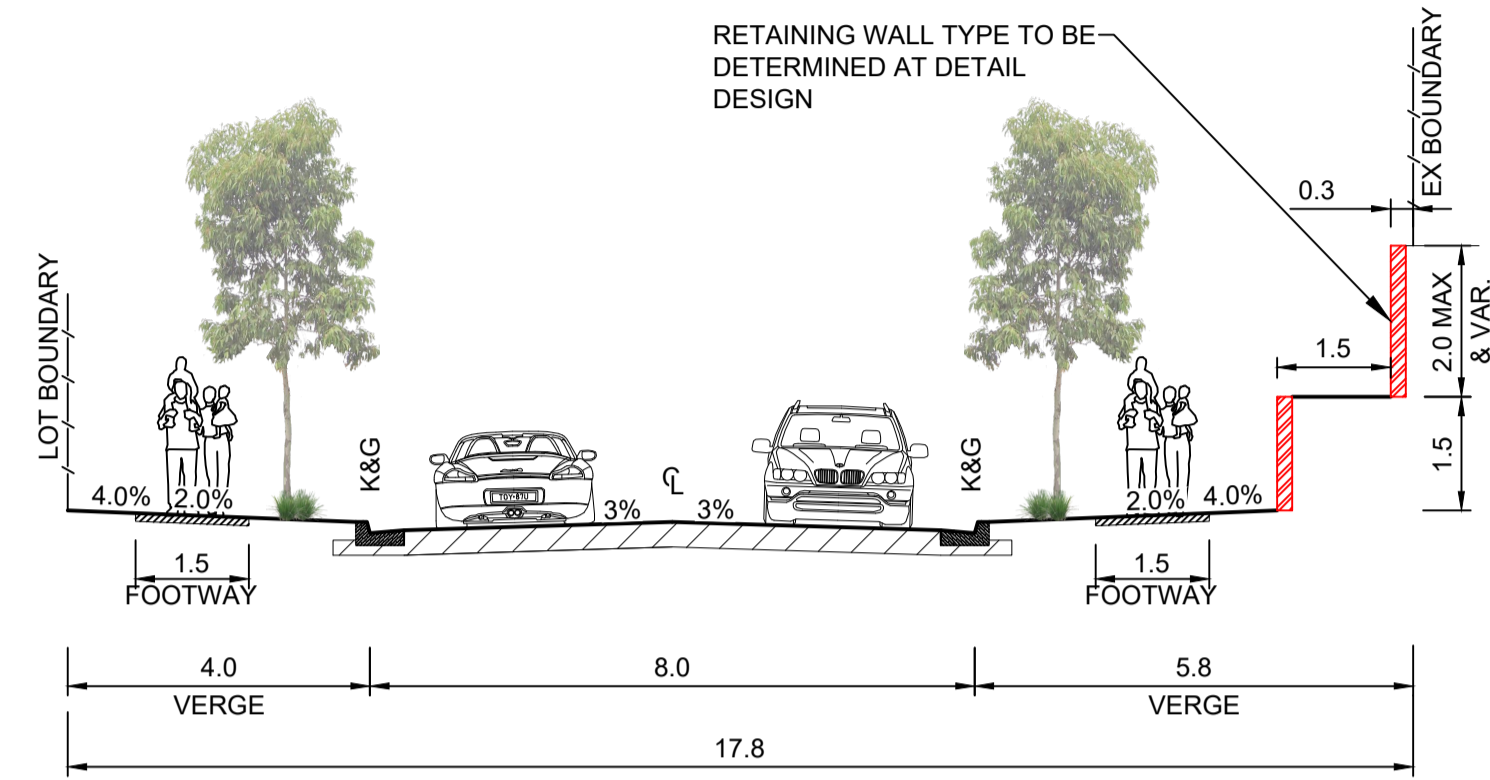
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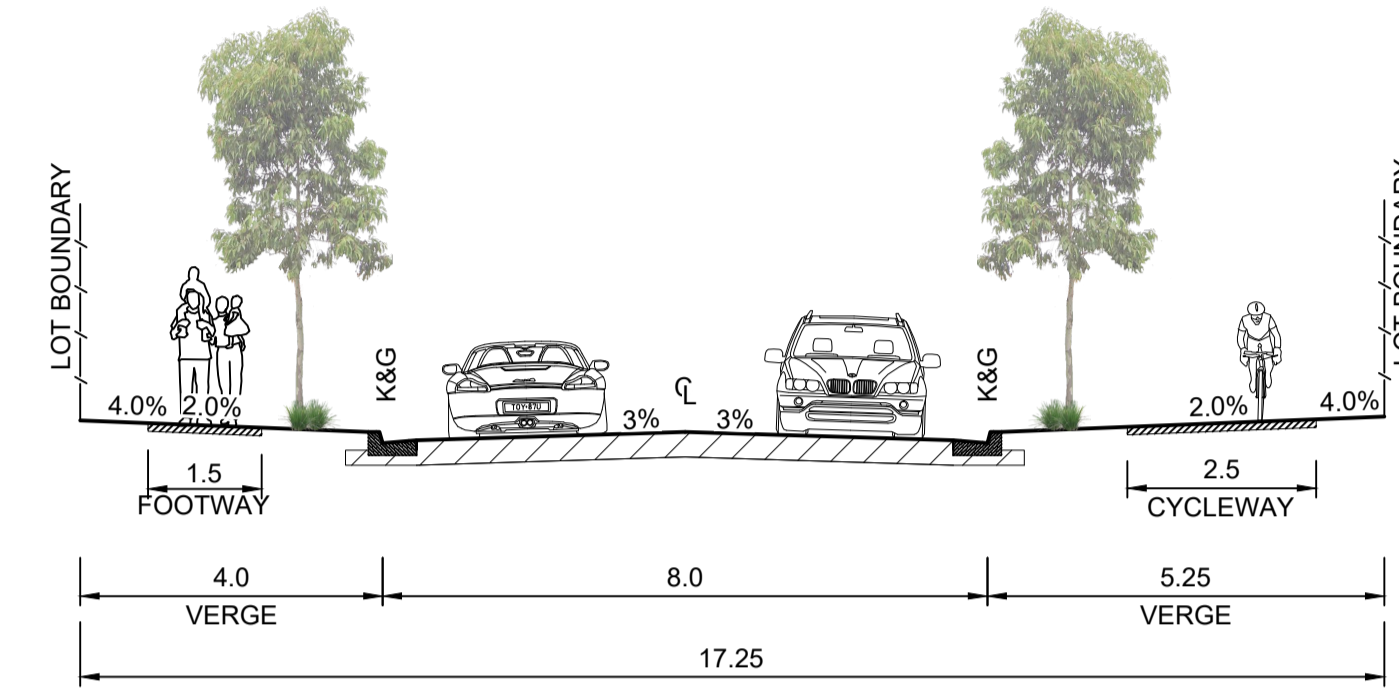
CADDENS HILL
 STAGE 5 - 6

