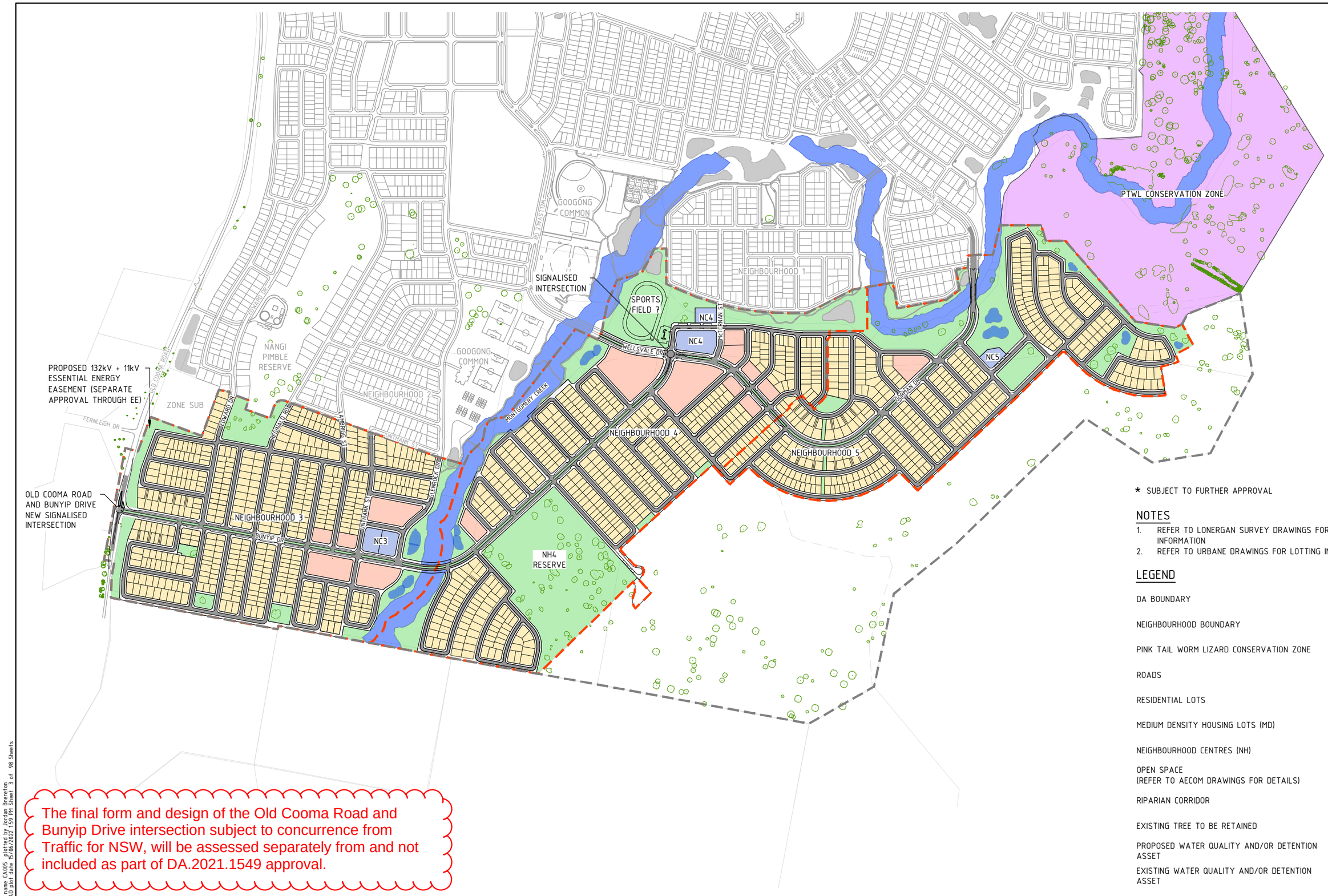


* SUBJECT TO FURTHER APPROVAL

NOTES

1. REFER TO LONERGAN SURVEY DRAWINGS FOR CADASTRE INFORMATION
2. REFER TO URBANE DRAWINGS FOR LOTTING INFORMATION

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- ROADS
- RESIDENTIAL LOTS
- MEDIUM DENSITY HOUSING LOTS (MD)
- NEIGHBOURHOOD CENTRES (NH)
- OPEN SPACE (REFER TO AECOM DRAWINGS FOR DETAILS)
- RIPARIAN CORRIDOR
- EXISTING TREE TO BE RETAINED
- PROPOSED WATER QUALITY AND/OR DETENTION ASSET
- EXISTING WATER QUALITY AND/OR DETENTION ASSET

The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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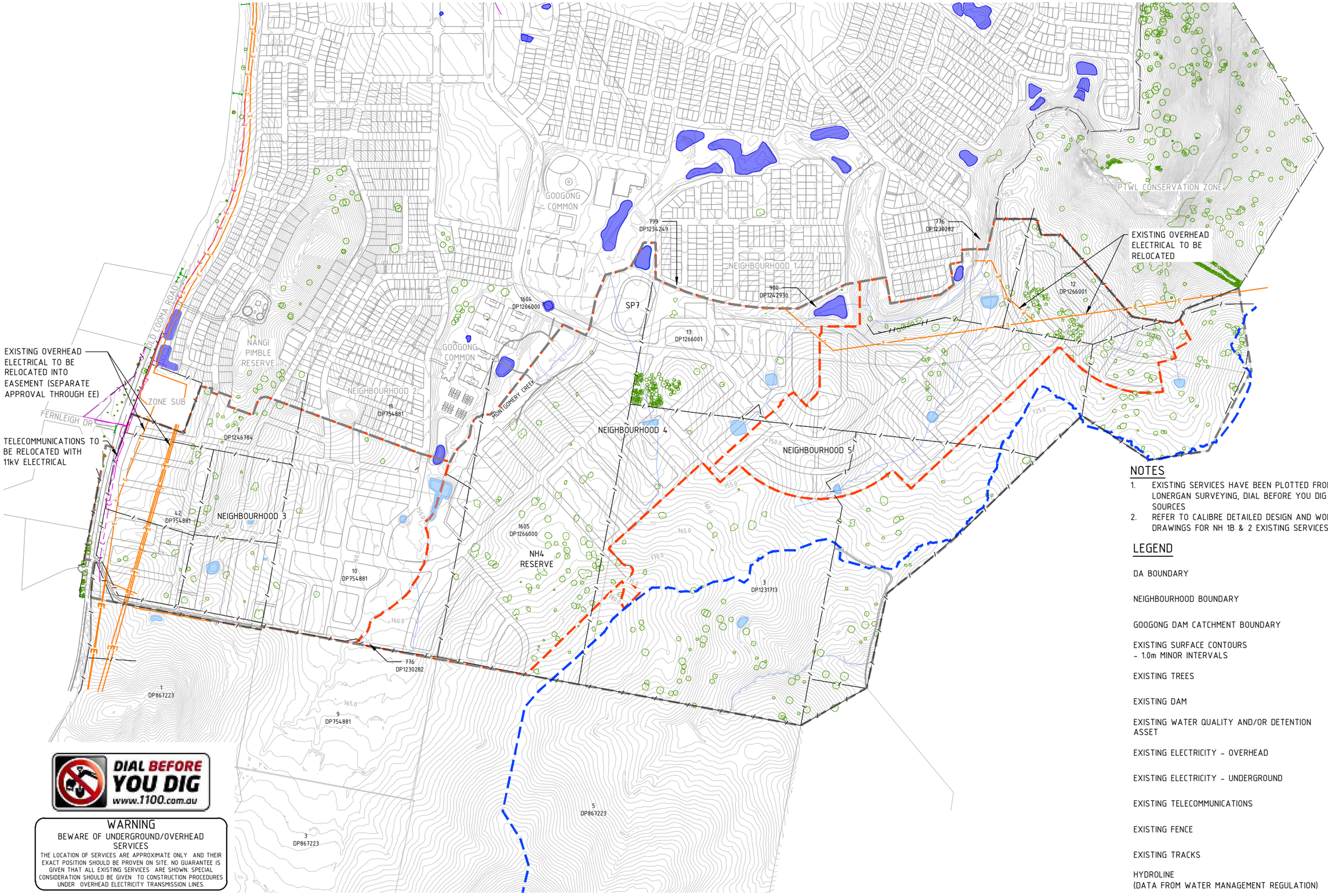
Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GENERAL ARRANGEMENT PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA005 Rev B

file name 308534CA005.dwg layout name CA005 plotted by Jordan Brereton
file location G:\301\308534\Civil\ACAD plot date 15/06/2022 1:59 PM Sheet 3 of 98 Sheets



DIAL BEFORE YOU DIG www.1100.com.au

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

EXISTING SERVICES PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA010 Rev B

file name 308534CA010.dwg layout name CA010 plotted by Jordan Brereton
file location G:\309308534\civil\ALAD plot date 15/06/2022 1:59 PM Sheet 4 of 98 Sheets

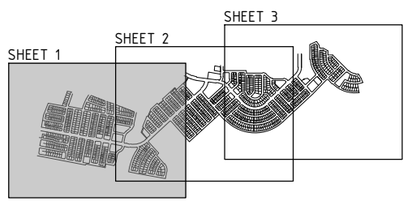


LEGEND

- DA BOUNDARY
- DISTURBED AREA
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- TEMPORARY FENCE
- BIORETENTION BASIN
- SEDIMENT BASIN
- SITE COMPOUND
- EXTERNAL HAUL ROAD
- EXISTING FENCE TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE RETAINED WITH FENCING
- STOCKPILE

NOTES

1. CONSTRUCTION MANAGEMENT PLAN PROVIDED IS CONCEPT ONLY, SUBJECT TO DETAILED DESIGN AND FINAL STAGING
2. EACH CONSTRUCTION PACKAGE WILL BE FULLY FENCED TO PREVENT PUBLIC ACCESS
3. ADEQUATE ACCESS TO BE PROVIDED TO RURAL RESIDENTS DURING ALL STAGES OF CONSTRUCTION



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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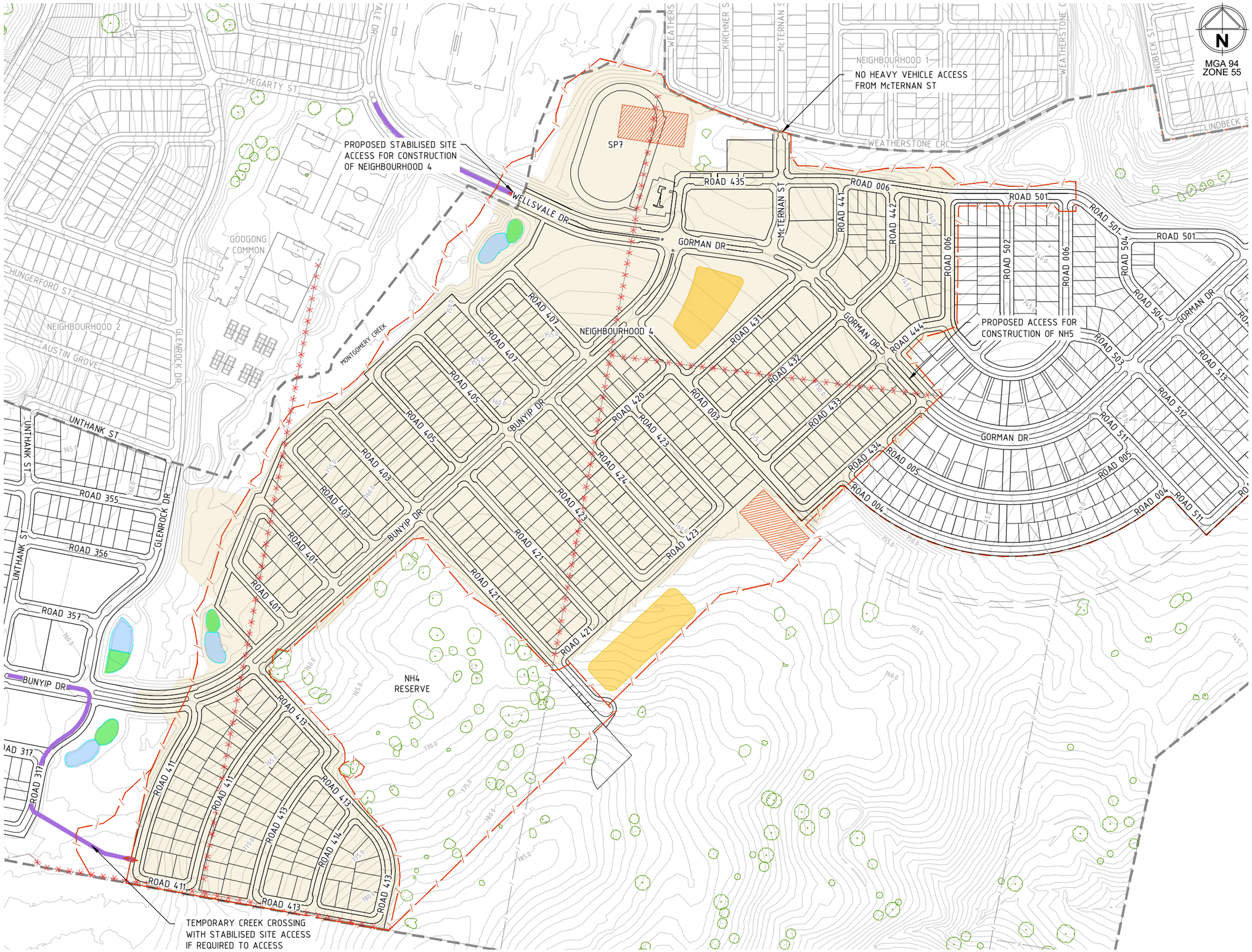
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

CONSTRUCTION MANAGEMENT CONCEPT PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA060 Rev B

file name 308534CA060.dwg Layout name CA060 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:00 PM Sheet 18 of 98 Sheets

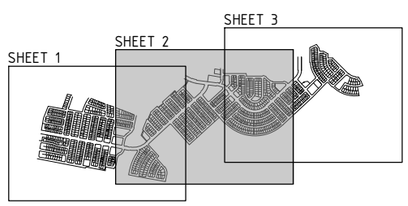


LEGEND

- DA BOUNDARY
- DISTURBED AREA
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- TEMPORARY FENCE
- BIORETENTION BASIN
- SEDIMENT BASIN
- SITE COMPOUND
- EXTERNAL HAUL ROAD
- EXISTING FENCE TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE RETAINED WITH FENCING
- STOCKPILE

NOTES

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KEY PLAN

Rev	Amendments	Approved	Date
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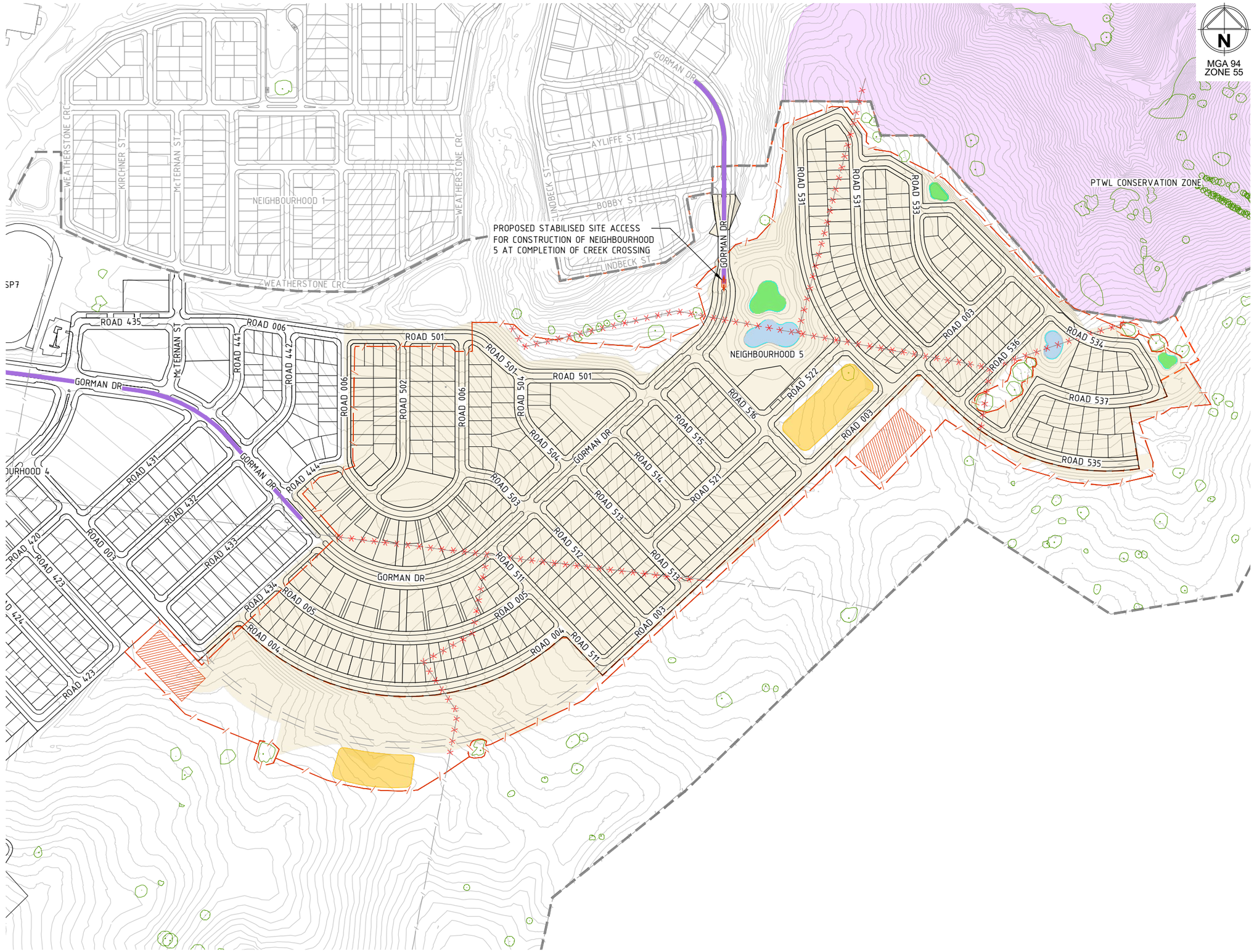
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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

CONSTRUCTION MANAGEMENT CONCEPT PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA061 Rev B

file name 308534CA060.dwg layout name CA061 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\Civil\ACAD plot date 15/06/2022 2:01 PM Sheet 9 of 98 Sheets

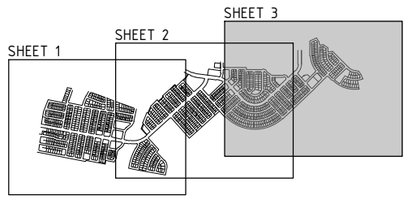


LEGEND

- DA BOUNDARY
- DISTURBED AREA
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL (750)
- TEMPORARY FENCE
- BIORETENTION BASIN
- SEDIMENT BASIN
- SITE COMPOUND
- EXTERNAL HAUL ROAD
- EXISTING FENCE TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE RETAINED WITH FENCING
- STOCKPILE

NOTES

1. CONSTRUCTION MANAGEMENT PLAN PROVIDED IS CONCEPT ONLY, SUBJECT TO DETAILED DESIGN AND FINAL STAGING
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3. ADEQUATE ACCESS TO BE PROVIDED TO RURAL RESIDENTS DURING ALL STAGES OF CONSTRUCTION



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

CONSTRUCTION MANAGEMENT CONCEPT PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA062 Rev B

file name 308534CA060.dwg layout name CA062 plotted by Jordan Brereton
file location \\spiire\canberra\data\a\301\308534\civil\ACAD plot date 15/06/2022 2:01 PM Sheet 10 of 98 Sheets

NOTES

1. REFER TO 308534CA330-332 FOR LOCAL CENTRE STREET DETAILS
2. REFER TO 308534CA120-124 FOR TYPICAL CROSS SECTIONS
3. ON STREET PARKING ALONG MCTERNAN ST IS 2.3m WIDE

N
MGA 94
ZONE 55

REFER TO NOTE 3
EXISTING STREET TYPE 3
REFER TO DRAWING 308534CA303 FOR INTERSECTION DETAILS
REFER TO DRAWING 308534CA655-CA656 FOR CROSSING DETAILS
PTWL CONSERVATION ZONE
REFER TO DRAWING 308534CA300 FOR INTERSECTION DETAILS
THRESHOLD TREATMENT TO BE ADOPTED ADJACENT TO NEIGHBOURHOOD CENTRE
REFER TO DRAWING 308534CA650-CA651 FOR CROSSING DETAILS

The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- NEIGHBOURHOOD CENTRE
- OPEN SPACE (REFER TO AECOM DWGS FOR DETAIL)
- RIPARIAN CHANNEL

ROAD HIERARCHY LEGEND

	VEHICLES PER DAY (VPD)	DESIGN SPEED (km/h)	CARRIAGEWAY WIDTH (m)
LOCAL SUB-ARTERIAL	<6000	60	2x7.1
COLLECTOR STREET - DEVIATION	<3000	50	2x7.1
COLLECTOR STREET	<3000	50	11.2
LOCAL STREET - DEVIATION 2	<2000	40	10.6
LOCAL STREET - DEVIATION	<2000	40	9.7
LOCAL STREET	<2000	40	8.0
ACCESS STREET	<200	25	8.0
LOCAL STREET - DEVIATION WITH 90° PARKING	<2000	40	8.6
LANEWAY (ONE WAY)	<100	25	5.5
NEIGHBOURHOOD 4 CENTRE STREET	<6000	40	8.0

