

192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN - STAGE 1 CIVIL ENGINEERING DESIGN

DRAWING SCHEDULE

Plan number	Drawing Title
7663-DA-01-000	COVER SHEET
7663-DA-01-001	CAMPBELLTOWN COUNCIL NOTES - SHEET 1 OF 2
7663-DA-01-002	CAMPBELLTOWN COUNCIL NOTES - SHEET 2 OF 2
7663-DA-01-003	MASTER STAGING PLAN
7663-DA-01-004	EXISTING CONSTRAINTS PLAN
7663-DA-01-005	TREE REMOVAL & DEMOLITION PLAN
7663-DA-01-100	BULK EARTHWORKS PLAN
7663-DA-01-101	BULK EARTHWORKS SECTIONS SHEET 01 OF 08
7663-DA-01-102	BULK EARTHWORKS SECTIONS SHEET 02 OF 08
7663-DA-01-103	BULK EARTHWORKS SECTIONS SHEET 03 OF 08
7663-DA-01-104	BULK EARTHWORKS SECTIONS SHEET 04 OF 08
7663-DA-01-105	BULK EARTHWORKS SECTIONS SHEET 05 OF 08
7663-DA-01-106	BULK EARTHWORKS SECTIONS SHEET 06 OF 08
7663-DA-01-107	BULK EARTHWORKS SECTIONS SHEET 07 OF 08
7663-DA-01-108	BULK EARTHWORKS SECTIONS SHEET 08 OF 08
7663-DA-01-200	ENGINEERING PLAN - STAGE 1
7663-DA-01-201	ENGINEERING MASTERPLAN SHEET 01 OF 02
7663-DA-01-202	ENGINEERING MASTERPLAN SHEET 02 OF 02
7663-DA-01-300	TYPICAL ROAD CROSS SECTIONS
7663-DA-01-310	ROAD LONGITUDINAL SECTIONS SHEET 01 OF 05
7663-DA-01-311	ROAD LONGITUDINAL SECTIONS SHEET 02 OF 05
7663-DA-01-312	ROAD LONGITUDINAL SECTIONS SHEET 03 OF 05
7663-DA-01-313	ROAD LONGITUDINAL SECTIONS SHEET 04 OF 05
7663-DA-01-314	ROAD LONGITUDINAL SECTIONS SHEET 05 OF 05
7663-DA-01-320	SIGNAGE & LINE MARKING PLAN
7663-DA-01-330	VEHICLE SWEPT PATH SHEET 01 OF 03
7663-DA-01-331	VEHICLE SWEPT PATH SHEET 02 OF 03
7663-DA-01-332	VEHICLE SWEPT PATH SHEET 03 OF 03
7663-DA-01-340	RETAINING WALL & FENCING PLAN - STAGE 1
7663-DA-01-341	RETAINING WALL TYPICAL DETAILS - SPLIT FACE MASONRY
7663-DA-01-342	RETAINING WALL TYPICAL DETAILS - STACKED ROCK WALL
7663-DA-01-343	RETAINING WALL TYPICAL DETAILS - INTERALLOTMENT STORMWATER
7663-DA-01-400	CATCHMENT PLAN - PRE DEVELOPMENT
7663-DA-01-401	CATCHMENT PLAN - ULTIMATE
7663-DA-01-450	BASIN No.01 PLAN
7663-DA-01-451	BASIN No.01 SECTIONS
7663-DA-01-452	BASIN No.01 DETAILS
7663-DA-01-500	EROSION AND SEDIMENT CONTROL PLAN
7663-DA-01-501	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
7663-DA-01-600	STREET TREE PLAN
7663-DA-01-601	STREET TREE NOTES & LEGENDS



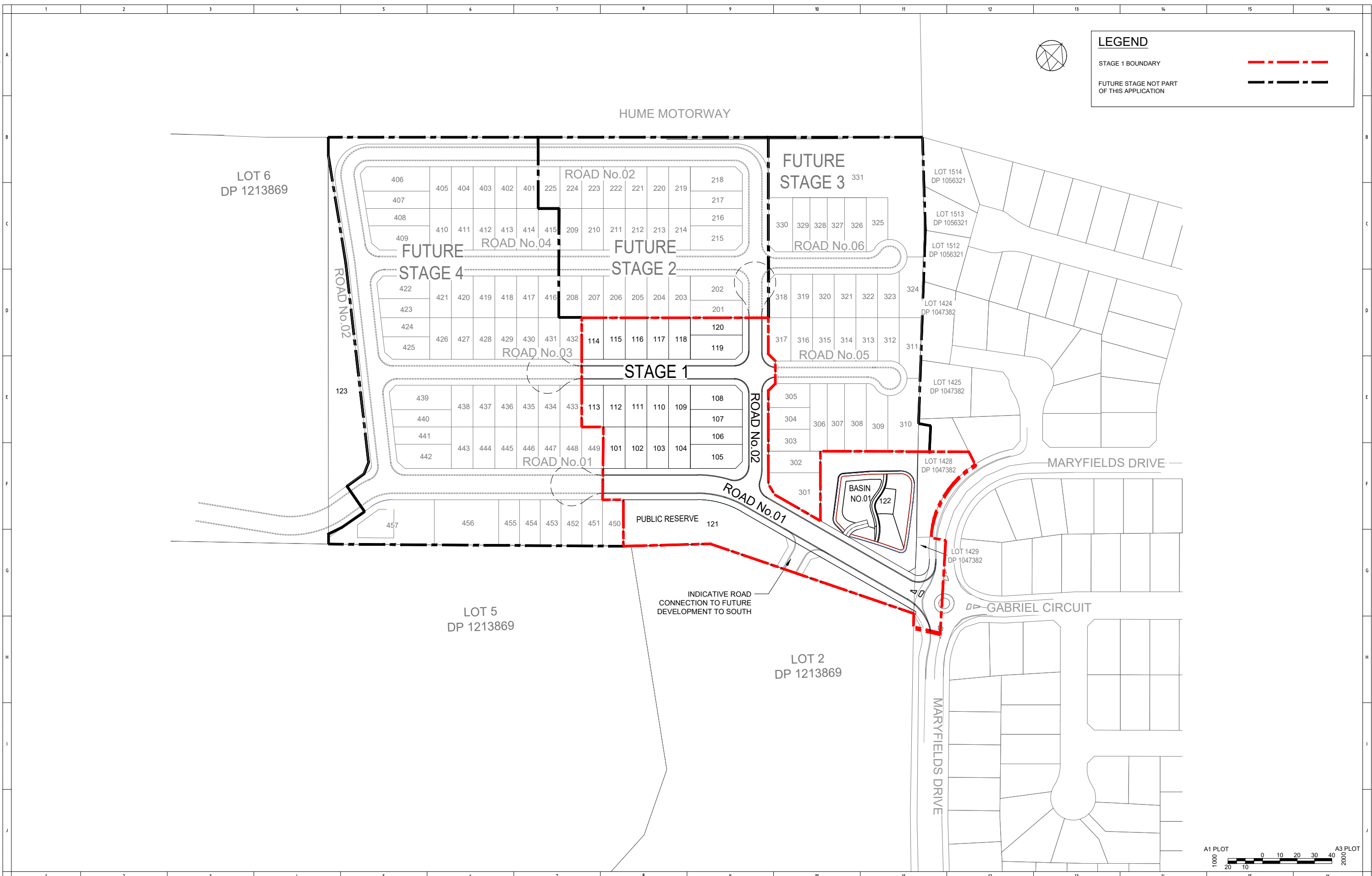
LOCALITY PLAN
NTS

DEVELOPMENT APPLICATION

PROPONENT:



REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021



1		2		3		4	
REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2022	




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INDESCO PTY LTD
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4 Parramatta Square
12 Darcy Street
Parramatta NSW 2150
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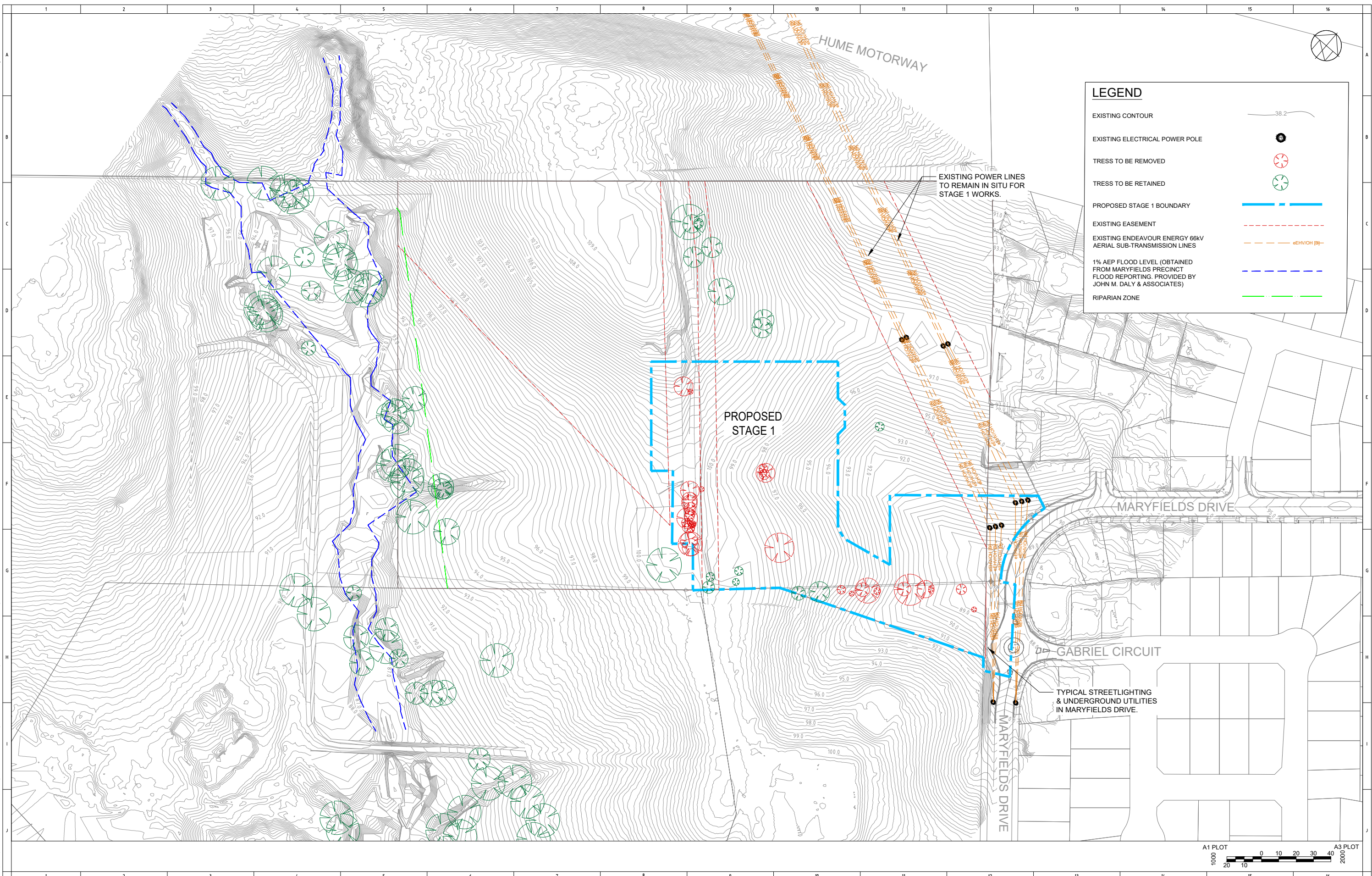
www.indesco.com.au
ABN: 37 008 581 066

PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT		
CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		
SCALE 1:1000	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE	
MASTER STAGING PLAN	
DRAWING NUMBER	REVISION
003	A



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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VJK	AM	OW	OW	21/07/2024	




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ABN: 37 008 581 066

PROJECT TITLE	11	12
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

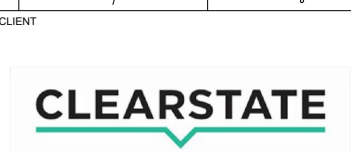
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SCALE	COORDINATE SYSTEM	DATUM	
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SHEET SIZE	PROJECT NUMBER		
A1	7663-DA-01		

	12	10
DRAWING TITLE		
EXISTING CONSTRAINTS		
PLAN		

DRAWING NUMBER	REVISION
004	A



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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE		
A	ISSUED FOR DEVELOPMENT APPLICATION	VJK	AM	OW	OW	21/07/2024		