SITE SECTIONS SHEET 2

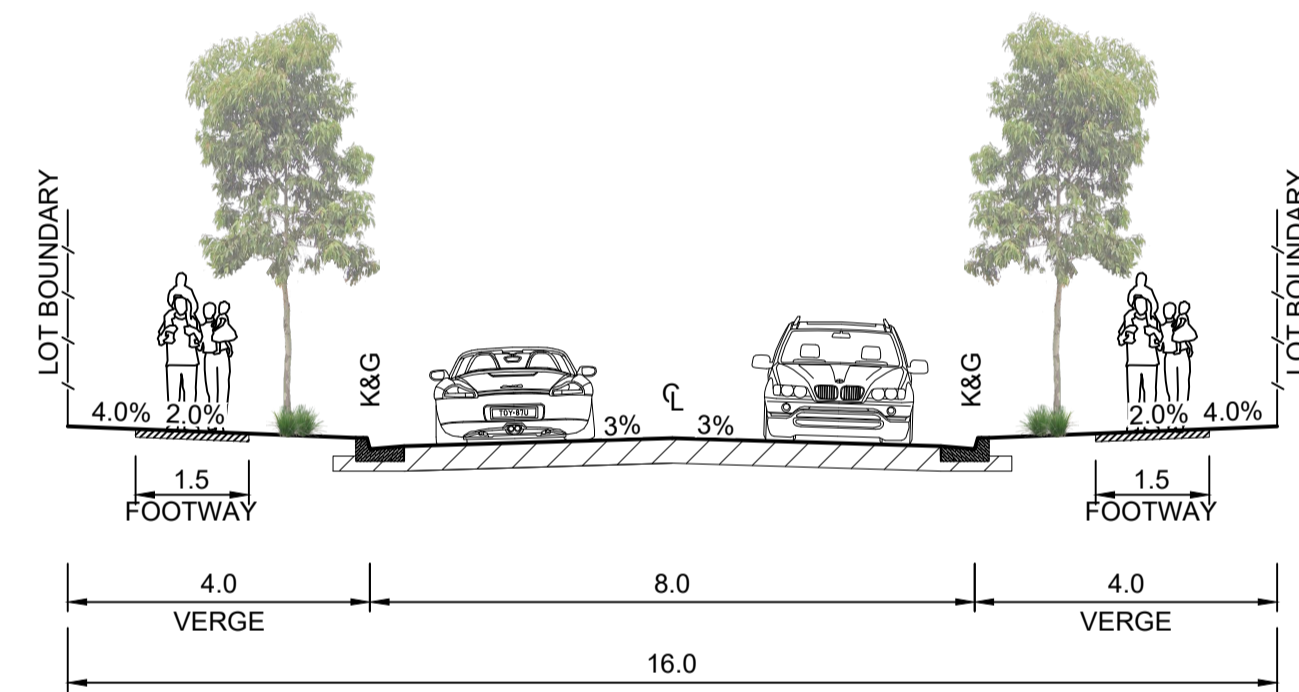
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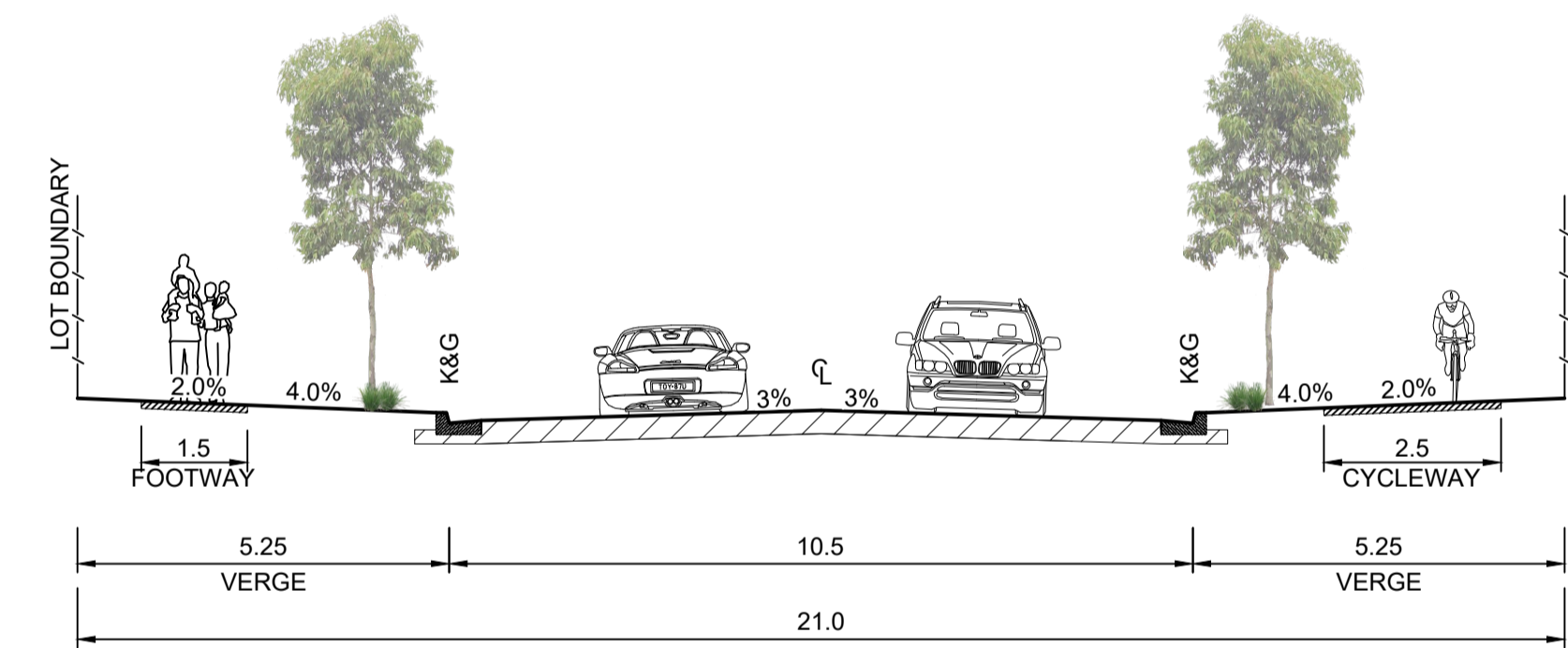
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TYPICAL CROSS SECTION
ROAD 9
SCALE 1:100

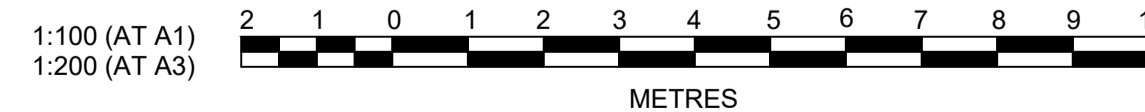


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TYPICAL CROSS SECTION
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SCALE 1:100

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M.G.A
DATUM:
A.H.D
ORIGIN:

CLIENT:



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CADDENS HILL
STAGE 5 - 6

TYPICAL SECTIONS

PLAN No:
110358/DA505

A

FILE No: 110358DA505

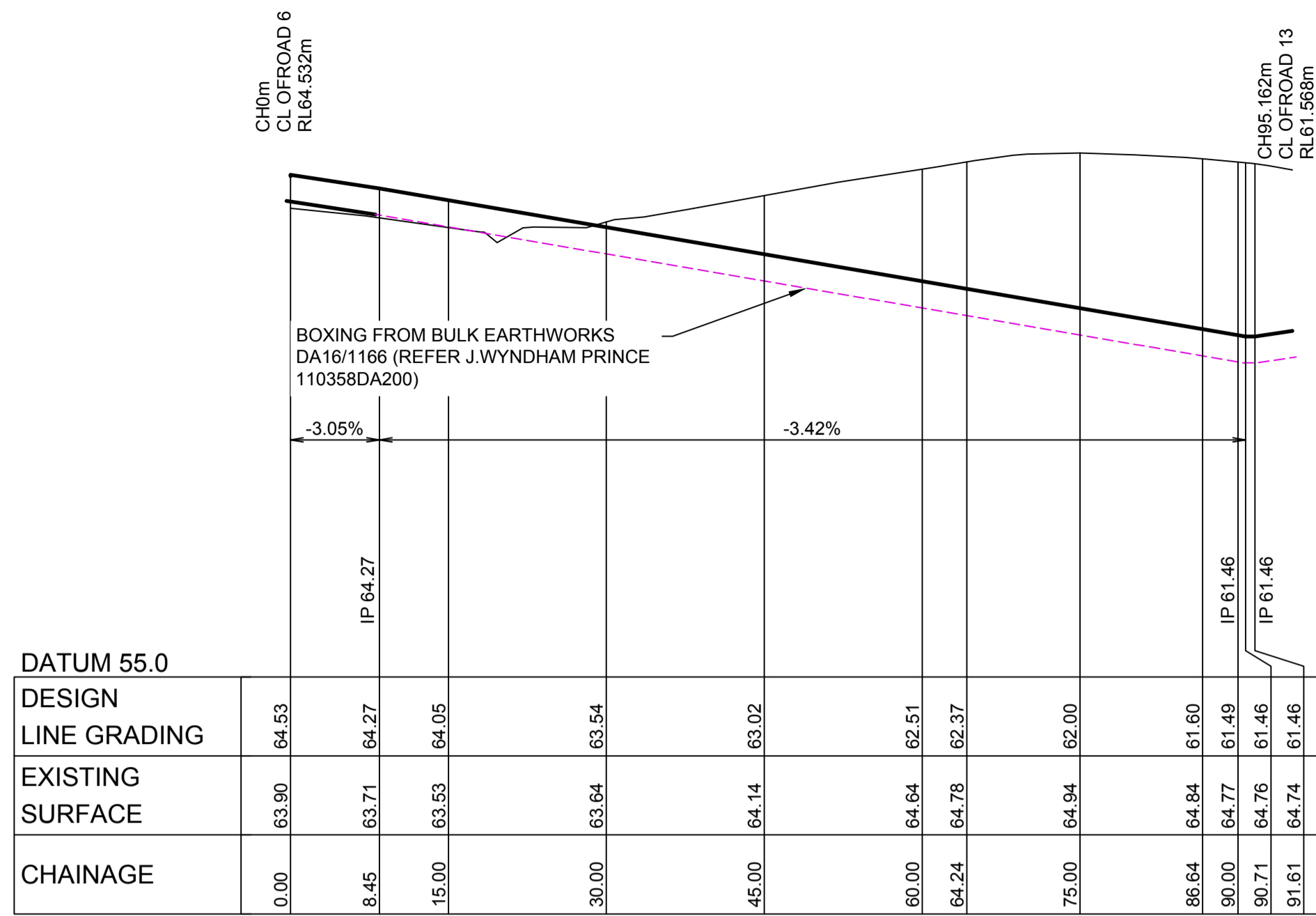
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A	ISSUE FOR DEVELOPMENT APPLICATION	DES	DRN	CKD	APR	12/01/17
	AMENDMENT					