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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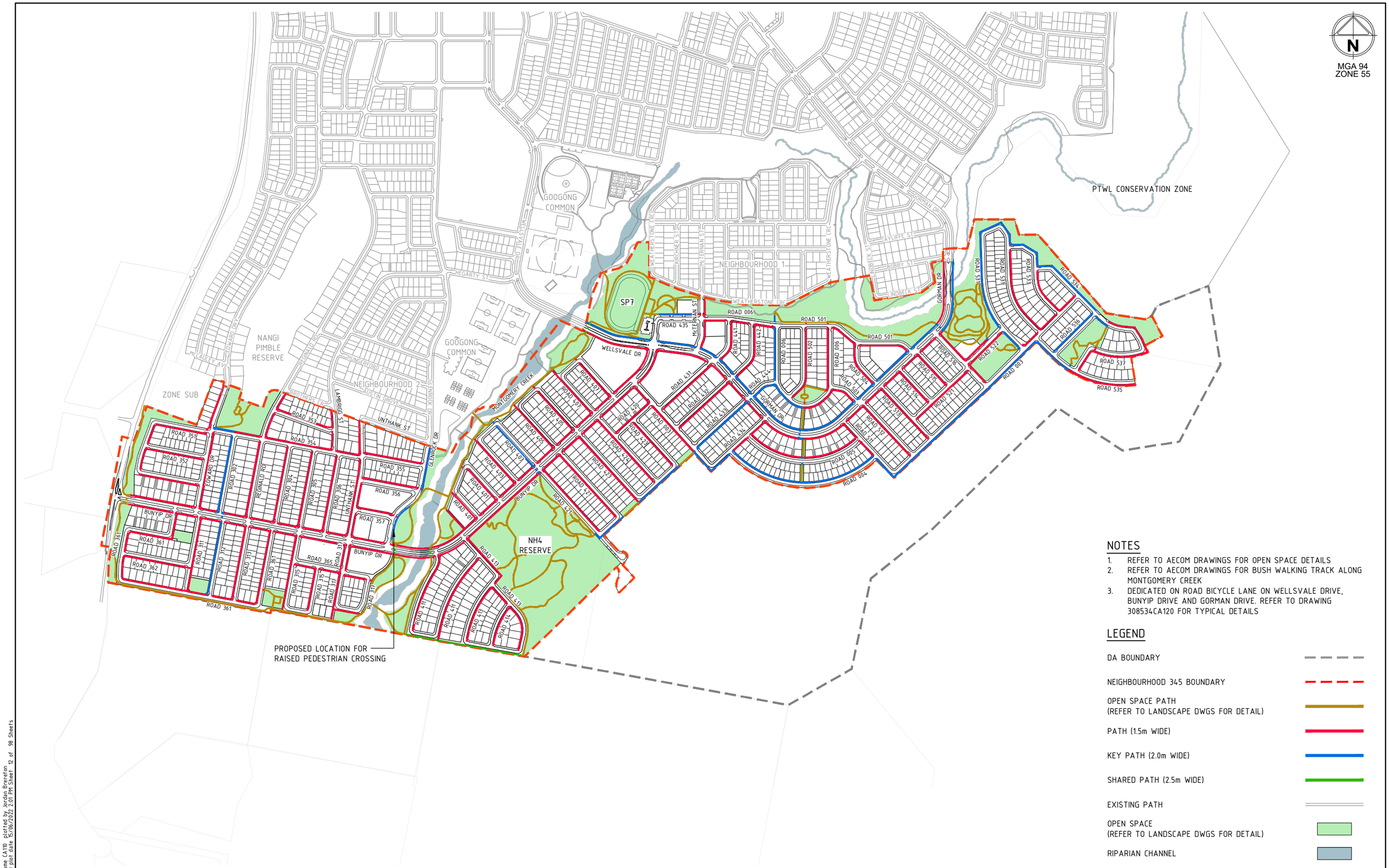
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

STREET HIERARCHY PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA100** Rev **B**

file name 308534CA100.dwg Layout name CA100 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:01 PM Sheet 11 of 98 Sheets



NOTES

1. REFER TO AECOM DRAWINGS FOR OPEN SPACE DETAILS
2. REFER TO AECOM DRAWINGS FOR BUSH WALKING TRACK ALONG MONTGOMERY CREEK
3. DEDICATED ON ROAD BICYCLE LANE ON WELLSVALE DRIVE, BUNYIP DRIVE AND GORMAN DRIVE. REFER TO DRAWING 308534CA120 FOR TYPICAL DETAILS

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD 345 BOUNDARY
- OPEN SPACE PATH (REFER TO LANDSCAPE DWGS FOR DETAIL)
- PATH (1.5m WIDE)
- KEY PATH (2.0m WIDE)
- SHARED PATH (2.5m WIDE)
- EXISTING PATH
- OPEN SPACE (REFER TO LANDSCAPE DWGS FOR DETAIL)
- RIPARIAN CHANNEL

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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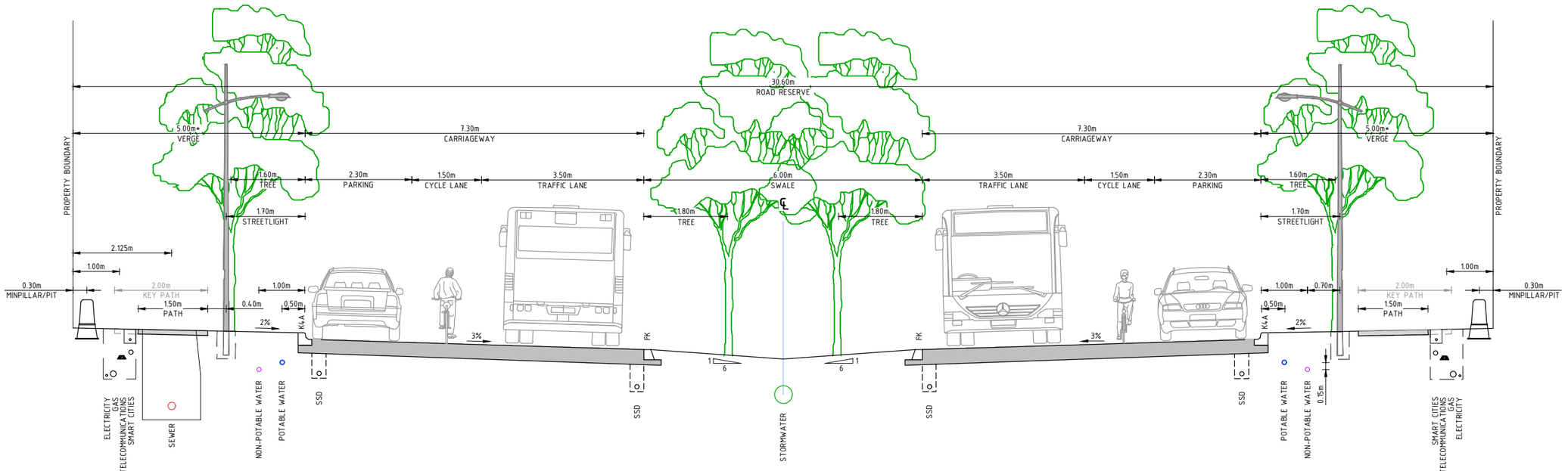
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

PATH NETWORK PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA110 Rev B

file name 308534CA110.dwg layout name CA110 plotted by Jordan Brereton
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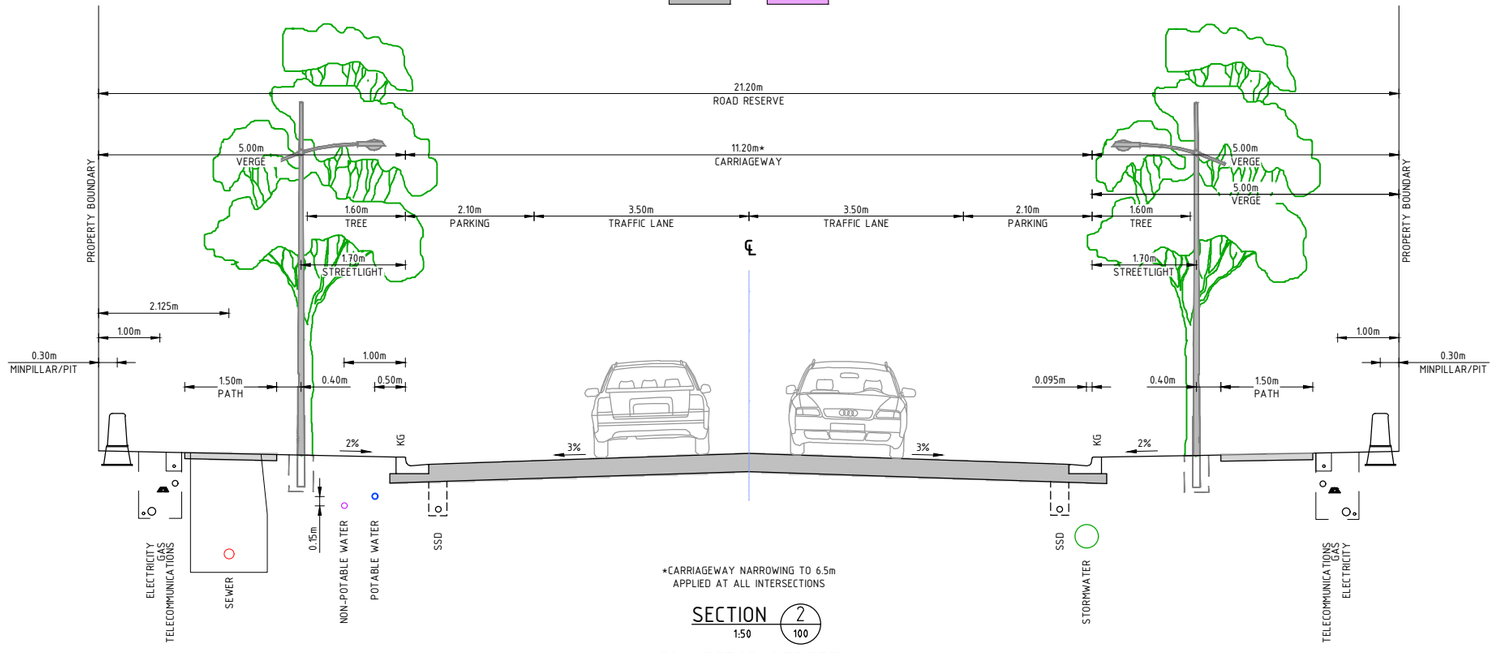


*VERGE WIDTHS VARY

SECTION 1 / 1:50 / 100

LOCAL SUB-ARTERIAL / COLLECTOR STREET DEVIATION

30.6m ROAD RESERVE



*CARRIAGEWAY NARROWING TO 6.5m APPLIED AT ALL INTERSECTIONS

SECTION 2 / 1:50 / 100

COLLECTOR STREET

21.2m ROAD RESERVE

ABBREVIATIONS

KG	KERB AND GUTTER
K4A	KERB TYPE K4A
FK	FLUSH KERB
OCI	OPEN CHANNEL INVERT
SSD	SUBSOIL DRAIN

NOTES

1. STORMWATER OFFSETS ARE SHOWN FOR PIPES UP TO AND INCLUDING 525ø
2. PATHS ARE SHOWN AS TYPICAL ONLY. REFER TO DRAWING 308534CA110 FOR PROPOSED PATH WIDTHS AND LOCATIONS
3. SHARED TRENCH ARRANGEMENTS ARE INDICATIVE ONLY. REFER TO DRAWING 308534CA800-803 FOR TYPICAL SHARED TRENCH ARRANGEMENT. WIDER VERGE & TRENCH MAY BE REQUIRED FOR TRUNK SERVICES
4. TYPICAL SERVICE OFFSETS ARE SHOWN. SERVICES MAY BE IN EITHER VERGE
5. WATER MAIN CLEARANCES SHOWN FOR FOR PIPES UP TO AND INCLUDING:
   - POTABLE ø150mm MAX
   - RECYCLED ø225mm MAX
6. SSD TO BE INCORPORATED INTO STORMWATER TRENCH WHEN SW PIPE LOCATED UNDER KERB. REFER TO DRAWING 308534CA151 FOR TRENCH DETAILS. STANDARD SSD DETAIL APPLIES IF NO SW PIPE EXISTS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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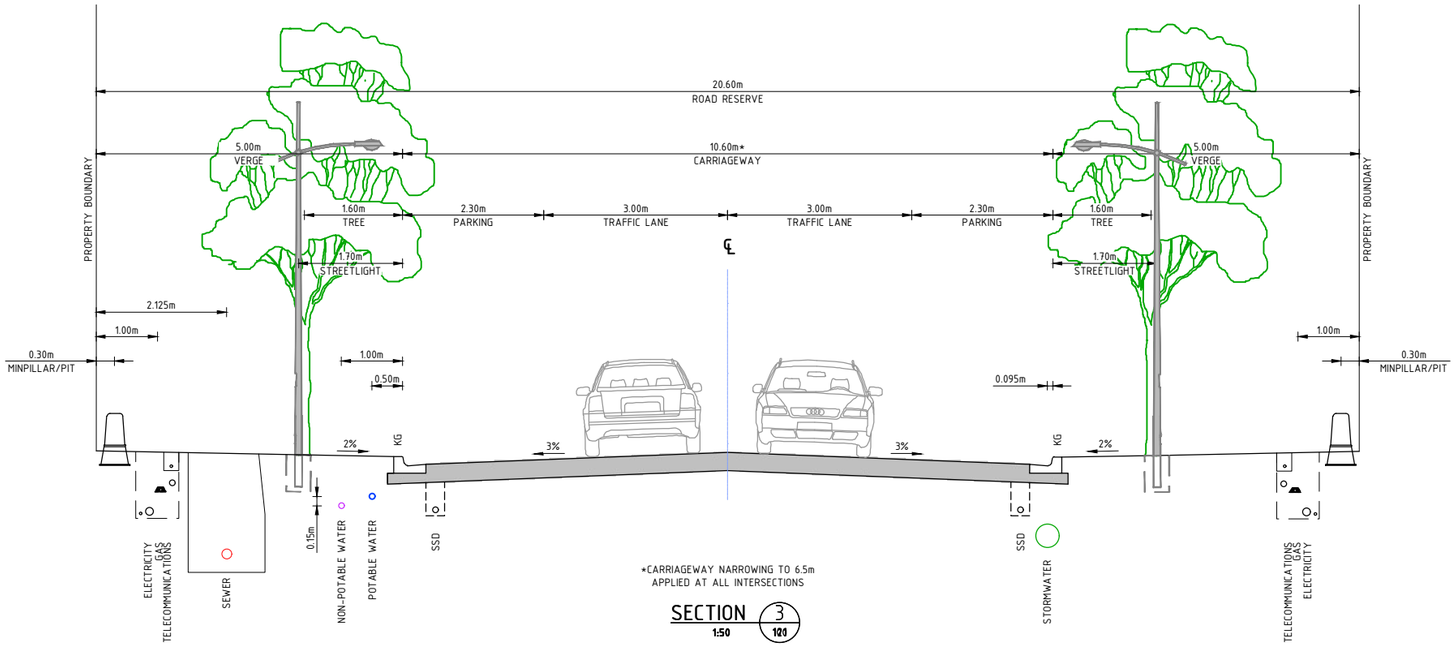
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M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

TYPICAL CROSS SECTIONS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA120 Rev B

file name 308534CA120.dwg layout name CA120 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:01 PM Sheet 13 of 98 Sheets

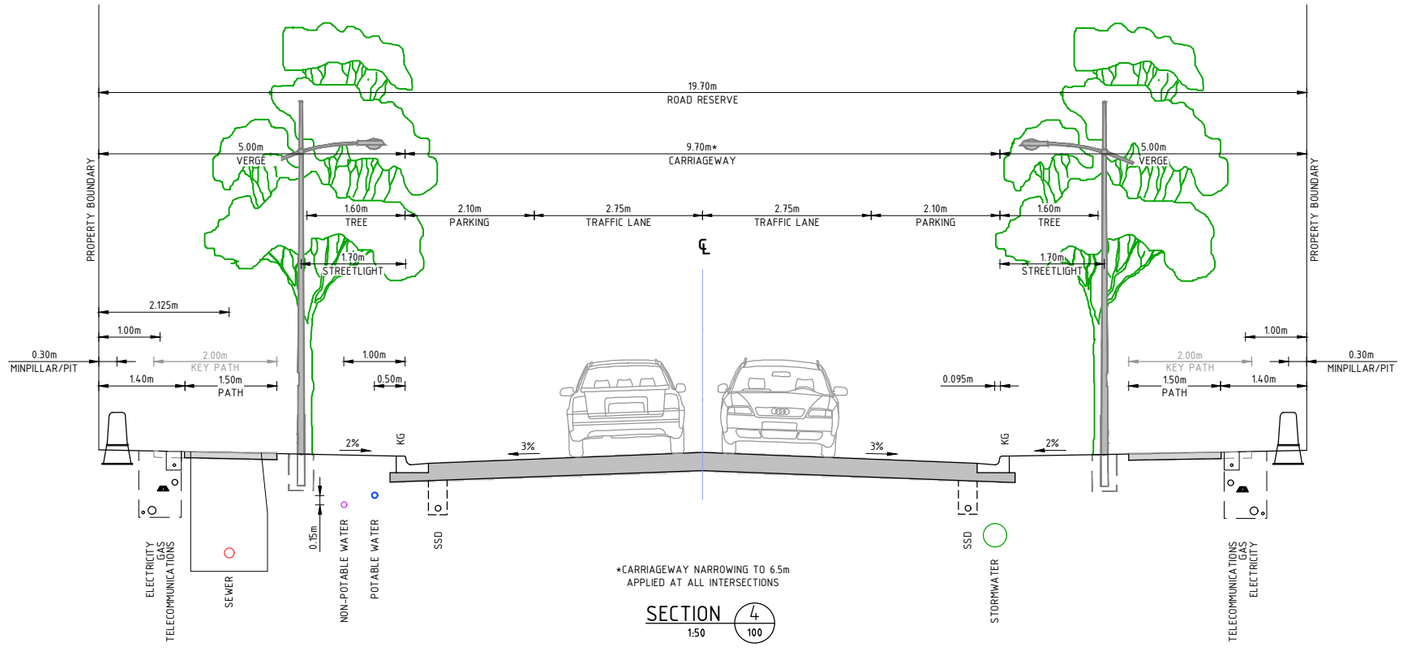


*CARRIAGEWAY NARROWING TO 6.5m
APPLIED AT ALL INTERSECTIONS

SECTION 3 (1:50 @ 100)

LOCAL STREET - DEVIATION 2

20.6m ROAD RESERVE



*CARRIAGEWAY NARROWING TO 6.5m
APPLIED AT ALL INTERSECTIONS

SECTION 4 (1:50 @ 100)

LOCAL STREET - DEVIATION

19.7m ROAD RESERVE

ABBREVIATIONS

KG	KERB AND GUTTER
K4A	KERB TYPE K4A
FK	FLUSH KERB
OCI	OPEN CHANNEL INVERT
SSD	SUBSOIL DRAIN

NOTES

1. STORMWATER OFFSETS ARE SHOWN FOR PIPES UP TO AND INCLUDING 525ø
2. PATHS ARE SHOWN AS TYPICAL ONLY. REFER TO DRAWING 308534CA110 FOR PROPOSED PATH WIDTHS AND LOCATIONS
3. SHARED TRENCH ARRANGEMENTS ARE INDICATIVE ONLY. REFER TO DRAWING 308534CA800-803 FOR TYPICAL SHARED TRENCH ARRANGEMENT. WIDER VERGE & TRENCH MAY BE REQUIRED FOR TRUNK SERVICES
4. TYPICAL SERVICE OFFSETS ARE SHOWN. SERVICES MAY BE IN EITHER VERGE
5. WATER MAIN CLEARANCES SHOWN FOR FOR PIPES UP TO AND INCLUDING:
   - POTABLE ø150mm MAX
   - RECYCLED ø225mm MAX
6. SSD TO BE INCORPORATED INTO STORMWATER TRENCH WHEN SW PIPE LOCATED UNDER KERB. REFER TO DRAWING 308534CA151 FOR TRENCH DETAILS. STANDARD SSD DETAIL APPLIES IF NO SW PIPE EXISTS

Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	MB	09/09/21

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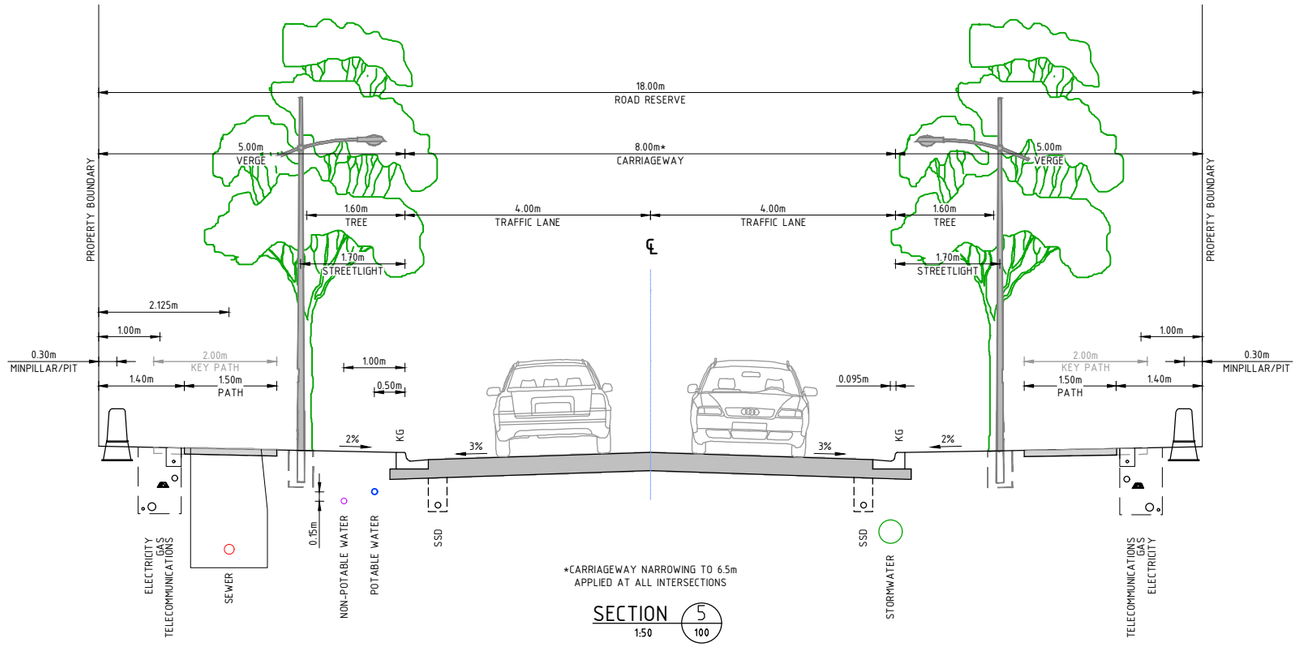
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

TYPICAL CROSS SECTIONS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA121 Rev B