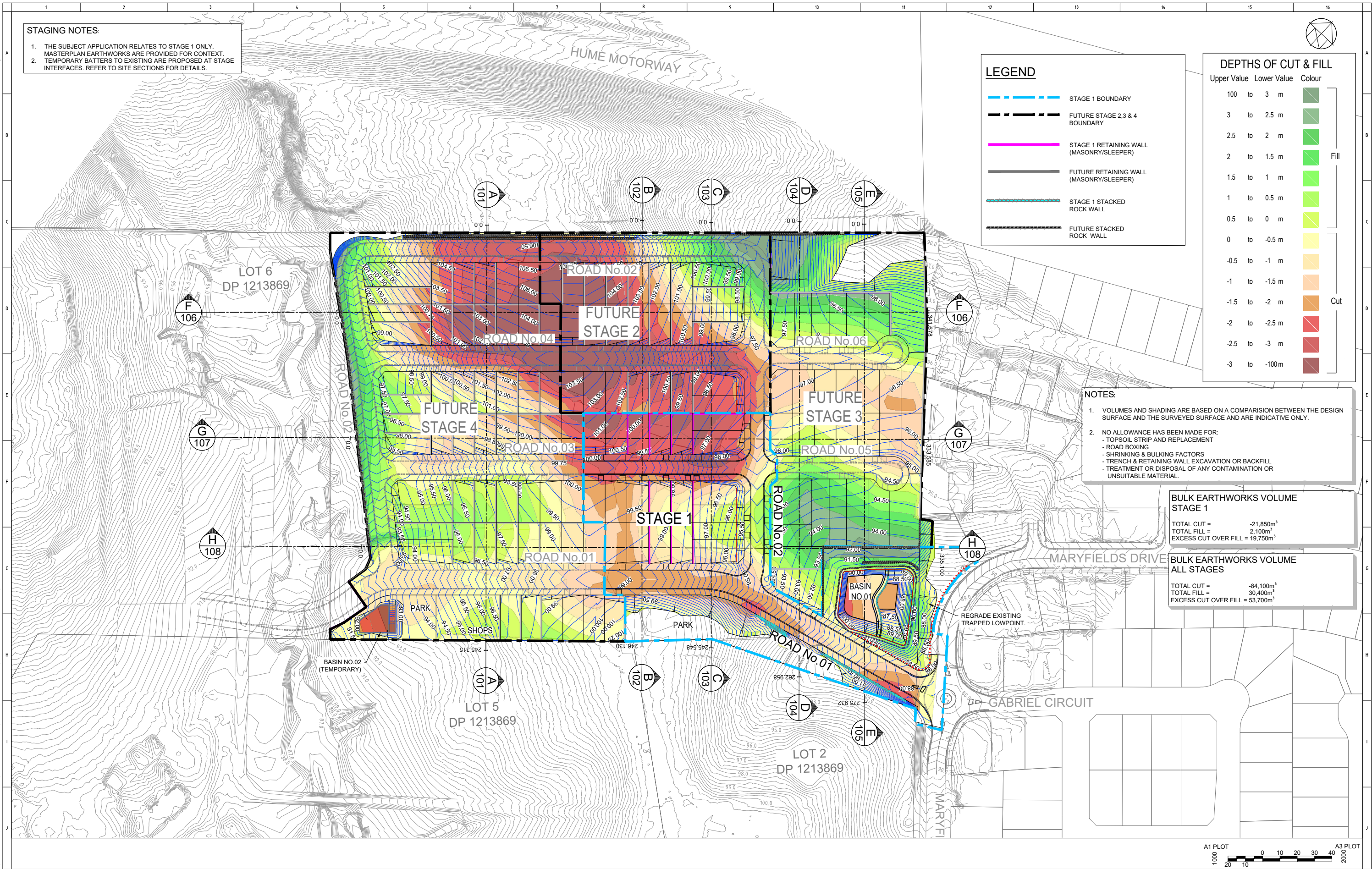
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PROJECT TITLE		
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

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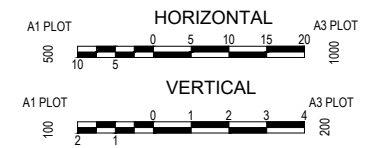
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DRAWING TITLE	TREE REMOVAL & DEMOLITION PLAN	

DRAWING NUMBER
005

REVISION
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A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021		



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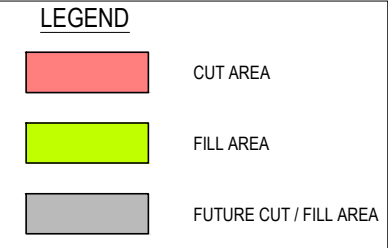
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192 NARELLAN ROAD
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CAMPBELLTOWN
STAGE 1

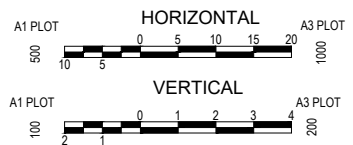
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CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE
**BULK EARTHWORKS
SECTIONS
SHEET 01 OF 08**

DRAWING NUMBER	REVISION
101	A



100



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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021	

CLIENT

CLEARSTATE



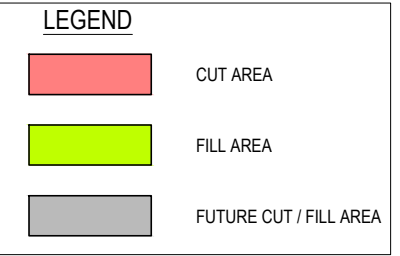
PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

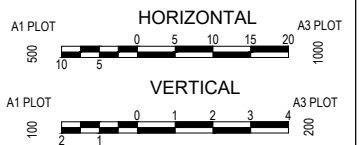
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DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE
BULK EARTHWORKS
SECTIONS
SHEET 02 OF 08

DRAWING NUMBER	REVISION
102	A



C SITE SECTION



1		2		3			4	
REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE		
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021		

CLIENT

CLEARSTATE



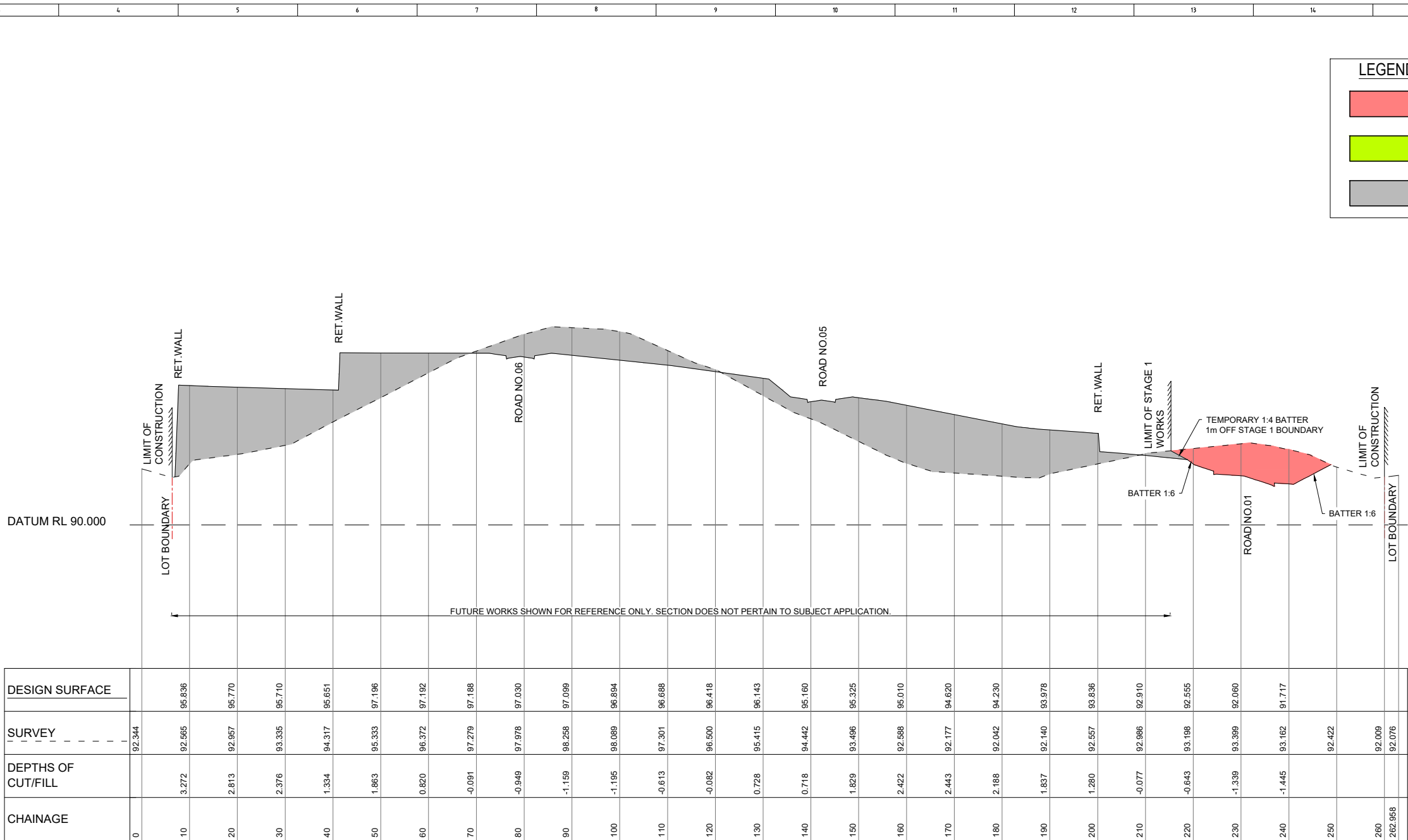
PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

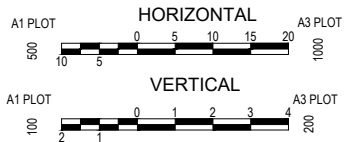
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DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE
BULK EARTHWORKS
SECTIONS
SHEET 03 OF 08

DRAWING NUMBER	REVISION
103	A



D SITE SECTION
100



REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021

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PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT

CLEARSTATE CAMNARR192 PTY LTD

DRAWING STATUS

APPROVAL

SCALE AS SHOWN

A1

COORDINATE SYSTEM

GDA 2020

DATUM

AHD

SHEET NUMBER

7663-DA-01

DRAWING TITLE

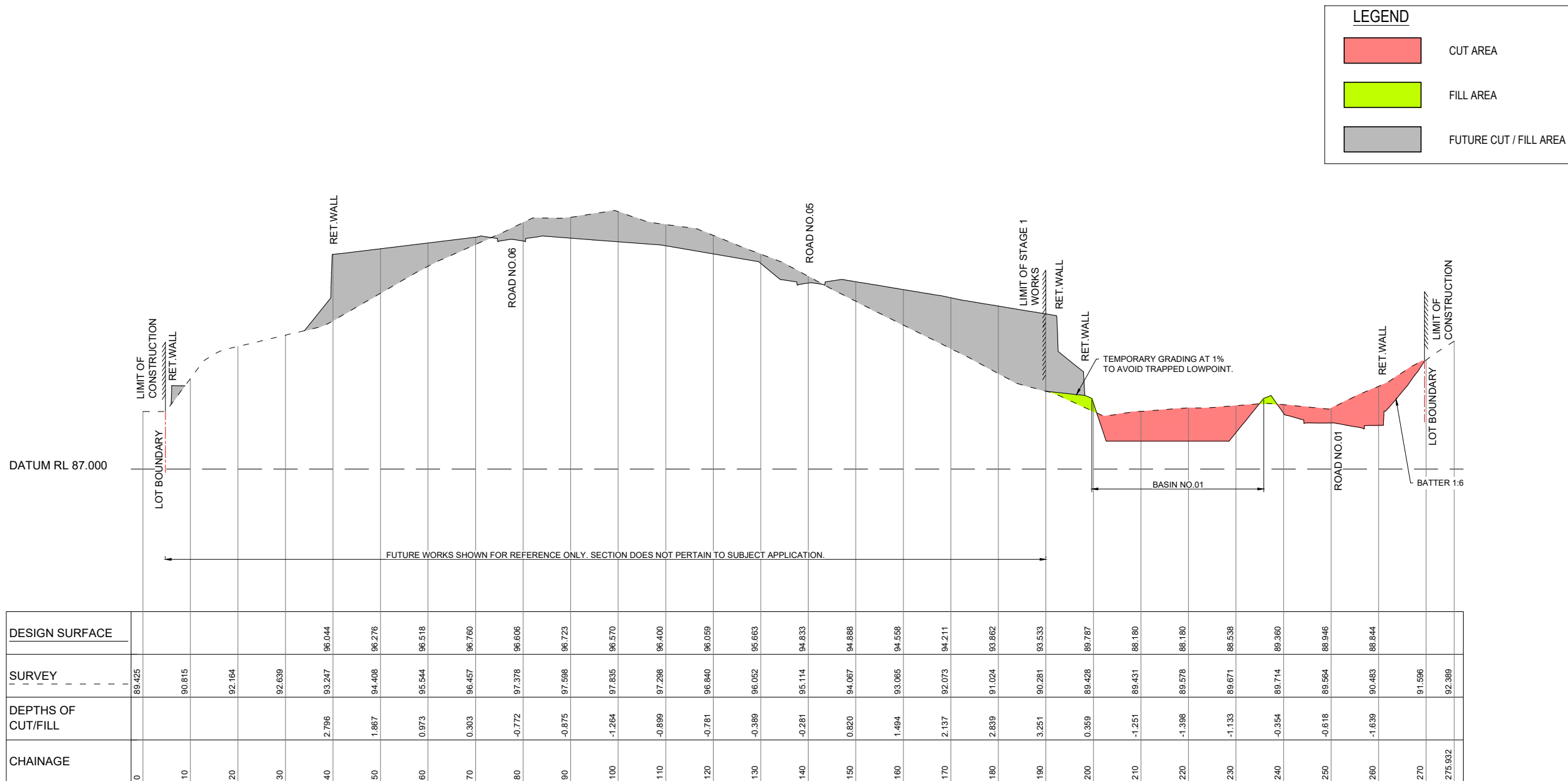
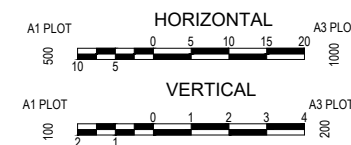
BULK EARTHWORKS
SECTIONS
SHEET 04 OF 08

DRAWING NUMBER

104

REVISION

A

E SITE SECTION
100

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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021	

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PROJECT TITLE

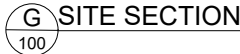
192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT		
CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