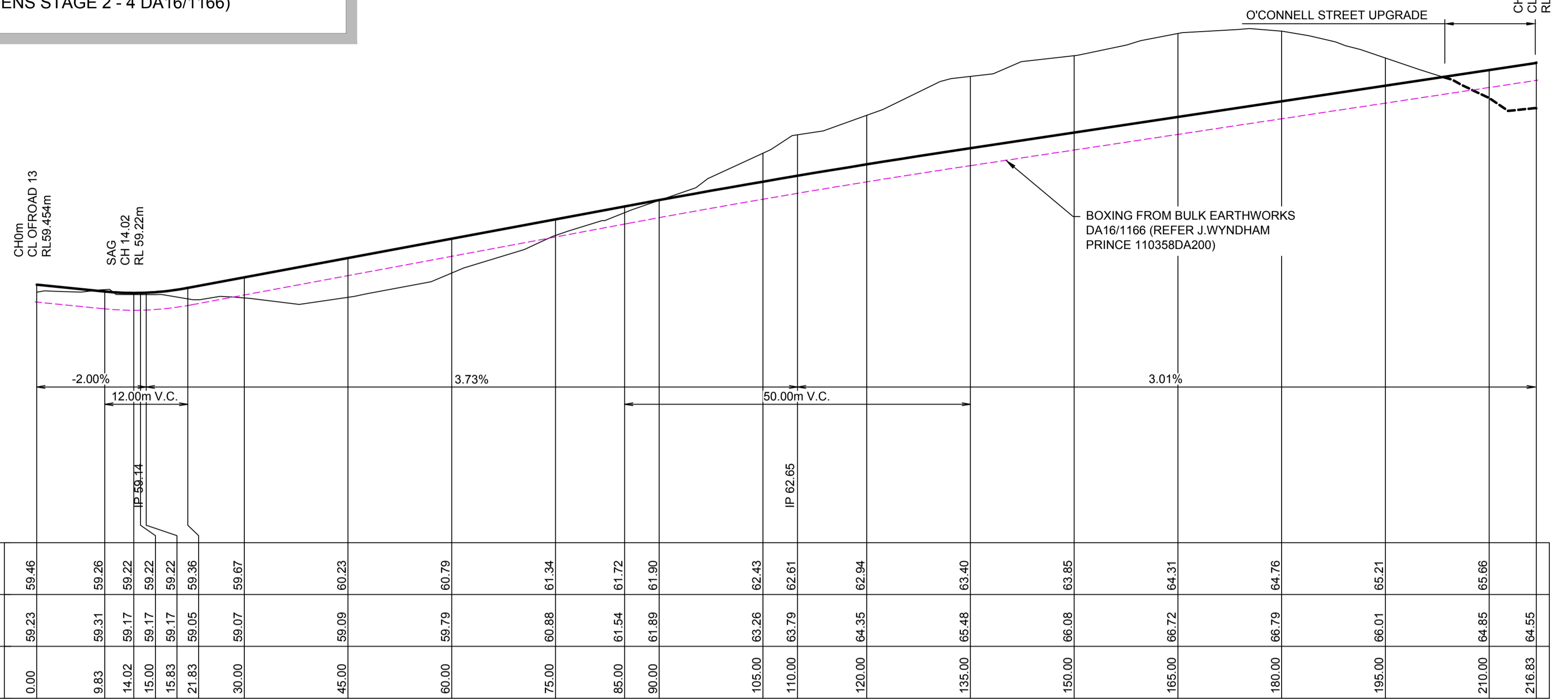
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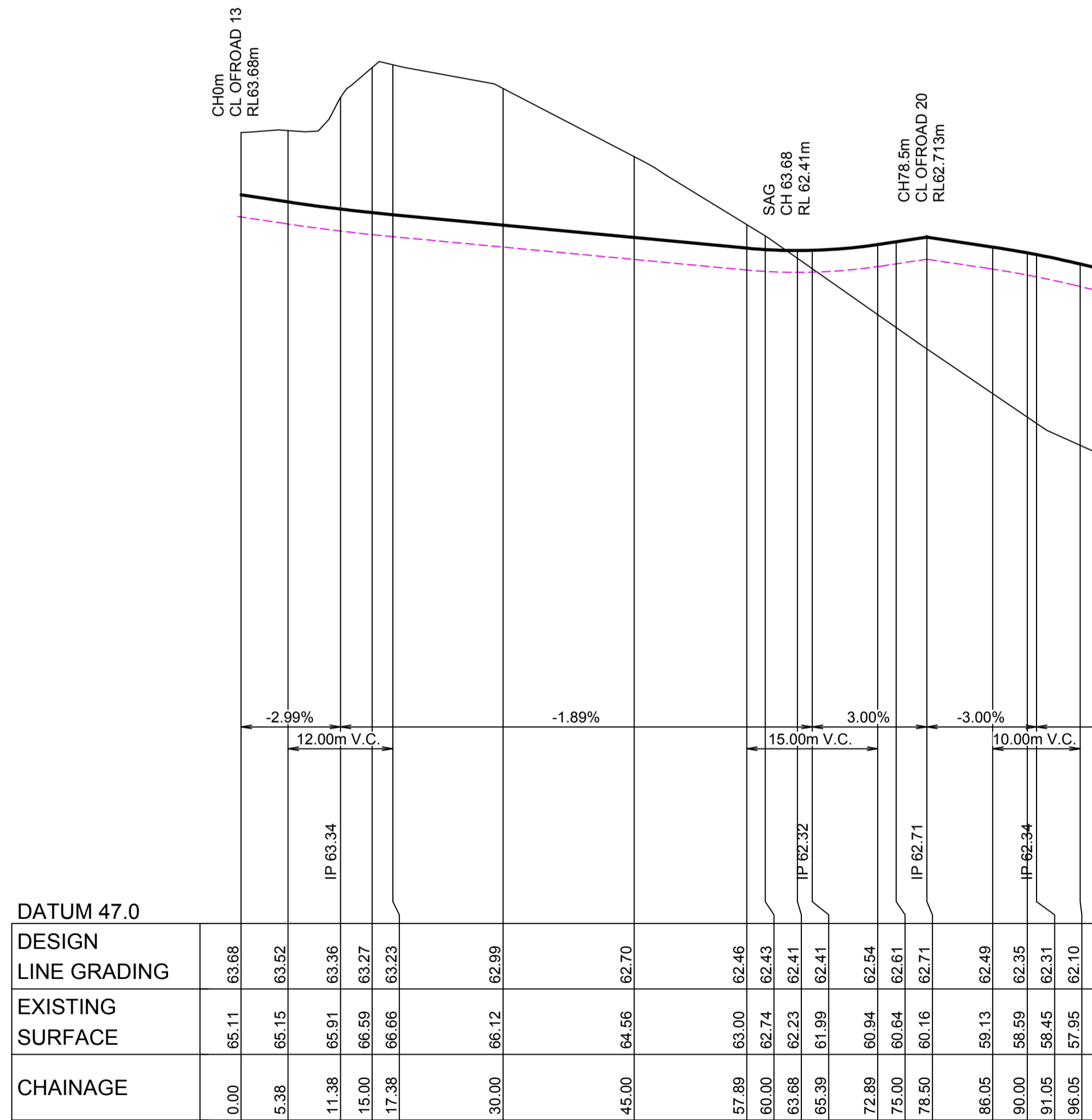
- FOR O'CONNELL STREET ROAD UPGRADE REFER TO CARDNO PLAN REF. 600267-300
- FOR ROAD & LOT GRADING REFER TO PLANS BY J.WYNDHAM PRINCE REF.110358DA200 (CADDENS STAGE 2 - 4 DA16/1166)



LONGITUDINAL SECTION ROAD 9
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 10
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 11
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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CADDENS HILL
STAGE 5 - 6