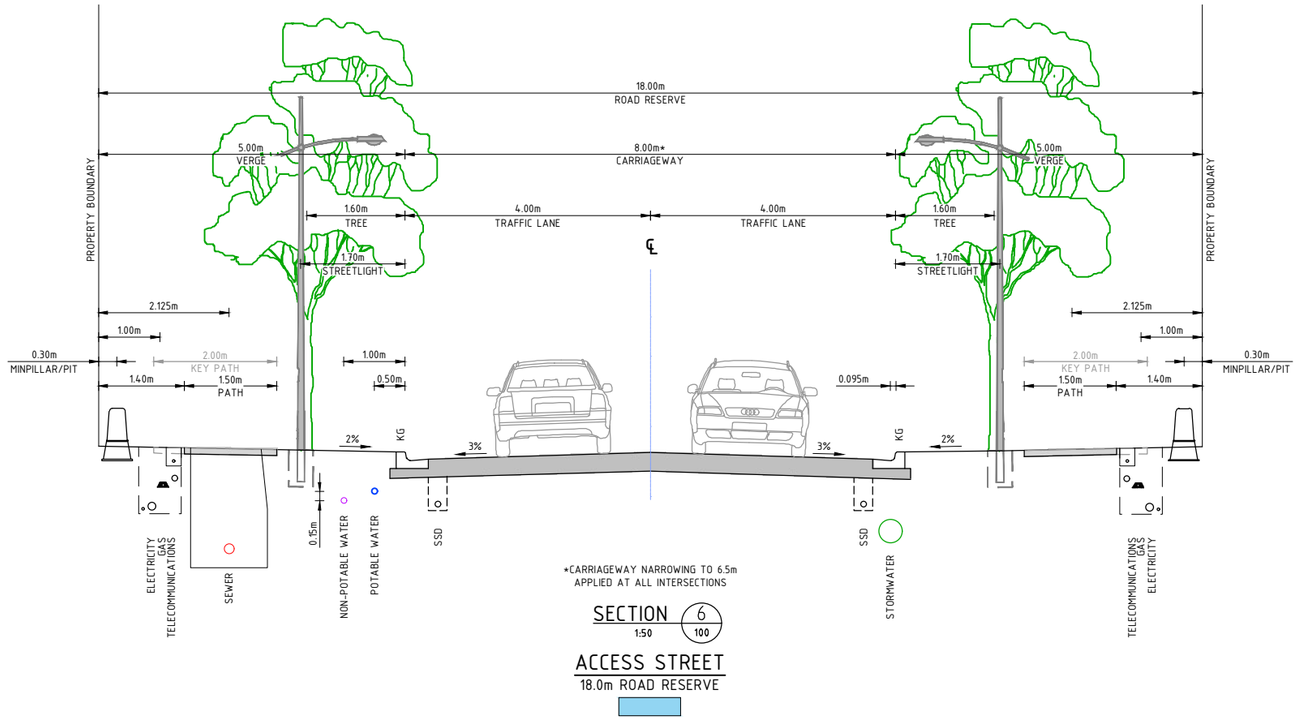
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file location \\spiire\canbdata\Data\301\308534\civil\ACAD plot date 15/06/2022 2:01 PM Sheet 14 of 98 Sheets



*CARRIAGEWAY NARROWING TO 6.5m
APPLIED AT ALL INTERSECTIONS

SECTION 5 / 100
1:50

LOCAL STREET
18.0m ROAD RESERVE



*CARRIAGEWAY NARROWING TO 6.5m
APPLIED AT ALL INTERSECTIONS

SECTION 6 / 100
1:50

ACCESS STREET
18.0m ROAD RESERVE

ABBREVIATIONS

KG	KERB AND GUTTER
K4A	KERB TYPE K4A
FK	FLUSH KERB
OCI	OPEN CHANNEL INVERT
SSD	SUBSOIL DRAIN

NOTES

1. STORMWATER OFFSETS ARE SHOWN FOR PIPES UP TO AND INCLUDING 525ø
2. PATHS ARE SHOWN AS TYPICAL ONLY. REFER TO DRAWING 308534CA110 FOR PROPOSED PATH WIDTHS AND LOCATIONS
3. SHARED TRENCH ARRANGEMENTS ARE INDICATIVE ONLY. REFER TO DRAWING 308534CA800-803 FOR TYPICAL SHARED TRENCH ARRANGEMENT. WIDER VERGE & TRENCH MAY BE REQUIRED FOR TRUNK SERVICES
4. TYPICAL SERVICE OFFSETS ARE SHOWN. SERVICES MAY BE IN EITHER VERGE
5. WATER MAIN CLEARANCES SHOWN FOR FOR PIPES UP TO AND INCLUDING:
   - POTABLE ø150mm MAX
   - RECYCLED ø225mm MAX
6. SSD TO BE INCORPORATED INTO STORMWATER TRENCH WHEN SW PIPE LOCATED UNDER KERB. REFER TO DRAWING 308534CA151 FOR TRENCH DETAILS. STANDARD SSD DETAIL APPLIES IF NO SW PIPE EXISTS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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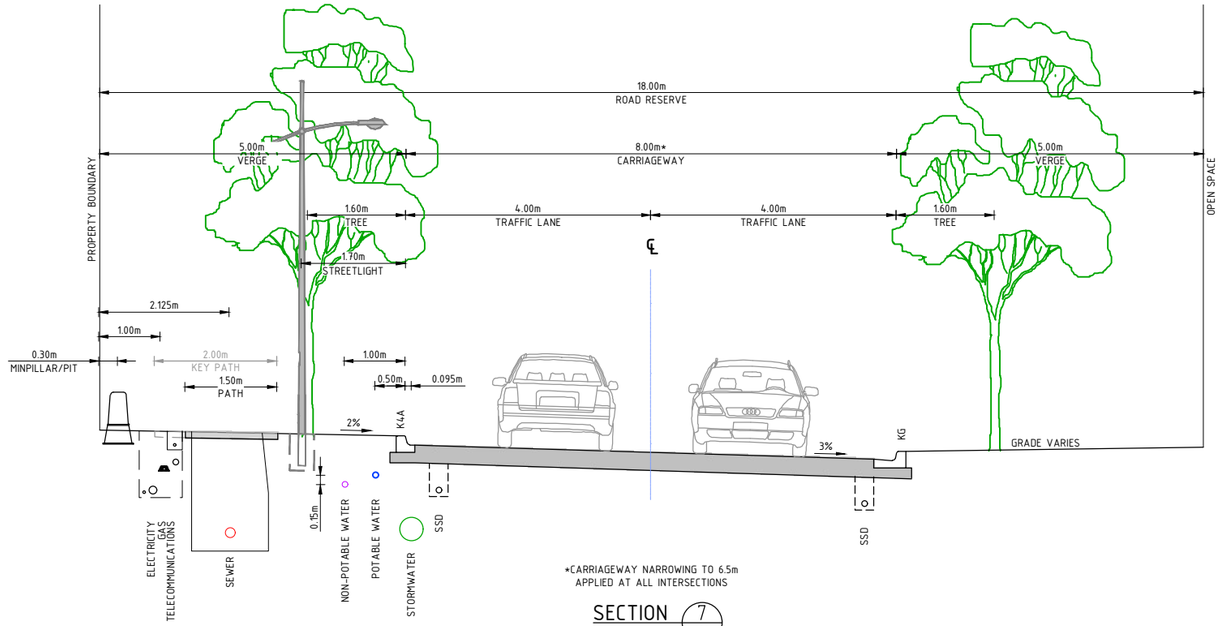
GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL CROSS SECTIONS
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA122 Rev B

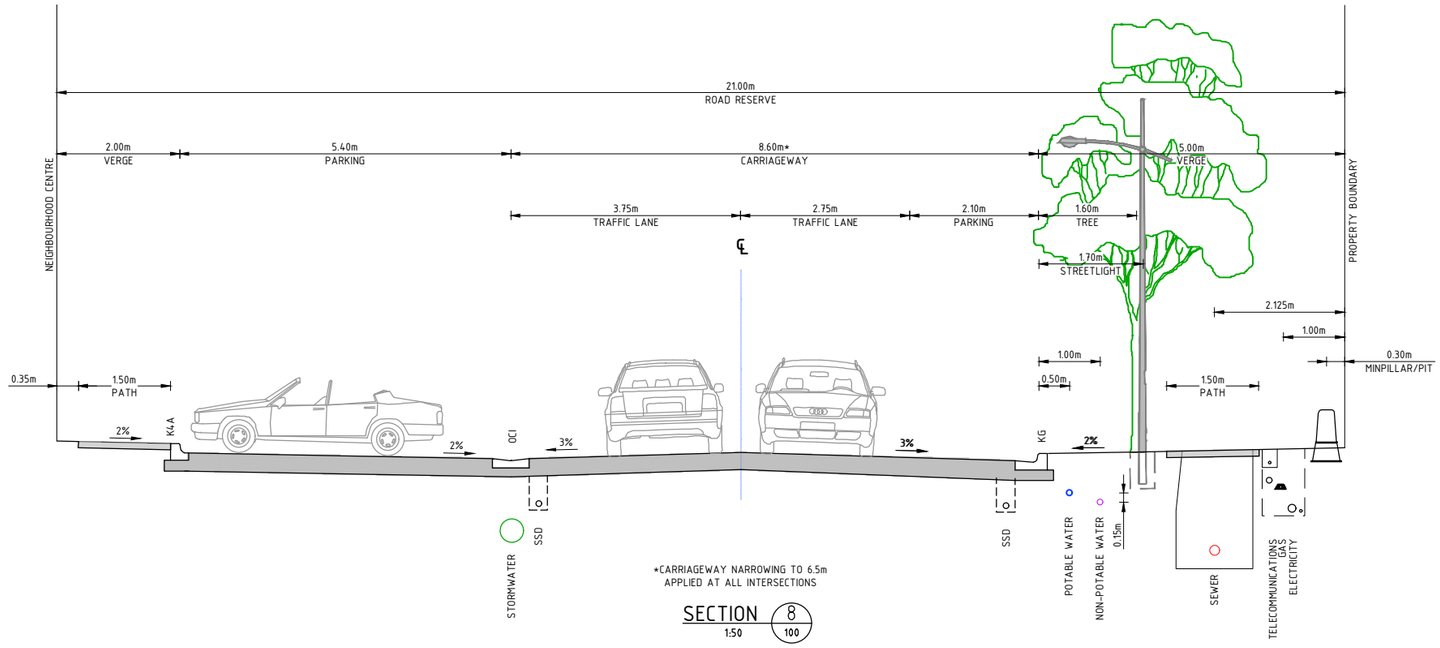
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SECTION 7 / 1:50 / 100

ACCESS STREET EDGE ROAD WHERE REQUIRED

18.0m ROAD RESERVE



SECTION 8 / 1:50 / 100

LOCAL STREET - DEVIATION WITH 90° PARKING

20.05m ROAD RESERVE

ABBREVIATIONS

KG	KERB AND GUTTER
K4A	KERB TYPE K4A
FK	FLUSH KERB
OCI	OPEN CHANNEL INVERT
SSD	SUBSOIL DRAIN

NOTES

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A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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GOOGONG

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Authorised	Date
M.BOMBEN	09/09/2021

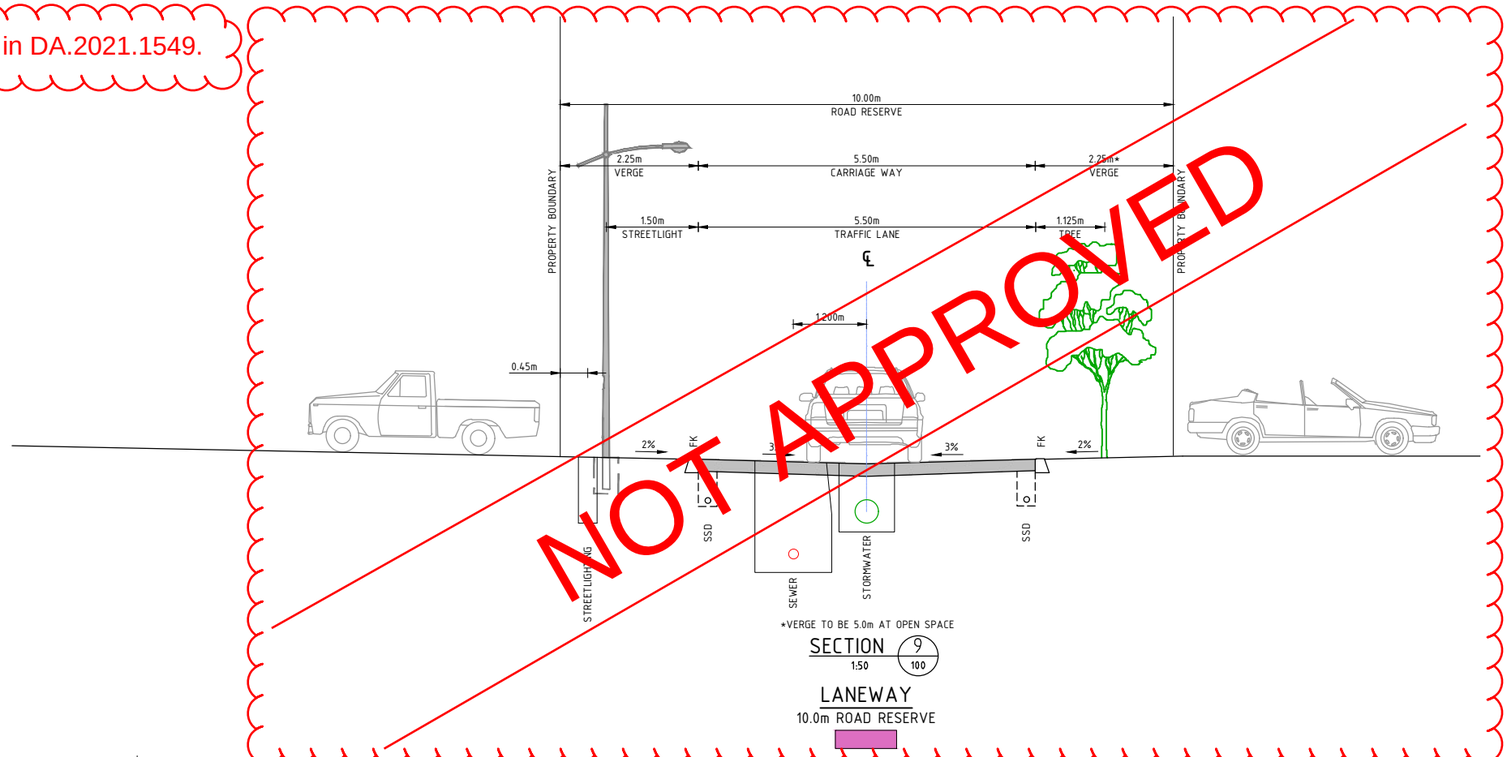
GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

TYPICAL CROSS SECTIONS
SHEET 4
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA123 Rev B

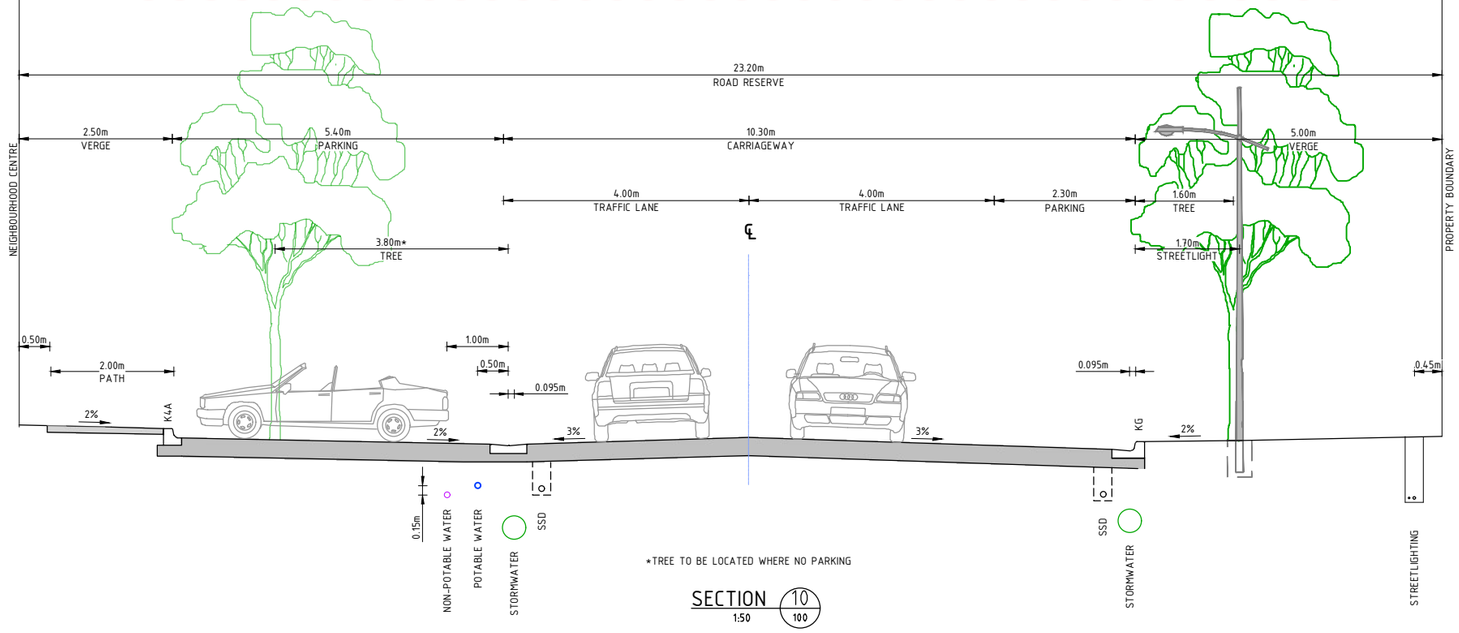
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Laneways are not approved in DA.2021.1549.



SECTION 9 1:50 1:100

LANEWAY
10.0m ROAD RESERVE



*TREE TO BE LOCATED WHERE NO PARKING

SECTION 10 1:50 1:100

NEIGHBOURHOOD 4 CENTRE STREET
23.2m ROAD RESERVE

ABBREVIATIONS

KG	KERB AND GUTTER
K4A	KERB TYPE K4A
FK	FLUSH KERB
OCI	OPEN CHANNEL INVERT
SSD	SUBSOIL DRAIN

NOTES

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Scale
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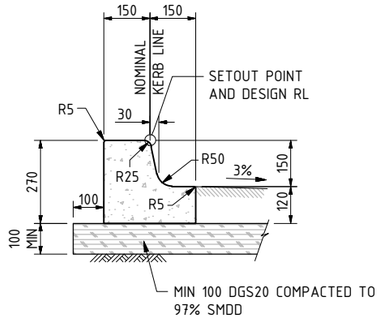
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Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL CROSS SECTIONS
SHEET 5
QPRC
GOOGONG TOWNSHIP PTY LTD

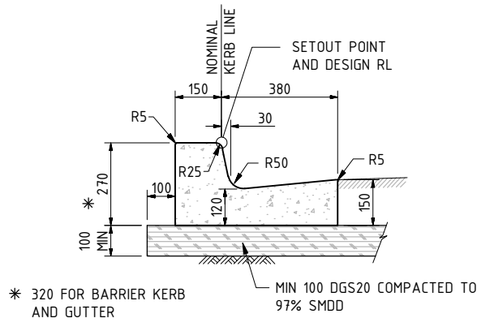
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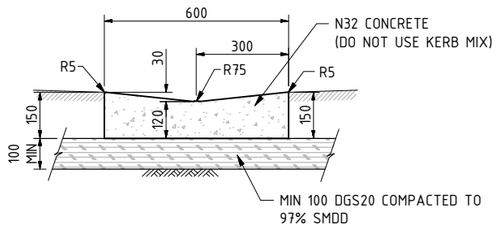
KERB TYPE K4A (K4A)

SCALE 1:10 @ A1



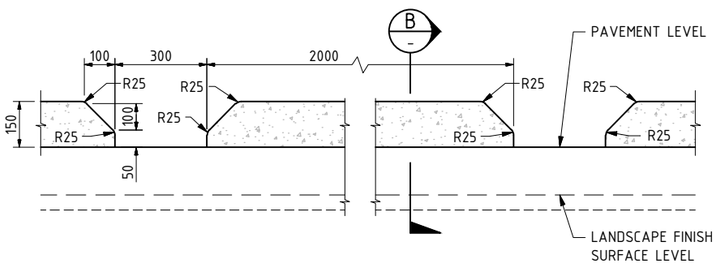
KERB AND GUTTER (KG) /
BARRIER KERB AND GUTTER (BKG)

SCALE 1:10 @ A1



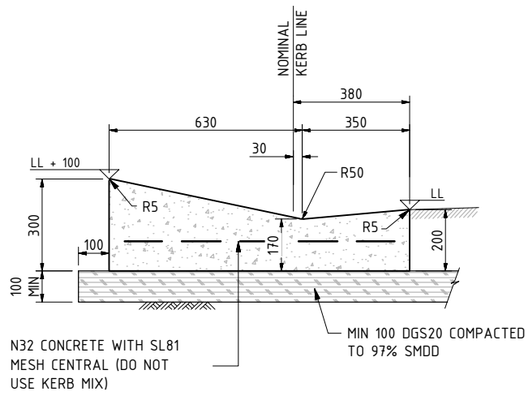
OPEN CONCRETE INVERT (OCI)

SCALE 1:10 @ A1



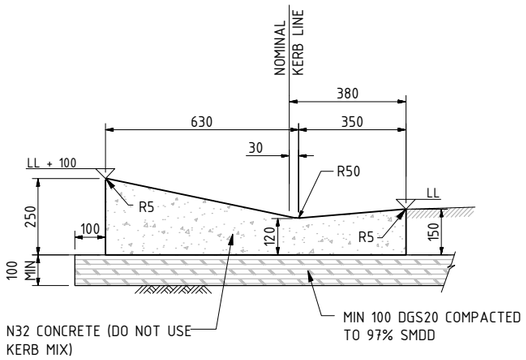
ELEVATION - PERMEABLE KERB

SCALE 1:10 @ A1



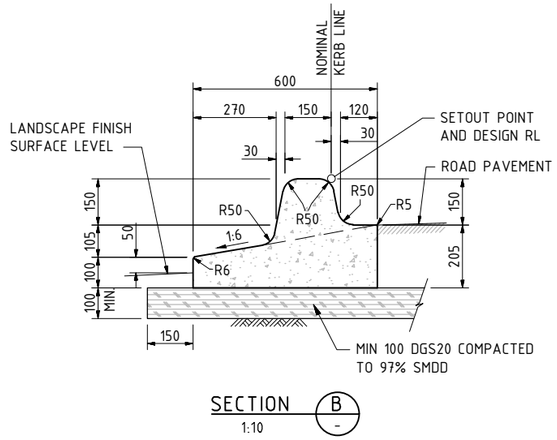
REINFORCED VEHICULAR CROSSING PROFILE (RVC)
IN KG

SCALE 1:10 @ A1



VEHICULAR CROSSING PROFILE (VC) IN KG

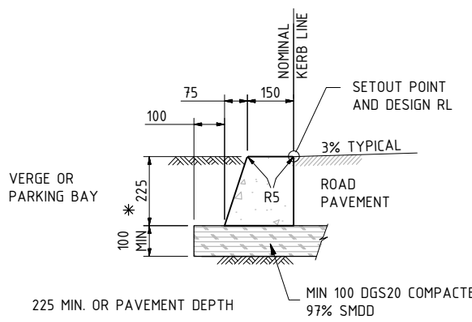
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SECTION B
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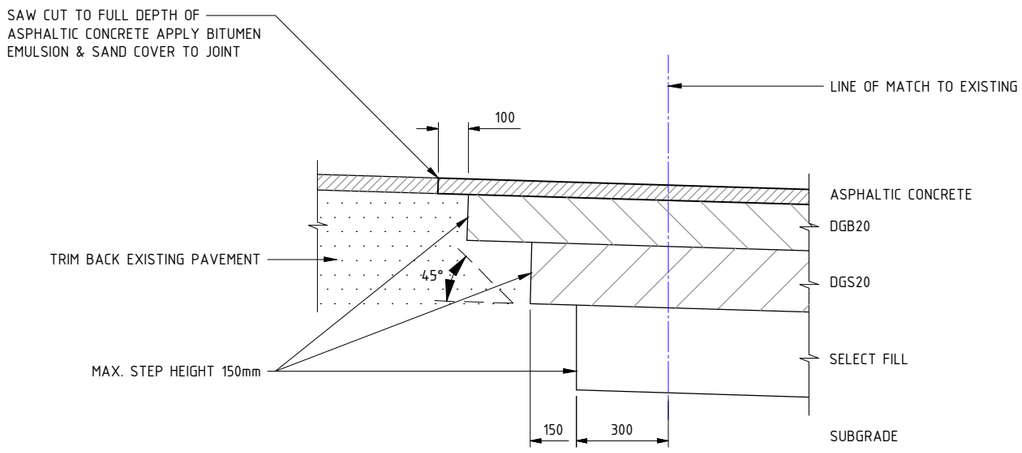
PERMEABLE KERB (PK)