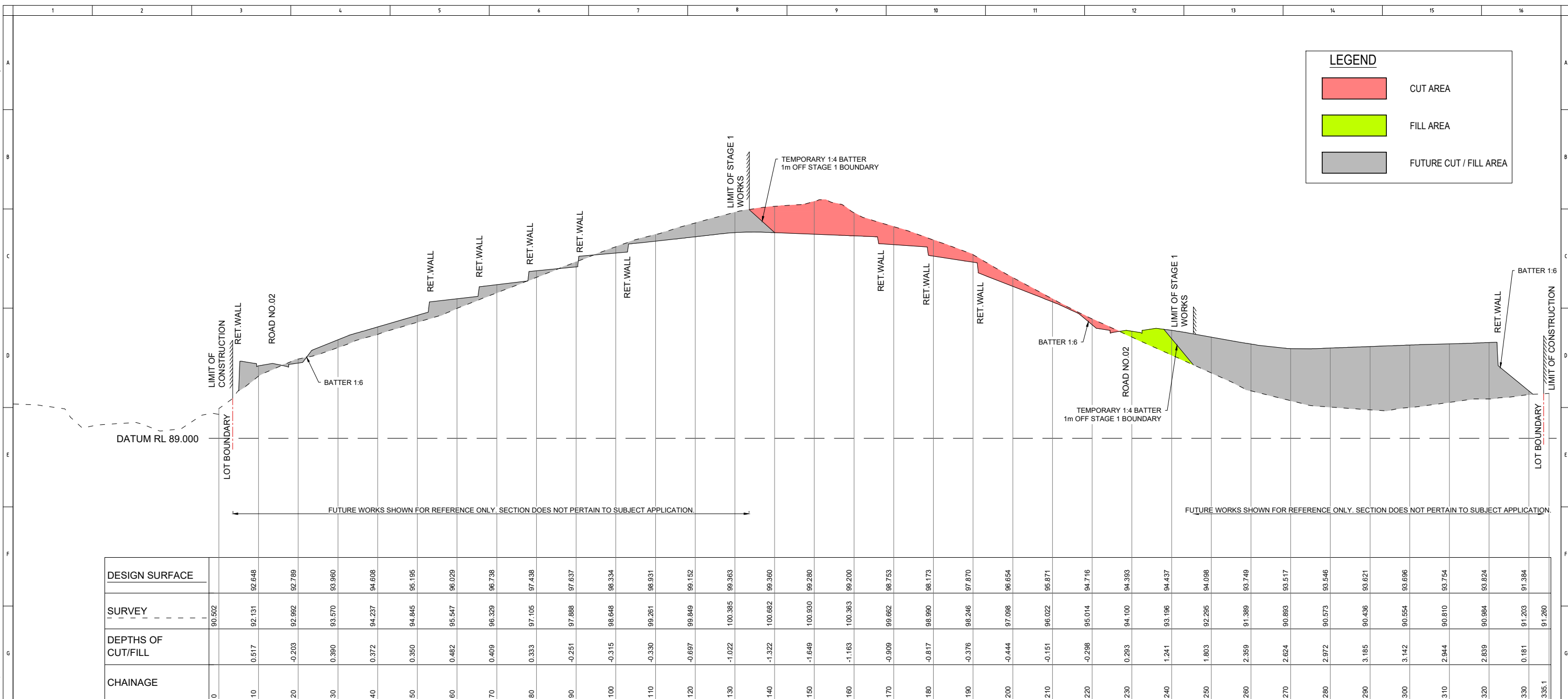
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BULK EARTHWORKS SECTIONS SHEET 05 OF 08	
DRAWING NUMBER	REVISION
105	A



DRAWING TITLE	
BULK EARTHWORKS SECTIONS SHEET 06 OF 08	
DRAWING NUMBER	REVISION
106	A



DRAWING TITLE	
BULK EARTHWORKS SECTIONS SHEET 07 OF 08	
DRAWING NUMBER	REVISION
107	A

H SITE SECTION
100

1		2		3		4	
REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED		DATE
A	ISSUED FOR DEVELOPMENT APPLICATION	VJK	AM	OW	OW		21/07/2024

CLIENT

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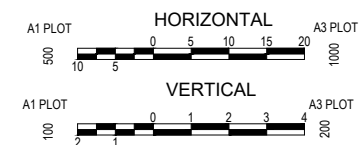
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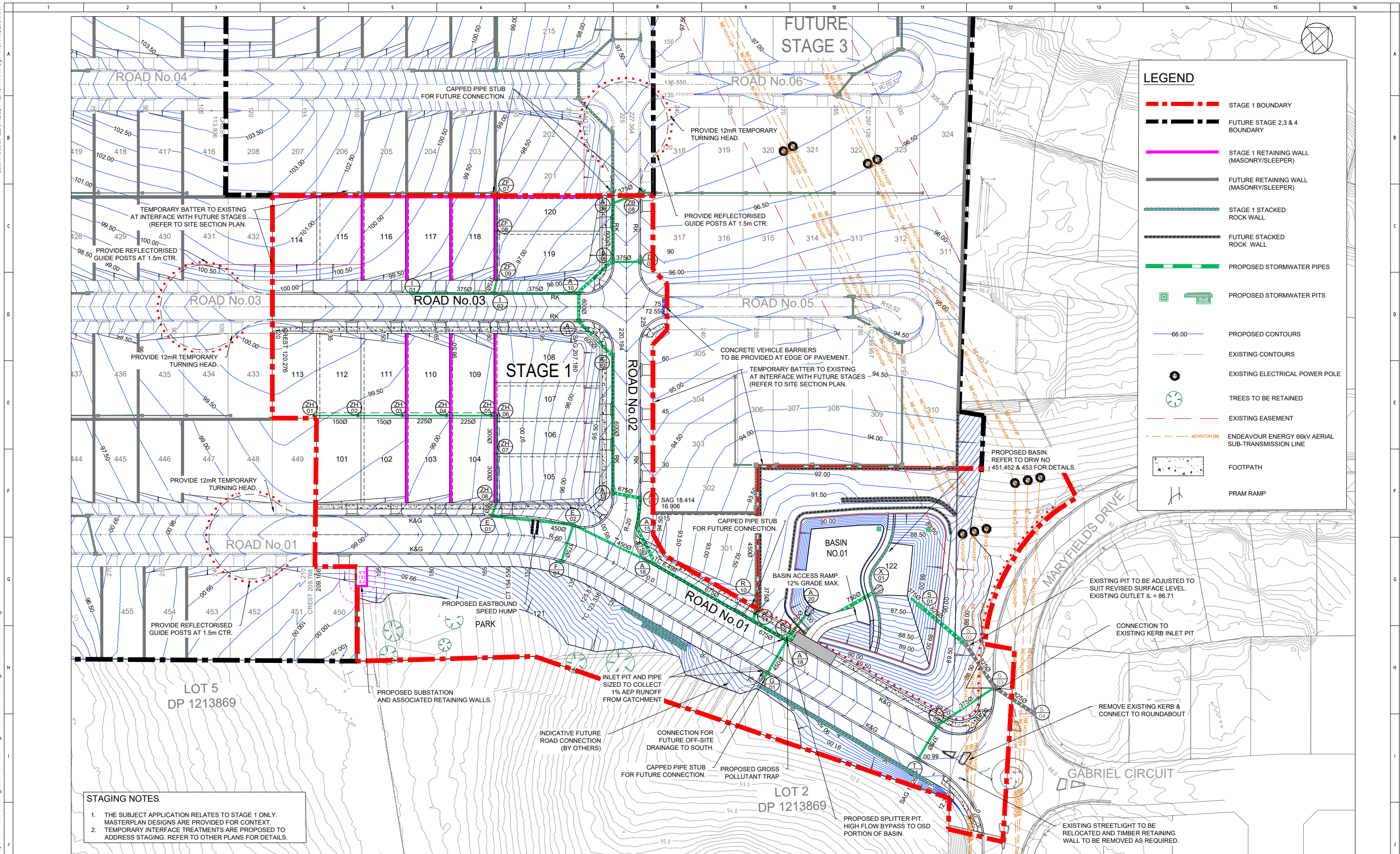
PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT		
CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE	
BULK EARTHWORKS SECTIONS SHEET 08 OF 08	
DRAWING NUMBER	REVISION
108	A



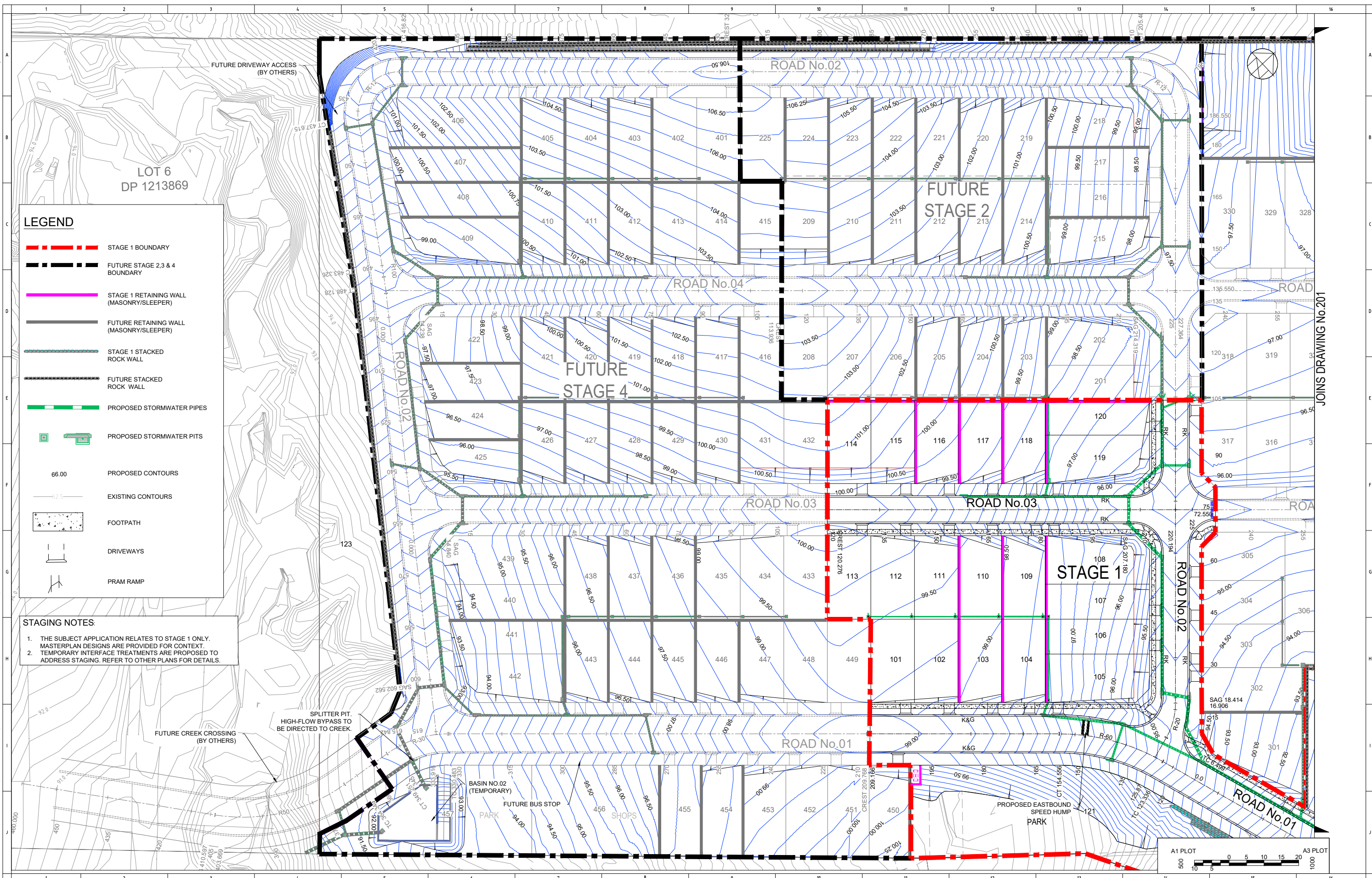


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1	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021

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192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT
CLEARSTATE CAMNARR192 PTY LTD
DRAWING STATUS
APPROVAL
SCALE
1:500
COORDINATE SYSTEM
GDA 2020
DATUM
AHD
SHEET SIZE
A1
PROJECT NUMBER
7663-DA-01
DRAWING NUMBER
200
REVISION
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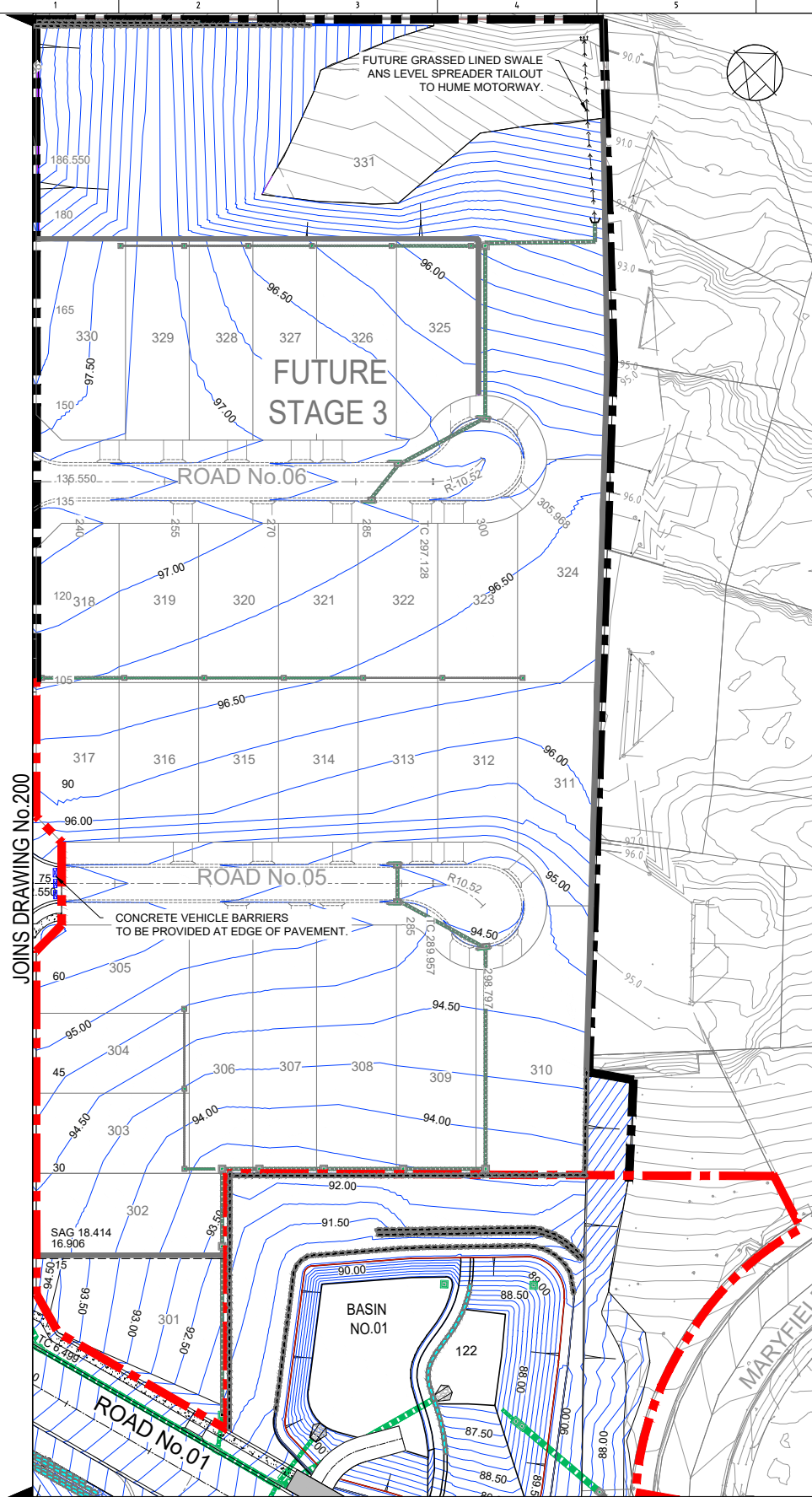