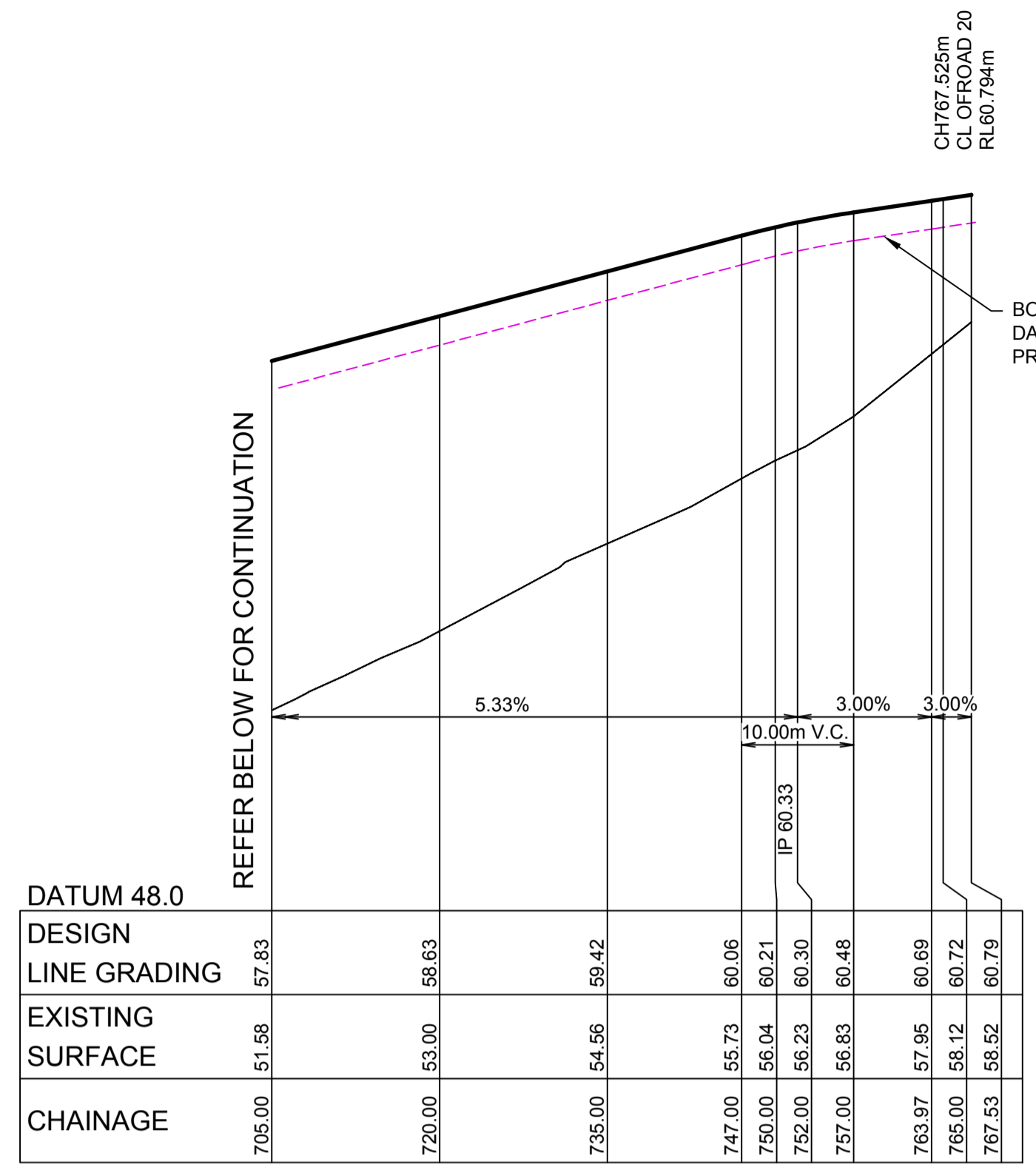
ROAD LONGITUDINAL SECTIONS SHEET 1

PLAN No: 110358/DA506 **A**
FILE No: 110358DA506
SHEET SIZE: A1 ORIGINAL

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	AMENDMENT	DES	DRN	CKD	APR	DATE

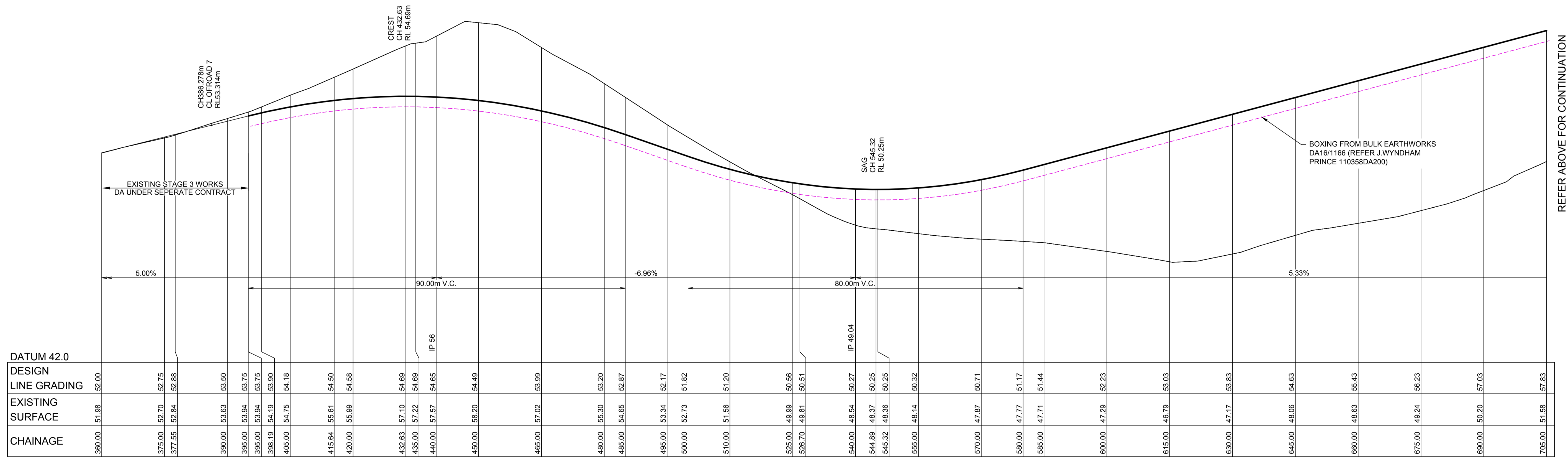
NOTE:

- FOR O'CONNELL STREET ROAD UPGRADE REFER TO CARDNO PLAN REF. 600267-300
- FOR ROAD & LOT GRADING REFER TO PLANS BY J.WYNDHAM PRINCE REF.110358DA200 (CADDENS STAGE 2 - 4 DA16/1166)



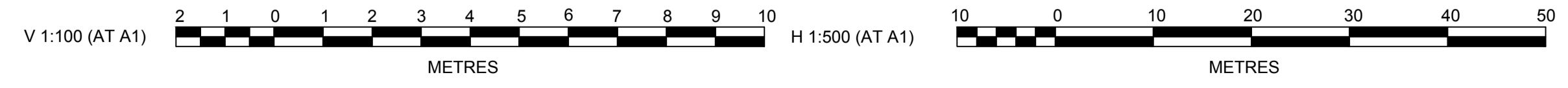
DATUM 48.0	
DESIGN LINE GRADING	57.83
EXISTING SURFACE	51.58
CHAINAGE	705.00
	720.00
	735.00
	747.00
	750.00
	752.00
	757.00
	763.97
	765.00
	767.53

LONGITUDINAL SECTION ROAD 12
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



DATUM 42.0	
DESIGN LINE GRADING	52.00
EXISTING SURFACE	51.98
CHAINAGE	380.00
	375.00
	377.55
	390.00
	395.00
	395.00
	398.19
	405.00
	415.64
	420.00
	432.63
	435.00
	440.00
	450.00
	465.00
	480.00
	485.00
	495.00
	500.00
	510.00
	525.00
	525.70
	540.00
	544.89
	545.32
	555.00
	570.00
	580.00
	585.00
	600.00
	615.00
	630.00
	645.00
	660.00
	675.00
	690.00
	705.00

LONGITUDINAL SECTION ROAD 12
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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CADDENS HILL
STAGE 5 - 6