SCALE 1:10 @ A1



FLUSH KERB (FK)

SCALE 1:10 @ A1



MATCH TO EXISTING PAVEMENT DETAIL

SCALE 1:10 @ A1

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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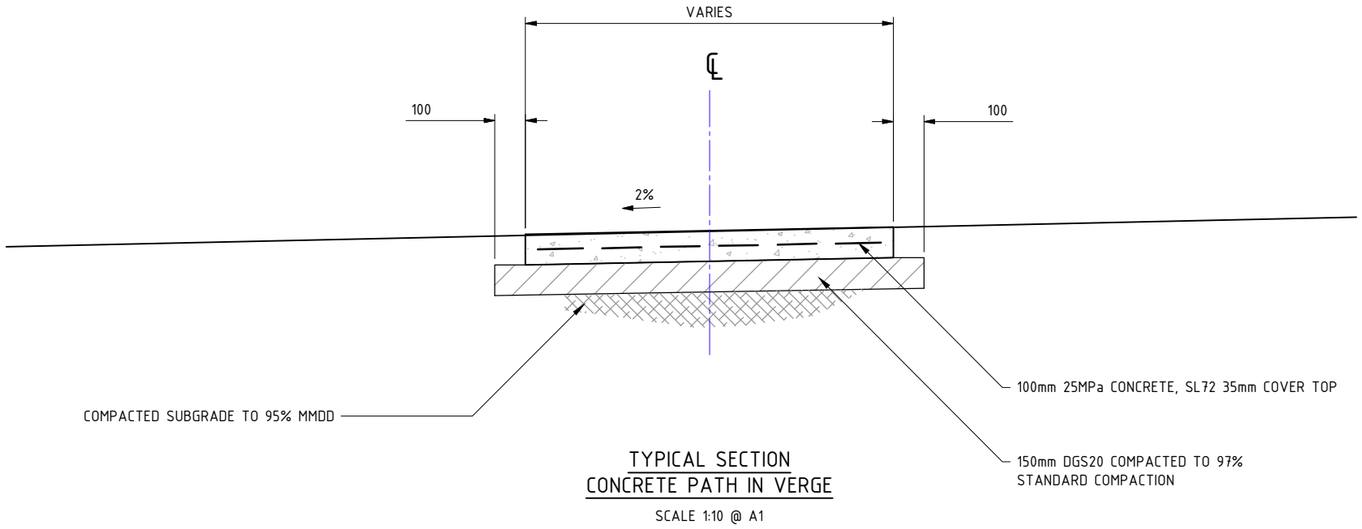
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Designed M.PHILLIPS | Checked S.BEFF
Authorised M.BOMBEN | Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL DETAILS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

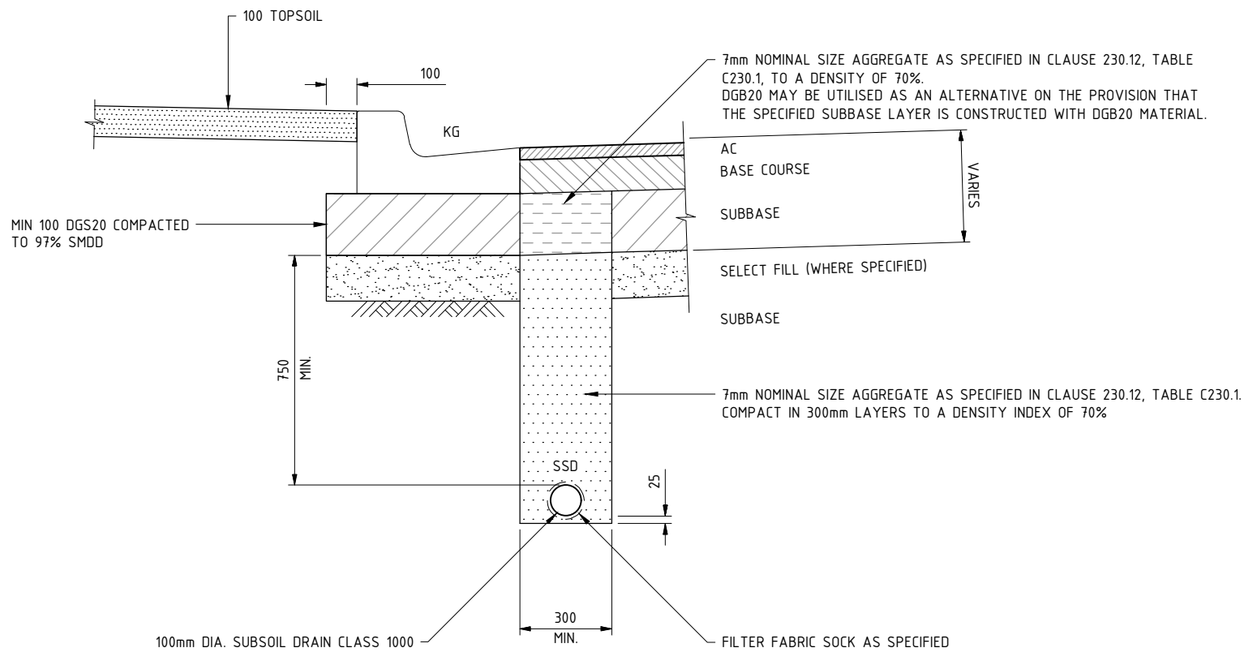
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TYPICAL SECTION
CONCRETE PATH IN VERGE

SCALE 1:10 @ A1



SUBSOIL DRAIN DETAIL

SCALE 1:10 @ A1

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Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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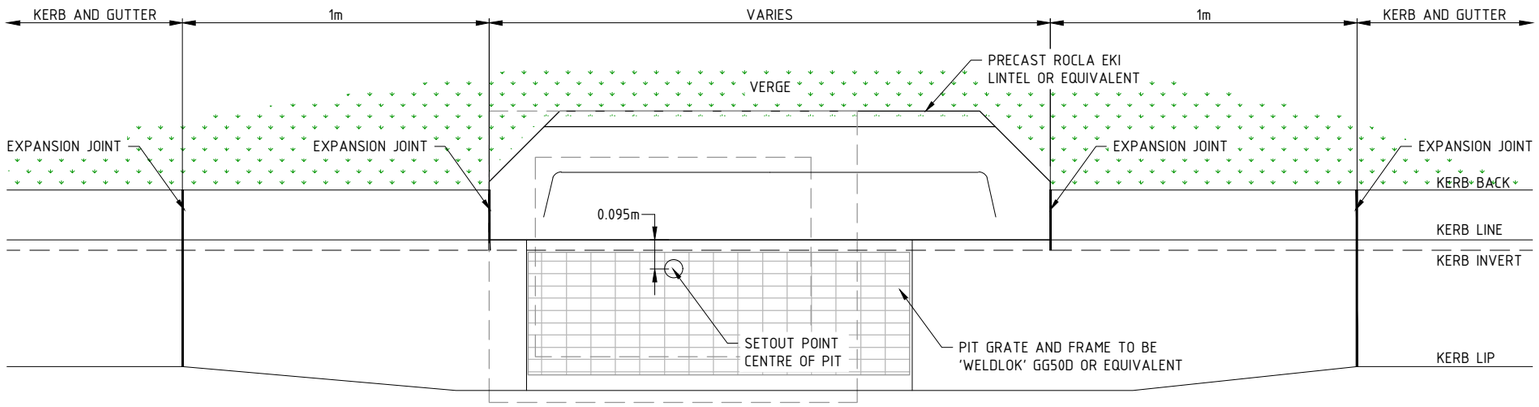
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Authorised	Date
M.BOMBEN	09/09/2021

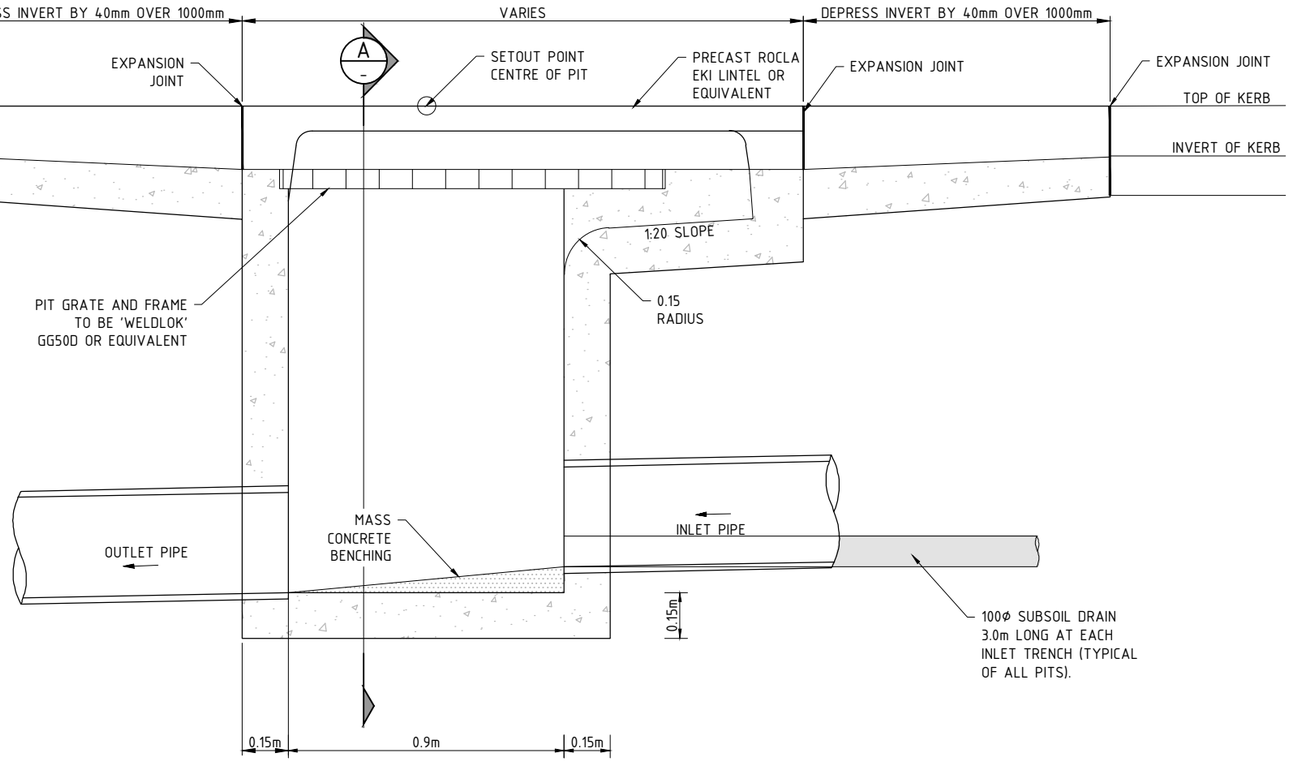
GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL DETAILS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA151** Rev **B**



TYPICAL KERB INLET SUMP WITH KG - PLAN

SCALE: 1:10 @ A1



TYPICAL KERB INLET SUMP WITH KG - ELEVATION

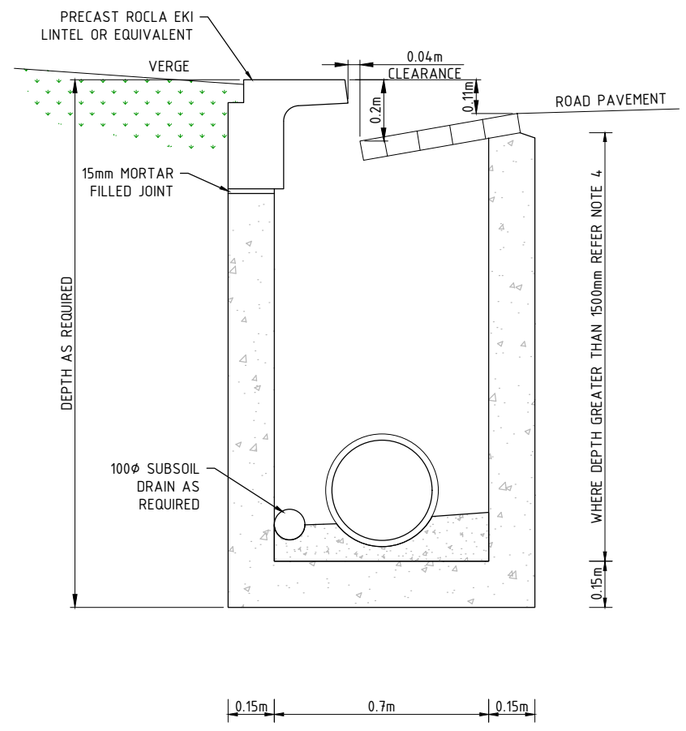
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NOTES

1. CONCRETE TO BE 25 MPa AT 28 DAYS.
2. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 1200 IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300mm SPACING VERTICALLY AND 300mm SPACING HORIZONTALLY. REFER TO TAMS STANDARD DRAWING ST-0017
3. CONTRACTOR TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENING GRATE. REFER TO SECTION A.
4. WHERE DEPTH OF PIT EXCEEDS 1.5m, WALLS AND BOTTOM TO BE REINFORCED IN ALL DIRECTIONS WITH SL82 MESH AT 30 COVER TO INSIDE FACE. FOR PITS WITH DEPTH GREATER THAN 2.0m, SL81 MESH IS TO BE USED.
5. FLOOR OF PIT TO BE BENCHED TO MID POINT OF OUTLET PIPE WHERE OUTLET >600mm DIAMETER
6. TYPICAL N12 LAP LENGTH MINIMUM 400mm
7. AT SAGS GRATE IS TO BE CENTRED ON THE LINTEL.

PRECAST LINTEL SIZES

NOMINAL OPENING SIZE (mm)	OVERALL LENGTH (mm)
1200	1830
1800	2440
2400	3050
3000	3660
3600	4230



TYPICAL KERB INLET SUMP WITH KG - SECTION A

SCALE: 1:10 @ A1

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Scale
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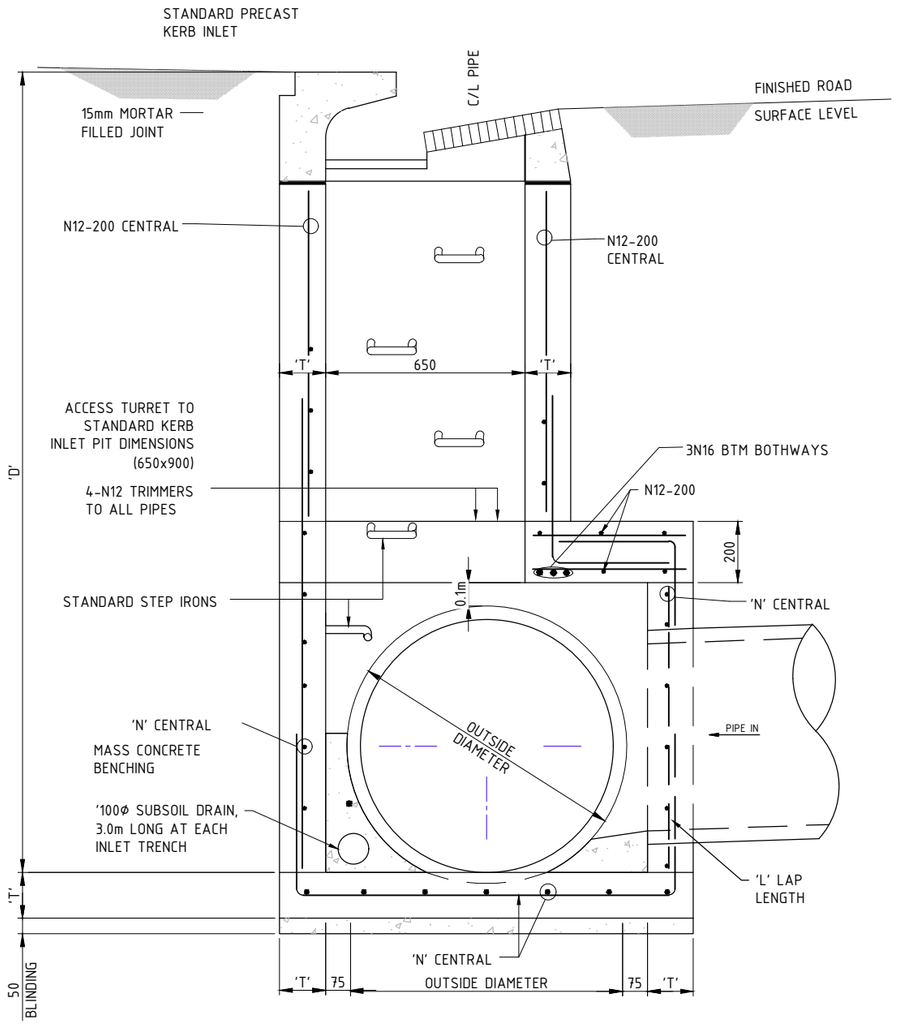
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Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL DETAILS
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA152
Rev B

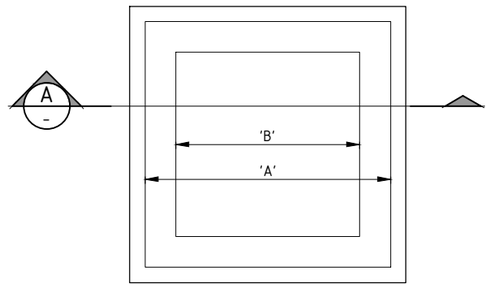
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STANDARD GRATED KERB INLET PIT FOR PIPES FROM ø525 TO ø900

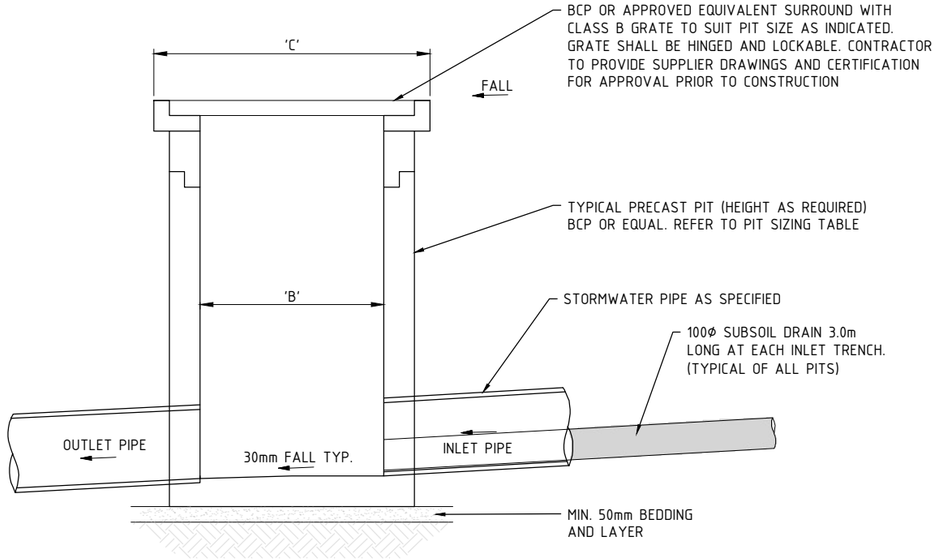
(ENLARGED CHAMBER)
SCALE: 1:10 @ A1

PIT DEPTH 'D'mm	WALLS & BASE 'T'mm	REO 'N'	LAP LENGTH 'L'
MAX 3000	150	N12-200	450
MAX 4000	200	N16-200	600



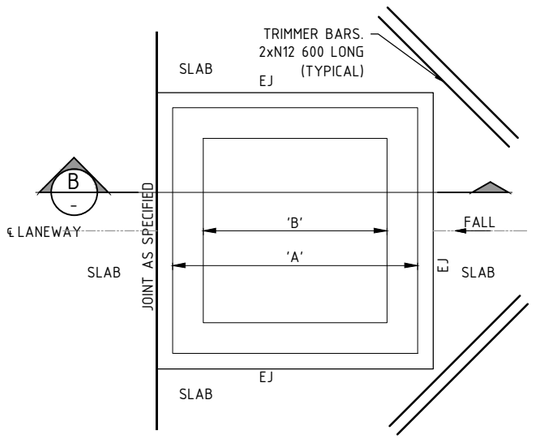
TYPICAL GRATED STORMWATER PIT - PLAN

SCALE: 1:10 @ A1



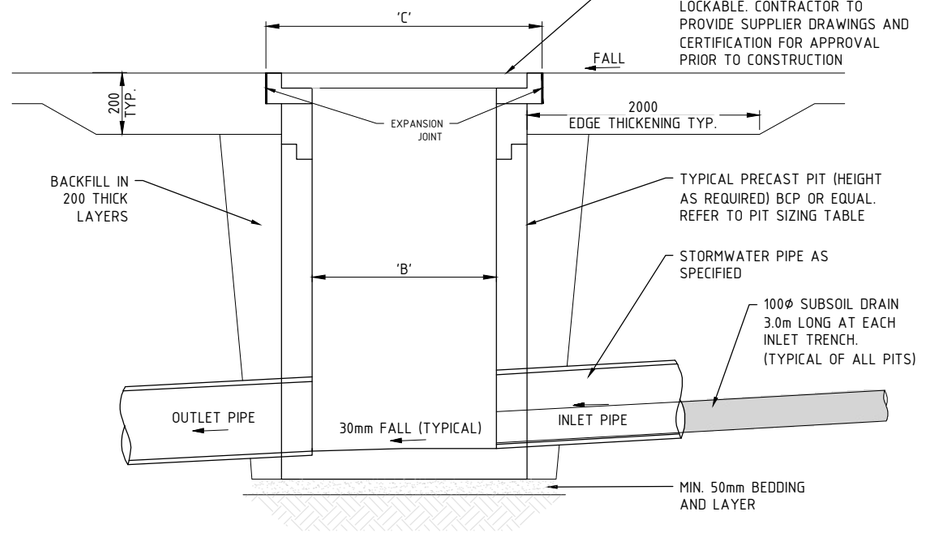
TYPICAL GRATED STORMWATER PIT - SECTION A

SCALE: 1:10 @ A1



TYPICAL GRATED STORMWATER PIT (CONCRETE LANEWAY) - PLAN

SCALE: 1:10 @ A1



TYPICAL GRATED STORMWATER PIT (CONCRETE LANEWAY) - SECTION B

SCALE: 1:10 @ A1

NOTES

1. REFER TO MANUFACTURERS SPECIFICATIONS FOR CONSTRUCTION DETAILS.
2. JUNCTION PIT SIMILAR WITH SOLID CLASS 'B' COVER.

PIT SIZING TABLE

CODE	PIT SIZE (INTERNAL)	A	B	RISER CODE	GRATE	C
PTB	600x600	800	600	PRB	PLB-HSG66B	900
PTD	900x900	1100	900	PRD	PLD-HSG66B	1200