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A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2022	

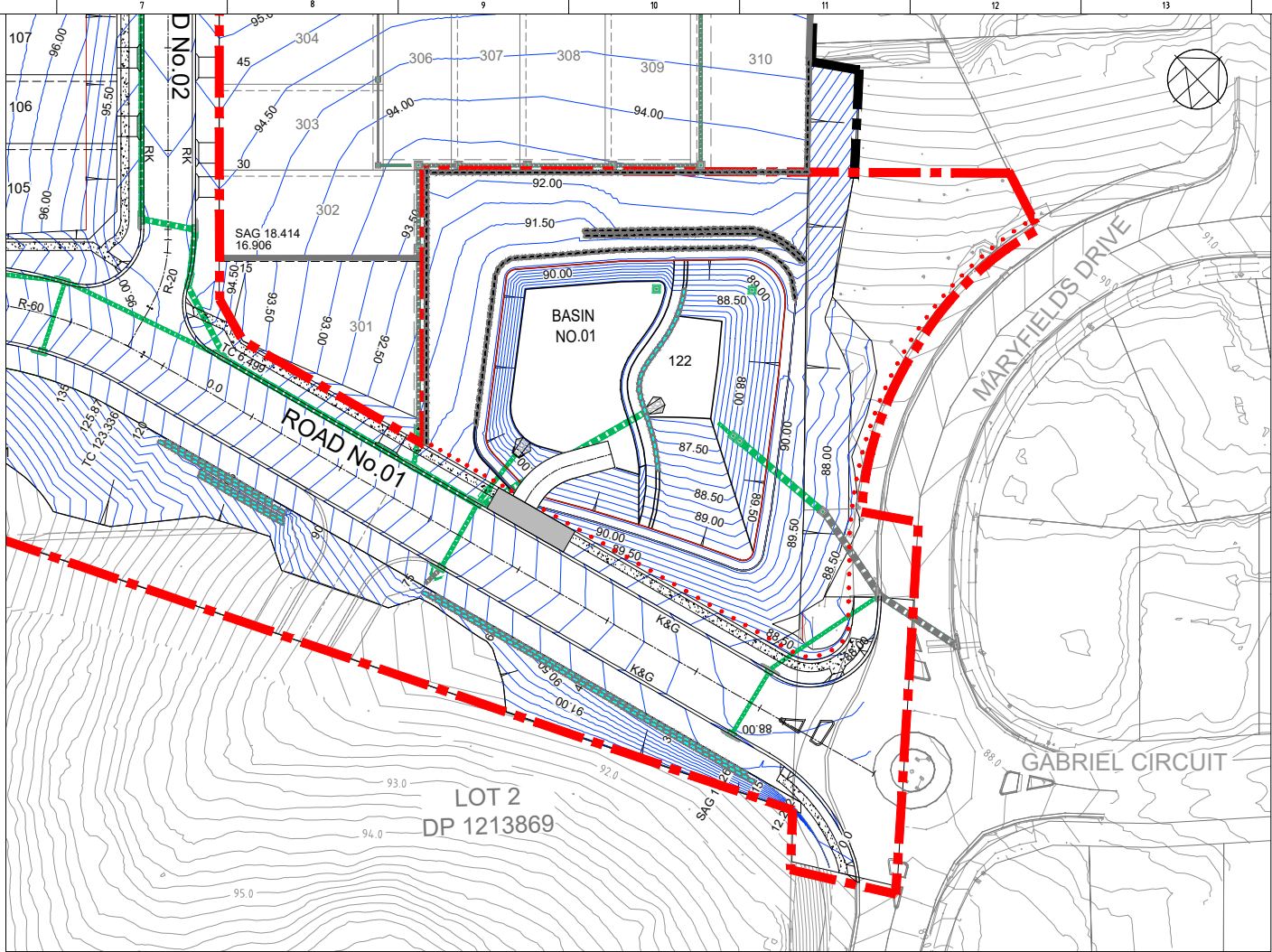
CLEARSTATE	 INDESCO INDESCO PTY LTD Suite 2.03, Level 2 4 Paramatta Square 12 Darcy Street Parramatta NSW 2150 (02) 9633 2273 www.indesco.com.au ABN: 37 008 581 066	PROJECT TITLE 192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1	CLIENT CLEARSTATE CAMNARR192 PTY LTD DRAWING STATUS APPROVAL SCALE 1:500 COORDINATE SYSTEM GDA 2020 DATUM AHD SHEET SIZE A1 PROJECT NUMBER 7663-DA-01	DRAWING TITLE ENGINEERING MASTERPLAN SHEET 01 OF 02 DRAWING NUMBER 201 REVISION A
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Last Saved: 21/07/2021 2:47:45 PM By: VISH KULKARNI
Last Plotted: 21/07/2021 4:45:10 PM By: VISH KULKARNI

CAD File: S:\7663 192 Narellan Road (Lot 4), Campbelltown\20 Drawings\20.1 Civil\02 Stage\101 Current Drawings\7663-DA-01-201-202.dwg



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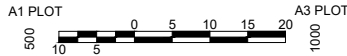
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SCALE 1:500

LEGEND

- STAGE 1 BOUNDARY
- FUTURE STAGE 2,3 & 4 BOUNDARY
- STAGE 1 RETAINING WALL (MASONRY/SLEEPER)
- FUTURE RETAINING WALL (MASONRY/SLEEPER)
- STAGE 1 STACKED ROCK WALL
- FUTURE STACKED ROCK WALL
- PROPOSED STORMWATER PIPES
- PROPOSED STORMWATER PITS
- PROPOSED CONTOURS
- EXISTING CONTOURS
- FOOTPATH
- DRIVEWAYS
- PRAM RAMP

STAGING NOTES

- THE SUBJECT APPLICATION RELATES TO STAGE 1 ONLY. MASTERPLAN DESIGNS ARE PROVIDED FOR CONTEXT.
- TEMPORARY INTERFACE TREATMENTS ARE PROPOSED TO ADDRESS STAGING. REFER TO OTHER PLANS FOR DETAILS.



REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
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CLIENT

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PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT
CLEARSTATE CAMNARR192 PTY LTD

DRAWING STATUS
APPROVAL

SCALE 1:500	COORDINATE SYSTEM GDA 2020	DATUM AHD
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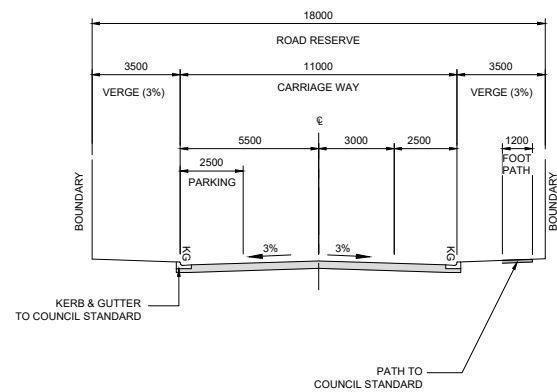
SHEET SIZE
A1

PROJECT NUMBER
7663-DA-01

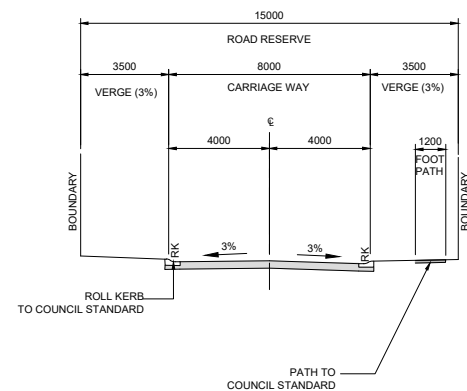
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**ENGINEERING MASTERPLAN
SHEET 02 OF 02**

DRAWING NUMBER
202

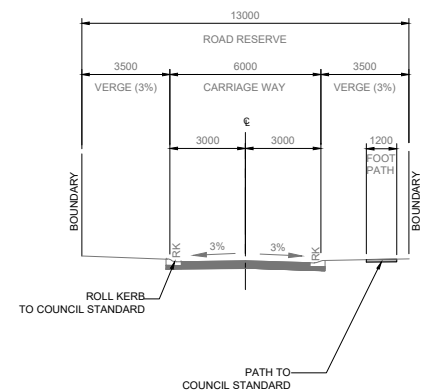
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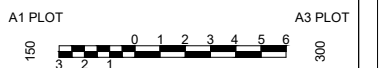
ROAD NO.01 TYPICAL CROSS SECTION



ROAD NO.02 & 03 TYPICAL CROSS SECTION



FUTURE ROAD NO.05
TYPICAL CROSS SECTION



1		2		3		4	
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PROJECT TITLE	11	12
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

CLIENT	13	14
CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		

SCALE 1:150	COORDINATE SYSTEM GDA 2020
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01

	15	
DRAWING TITLE		
TYPICAL ROAD CROSS SECTIONS		

DRAWING NUMBER	REVISION
300	A



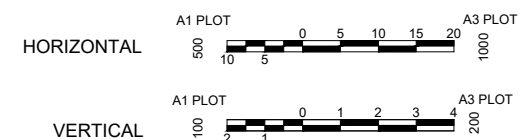
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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE		
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7		8		9		10		11		12		13		14		15		16	
CLIENT				  INDESCO PTY LTD Suite 2.03, Level 2 4 Parramatta Square 12 Darcy Street Parramatta NSW 2150 (02) 9633 2273 www.indesco.com.au ABN: 37 008 581 066				PROJECT TITLE				CLIENT CLEARSTATE CAMNARR192 PTY LTD				DRAWING TITLE ROAD LONGITUDINAL SECTIONS SHEET 01 OF 05			
								DRAWING STATUS											
								APPROVAL											
								SCALE AS SHOWN		COORDINATE SYSTEM GDA 2020		DATUM AHD		DRAWING NUMBER 310				REVISION A	
				SHEET SIZE A1		PROJECT NUMBER 7663-DA-01													



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7		8		9		10		11		12		13		14		15		16	
CLIENT				  INDESCO PTY LTD Suite 2.03, Level 2 4 Parramatta Square 12 Darcy Street Parramatta NSW 2150 (02) 9633 2273				PROJECT TITLE				CLIENT				DRAWING TITLE ROAD LONGITUDINAL SECTIONS SHEET 02 OF 05			
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1								CLEARSTATE CAMNARR192 PTY LTD											
								DRAWING STATUS											
								APPROVAL											
								SCALE AS SHOWN		COORDINATE SYSTEM GDA 2020		DATUM AHD		DRAWING NUMBER				REVISION	
SHEET SIZE A1		PROJECT NUMBER 7663-DA-01				311				A									



REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
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CLIENT

PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT

CLEARSTATE CAMNARR192 PTY LTD

DRAWING STATUS

APPROVAL

SCALE AS SHOWN

SHEET SIZE A1

COORDINATE SYSTEM

GDA 2020

DATUM AHD

PROJECT NUMBER

7663-DA-01

DRAWING TITLE

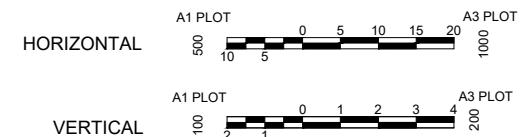
ROAD LONGITUDINAL SECTIONS SHEET 03 OF 05

DRAWING NUMBER

312

REVISION

A



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A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021	



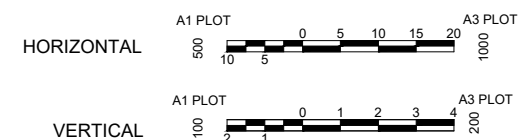

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ABN: 37 008 581 066

PROJECT TITLE	
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1	

CLIENT		
CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS		
APPROVAL		
SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE	
ROAD LONGITUDINAL SECTIONS	
SHEET 04 OF 05	

DRAWING NUMBER	REVISION
313	A



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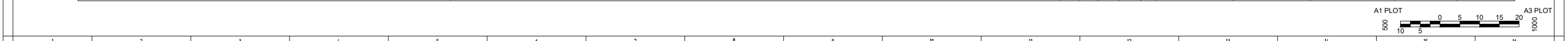



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PROJECT TITLE	
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1	

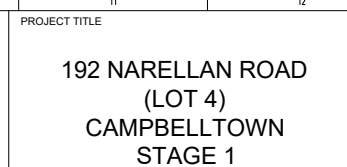
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SCALE AS SHOWN	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE	
ROAD LONGITUDINAL SECTIONS SHEET 05 OF 05	
DRAWING NUMBER	REVISION
314	A