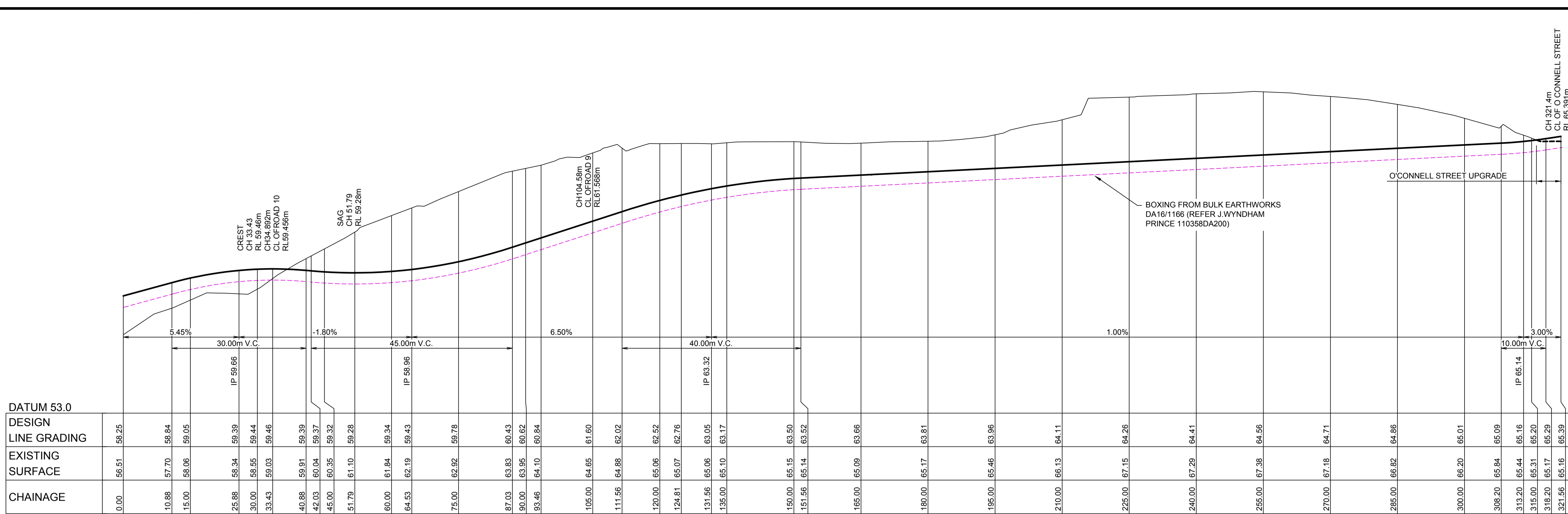
PLAN No: 110358/DA507 **A**

FILE No: 110358DA507

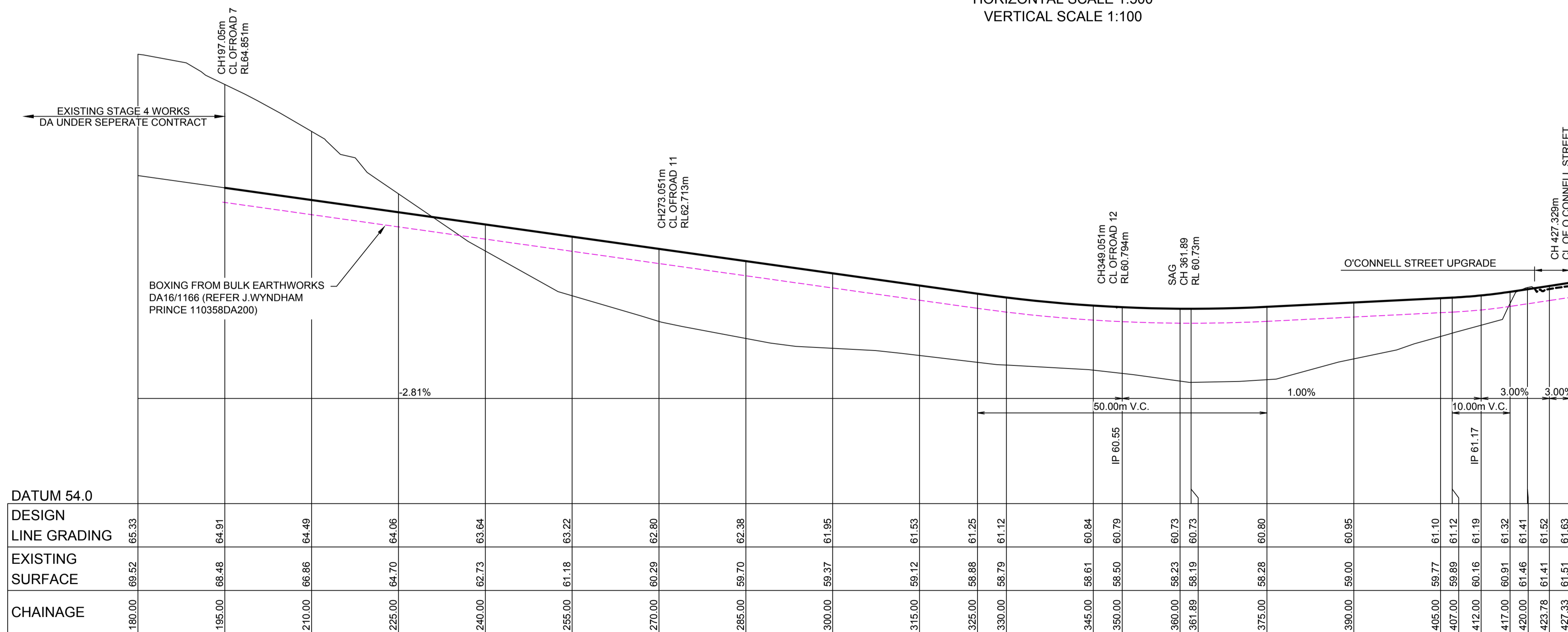
SHEET SIZE: A1 ORIGINAL

ROAD LONGITUDINAL SECTIONS SHEET 2

Plotted: 12 January, 2017 6:01:47 PM. File Name: J:\110358 - O'Connell Lane, Caddens\04 - Stage 5\CDD\DA110358DA507.dwg



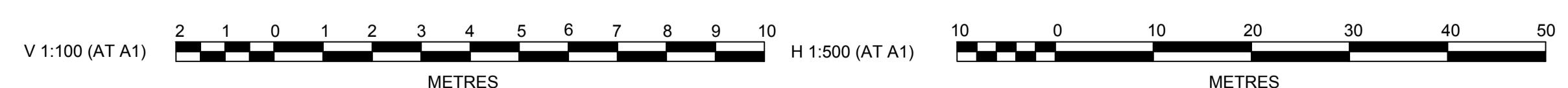
LONGITUDINAL SECTION ROAD 13
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



LONGITUDINAL SECTION ROAD 20
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

NOTE:

- FOR O'CONNELL STREET ROAD UPGRADE REFER TO CARDNO PLAN REF. 600267-300
- FOR ROAD & LOT GRADING REFER TO PLANS BY J.WYNDHAM PRINCE REF.110358DA200 (CADDENS STAGE 2 - 4 DA16/1166)



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CADDENS HILL
STAGE 5 - 6

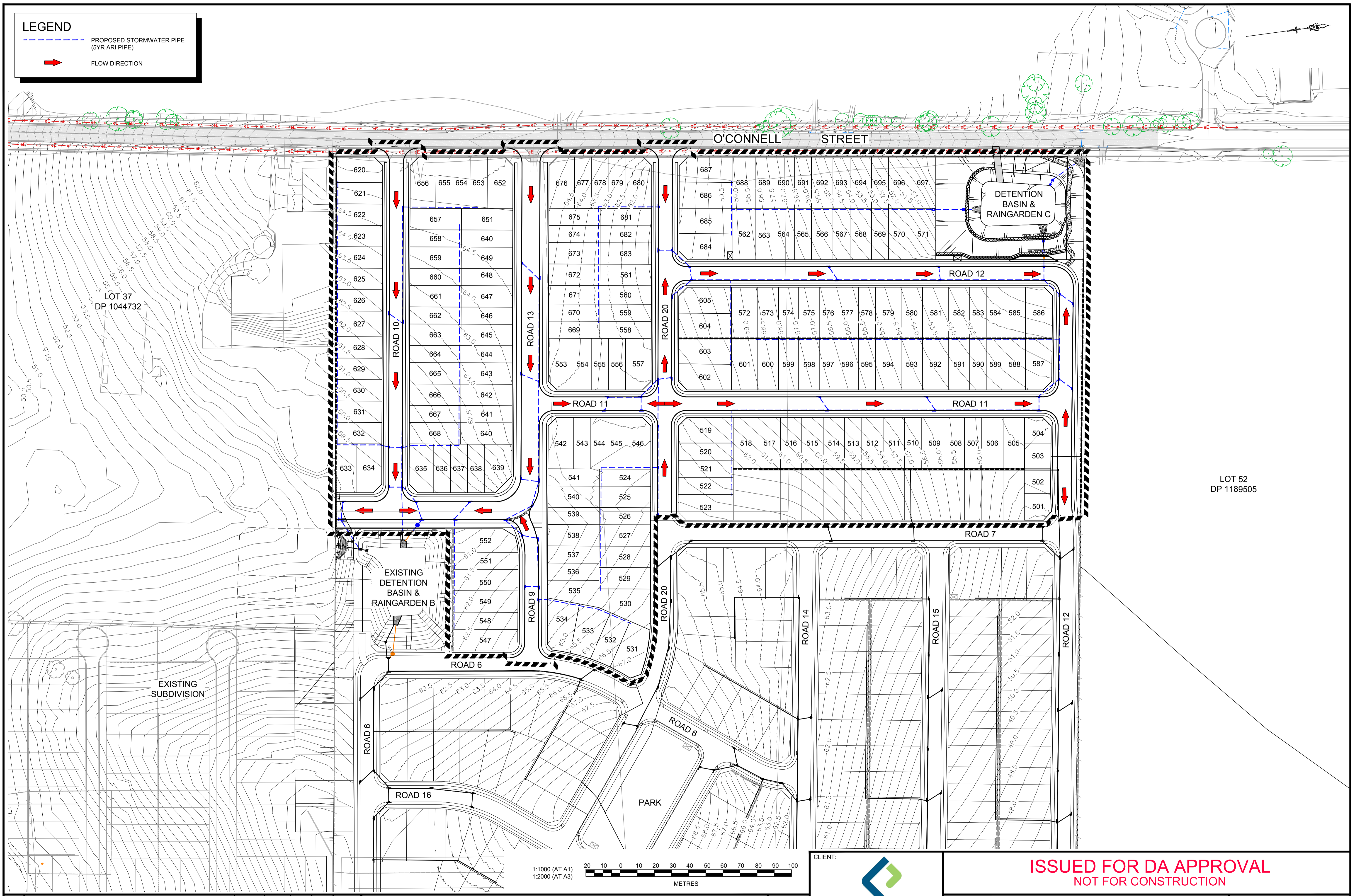
ROAD LONGITUDINAL SECTIONS SHEET 3

PLAN No: 110358/DA508 **A**
FILE No: 110358DA508
SHEET SIZE: A1 ORIGINAL

Plotted: 12 January, 2017 6:02:13 PM File Name: J:\110358 - O'Connell Lane, Caddens\04 - Stage 5\CDD\DA110358DA508.dwg

LEGEND

- PROPOSED STORMWATER PIPE (5YR ARI PIPE)
- FLOW DIRECTION



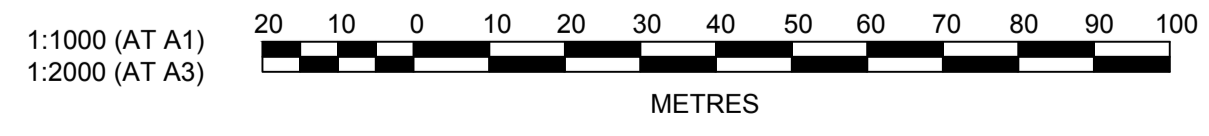
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A	ISSUE FOR DEVELOPMENT APPLICATION	JT / RT	MG	AM	MS	12/01/17
	AMENDMENT	DES	DRN	CKD	APR	DATE

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 DATUM: A.H.D
 ORIGIN:



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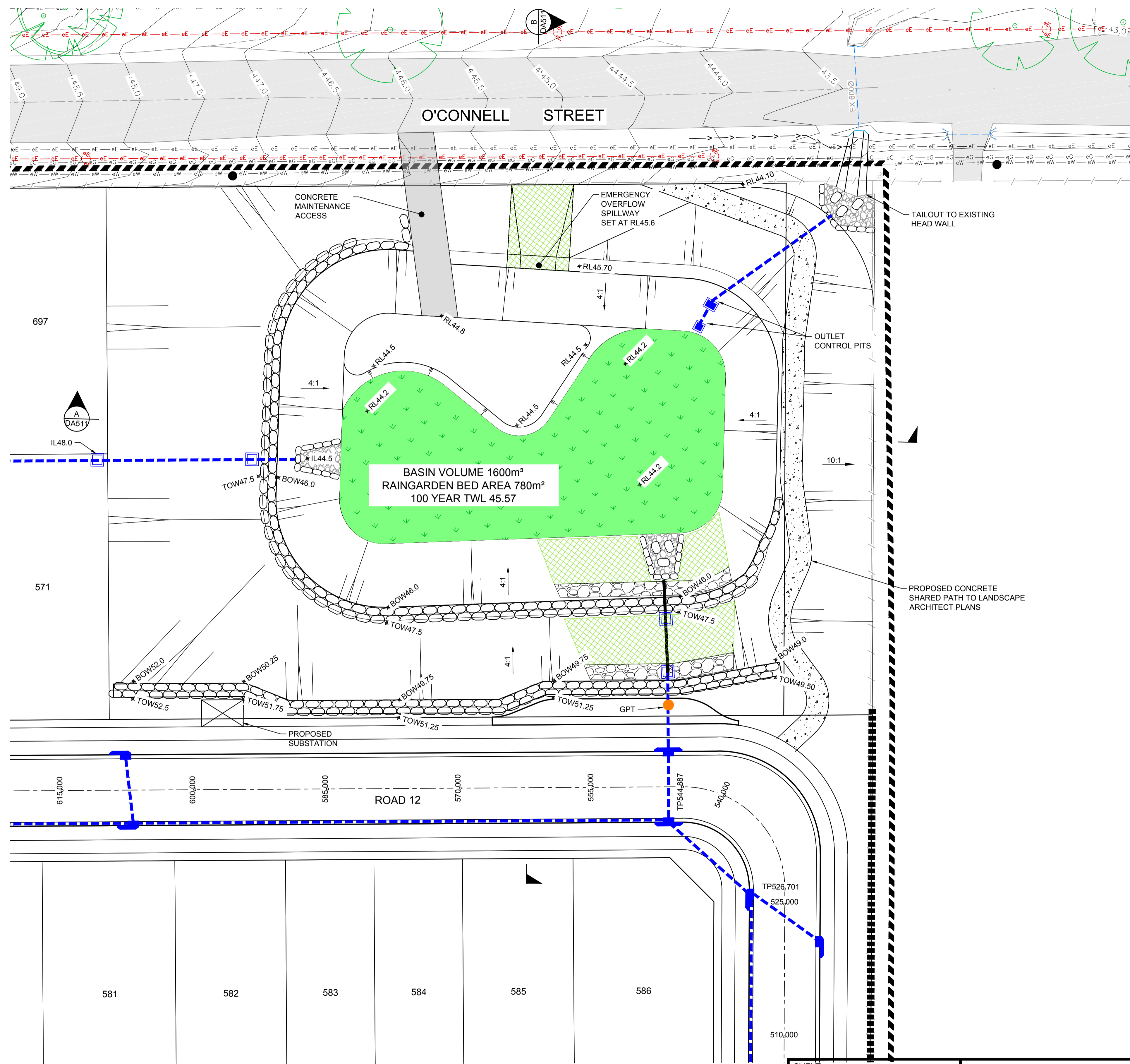
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CADDENS HILL
 STAGE 5 - 6

STORMWATER PLAN

PLAN No: 110358/DA509 **A**
 FILE No: 110358DA509
 SHEET SIZE: A1 ORIGINAL



LEGEND

- PROPOSED STORMWATER PIPE (5YR ARI PIPE)
- DROP PIT (3m NOM)
- BIO-RETENTION MEDIA BED
- REINFORCED TURF
- ROCK APRON FOR SCOUR PROTECTION
- GPT

Plotted: 12 January 2017 5:04:42 PM File Name: J:\110358 - O'Connell Lane, Caddens\04 - Stage 5\CD\DA110358\DA510.dwg

NO.	DESCRIPTION	BY	CHKD	DATE			
A	ISSUE FOR DEVELOPMENT APPLICATION	JT	RT	MG	AM	MS	12/01/17
	AMENDMENT	DES	DRN	CKD	APR		DATE