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:10@A1 / 1:20@A3 SCALE 0 0.1 0.2 0.3 0.4 0.5

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GOOGONG

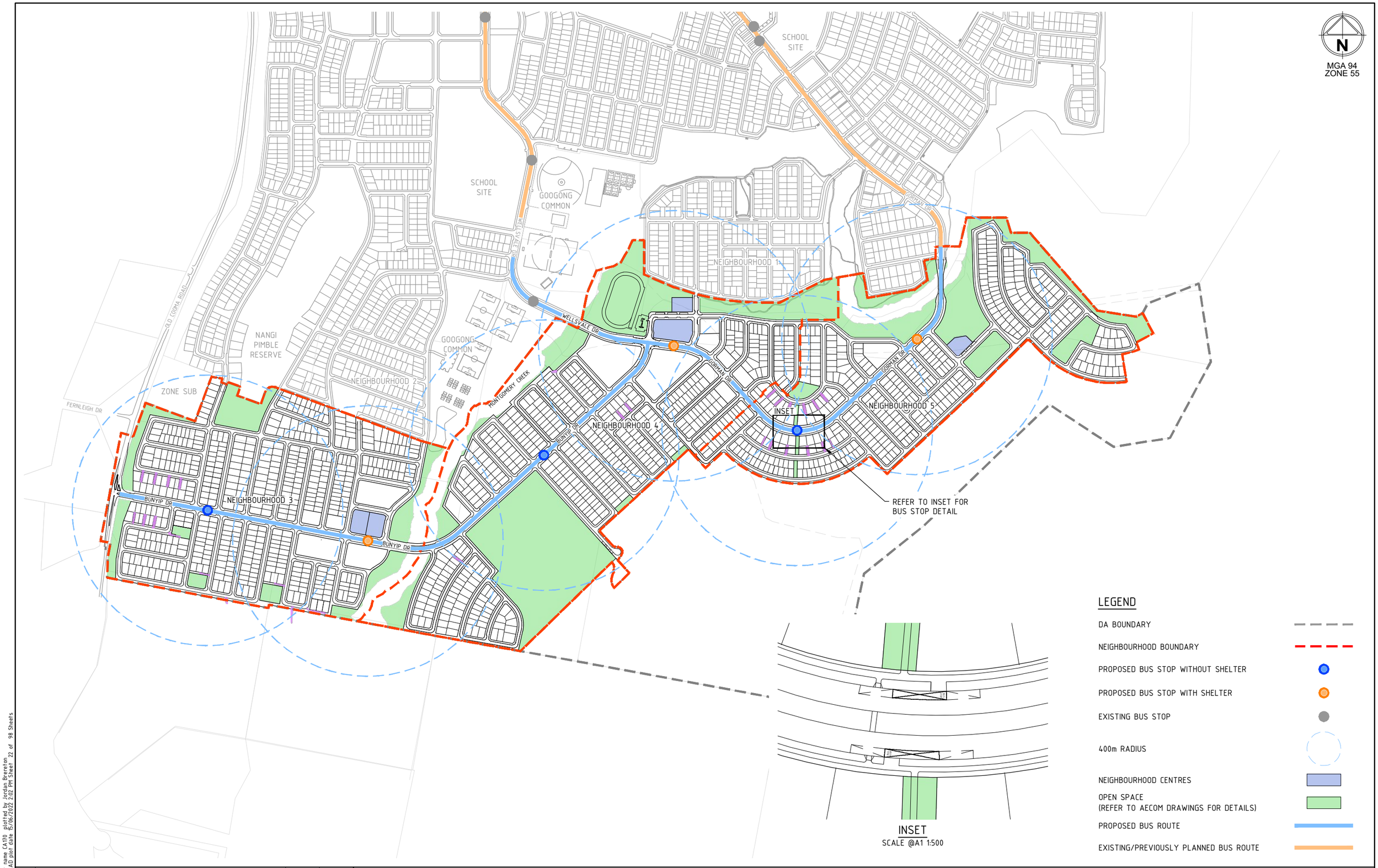
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

TYPICAL DETAILS
SHEET 4
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA153
Rev B

file name 308534CA150.dwg Layout name CA153 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:02 PM Sheet 21 of 98 Sheets



Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

1:500@ A1 SCALE 1:1000@ A3 — 0 5 10 15 20 25

1:5000@A1 SCALE 1:10000@A3 — 0 50 100 150 200 250

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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

BUS ROUTE PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA170 Rev B

file name 308534CA170.dwg Layout name CA170 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:02 PM Sheet 22 of 98 Sheets

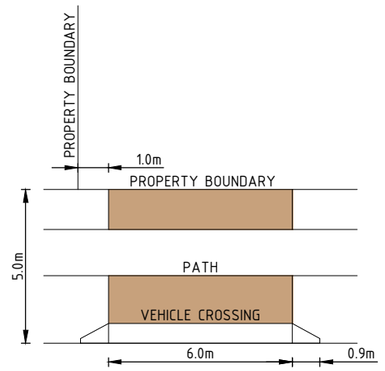


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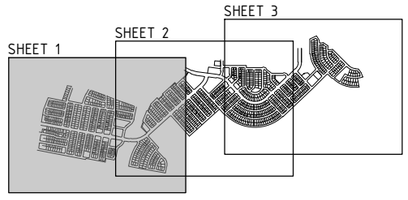
- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- DRIVEWAY BY LOT OWNERS
- DRIVEWAY BY CONTRACTOR
- EXISTING DRIVEWAY
- OPEN SPACE

NOTES

1. DRIVEWAYS ARE INDICATIVE ONLY. LOCATION SUBJECT TO CONSTRUCTION CERTIFICATE
2. REFER TO AECOM DRAWINGS FOR OPEN SPACE DETAILS
3. DRIVEWAYS FOR MEDIUM DENSITY HOUSING LOTS TO BE ALLOWED FOR WITHIN THEIR RESPECTIVE DEVELOPMENT APPLICATIONS



DRIVEWAY TYPICAL DETAIL
SCALE @A1 1:100



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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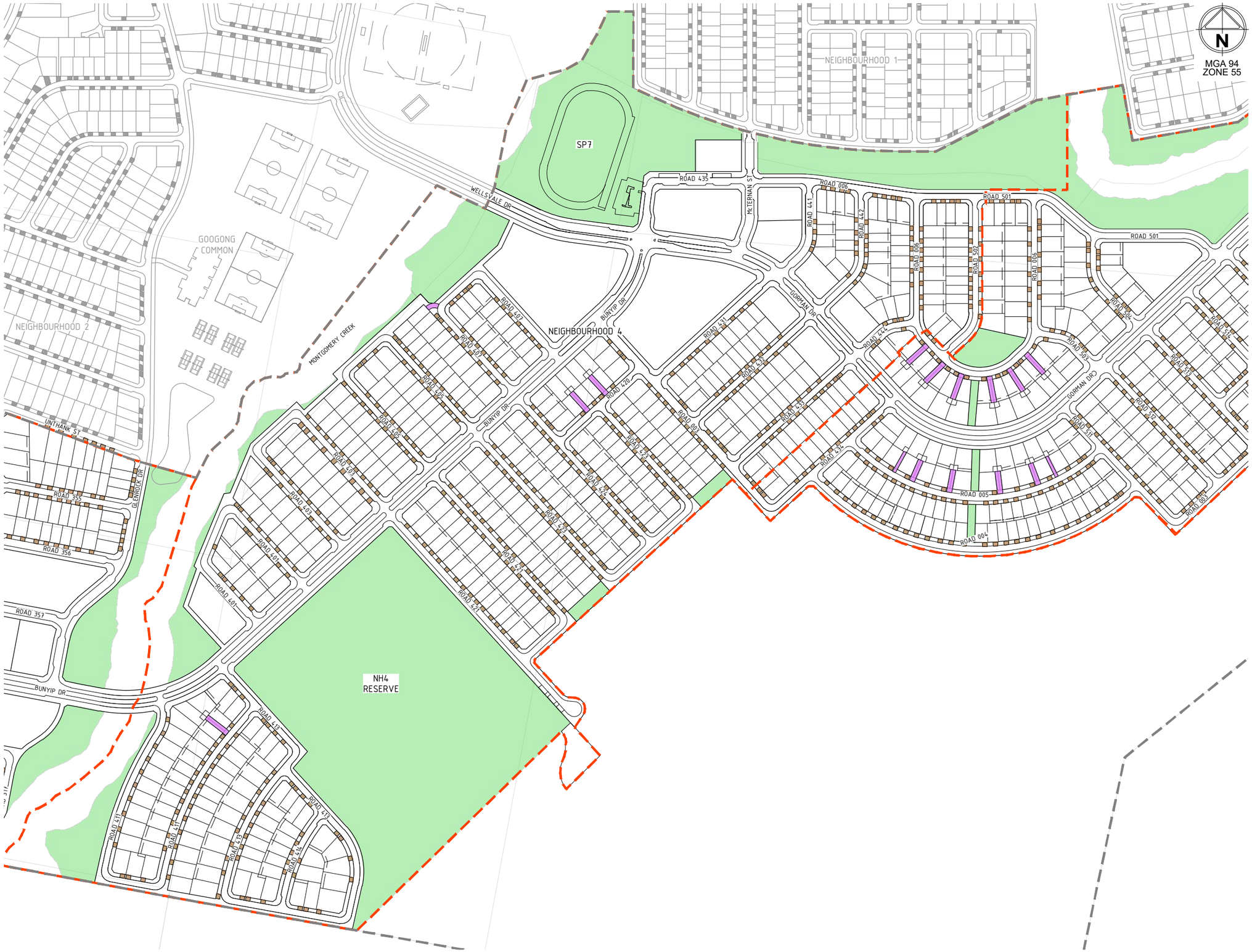
Designed M.PHILLIPS
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Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRIVEWAY PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA180
Rev B

file name 308534CA180.dwg Layout name CA180 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:02 PM Sheet 23 of 98 Sheets

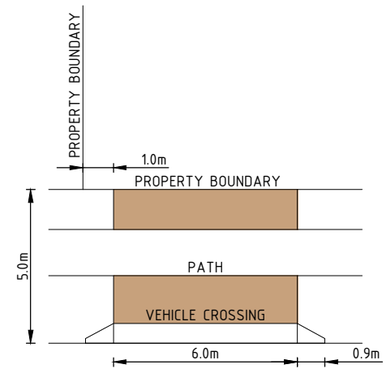


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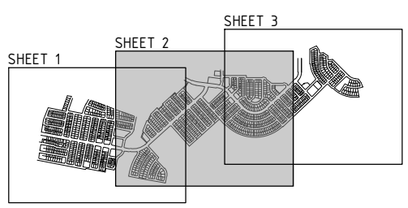
- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- DRIVEWAY BY LOT OWNERS
- DRIVEWAY BY CONTRACTOR
- EXISTING DRIVEWAY
- OPEN SPACE

NOTES

1. DRIVEWAYS ARE INDICATIVE ONLY. LOCATION SUBJECT TO CONSTRUCTION CERTIFICATE
2. REFER TO AECOM DRAWINGS FOR OPEN SPACE DETAILS
3. DRIVEWAYS FOR MEDIUM DENSITY HOUSING LOTS TO BE ALLOWED FOR WITHIN THEIR RESPECTIVE DEVELOPMENT APPLICATIONS



DRIVEWAY TYPICAL DETAIL
SCALE @A1 1:100



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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Designed	Checked
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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRIVEWAY PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA181 Rev B

file name 308534CA180.dwg Layout name CA181 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:03 PM Sheet 24 of 98 Sheets



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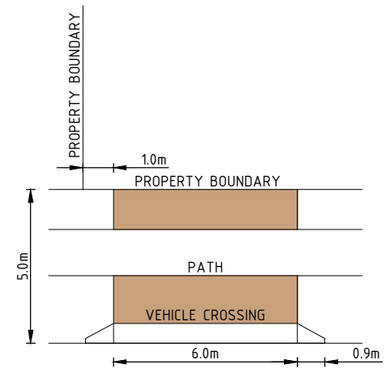
MGA 94
ZONE 55

LEGEND

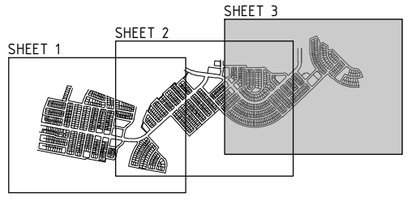
- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- DRIVEWAY BY LOT OWNERS
- DRIVEWAY BY CONTRACTOR
- EXISTING DRIVEWAY
- OPEN SPACE

NOTES

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DRIVEWAY TYPICAL DETAIL
SCALE @A1 1:100



KEY PLAN

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Scale
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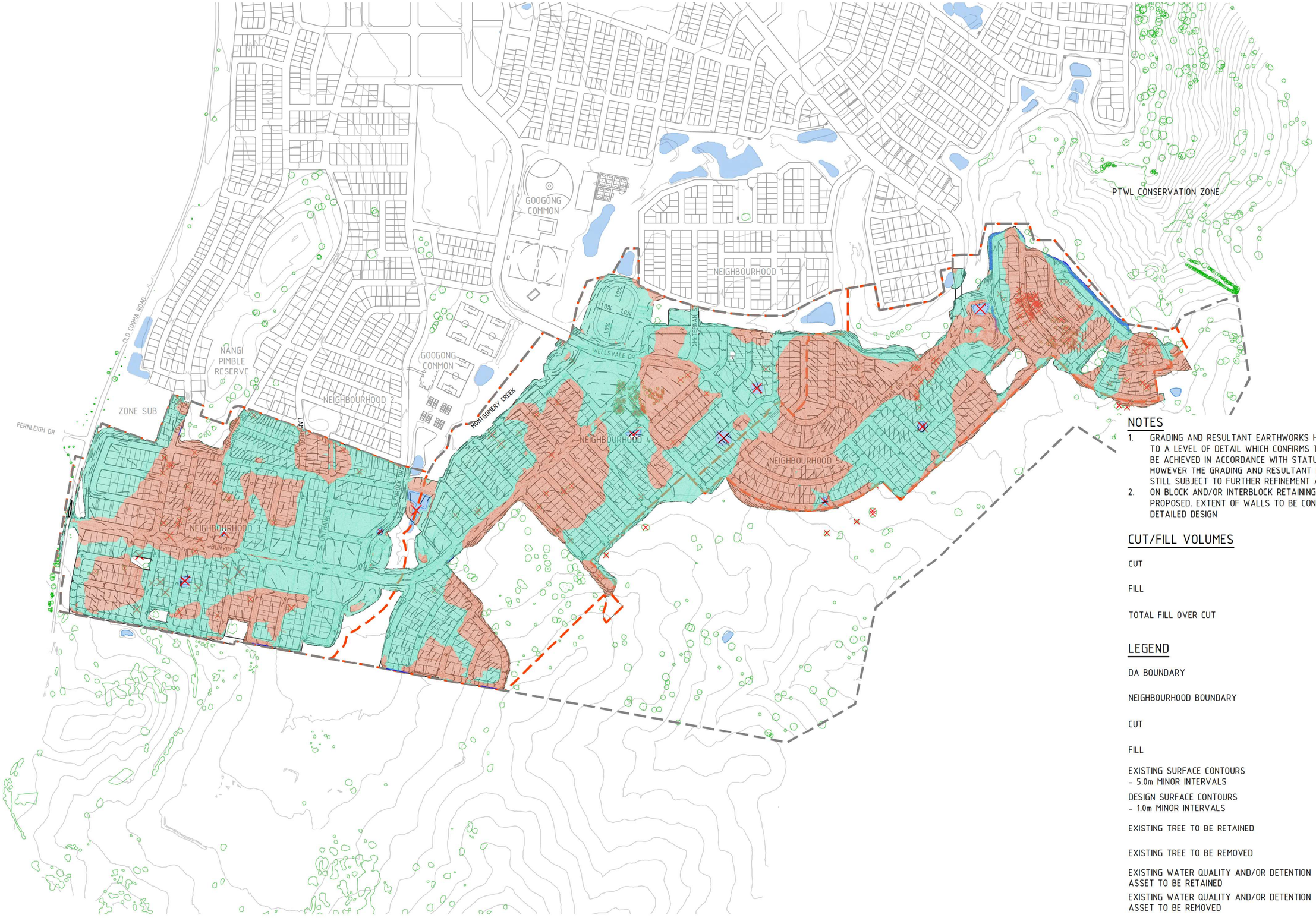
Designed M.PHILLIPS	Checked S.BEFF
Authorised M.BOMBEN	Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRIVEWAY PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA182 Rev B

file name 308534CA180.dwg layout name CA182 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:03 PM Sheet 25 of 98 Sheets



NOTES

1. GRADING AND RESULTANT EARTHWORKS HAVE BEEN RESOLVED TO A LEVEL OF DETAIL WHICH CONFIRMS THE DA LAYOUT CAN BE ACHIEVED IN ACCORDANCE WITH STATUTORY REQUIREMENTS, HOWEVER THE GRADING AND RESULTANT EARTHWORKS ARE STILL SUBJECT TO FURTHER REFINEMENT AT DETAILED DESIGN
2. ON BLOCK AND/OR INTERBLOCK RETAINING WALLS MAY BE PROPOSED. EXTENT OF WALLS TO BE CONFIRMED DURING DETAILED DESIGN

CUT/FILL VOLUMES

CUT	1,125,000 m^3
FILL	1,260,000 m^3
TOTAL FILL OVER CUT	135,000 m^3

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- CUT
- FILL
- EXISTING SURFACE CONTOURS – 5.0m MINOR INTERVALS
- DESIGN SURFACE CONTOURS – 1.0m MINOR INTERVALS
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE REMOVED

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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SCALE
1:10000@A3
0 50 100 150 200 250

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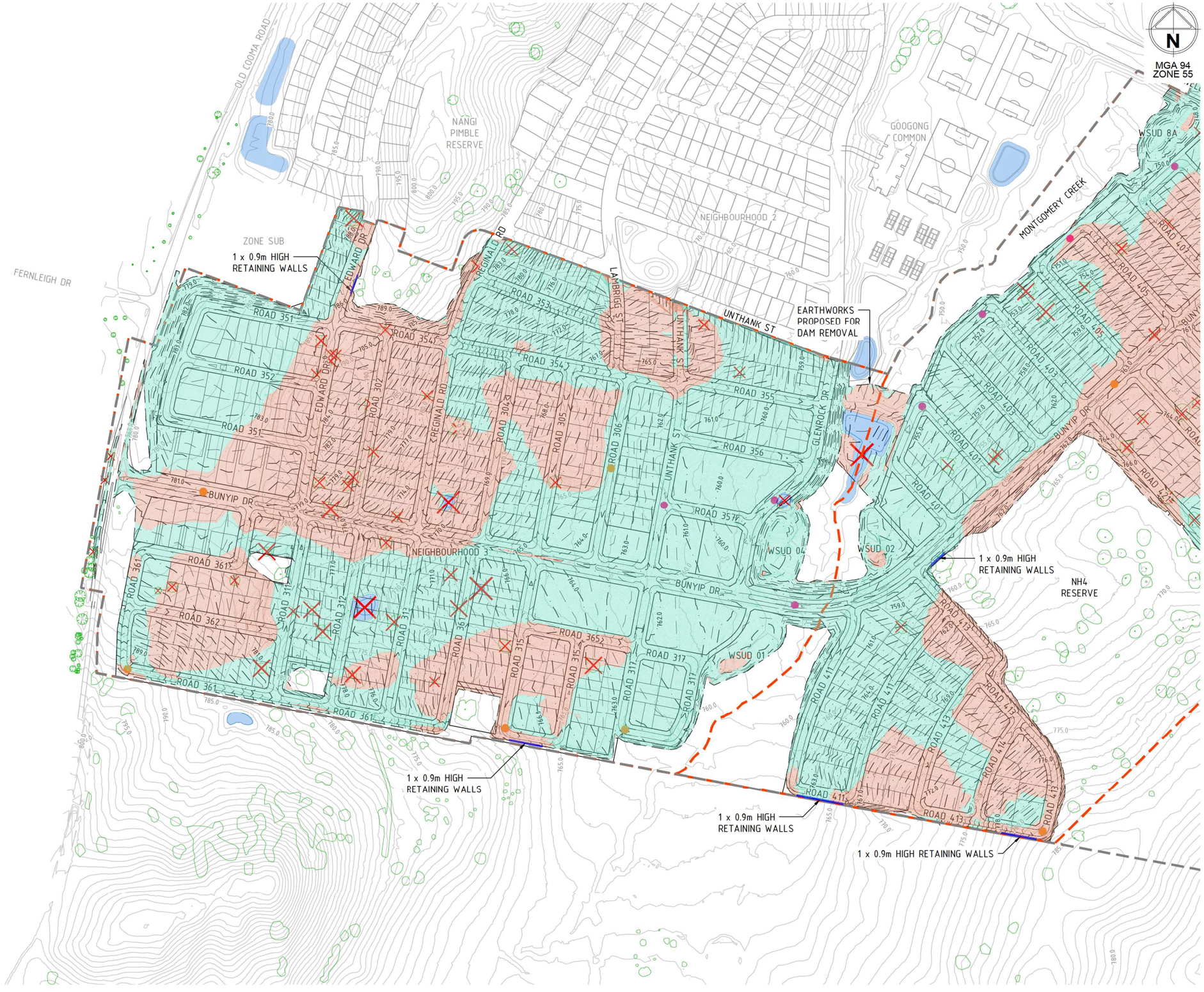
Designed	M.PHILLIPS
Checked	S.BEFF
Authorised	M.BOMBEN
Date	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GRADING PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA200 Rev B

file name 308534CA200.dwg Layout name CA200 plotted by Jordan Brereton
file location G:\30\308534\Civil\AC-AD plot date 15/06/2022 2:03 PM Sheet 26 of 98 Sheets

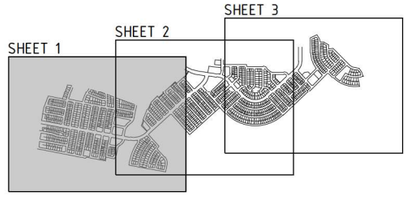


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- CUT
- FILL
- EXISTING SURFACE CONTOURS – 1.0m MINOR INTERVALS (750)
- DESIGN SURFACE CONTOURS – 0.5m MINOR INTERVALS (·750·)
- RETAINING WALL 0.9m OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE REMOVED
- DESIGN GRADING HIGH POINT
- DESIGN GRADING LOW POINT

NOTE

1. REFER TO DRAWING 308534CA200 FOR NOTES



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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SCALE
1:5000@A3
0 25 50 75 100 125