CLIENT

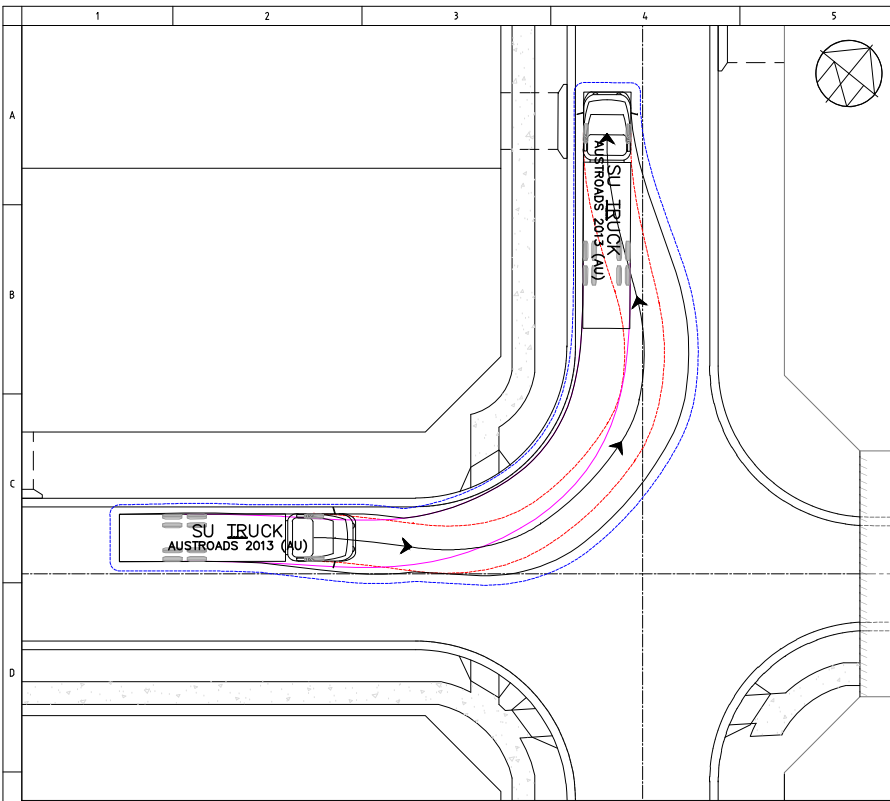
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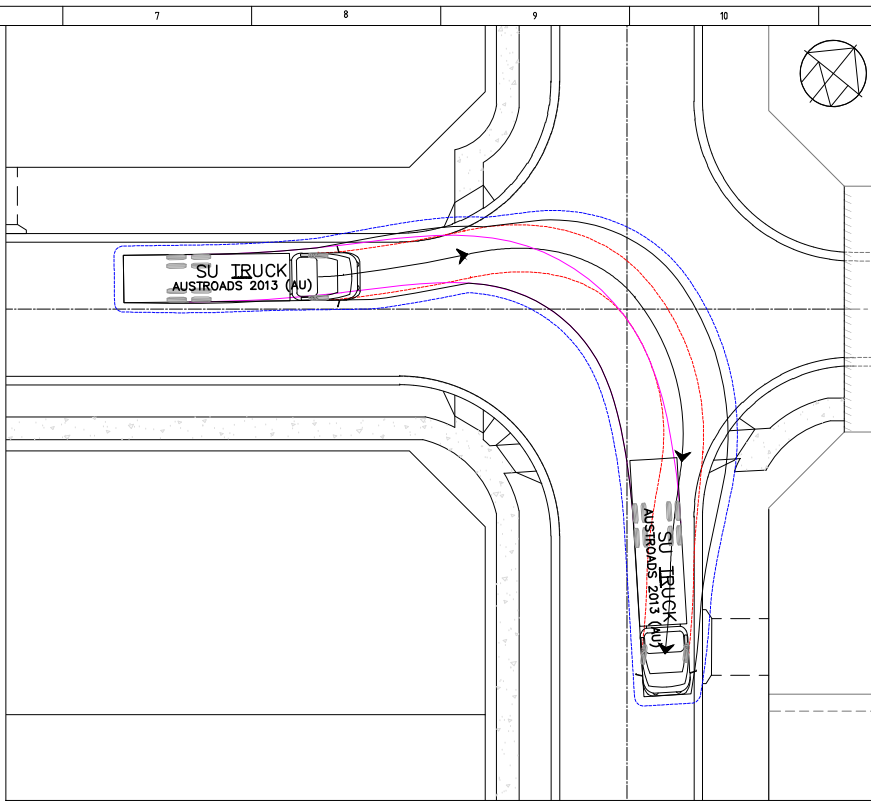
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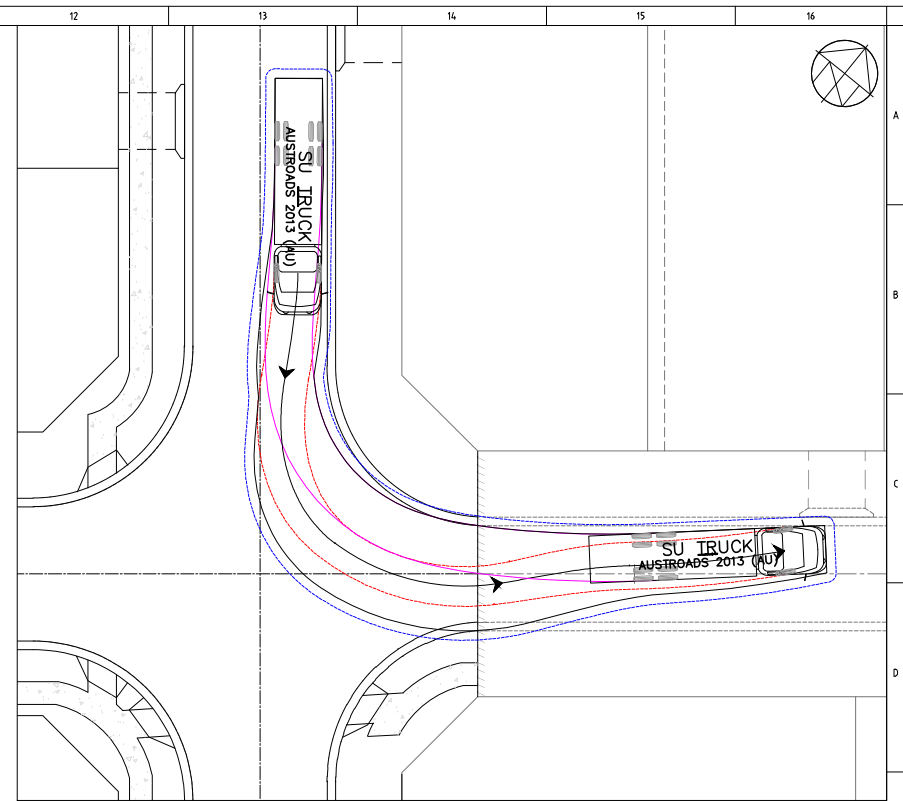
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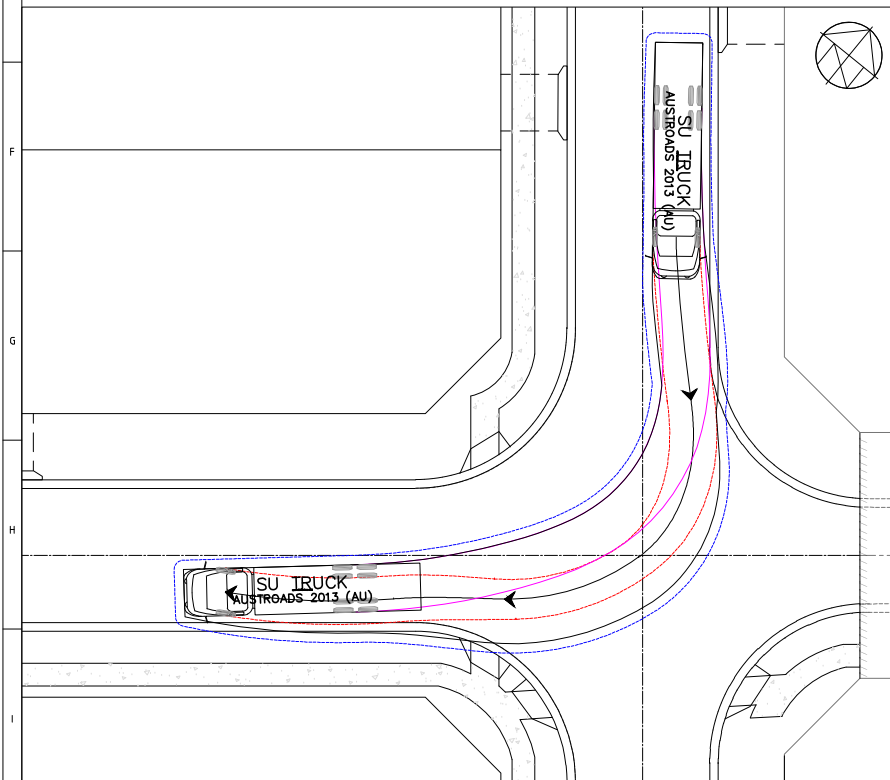
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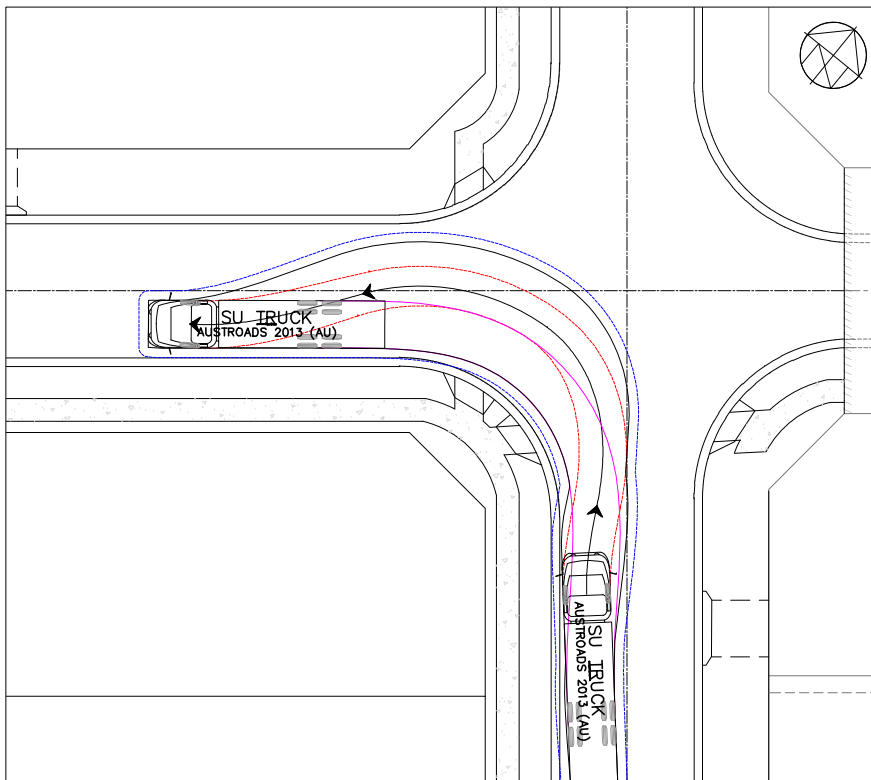
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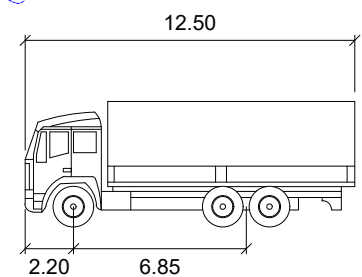
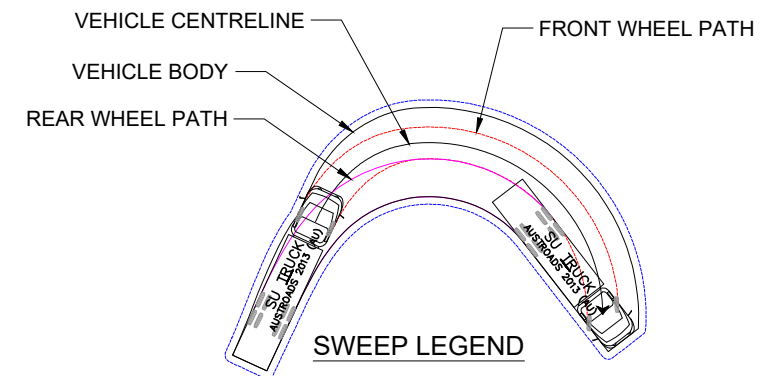
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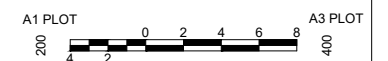


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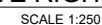