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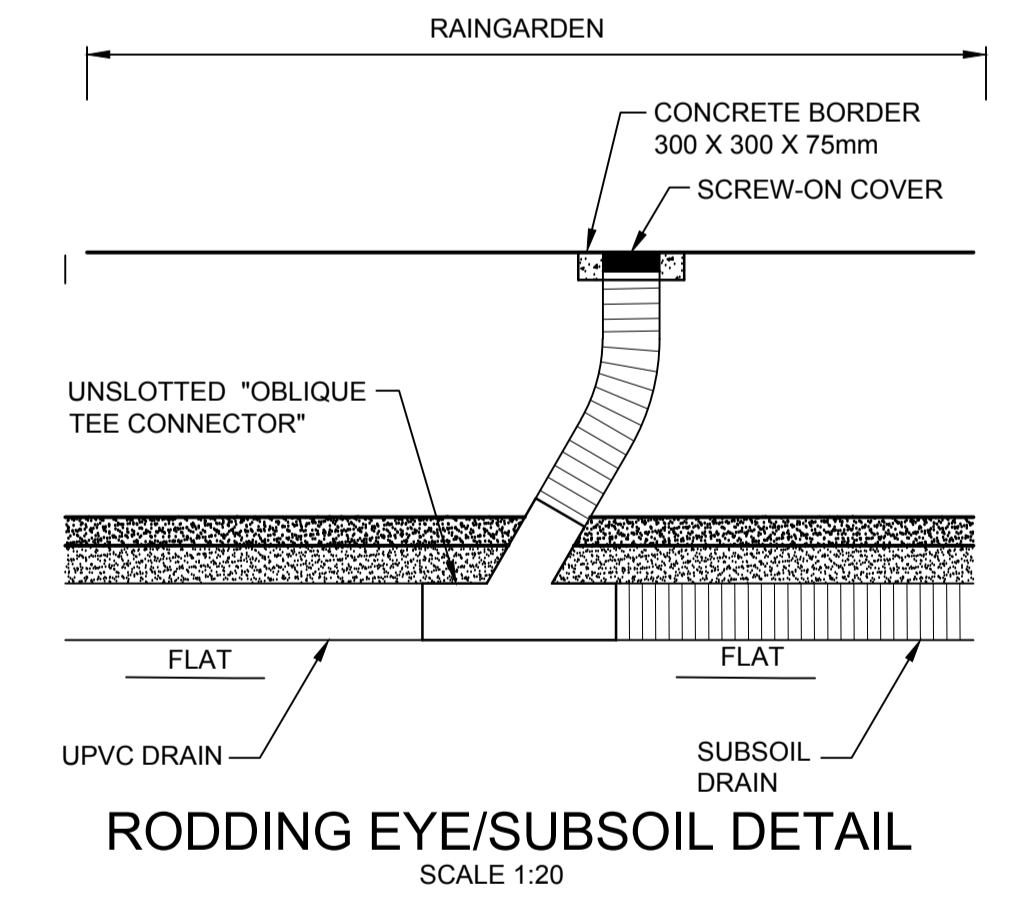
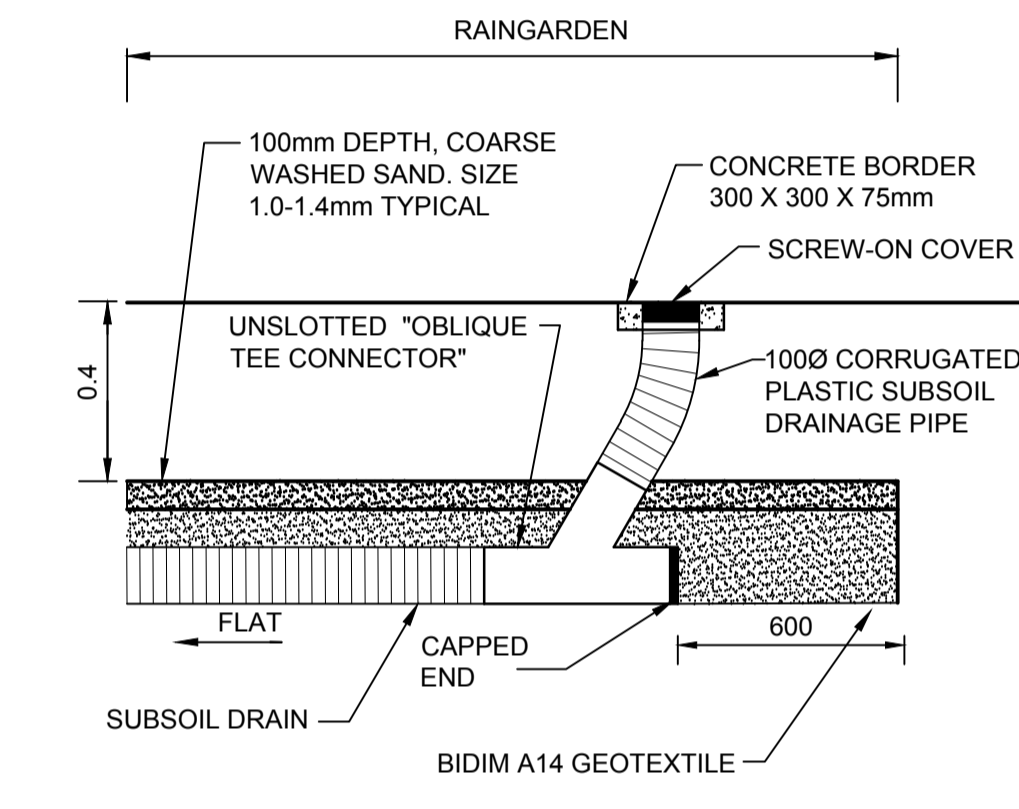
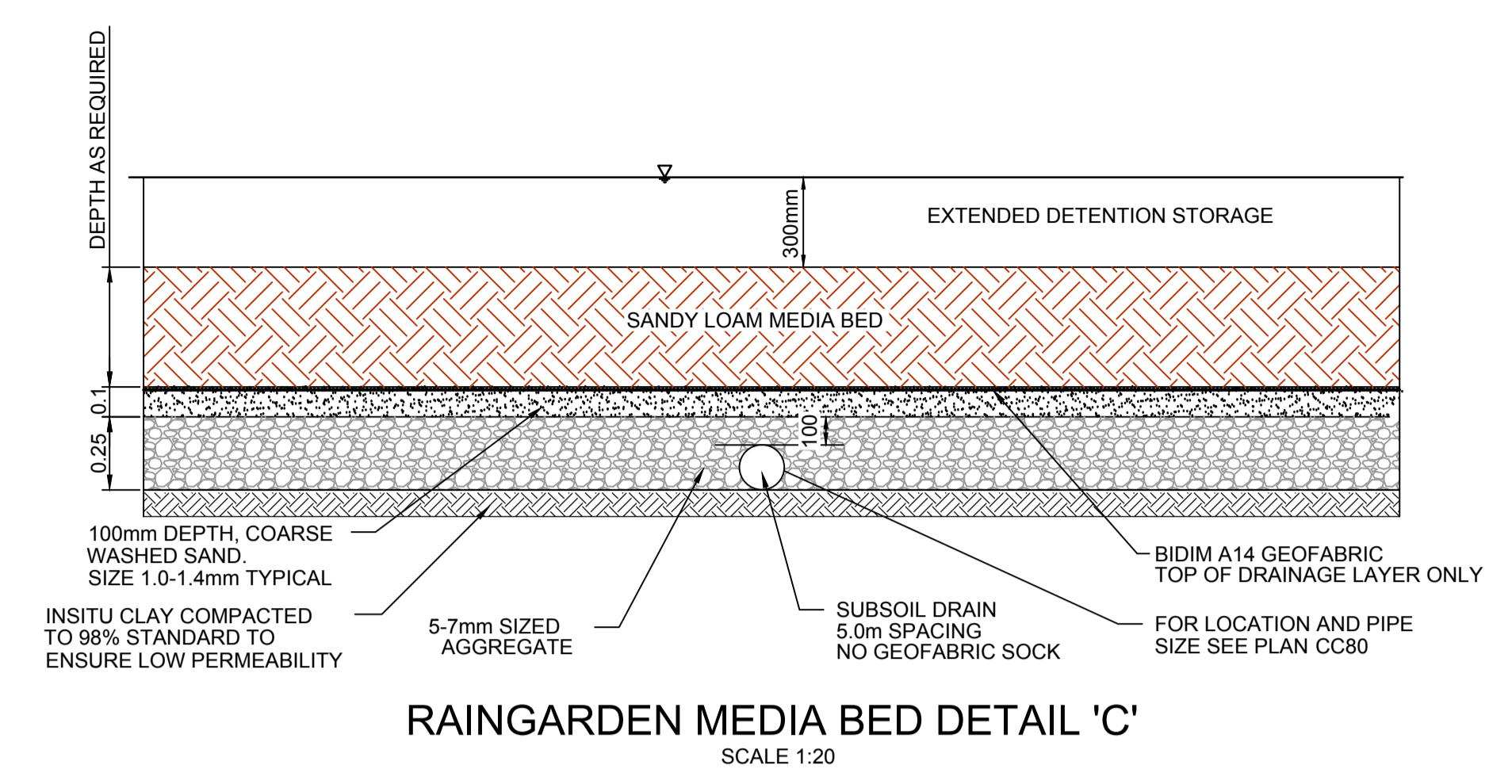
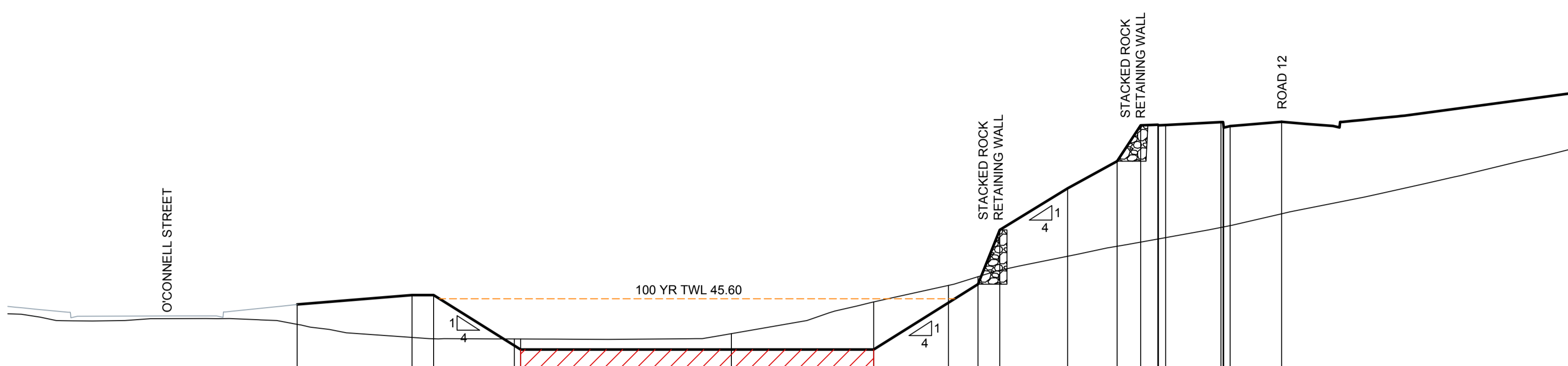
AZIMUTH: M.G.A
 DATUM: A.H.D
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CADDENS HILL
STAGE 5 - 6

DETENTION BASIN & RAINGARDEN C PLAN

PLAN No: 110358/DA510 **A**
 FILE No: 110358DA510
 SHEET SIZE: A1 ORIGINAL



MEDIA MATERIAL IN BIO FILTRATION
DEFINITIONS - AS1726-1993

SEDIMENT	SIZE(mm)	
BOULDERS	>200	
COBBLES	63-200	
GRAVELS	COURSE	20-63
	MEDIUM	6-20
	FINE	2.36-6
SANDS	COURSE	0.6-2.36
	MEDIUM	0.2-0.6
	FINE	0.075-0.2
SILTS	COURSE	0.02-0.075
	MEDIUM	0.006-0.02
	FINE	0.002-0.006
CLAYS	COLLOIDAL	<0.002

TOLERANCE	RATING	dS/m
Sensitive	Very Low	<0.95
Moderately Sensitive	Low	0.95-1.9
Moderately Tolerant	Medium	1.9-4.5
Tolerant	High	4.5-7.7
Very Tolerant	Very High	7.7-12.2
Too Saline	Extreme	>12.2

Preferred Mix Percentage of Mix	
Fine Gravel	<3%
Course Sand	7-10%
Medium Sand	40-60%
Fine Sand	10-30%
Very Fine Sand	5-30%
Clay and Silt	<3%
Organic Matter	<5%

IN REFERENCE TO ABOVE MIX TABLE, THE FOLLOWING PERFORMANCE PARAMETERS SHALL BE APPLIED.