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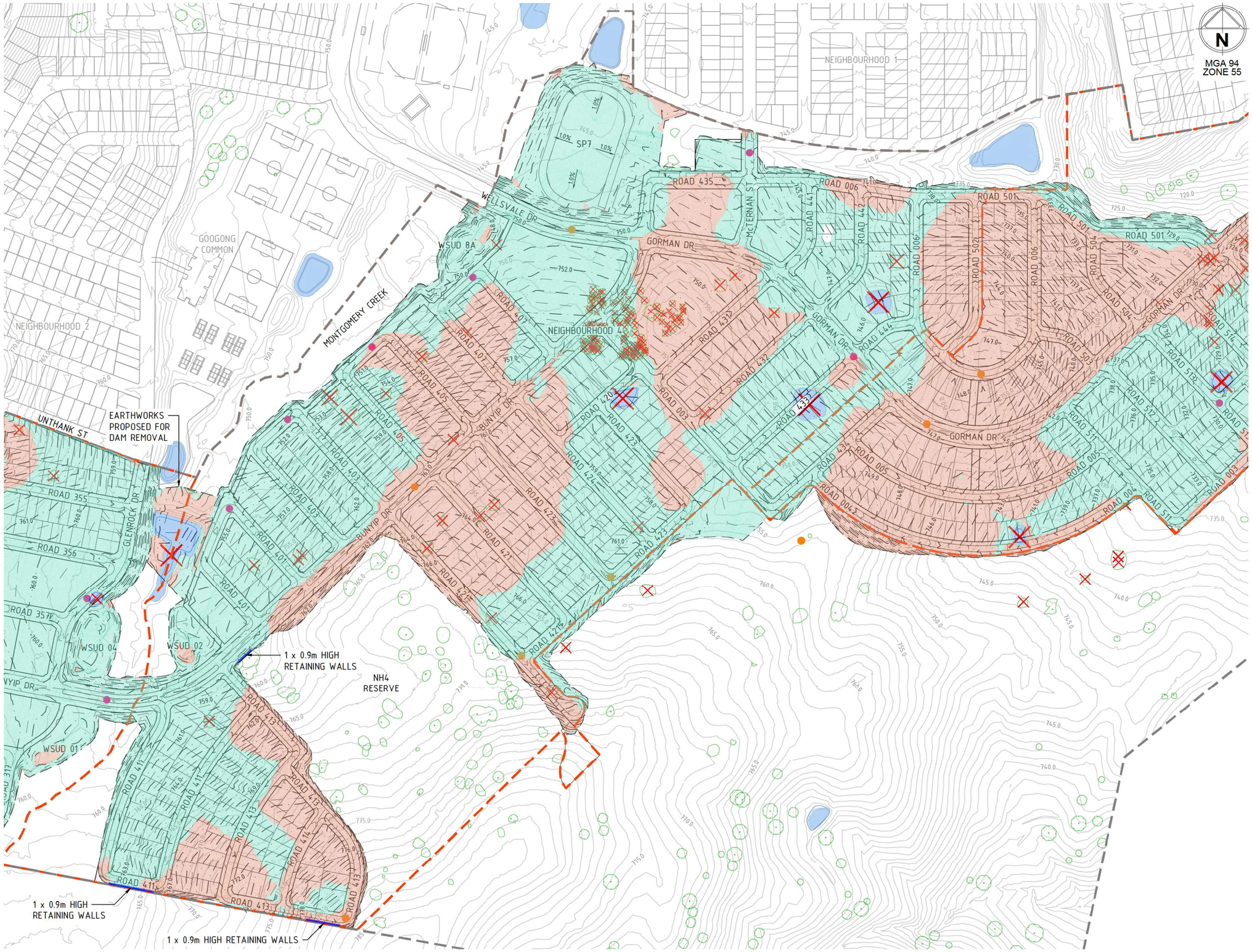
Designed	Checked
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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GRADING PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA201 Rev B

file name 308534CA200.dwg layout name CA201 plotted by Jordan Brereton
file location \\spiire\candata\Data\308534\Civil\ACAD plot date 15/06/2022 2:04 PM Sheet 27 of 98 Sheets

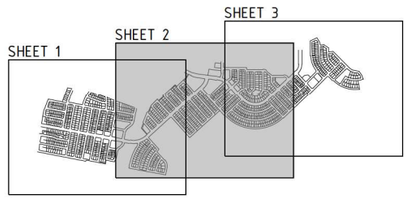


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- CUT
- FILL
- EXISTING SURFACE CONTOURS – 1.0m MINOR INTERVALS
- DESIGN SURFACE CONTOURS – 0.5m MINOR INTERVALS
- RETAINING WALL 0.9m OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE REMOVED
- DESIGN GRADING HIGH POINT
- DESIGN GRADING LOW POINT

NOTE

1. REFER TO DRAWING 308534CA200 FOR NOTES.



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale

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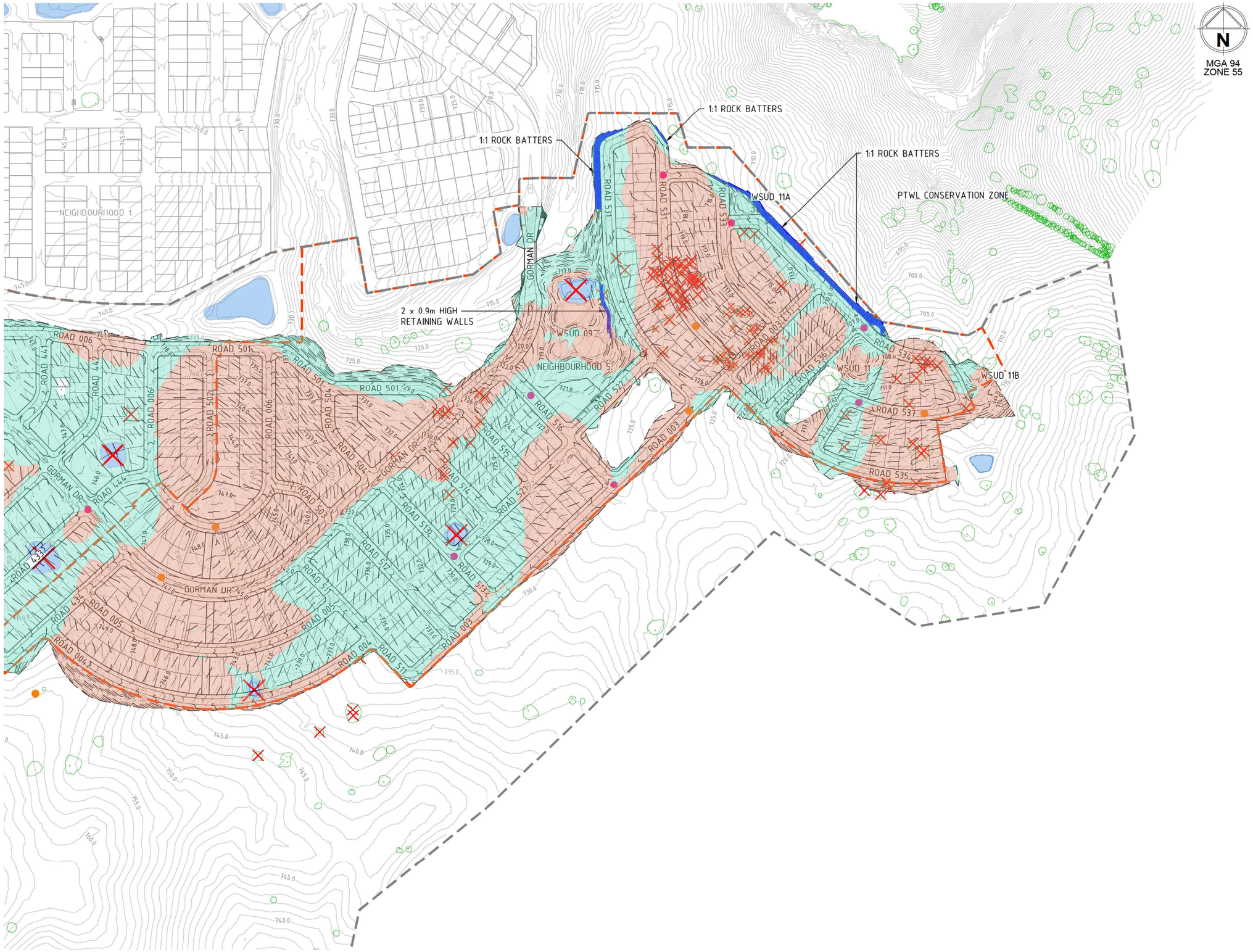
Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GRADING PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA202 Rev B

file name 308534CA200.dwg layout name CA202 plotted by Jordan Brereton
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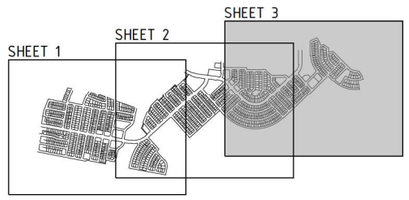
MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- CUT
- FILL
- EXISTING SURFACE CONTOURS – 1.0m MINOR INTERVALS
- DESIGN SURFACE CONTOURS – 0.5m MINOR INTERVALS
- RETAINING WALL 0.9m OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE REMOVED
- DESIGN GRADING HIGH POINT
- DESIGN GRADING LOW POINT

NOTE

1. REFER TO DRAWING 308534CA200 FOR NOTES.



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale

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GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GRADING PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA203 Rev B

file name 308534CA200.dwg layout name CA203 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:05 PM Sheet 29 of 98 Sheets

ROAD 352

ROAD 352

ROAD 370

BUNYIP DR

ROAD 371

ROAD 361

ROAD 362

ROAD 361

MGA 94
ZONE 55

PROPOSED ELECTRICAL EASEMENT

EXISTING BOUNDARY

OLD COOMA RD
TO QUEANBEYAN

PROVIDE AUXILIARY LANE

TOTAL LENGTH (B) : 145m
DECELERATION (D) : 125m
PARALLEL DECELERATION (P) : 95m
TAPER (T) : 30m
STORAGE (S) : 20m

3.5m
3.5m
3.5m
5m

EXISTING TELECOMMUNICATIONS TO
BE RELOCATED WITH ELECTRICAL

EXISTING EDGE OF BITUMEN

DEMOLISH EXISTING ACCESS

PROPOSED ELECTRICAL EASEMENT

PROVIDE LATERAL MOVEMENT FOR
CHANNELISED RIGHT TURN

LATERAL MOVEMENT (A) : 75m
DESIRABLE RADIUS (R) : 350m

EXISTING EDGE OF BITUMEN

3.5m
4.5m
3.5m

PROVIDE CHANNELISED RIGHT TURN (EDB) CHR(S)
TOTAL LENGTH (B) : 87.5m
DECELERATION (D) : 55m 6% GRADE CORRECTION 75m
TAPER (T) : 15m
STORAGE (S) : 25m

PROVIDE LATERAL MOVEMENT FOR
CHANNELISED RIGHT TURN

LATERAL MOVEMENT (A) : 137.5m
DESIRABLE RADIUS (R) : 350m

OLD COOMA RD
TO COOMA

EXISTING BOUNDARY

The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

NOTES

1. DESIGN SPEED : 90KPH
   SIGNPOSTED SPEED : 80KPH
2. LINEMARKING IS INDICATIVE ONLY

LEGEND

- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING DAM
- EXISTING TELECOMMUNICATIONS
- PROPOSED ELECTRICAL EASEMENT – SUBJECT TO EE APPROVAL
- TRAFFIC SIGNAL POLE

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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SCALE
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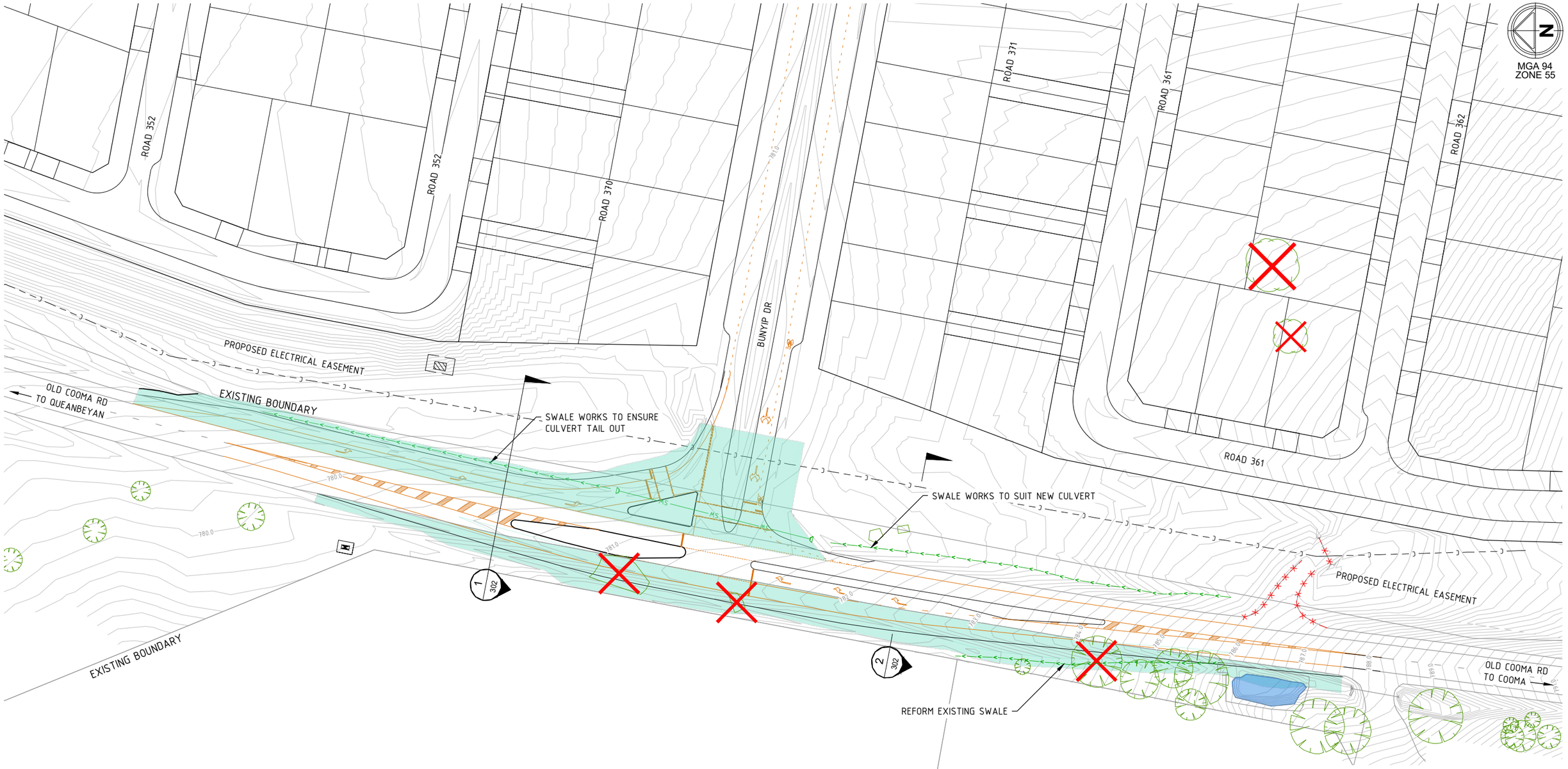
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION DETAILS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA300
Rev B

file name 308534CA300.dwg Layout name CA300 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 32 of 98 Sheets



The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

LEGEND

- FINISHED SURFACE CONTOURS – 0.2 MINOR INTERVAL — 750
- NEW WORKS EXTENT
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING DAM
- SWALE
- PROPOSED CULVERT — SW

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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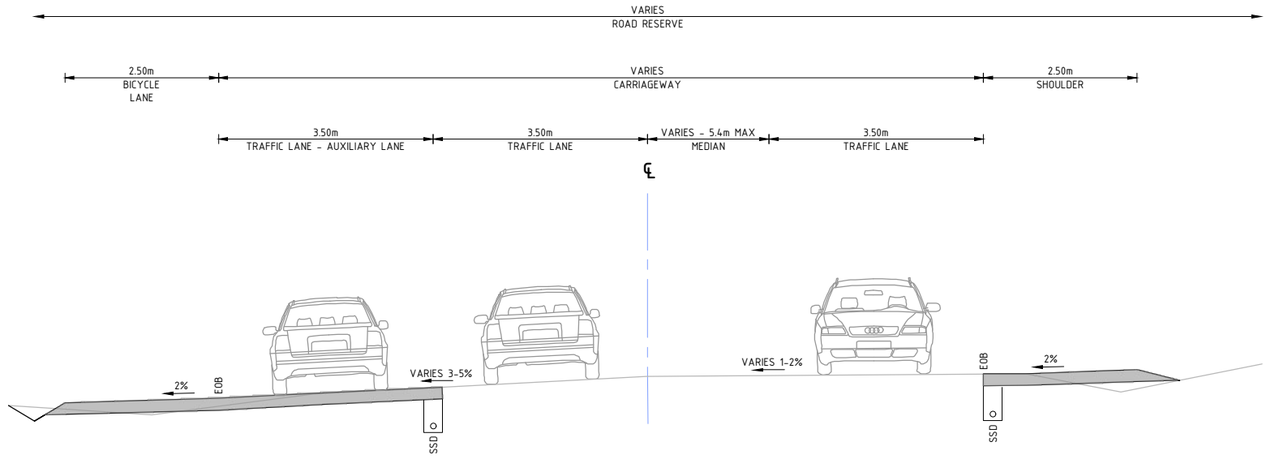
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Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION DETAILS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

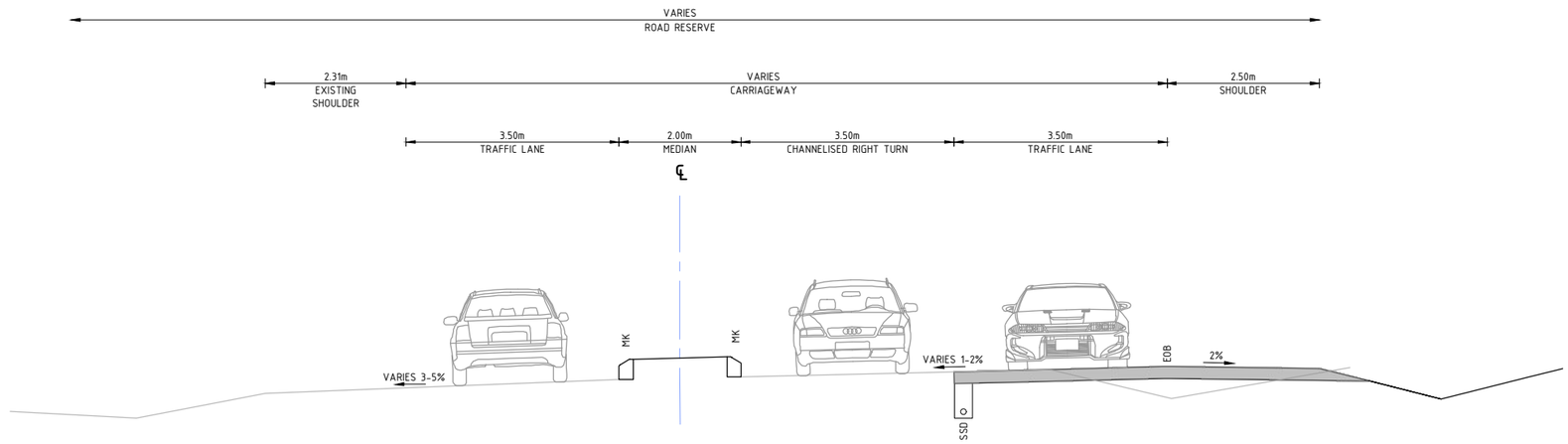
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file name 308534CA300.dwg layout name CA301 plotted by Jordan Brereton
file location \\spiire\canberra\data\30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 33 of 98 Sheets



SECTION 1 (1:50 @ 100)

OLD COOMA ROAD



SECTION 2 (1:50 @ 100)

OLD COOMA ROAD

The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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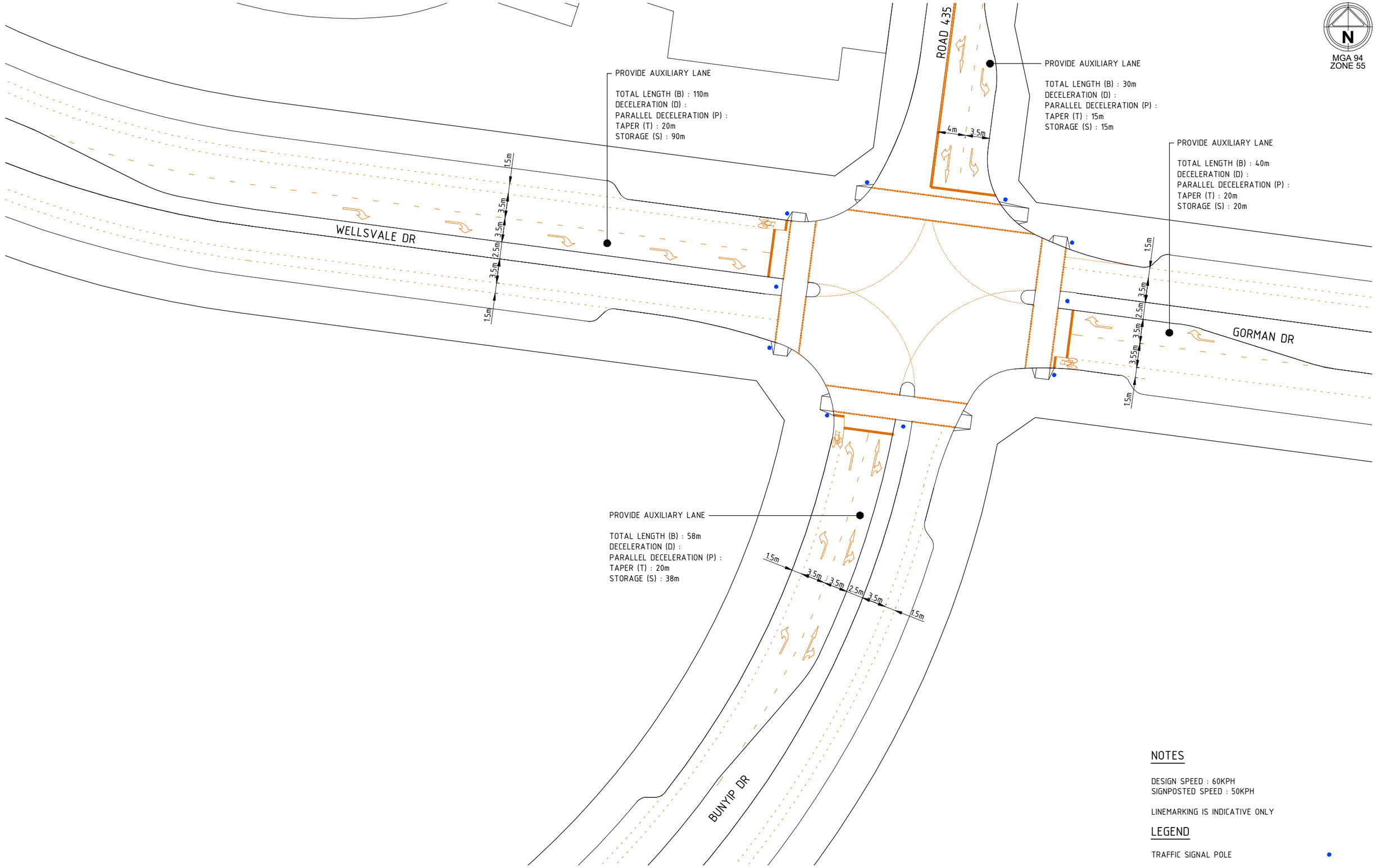
Designed M.PHILLIPS | Checked S.BEFF
Authorised M.BOMBEN | Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION DETAILS
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA302 Rev B

file name 308534CA300.dwg layout name CA302 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 34 of 98 Sheets