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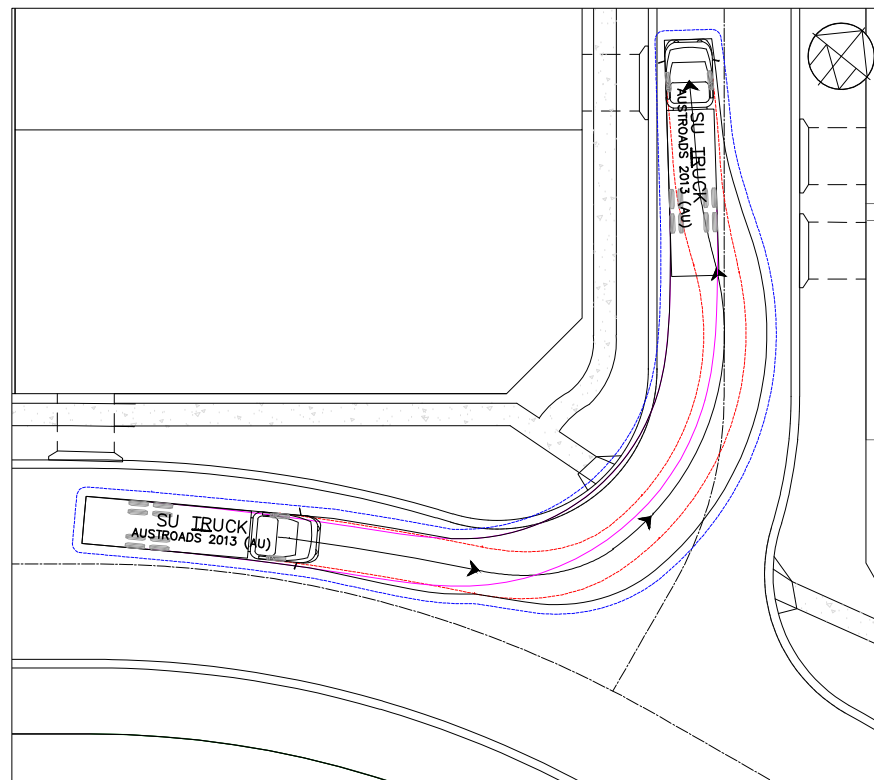
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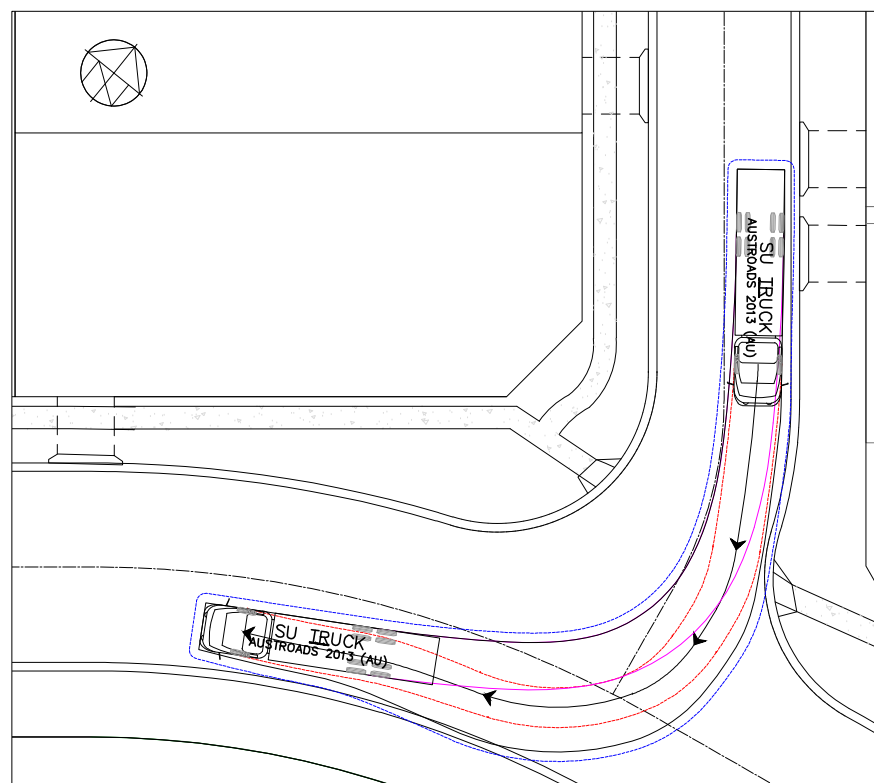
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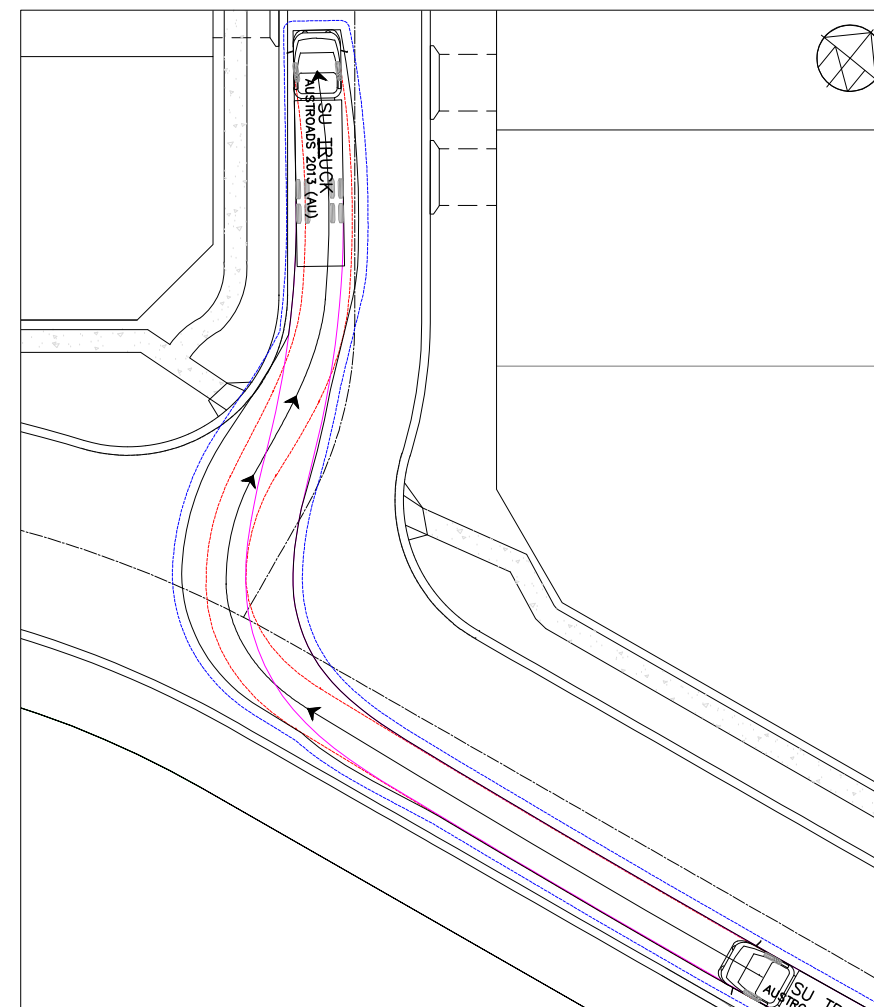
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SCALE 1:200	COORDINATE SYSTEM GDA 2020	DATUM AHD					
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01			DRAWING NUMBER 331		REVISION A	



SCALE 1:200



SCALE 1:200



SCALE 1:200

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A	ISSUED FOR DEVELOPMENT APPLICATION	AP	AM	OW	OW 21/07/2022

CLIENT

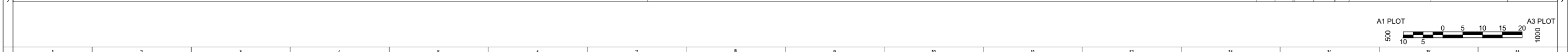
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	11	12
PROJECT TITLE		
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

13		16	
CLIENT CLEARSTATE CAMNARR192 PTY LTD		DRAWING TITLE VEHICLE SWEEP PATH SHEET 03 OF 03	
DRAWING STATUS APPROVAL			
SCALE 1:200	COORDINATE SYSTEM GDA 2020	DATUM AHD	
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	DRAWING NUMBER 332	REVISION A



CLIENT			
CLEARSTATE		INDESCO INDESCO PTY LTD Suite 2.03, Level 2 4 Parramatta Square 12 Darcy Street Parramatta NSW 2150 (02) 9633 2273	 INDESCO www.indesco.com.au ABN: 37 008 581 066

PROJECT TITLE 192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1	CLIENT CLEARSTATE CAMNARR192 PTY LTD		DRAWING TITLE RETAINING WALL & FENCING PLAN - STAGE 1	
	DRAWING STATUS APPROVAL			
	SCALE 1:500	COORDINATE SYSTEM GDA 2020	DATUM AHD	
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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021	


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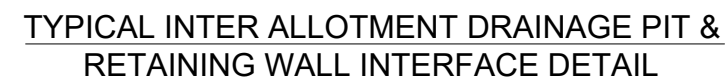
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ABN: 37 008 581 066

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1:20	GDA 2020	AHD	
SHEET SIZE	PROJECT NUMBER		
A1	7663-DA-01		

DRAWING TITLE		15	16
RETAINING WALL TYPICAL DETAILS - SPLIT FACE MASONRY			
DRAWING NUMBER		REVISION	
341		A	

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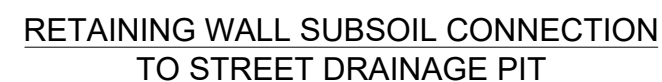
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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2024	

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PROJECT TITLE

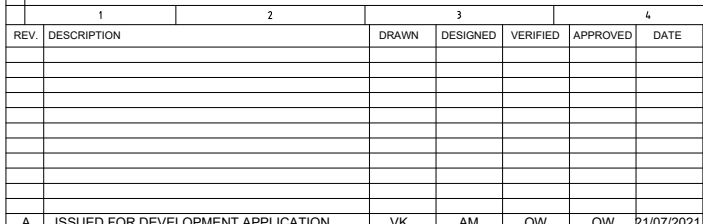
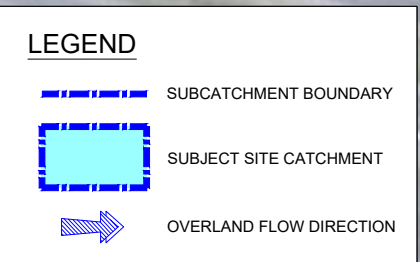
192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

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SCALE N.T.S	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE
RETAINING WALL
TYPICAL DETAILS -
INTERALLOTMENT
STORMWATER

DRAWING NUMBER
343

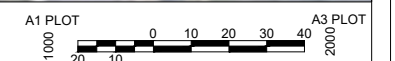
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PROJECT TITLE	
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1	

CLIENT		
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DRAWING STATUS		
APPROVAL		
SCALE 1:1000	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

DRAWING TITLE	
CATCHMENT PLAN - PRE DEVELOPMENT	
DRAWING NUMBER	REVISION
400	A



1		2		3			4	
REV.	DESCRIPTION		DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
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CLIENT

CLEARSTATE

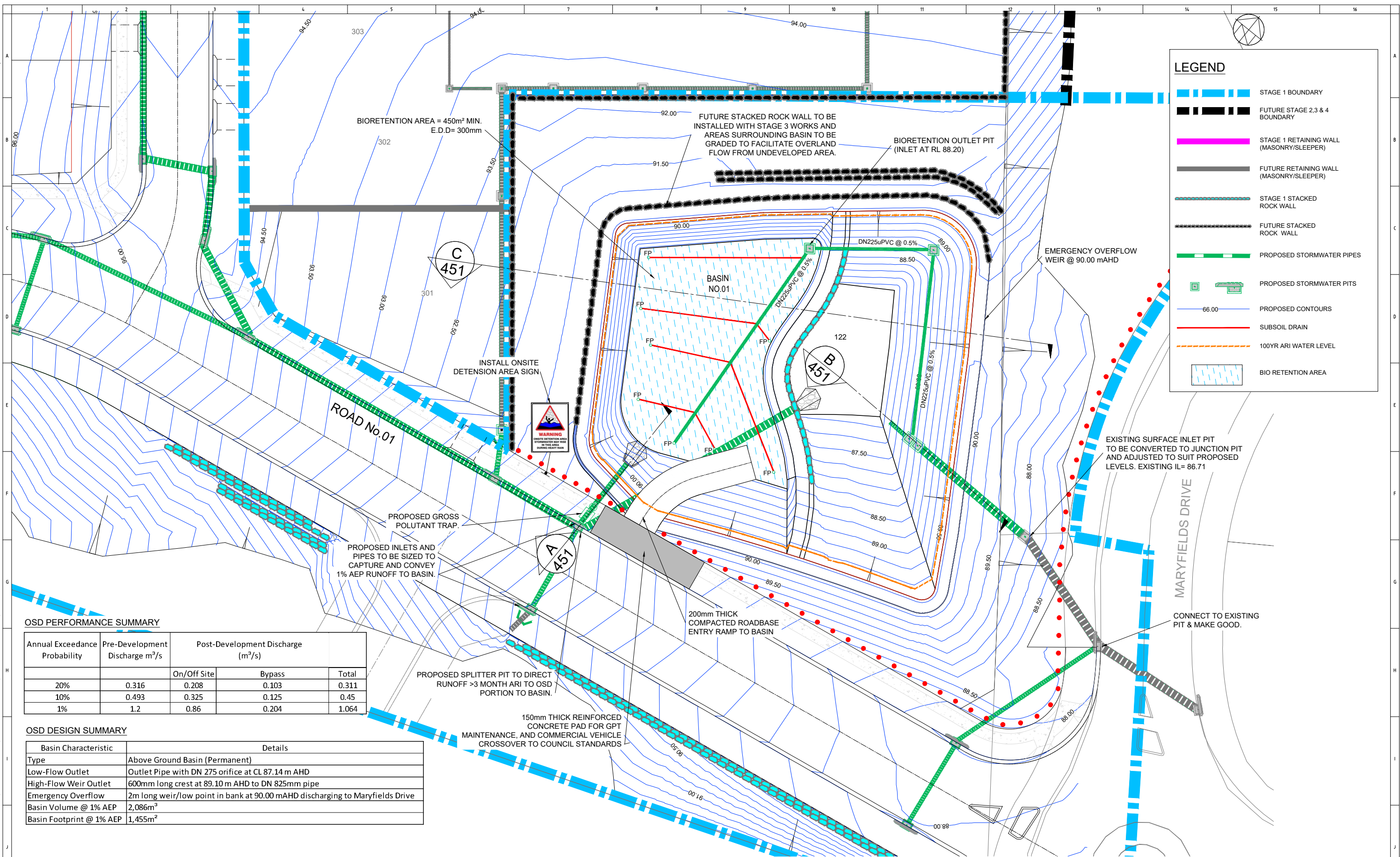

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	11	12
PROJECT TITLE		
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

CLIENT		12		14	
CLEARSTATE CAMNARR192 PTY LTD					
DRAWING STATUS					
APPROVAL					
SCALE 1:1000		COORDINATE SYSTEM GDA 2020		DATUM AHD	
SHEET SIZE A1		PROJECT NUMBER 7663-DA-01			

DRAWING TITLE	
CATCHMENT PLAN -	
ULTIMATE	

DRAWING NUMBER	REVISION
401	A



OSD PERFORMANCE SUMMARY				
Annual Exceedance Probability	Pre-Development Discharge m³/s	Post-Development Discharge (m³/s)		
		On/Off Site	Bypass	Total
20%	0.316	0.208	0.103	0.311
10%	0.493	0.325	0.125	0.45
1%	1.2	0.86	0.204	1.064

Basin Characteristic	Details
Type	Above Ground Basin (Permanent)
Low-Flow Outlet	Outlet Pipe with DN 275 orifice at CL 87.14 m AHD
High-Flow Weir Outlet	600mm long crest at 89.10 m AHD to DN 825mm pipe
Emergency Overflow	2m long weir/low point in bank at 90.00 mAHD discharging to Maryfields Drive
Basin Volume @ 1% AEP	2,086m ³
Basin Footprint @ 1% AEP	1,455m ²

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REV	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE		
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PROJECT TITLE

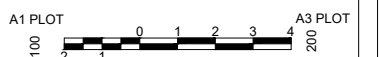
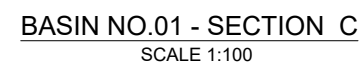
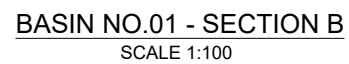
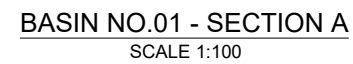
192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT CLEARSTATE CAMNARR192 PTY LTD		
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SCALE 1:200	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	

	DRAWING TITLE	
	BASIN No.01 PLAN	

DRAWING NUMBER
450

REVISION
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REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2022	