- HYDRAULIC CONDUCTIVITY >=80mm/HR
- DETERMINED BY THE McINTYRE AND JAKOBSEN TEST METHOD (1993) AND CARRIED OUT BY AN INDEPENDENT NATA REGISTERED SOIL LABORATORY &/OR THE PREDICTED AND ACTUAL VALUES USING USGA OR ASTM F1815-06 STANDARD TESTING PROCEDURES
- ELECTRICAL CONDUCTIVITY <1.2dS/m
- PHOSPHORUS CONCENTRATION <20mg/kg FOR P SENSITIVE PLANTS (FOR VERY P SENSITIVE PLANTS USED: P<5mg/kg)
- NITROGEN DRAWDOWN >0.5
- CIRCUMNEUTRAL pH
- SANDY LOAM TO LOAMY SAND TEXTURE
- GYPHUM APPLIED AT 2kg/cu.m
- BULK DENSITY TO BE BETWEEN 1.1 g/cm³ & 1.8 g/cm³
- FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 25mm DIAMETER
- FREE OF BRUSH OR SEED FROM WEEDS

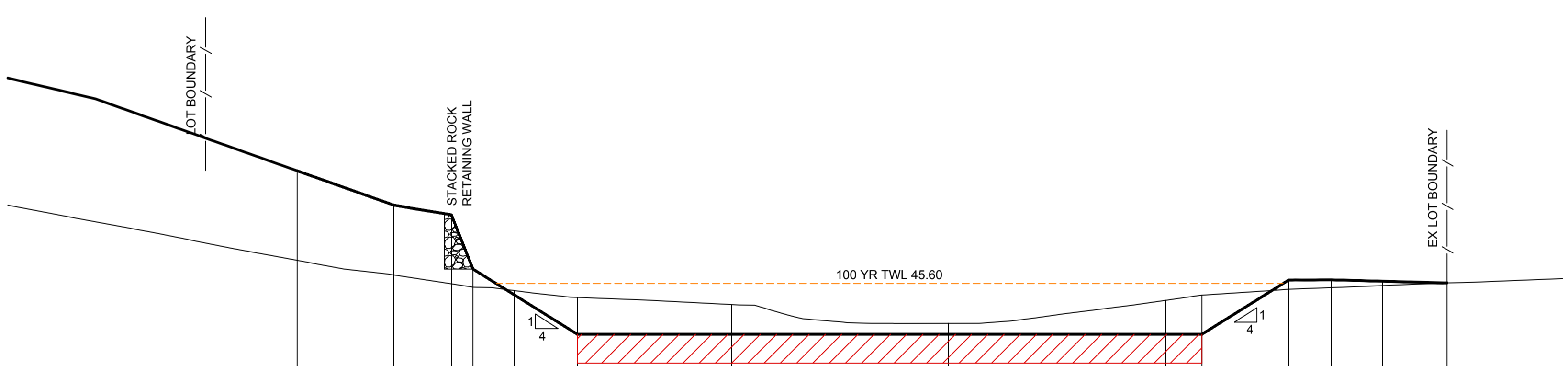
Benedict Sand & Gravel Bio-Retention Filter Media M165 generally complies with above specification and is considered "fit for purpose" as a suitable filter media for use within a Bio-Filtration stormwater treatment practice.

PLACEMENT:
THE MEDIA SHALL BE PLACED IN 300mm LIFTS AND LOOSELY COMPACTED.

DATUM 42.0

DESIGN LINE GRADING	EXISTING SURFACE	CHAINAGE
45.441	44.884	0.000
45.700	44.533	7.929
45.700	44.485	9.430
44.309	44.490	15.000
44.200	44.489	15.437
44.200	44.638	30.000
44.200	45.513	39.834
45.490	45.966	45.000
46.000	46.209	47.043
47.500	46.387	48.545
48.648	46.773	53.228
49.396	47.048	56.646
50.388	47.163	58.275
50.404	47.248	59.468
50.388	47.252	59.512
50.476	47.287	60.000
50.476	47.569	63.823
50.476	47.581	63.973
50.326	47.584	64.013
50.366	47.620	64.463
50.484	47.946	68.014

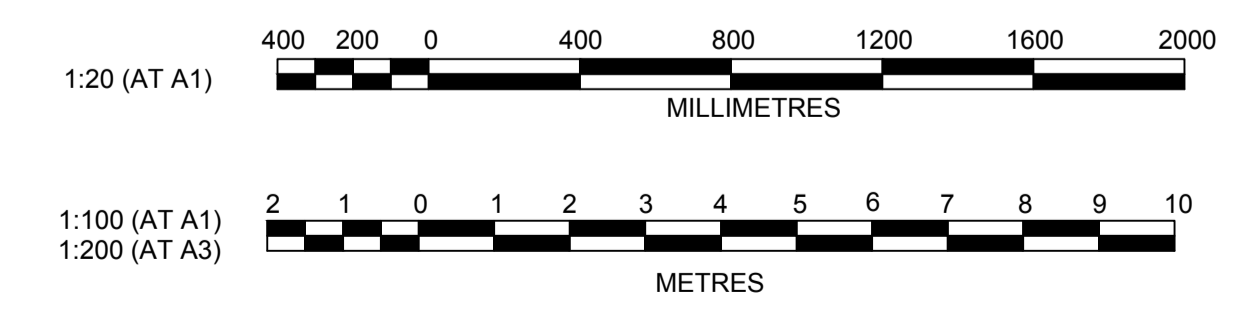
SECTION B
SCALE H 1:250
V 1:100
DA510



DATUM 42.0

DESIGN LINE GRADING	EXISTING SURFACE	CHAINAGE
48.714	46.241	0.000
47.764	45.836	6.670
47.500	45.592	10.651
46.000	45.500	12.151
45.288	45.408	15.000
44.200	45.217	19.351
44.200	45.019	30.000
44.200	44.500	45.000
44.200	45.137	60.000
44.200	45.280	62.515
45.700	45.441	68.515
45.704	45.487	71.453
45.685	45.544	75.000
45.617	45.617	79.443

SECTION A
SCALE H 1:250
V 1:100
DA510



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CADDENS HILL
STAGE 5 - 6

BASIN SECTIONS & DETAILS

PLAN No: 110358/DA511 **A**
FILE No: 110358DA511
SHEET SIZE: A1 ORIGINAL

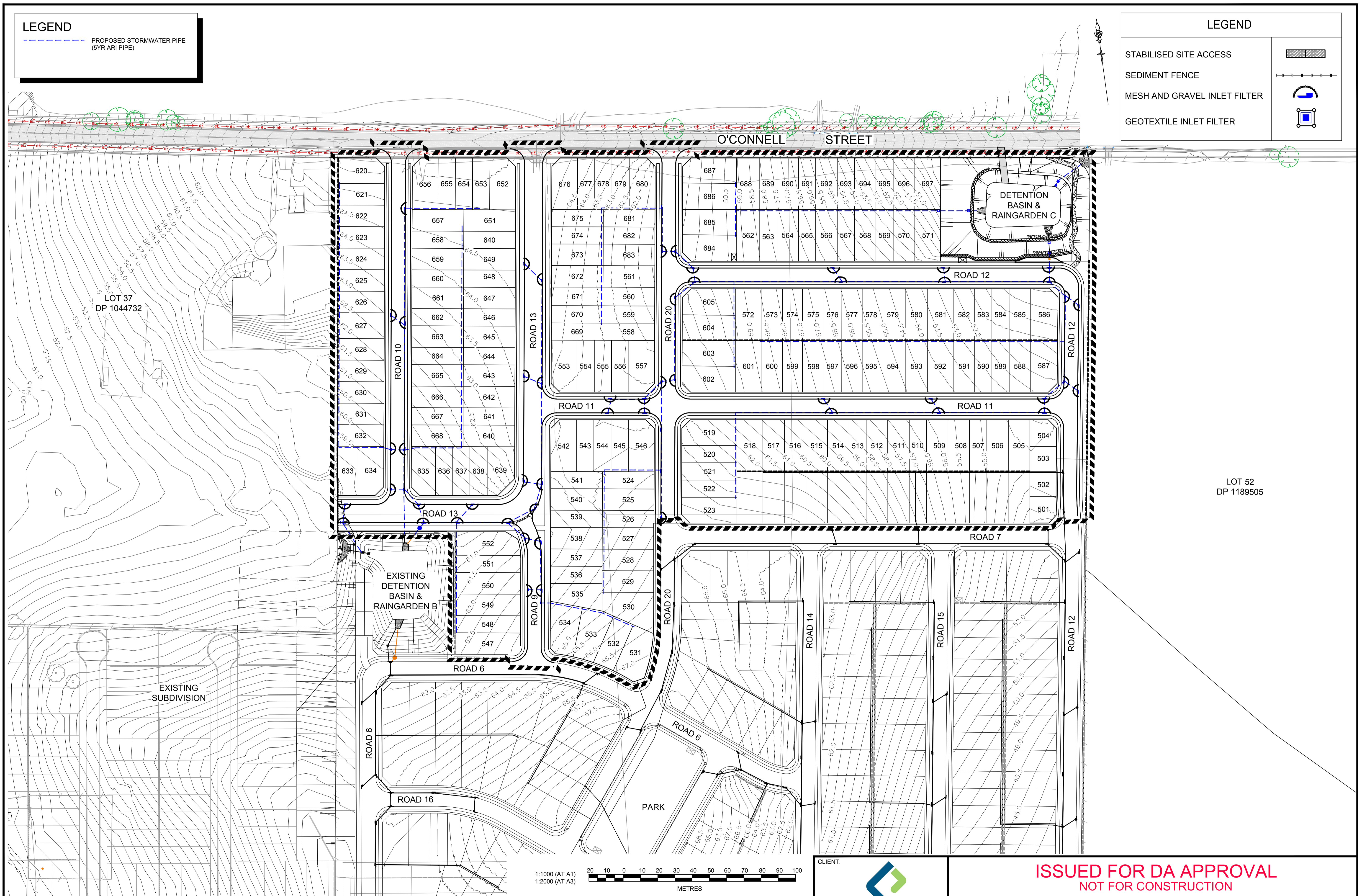
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LEGEND

--- PROPOSED STORMWATER PIPE
(5YR ARI PIPE)

LEGEND

STABILISED SITE ACCESS
 SEDIMENT FENCE
 MESH AND GRAVEL INLET FILTER
 GEOTEXTILE INLET FILTER



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**CADDENS HILL
STAGE 5 - 6**

SOIL & WATER MANAGEMENT PLAN

PLAN No: 110358/DA512 **A**
 FILE No: 110358DA512
 SHEET SIZE: A1 ORIGINAL