NOTES

DESIGN SPEED : 60KPH
SIGNPOSTED SPEED : 50KPH

LINEMARKING IS INDICATIVE ONLY

LEGEND

TRAFFIC SIGNAL POLE

Rev	Amendments	Approved	Date
D	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
C	TURNING LANE ADDED	CJC	22/12/21
B	DESIGN SPEED AMENDED TO 60KPH	CJC	25/11/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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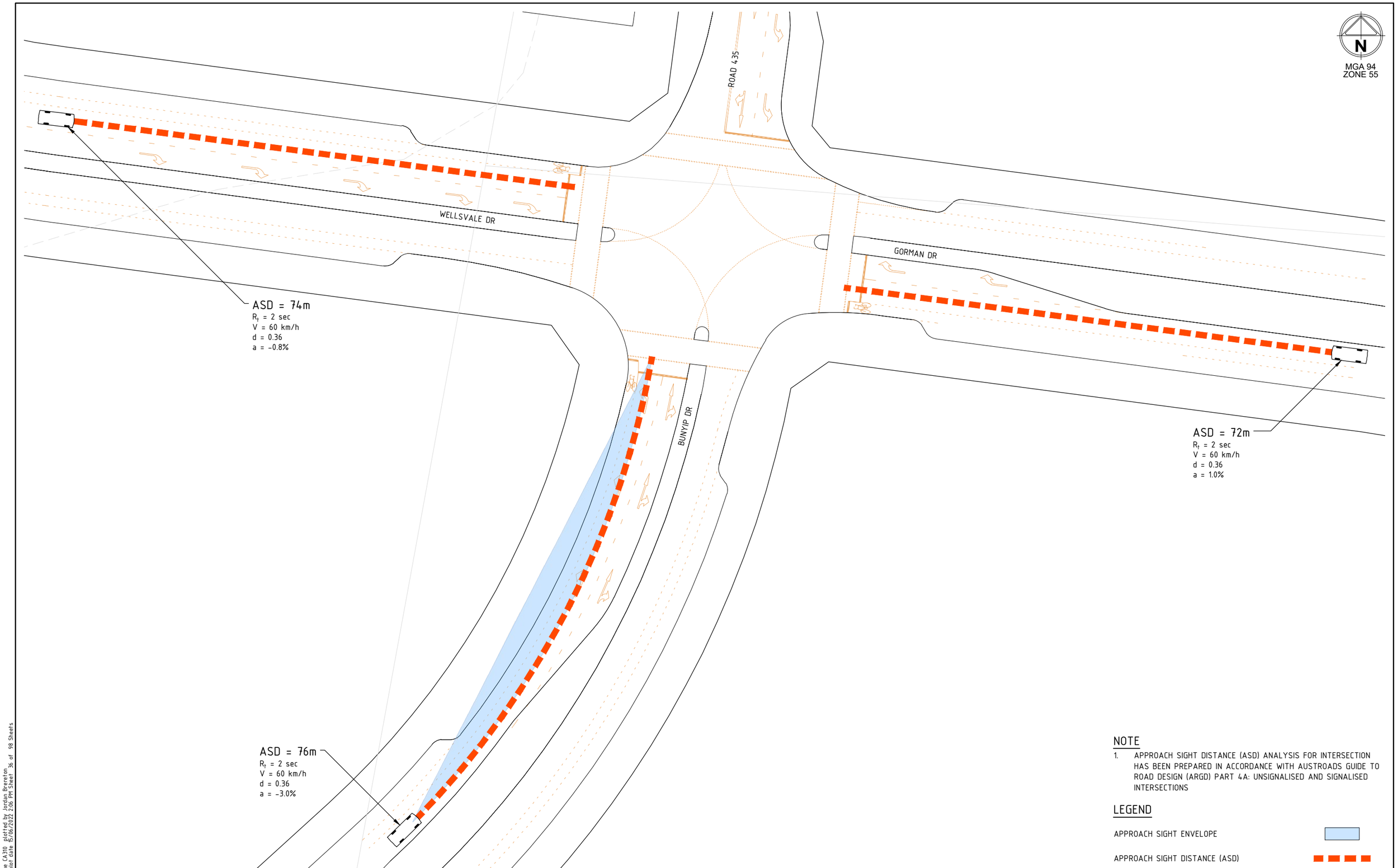
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION DETAILS
SHEET 4
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA303** Rev **D**

file name 308534CA300.dwg layout name CA303 plotted by Jordan Brereton
file location \\spiire\canberra\Data 30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 35 of 98 Sheets



NOTE

1. APPROACH SIGHT DISTANCE (ASD) ANALYSIS FOR INTERSECTION HAS BEEN PREPARED IN ACCORDANCE WITH AUSTROADS GUIDE TO ROAD DESIGN (ARGD) PART 4A: UNSIGNALISED AND SIGNALISED INTERSECTIONS

LEGEND

APPROACH SIGHT ENVELOPE

APPROACH SIGHT DISTANCE (ASD)

Rev	Amendments	Approved	Date
C	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
B	TURNING LANE ADDED	CJC	22/12/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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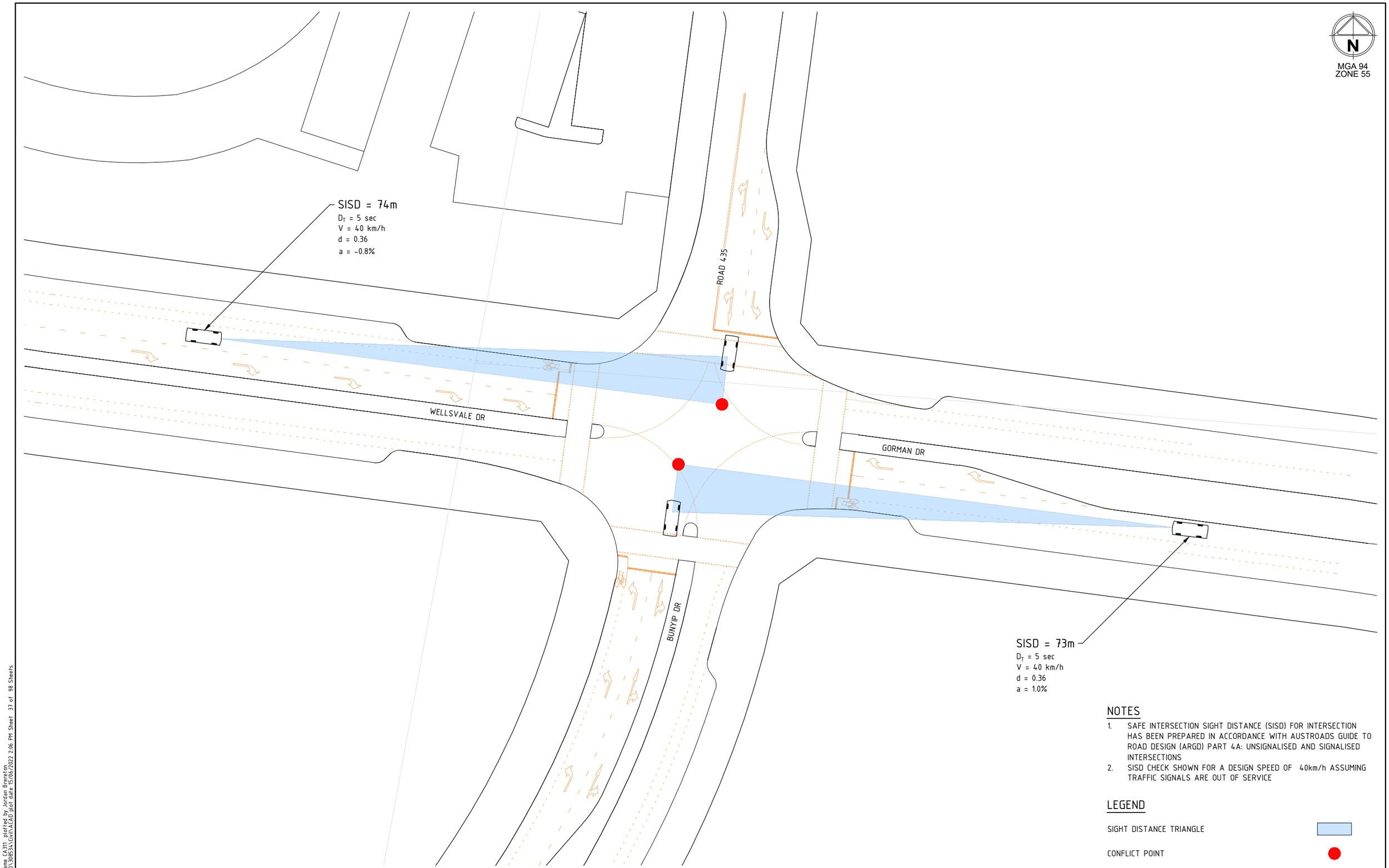
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION SIGHT DISTANCE
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA310 | Rev C

file name 308534CA310.dwg Layout name CA310 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 36 of 98 Sheets



NOTES

1. SAFE INTERSECTION SIGHT DISTANCE (SISD) FOR INTERSECTION HAS BEEN PREPARED IN ACCORDANCE WITH AUSTROADS GUIDE TO ROAD DESIGN (ARGD) PART 4A: UNSIGNALISED AND SIGNALISED INTERSECTIONS
2. SISD CHECK SHOWN FOR A DESIGN SPEED OF 40km/h ASSUMING TRAFFIC SIGNALS ARE OUT OF SERVICE

LEGEND

SIGHT DISTANCE TRIANGLE

CONFLICT POINT

Rev	Amendments	Approved	Date
C	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
B	TURNING LANE ADDED	CJC	22/12/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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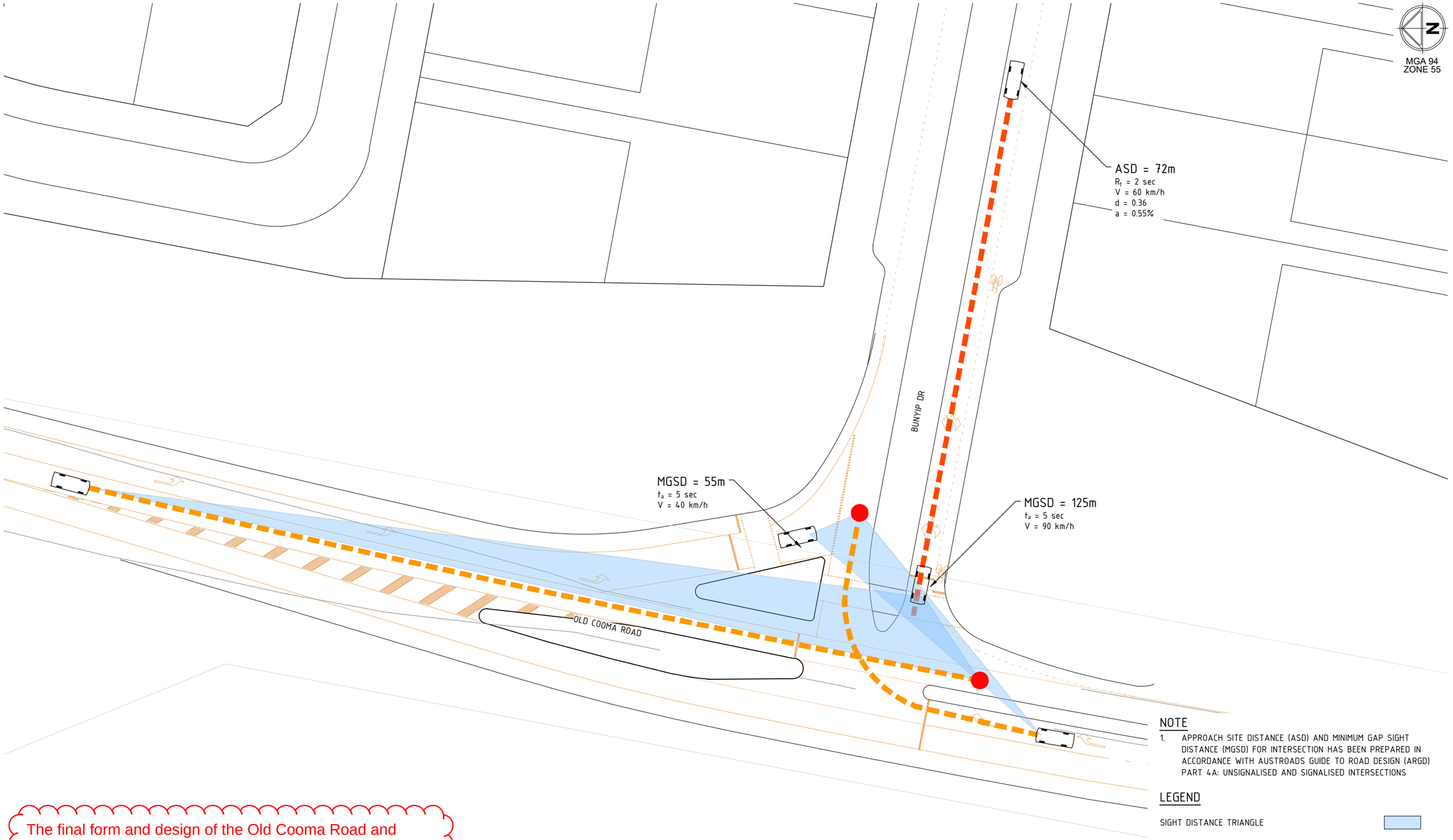
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION SIGHT DISTANCE
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA311 Rev C

file name 308534CA310.dwg Layout name CA311 plotted by Jordan Brereton
file location \\spiire\canbdata\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:06 PM Sheet 37 of 98 Sheets



The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

NOTE

1. APPROACH SITE DISTANCE (ASD) AND MINIMUM GAP SIGHT DISTANCE (MGSD) FOR INTERSECTION HAS BEEN PREPARED IN ACCORDANCE WITH AUSTROADS GUIDE TO ROAD DESIGN (ARGD) PART 4A: UNSIGNALISED AND SIGNALISED INTERSECTIONS

LEGEND

SIGHT DISTANCE TRIANGLE

CONFLICT POINT

APPROACH SIGHT DISTANCE (ASD)

MINIMUM GAP SIGHT DISTANCE (MGSD)

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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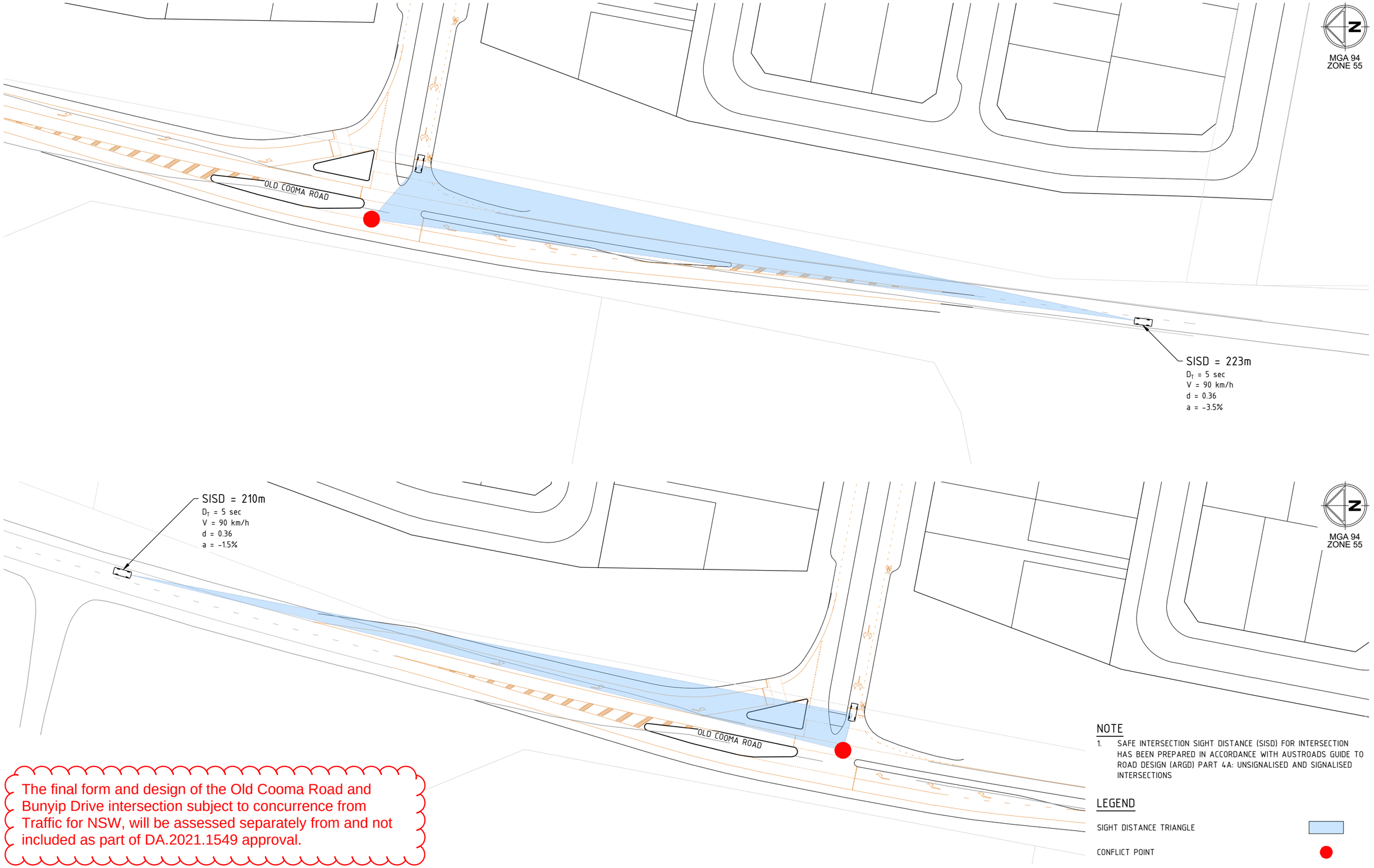
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION SIGHT DISTANCE
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA312 | Rev B

file name 308534CA310.dwg layout name CA312 plotted by Jordan Brereton
file location G:\308534\Civil\ACAD plot date 15/06/2022 2:07 PM Sheet 38 of 98 Sheets



The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

NOTE

1. SAFE INTERSECTION SIGHT DISTANCE (SISD) FOR INTERSECTION HAS BEEN PREPARED IN ACCORDANCE WITH AUSTROADS GUIDE TO ROAD DESIGN (ARGD) PART 4A: UNSIGNALISED AND SIGNALISED INTERSECTIONS

LEGEND

SIGHT DISTANCE TRIANGLE

CONFLICT POINT

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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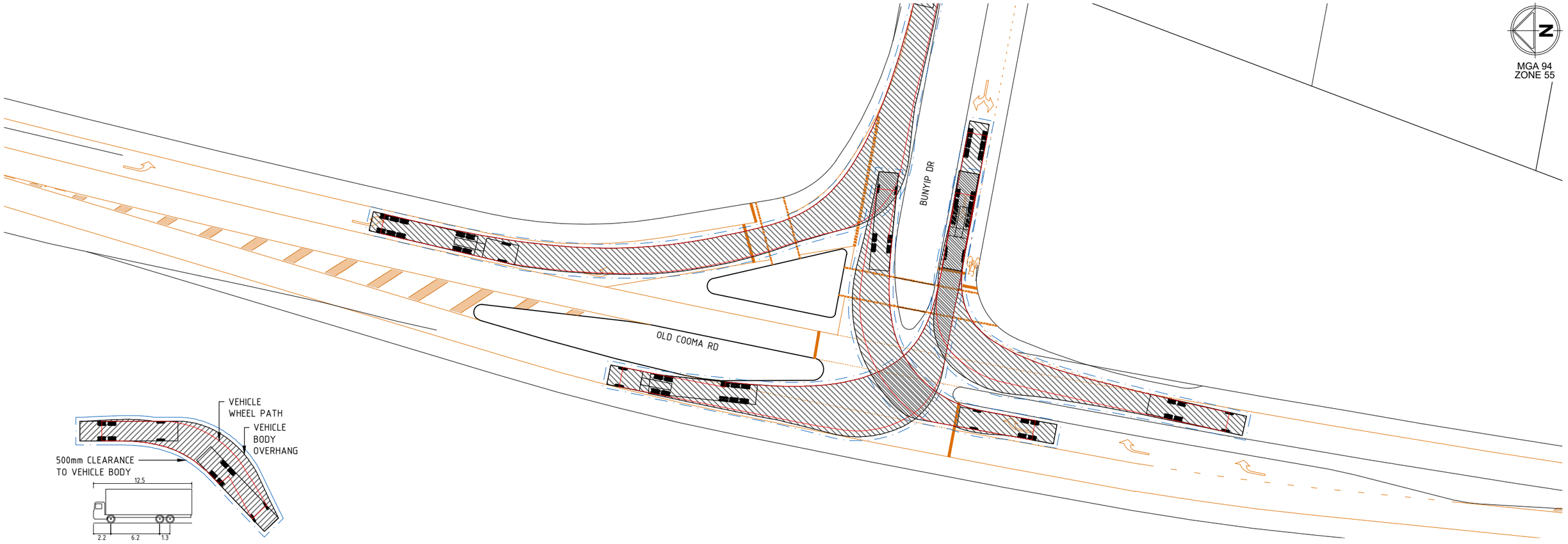
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION SIGHT DISTANCE
SHEET 4
QPRC
GOOGONG TOWNSHIP PTY LTD

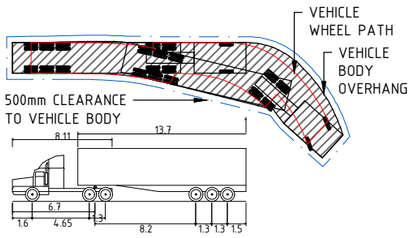
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SINGLE UNIT TRUCK/BUS (12.5m)

OVERALL LENGTH	12.5m
OVERALL WIDTH	2.5m
OVERALL BODY HEIGHT	4.3m
MIN BODY GROUND CLEARANCE	0.49m
TRACK WIDTH	2.5m
LOCK-TO-LOCK TIME	6.0s
KERB TO KERB TURNING RADIUS	12.5m



PRIME MOVER AND SEMI TRAILER (19 m)

OVERALL LENGTH	19.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN GROUND CLEARANCE	0.540m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	12.500m

The final form and design of the Old Cooma Road and Bunyip Drive intersection subject to concurrence from Traffic for NSW, will be assessed separately from and not included as part of DA.2021.1549 approval.