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PROJECT TITLE		
192 NARELLAN ROAD (LOT 4) CAMPBELLTOWN STAGE 1		

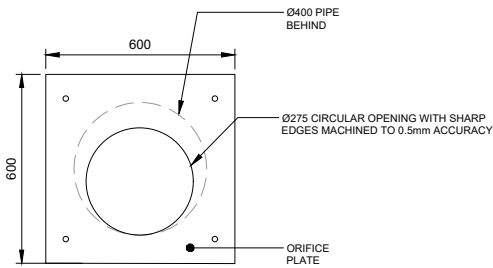
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A1		7663-DA-01			

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BASIN No.01 SECTIONS		

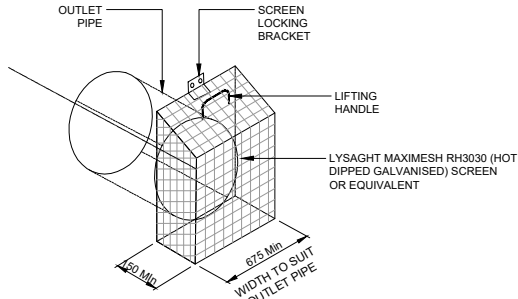
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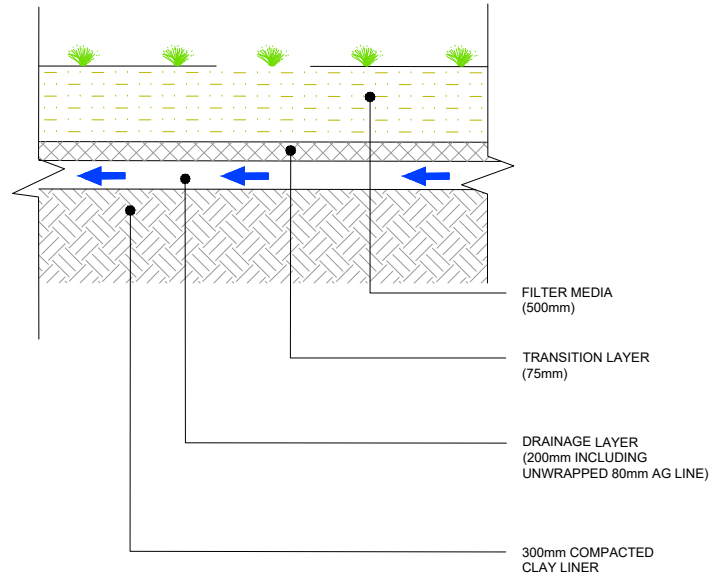
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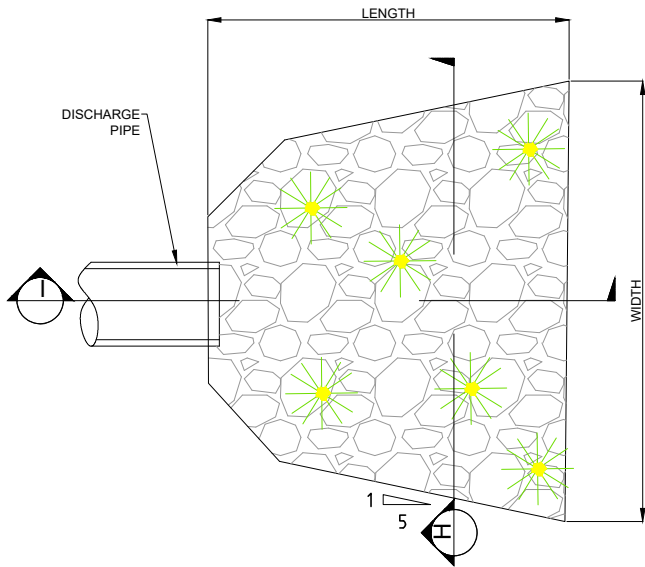
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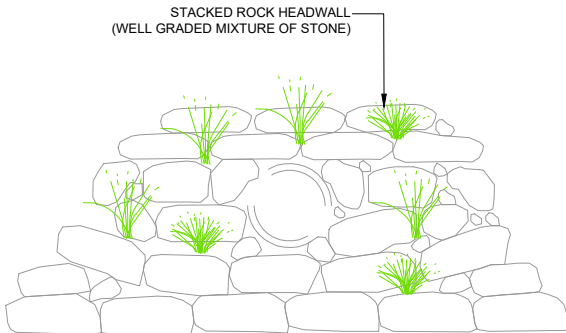
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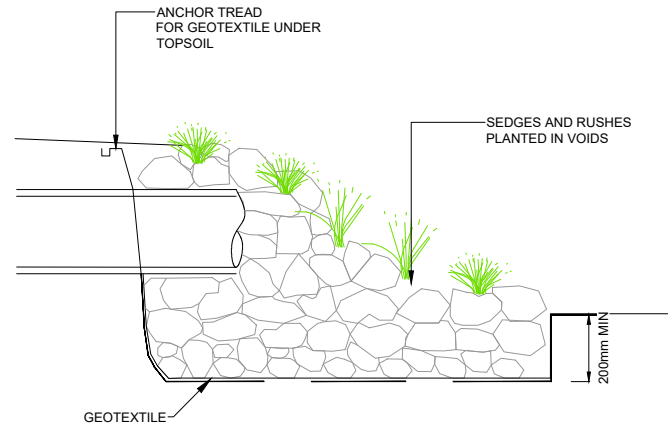
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SCALE: N.T.S



PLAN VIEW (TYPICAL STACKED ROCK HEADWALL)
SCALE: N.T.S



SECTION
NTS



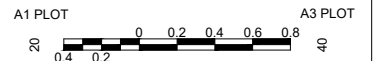
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DEVELOPMENT STAGES OF RAINGARDEN & DETENTION BASIN:

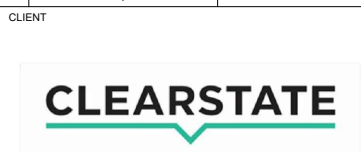
STAGE 1: DURING ROAD CONSTRUCTION, THE RAINGARDEN AND DETENTION BASIN TO BE FORMED IN EARTHWORKS AND USED AS TEMPORARY SEDIMENTATION BASIN. MEDIA BED AND SUBSOIL DRAINAGE NOT INSTALLED AT THIS STAGE.

STAGE 2: POST-ROAD CONSTRUCTION, BETWEEN RESIDENTIAL CONSTRUCTION AND FINAL COMMISSIONING OF RAINGARDEN/DETENTION BASIN, AN INTERM STRATEGY IS REQUIRED. THE EXISTING SEDIMENTATION BASIN BASE AND BATTERS SHOULD BE TURFED AND DEWATERING RISER INSTALLED. THE DETENTION FUNCTION OF BASIN WILL BE OPERATIONAL.

STAGE 3: WHEN ALL UPSTREAM HOUSE BUILDING ACTIVITIES HAVE BEEN SUBSTANTIALLY COMPLETED (APPROX 80%) THE RAINGARDEN TO BE FULLY COMMISSIONED. (TURF & SILT REMOVED AND FINAL PLANTINGS INSTALLED)



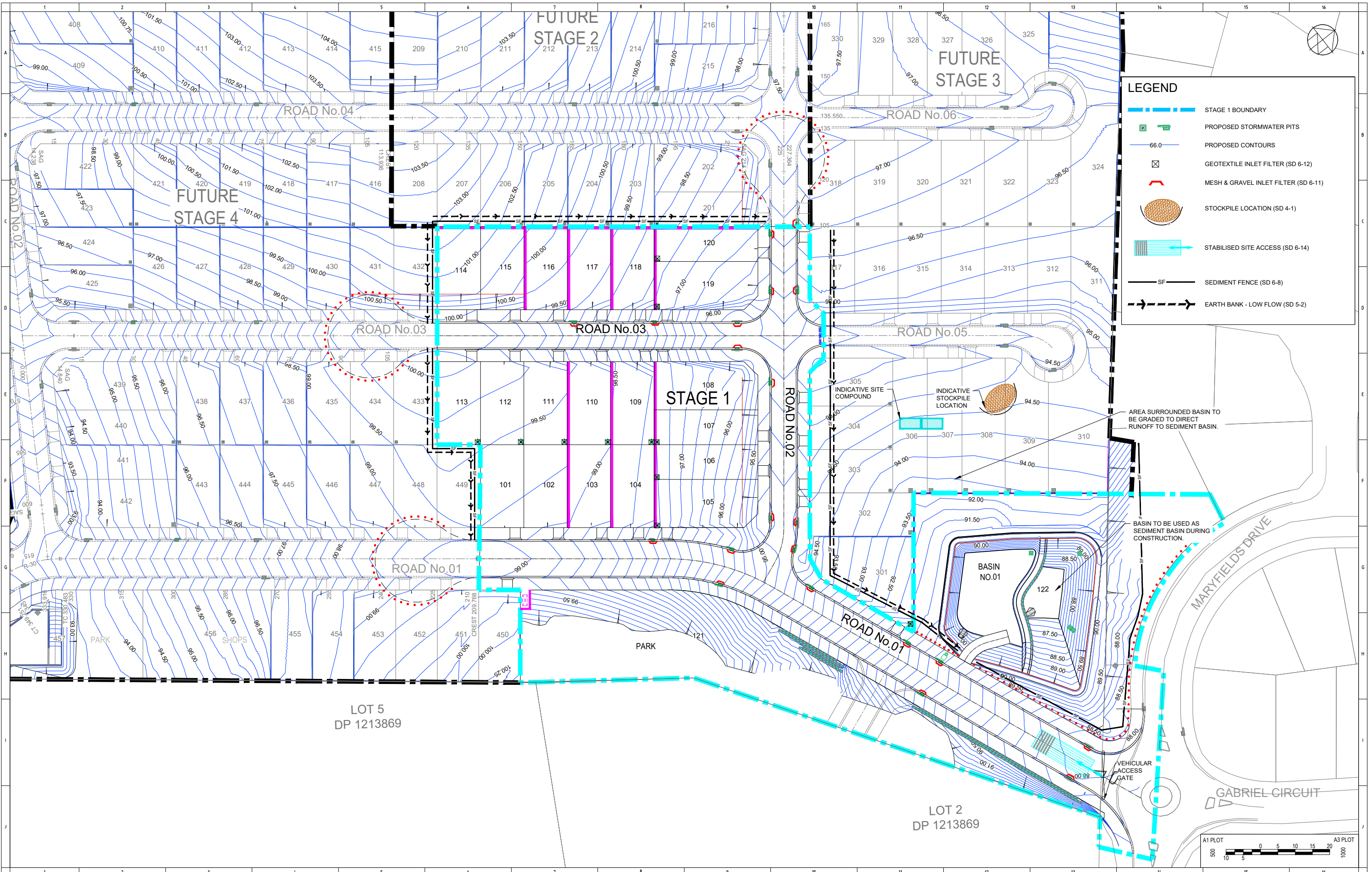
REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021



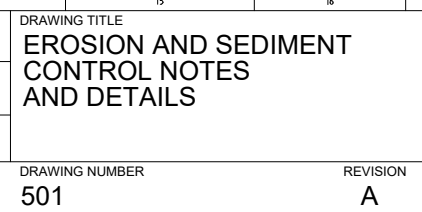
PROJECT TITLE
192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

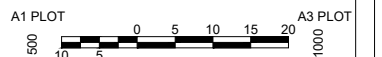
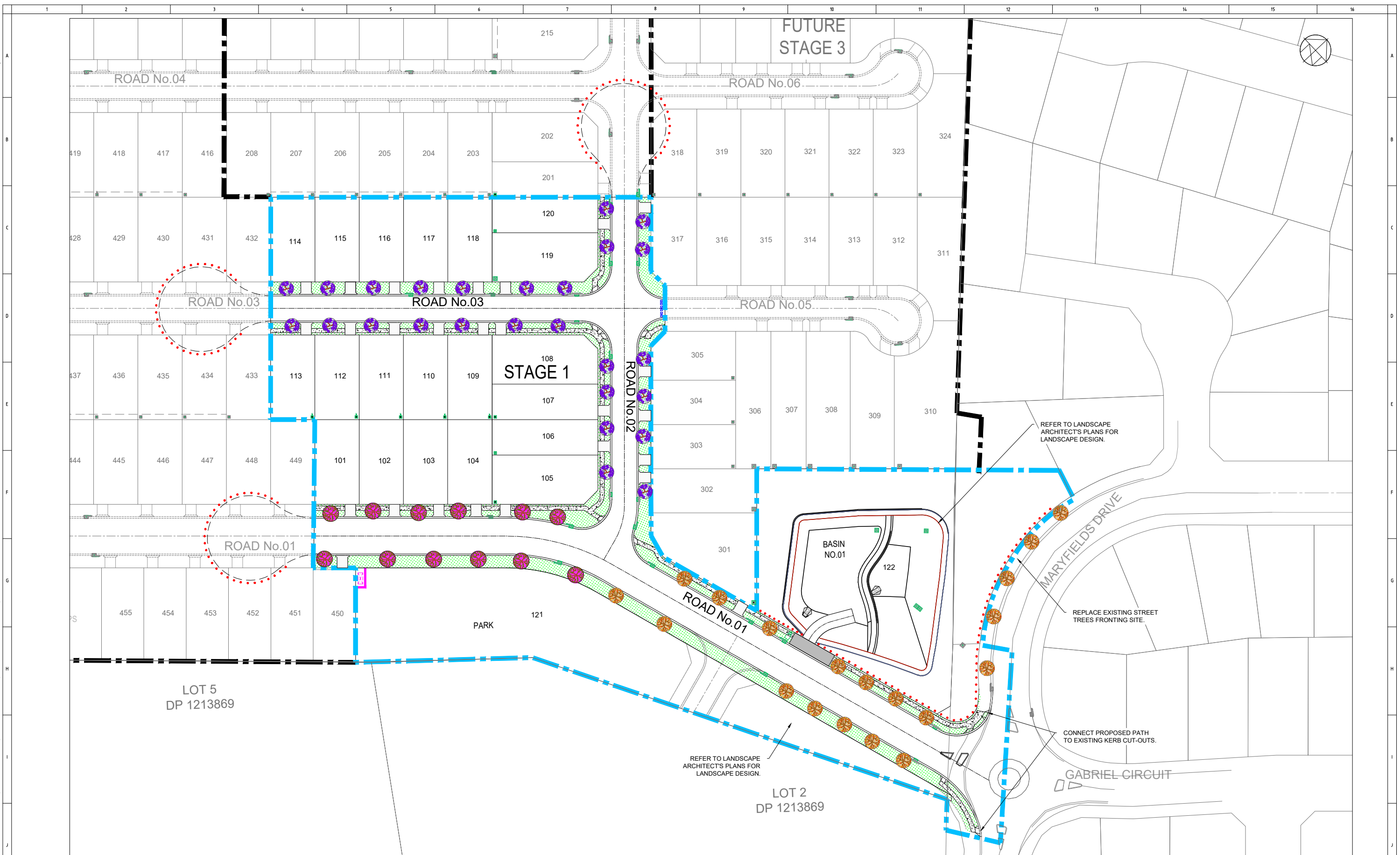
CLIENT CLEARSTATE CAMNARR192 PTY LTD		
DRAWING STATUS APPROVAL		
SCALE N.T.S	COORDINATE SYSTEM GDA 2020	DATUM AHD
SHEET SIZE A1	PROJECT NUMBER 7663-DA-01	DRAWING NUMBER 452

DRAWING TITLE BASIN No.01 DETAILS	
REVISION A	



REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE
A	ISSUED FOR DEVELOPMENT APPLICATION	V/K	AM	OW	OW	21/07/2021





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REV	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE		
A	ISSUED FOR DEVELOPMENT APPLICATION	VK	AM	OW	OW	21/07/2021		

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CLEARSTATE

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	PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

[illegible]

CLEARSTATE CAMNARR192 PTY LTD

DRAWING STATUS	
1	2

1

APPROVAL

SCALE
1-500

COORDINATE SYSTEM
GDA 2020

	DRAWING TITLE
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STREET TREE PLAN

[illegible]

[illegible][illegible][illegible]

100

[illegible]

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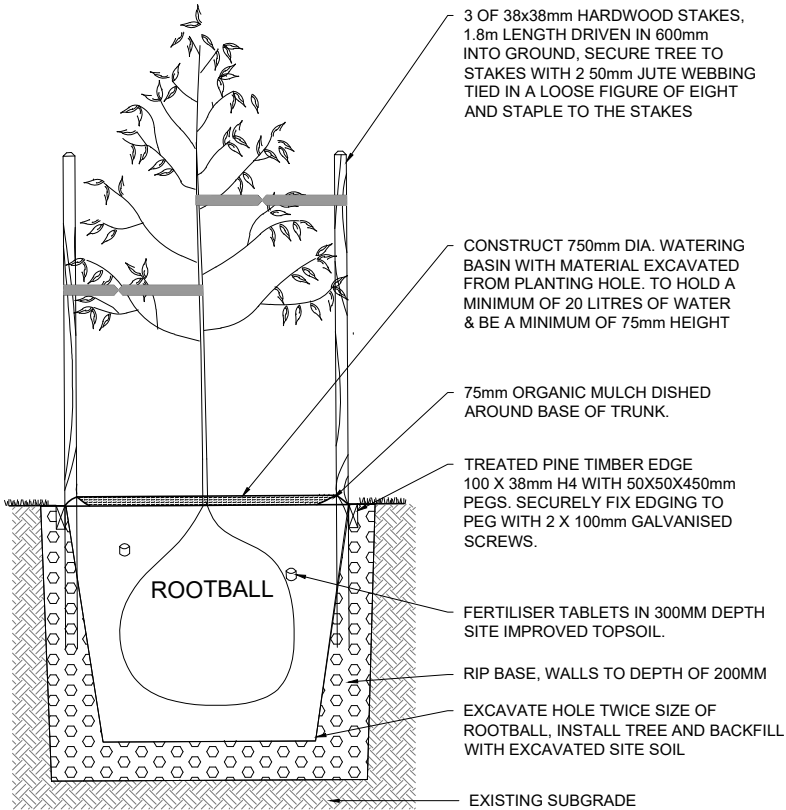
- ALL SERVICES TO BE LOCATED PRIOR TO WORKS COMMENCING. CLEARANCES AS REQUIRED TO BE OBTAINED FROM ALL RELEVANT AUTHORITIES. LOCATION OF ALL DESIGNED AND AS BUILT SERVICES TO BE TO LATEST PLANS AS AVAILABLE FROM THE HEAD CONTRACTOR OR PROJECT MANAGER AND TO BE LOCATED PRIOR TO WORKS COMMENCING.
- THE CONTRACTOR SHALL ALLOW IN THEIR OVERALL RATES FOR ERECTION AND LATER DISMANTLING OF TREE PROTECTION FENCING, LANDSCAPE PROTECTION FENCING AND OTHER APPROPRIATE ENVIRONMENTAL PROTECTION MEASURES TO BE UNDERTAKEN DURING CONSTRUCTION WORKS WHERE DIRECTED.
- HAND EXCAVATION IS REQUIRED WITH IN THE DRIP LINE OF EXISTING TREES TO AVOID DAMAGE TO ROOTS GREATER THAN 30MM DIAMETER.THE CONTRACTOR MAY USE MACHINERY IF IT IS ACCORDANCE WITH THE ADVICE OF THE CONTRACTOR'S ARBORIST AND APPROVED BY THE SUPERINTENDENT.
- ENSURE ANY PAVING, GRASSING AND LANDSCAPED AREAS ARE FREE DRAINING AND DO NOT RESULT IN ANY PONDING OF WATER.
- AVOID CULTIVATION, TOPSOILING OR GRADING WHEN TOPSOIL IS WET TO AVOID OVER COMPACTION. THE CONTRACTOR SHALL ALLOW FOR ANY STOPPAGES DIRECTED BY THE SUPERINTENDENT IF THIS WET SOIL CONDITIONS OCCURS AT RELEVANT WORK STAGES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REINSTATEMENT OF ALL DAMAGE INCURRED TO LAND, VEGETATION, SERVICES, PATHS AND ROADS AS A RESULT OF THIS CONSTRUCTION WORK. ALL WORKS ARE TO BE REINSTATED TO MEET COUNCIL STANDARDS.
- ALL LANDSCAPE AREAS TO BE MAINTAINED WEED FREE DURING CONSOLIDATION OF THE WORKS. THIS IS TO BE DONE WITH AN APPROVED HERBICIDE AND WEED ERADICATION MEASURES AS NECESSARY. ALLOW FOR SUITABLE WEED CONTROL PRIOR TO LANDSCAPE WORKS COMMENCEMENT.
- ALL PLANTS TO BE OF GOOD FORM AND SIZE FOR THE NOMINATED CONTAINER TO THE APPROVAL OF THE SUPERINTENDENT.
- DIMENSIONS TAKE PRECEDENCE OVER SCALES ON DETAILS.
- REFER TO CONSTRUCTION AND BULK EARTHWORKS LEVELS DETAILED ON THE ENGINEERING PLANS AS APPLICABLE.
- BULK EARTHWORK SHALL BE COMPLETED PRIOR TO LANDSCAPING, ALTHOUGH THE LANDSCAPE CONTRACTOR SHOULD ASSESS BULK EARTHWORKS LEVELS AND ALLOW FOR ANY DISCREPANCIES WITHIN THEIR OVERALL RATES TO SUITABLY COMPLETE LANDSCAPE WORKS.
- ALL LANDSCAPE WORKS TO HAVE A 13 WEEK CONSOLIDATION PERIOD AND TO BE MAINTAINED UNTIL HANDOVER.
- SITE TOPSOIL SHALL BE CULTIVATED TO A DEPTH OF 300MM AND IMPROVED WITH THE ADDITION OF APPROPRIATE SOIL CONDITIONERS TO MANUFACTURER'S SPECIFICATIONS. WHERE THERE IS INSUFFICIENT SITE TOPSOIL, 300MM DEPTH OF IMPORTED SOIL MIX CONSISTING OF A FRIABLE LOAM, WITH A PH OF 5-7, IMPROVED BY THE ADDITION OF AN ORGANIC FERTILISER TO MANUFACTURER'S RECOMMENDATIONS, SHALL BE PROVIDED.
- FOLLOWING PLANTING, SUITABLE MULCH SHALL BE INSTALLED AT A MINIMUM OF 100MM THICK. EROSION CONTROL FABRIC SHALL BE PROVIDED AS REQUIRED TO MANUFACTURER'S SPECIFICATIONS.
- TURF SHALL BE 'SIR WALTER', OBTAINED FROM AN APPROVED COMMERCIAL GROWER OF CULTIVATED TURF. TURF SHALL BE OF UNIFORM QUALITY AND WITH A WEED FREE MAT OF 25-50MM THICKNESS.
- TURF SHALL BE LAID ON A PREPARED SUB-GRADE INCLUDING A TURF UNDERLAY MIX OF MINIMUM 100MM THICKNESS.
- SUFFICIENT TOPDRESSING IN THE APPROPRIATE SEASON SHALL BE CARRIED OUT TO ACHIEVE A SMOOTH SURFACE WITH NO MOUNDS OR HOLLOWES TO ALLOW FREE POSITIVE DRAINAGE. A MINIMUM THICKNESS OF 10MM SHALL BE ALLOWED. TOPDRESSING SHALL CONSIST OF 80:20 RATIO OF SAND TO SOIL.
- MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REGULAR MOWING AND TRIMMING OF EDGES TO MAINTAIN GRASS AT PRESCRIBED HEIGHTS, CARE OF GRASS AND GARDEN BEDS TO KEEP THEM FREE OF WEEDS AND DISEASES, ALL WATERING NECESSARY TO MAINTAIN HEALTHY GROWTH OF ALL PLANT MATERIAL, FERTILISING AND PRUNING OF ALL PLANT MATERIAL, STRAIGHTENING AND REPLACEMENT OF STAKES AS NECESSARY, MAINTENANCE OF BARRIER FENCING AND SWEEPING OF PAVED AREAS. DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED ON AN ONGOING BASIS UNTIL THE CERTIFIED END OF THE MAINTENANCE PERIOD. A MAINTENANCE SCHEDULE SHALL BE SUBMITTED FOR COUNCIL'S APPROVAL PRIOR TO THE WORKS BEING CERTIFIED AS COMPLETE AND THE COMMENCEMENT OF THE MAINTENANCE PERIOD.

PLANTING AND MAINTENANCE NOTES

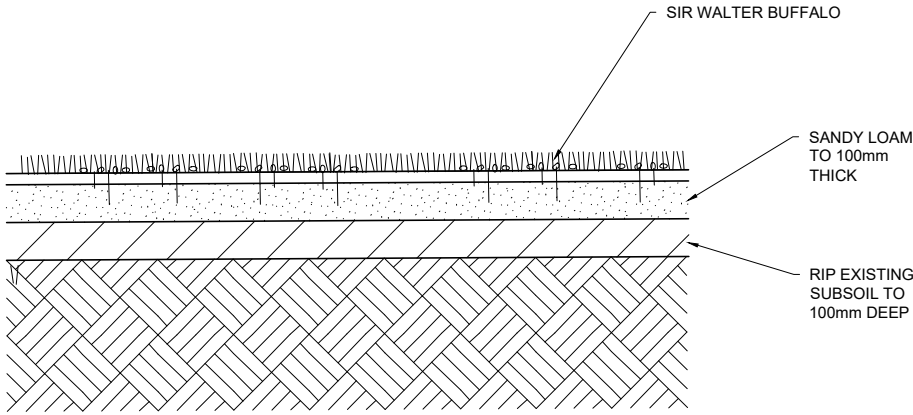
- PLANTS SHOULD BE PLANTED STRAIGHT WITH THE TOP OF ROOT BALL LEVEL WITH OR SLIGHTLY LOWER THAN THE SOIL SURFACE
- PLANTS SHOULD BE WATERED AS SOON AS POSSIBLE AFTER PLANTING
- PLANTING SHOULD BE AVOIDED AT THE HEIGHT OF SUMMER (DEC- JAN)
- PLANTS SHOULD BE WATERED AT LEAST WEEKLY FOR 6 WEEKS TO AID ESTABLISHMENT. WATER CRYSTALS MAYBE USED TO REDUCE THE CONSUMPTION OF WATER
- IF A FERTILIZER IS TO BE APPLIED, A SLOW RELEASE 8-9 MONTH PLANT FOOD WOULD BE APPROPRIATE AT A RATE OF 5-10 GMS PER PLANT
- ONLY SPECIES WITHIN THE LANDSCAPE PLAN SHOULD BE PLANTED. SUPERINTENDENT PERMISSION TO BE OBTAINED PRIOR TO ANY PROPOSED ALTERATIONS.
- PLANTING STOCK SHOULD BE FREE OF PESTS, DISEASES AND WEEDS. PLANTS SHOULD BE ACTIVELY GROWING WITH HEALTHY ROOTS AND NOT POT BOUND
- REPLACEMENT PLANTS SHOULD BE MADE AVAILABLE FOR ANY LOSSES OF PLANT STOCK THAT MAY OCCUR FOR A MINIMUM OF 12 MONTH PERIOD
- PEST OR DISEASE-INFESTED ITEMS SHALL BE REPLACED OR REMEDIED IN ACCORDANCE WITH SUPPLIER RECOMENDATIONS.

PLANT SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	QUANTITY
	GRASS VERGE		
TREES			
	CORYMBIA MACULATA	SPOTTED GUM	12
	FRAXINUS ANGUSTIFOLIA 'RAYWOOD'	CLARET ASH	26
	PYRUS CALLERYANA 'CHANTICLEER'	ORNAMENTAL PEAR	19



TYPICAL PLANTING DETAIL IN TURF/GRASS
NTS



TYPICAL TURF DETAIL
NTS

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PROJECT TITLE

192 NARELLAN ROAD
(LOT 4)
CAMPBELLTOWN
STAGE 1

CLIENT
CLEARSTATE CAMNARR192 PTY LTD

DRAWING STATUS
APPROVAL

SCALE N.T.S	COORDINATE SYSTEM GDA 2020	DATUM AHD
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SHEET SIZE
A1

PROJECT NUMBER
7663-DA-01

DRAWING TITLE
STREET TREE
NOTES & LEGENDS

DRAWING NUMBER
601

REVISION
A