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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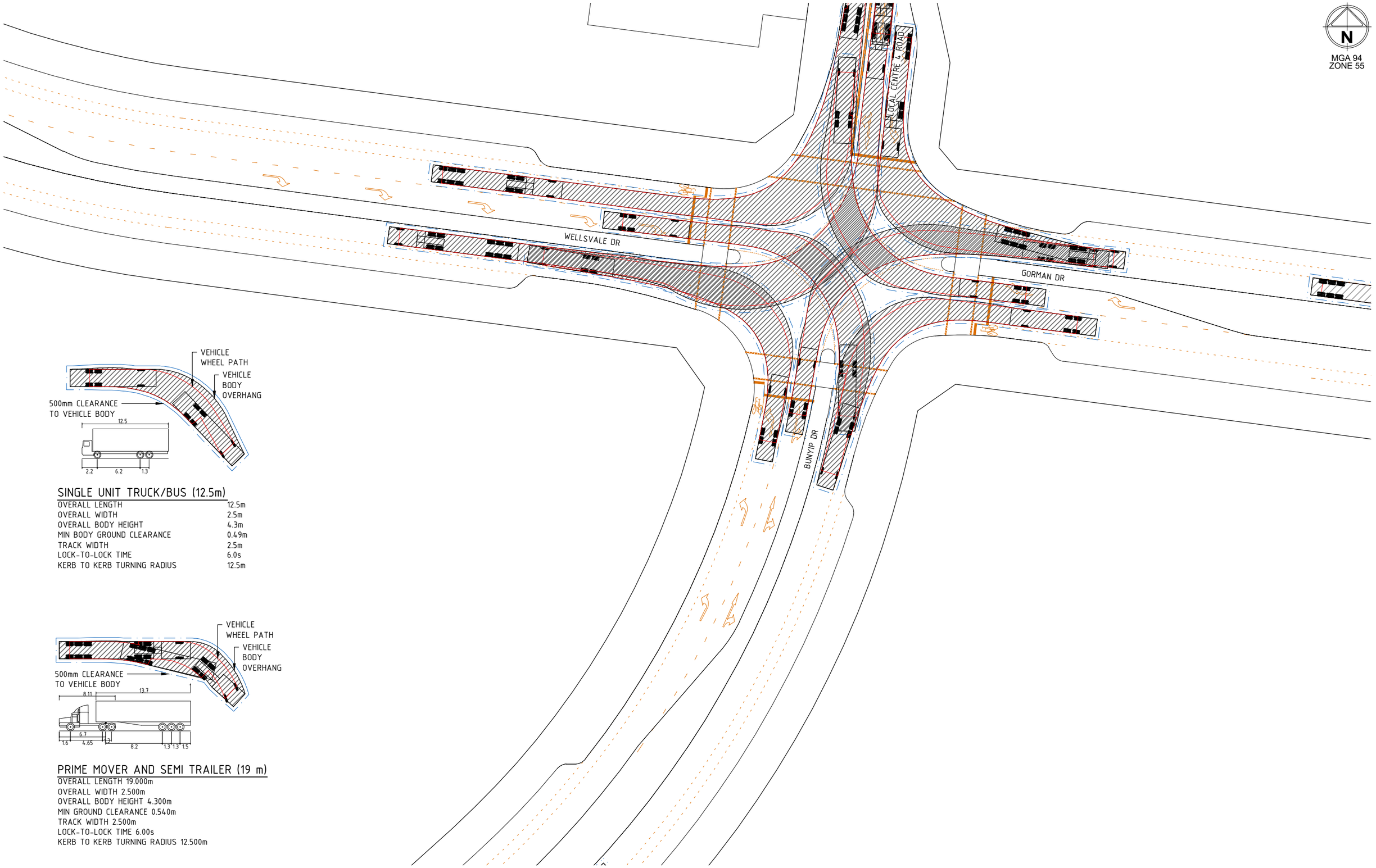
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
INTERSECTION TURNING MOVEMENTS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA320** Rev **B**

file name 308534CA320.dwg layout name CA320 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:07 PM Sheet 40 of 98 Sheets



SINGLE UNIT TRUCK/BUS (12.5m)

OVERALL LENGTH	12.5m
OVERALL WIDTH	2.5m
OVERALL BODY HEIGHT	4.3m
MIN BODY GROUND CLEARANCE	0.49m
TRACK WIDTH	2.5m
LOCK-TO-LOCK TIME	6.0s
KERB TO KERB TURNING RADIUS	12.5m

PRIME MOVER AND SEMI TRAILER (19 m)

OVERALL LENGTH 19.000m
OVERALL WIDTH 2.500m
OVERALL BODY HEIGHT 4.300m
MIN GROUND CLEARANCE 0.540m
TRACK WIDTH 2.500m
LOCK-TO-LOCK TIME 6.00s
KERB TO KERB TURNING RADIUS 12.500m

Rev	Amendments	Approved	Date
D	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
C	TURNING LANE ADDED	CJC	22/12/21
B	LEFT TURN 19.0M MOVEMENT FROM RD 435 ADDED	CJC	25/11/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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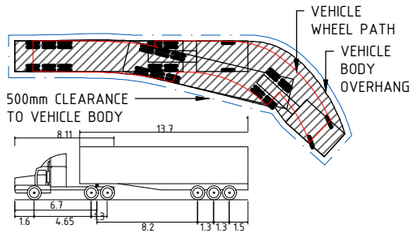
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

INTERSECTION TURNING MOVEMENTS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA321
Rev D

file name 308534CA320.dwg layout name CA321 plotted by Jordan Brereton
file location \\spiire\candata\data\301\308534\Civil\ACAD plot date 15/06/2022 2:07 PM Sheet 41 of 98 Sheets



PRIME MOVER AND SEMI TRAILER (19 m)

OVERALL LENGTH 19.000m
OVERALL WIDTH 2.500m
OVERALL BODY HEIGHT 4.300m
MIN GROUND CLEARANCE 0.540m
TRACK WIDTH 2.500m
LOCK-TO-LOCK TIME 6.00s
KERB TO KERB TURNING RADIUS 12.500m

FUTURE MU SITE

ROAD 357

9.7m

8m

10.6m

UNTHANK ST

GLENROCK DR

NEIGHBOURHOOD 3 CENTRE

OPEN SPACE

20.2m

BUNYIP DR

N

MGA 94
ZONE 55

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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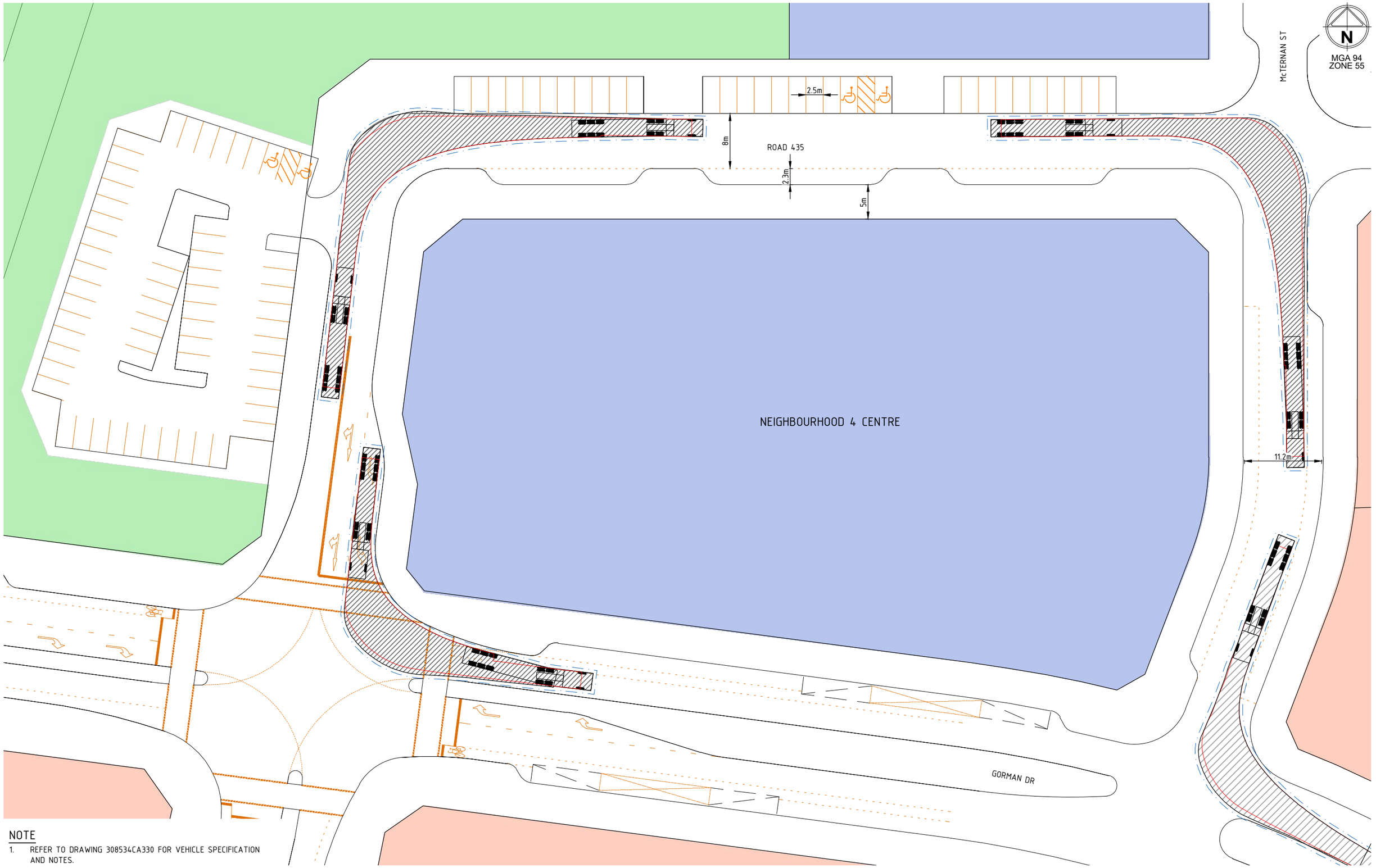
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

NEIGHBOURHOOD CENTRE PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA330
Rev B

file name 308534CA330.dwg Layout name CA330 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:07 PM Sheet 42 of 98 Sheets



NOTE

1. REFER TO DRAWING 308534CA330 FOR VEHICLE SPECIFICATION AND NOTES.

Rev	Amendments	Approved	Date
C	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
B	TURNING LANE ADDED	CJC	22/12/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

NEIGHBOURHOOD CENTRE PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA331 Rev C

file name 308534CA330.dwg layout name CA331 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\Civil\ACAD plot date 15/06/2022 2:07 PM Sheet 43 of 98 Sheets

NEIGHBOURHOOD 5 CENTRE

OPEN SPACE

MGA 94
ZONE 55

ROAD 522

9.7m

ROAD 516

11.2m

ROAD 531

8m

FUTURE MU SITE

OPEN SPACE

ROAD 003

9.7m

NOTE

1. REFER TO DRAWING 308534CA330 FOR VEHICLE SPECIFICATION AND NOTES.

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

1:250@A1
SCALE
1:500@A3

0 2.5 5 7.5 10 12.5

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GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

NEIGHBOURHOOD CENTRE PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA332** Rev **B**

file name 308534CA330.dwg layout name CA332 plotted by Jordan Brereton
file location \\spiire\candata\data\301308534\civil\ACAD plot date 15/06/2022 2:07 PM Sheet 44 of 98 Sheets



NOTES

1. REFER TO DRAWING 308534CA110 FOR FOOTPATH DETAILS
2. REFER TO AECOM LANDSCAPE ARCHITECTURE DRAWINGS FOR OPEN SPACE DETAILS

LEGEND

- NEIGHBOURHOOD BOUNDARY
- DRIVEWAY
- OPEN SPACE (REFER TO AECOM DRAWINGS FOR DETAILS)
- EXISTING TREE TO BE RETAINED
- PATH (1.5m WIDE)
- KEY PATH (2.0m WIDE)
- OPEN SPACE PATH (REFER TO LANDSCAPE DWGS FOR DETAIL)

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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GOOGONG

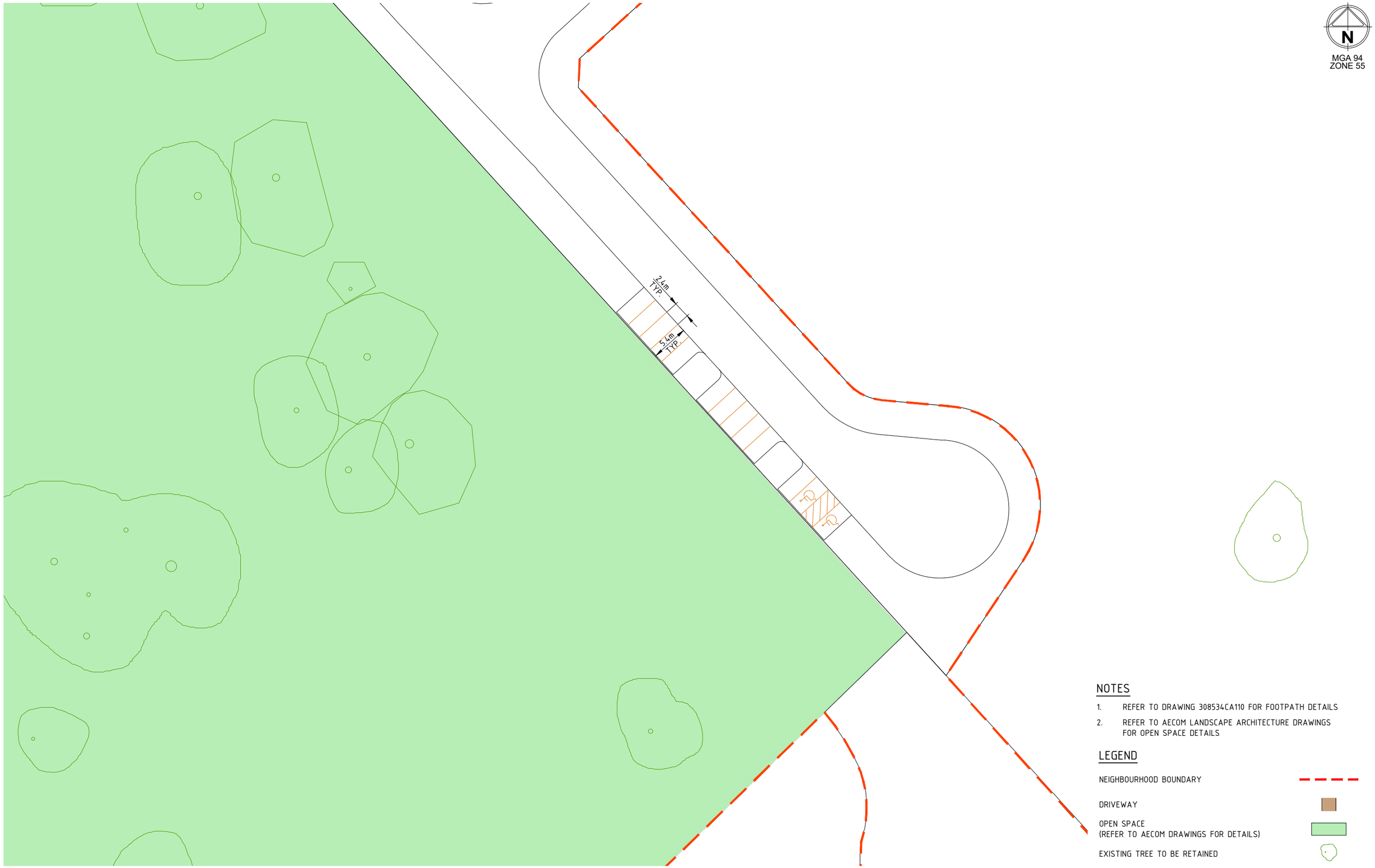
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

ROAD DETAILS
NH3 INTERSECTIONS
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA340 Rev B

file name 308534CA340.dwg layout name CA340 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:08 PM Sheet 45 of 98 Sheets



NOTES

1. REFER TO DRAWING 308534CA110 FOR FOOTPATH DETAILS
2. REFER TO AECOM LANDSCAPE ARCHITECTURE DRAWINGS FOR OPEN SPACE DETAILS

LEGEND

NEIGHBOURHOOD BOUNDARY

DRIVEWAY

OPEN SPACE
(REFER TO AECOM DRAWINGS FOR DETAILS)

EXISTING TREE TO BE RETAINED

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:250@A1 SCALE 1:500@A3
0 2.5 5 7.5 10 12.5

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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

ROAD DETAILS
NH4 RESERVE
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA341
Rev B

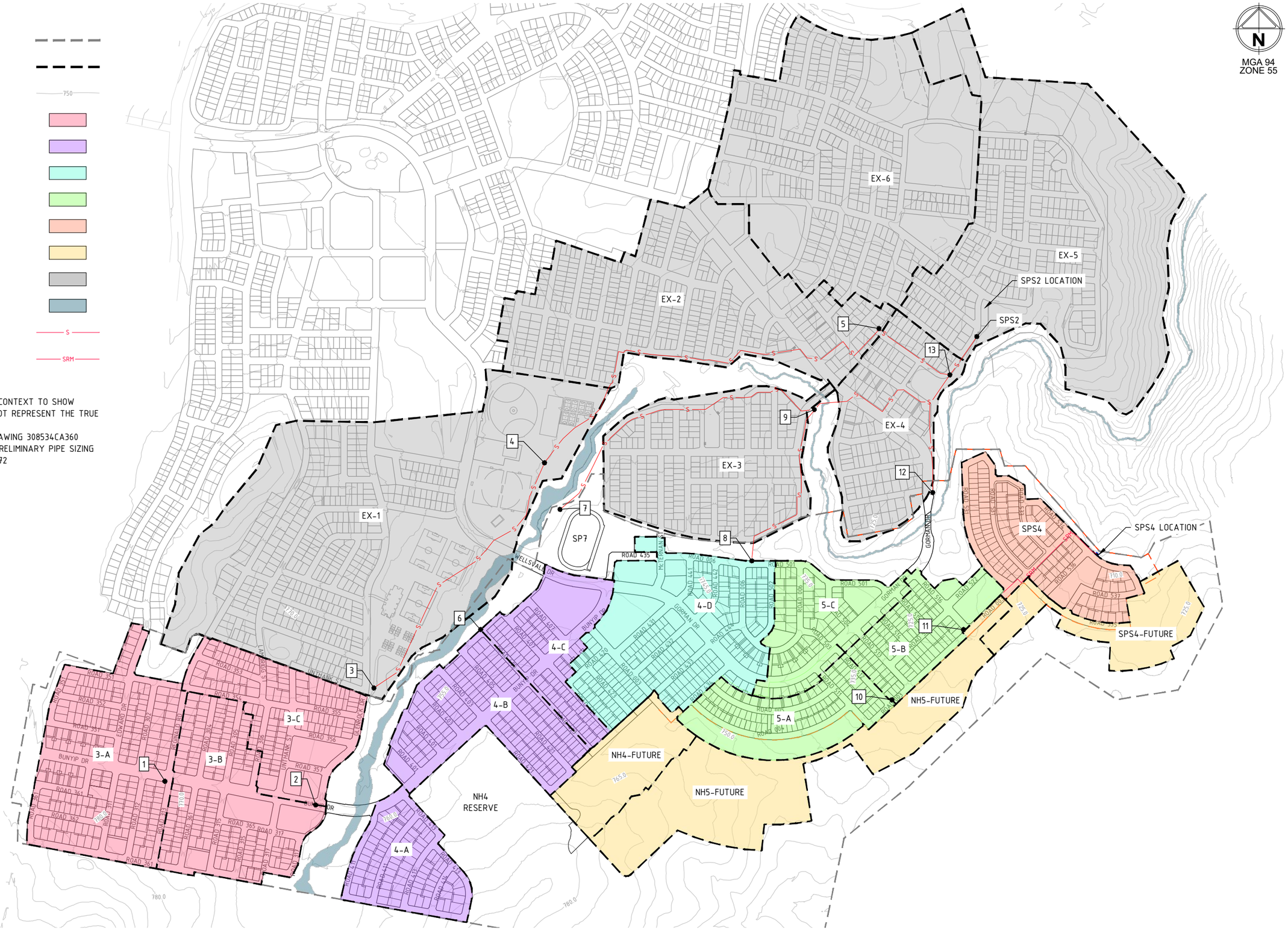
file name 308534CA340.dwg layout name CA3x1 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\CAD plot date 15/06/2022 2:08 PM Sheet 46 of 98 Sheets

LEGEND

- DA BOUNDARY
- CATCHMENT BOUNDARY
- EXISTING SURFACE CONTOURS – 5.0m INTERVAL (750)
- CATCHMENT NH3-A,B & C
- CATCHMENT NH4-A,B & C
- CATCHMENT NH4-D
- CATCHMENT NH5-A,B & C
- CATCHMENT SPS4
- FUTURE CATCHMENTS
- EXISTING CATCHMENTS
- RIPARIAN CHANNEL
- SEWER CARRIER MAIN (S)
- SEWER RISING MAIN (SRM)

NOTES

1. NETWORK CONNECTION PROVIDED FOR CONTEXT TO SHOW CATCHMENT CONNECTIONS, THEY DO NOT REPRESENT THE TRUE FLOW PATHS
2. FOR CATCHMENT DETAIL REFER TO DRAWING 308534CA360
3. FOR SEWER MASTERPLAN INCLUDING PRELIMINARY PIPE SIZING REFER TO DRAWING 308534CA370-CA372



NH345 CATCHMENT DETAILS

NODE	CATCHMENT	LOTS	MULTI UNITS	LOCAL COMMERCIAL AREA (ha)	NET SEWERABLE AREA (ha)	EP PER RESIDENTIAL LOT	EP PER MULTI UNIT LOT	TOTAL EP	ADWF (L/s)	d	PDWF (L/s)	Aeff (residential)	Aeff (commercial)	FACTORsize	I	RDI (L/s)	PWWF (L/s)
3-A	NH3-A	226	0	-	18.761	3.5	-	791.0	1.661	3.540	5.881	9.947	-	1.095	33.017	5.911	11.792
3-B	NH3-B	158	72	-	13.904	3.5	2.5	733.0	1.539	3.806	5.858	8.243	-	1.135	34.226	5.078	10.936
3-C	NH3-C	124	35	0.677	10.889	3.5	2.5	572.5	1.202	3.983	4.786	6.153	0.322	1.161	34.991	4.078	8.864
4-A	NH4-A	85	0	-	7.845	3.5	-	297.5	0.625	4.392	2.744	3.945	-	1.216	36.659	2.603	5.347
4-B	NH4-B	149	20	-	12.061	3.5	2.5	571.5	1.200	3.941	4.730	6.779	-	1.155	34.815	4.248	8.978
4-C	NH4-C	79	65	-	7.99	3.5	2.5	439.0	0.922	4.372	4.030	4.836	-	1.213	36.579	3.184	7.214
4-D	NH4-D	194	121	0.938	19.049	3.5	2.5	1052.0	2.209	3.488	7.704	11.164	0.446	1.087	32.768	6.848	14.552
5-A	NH5-A	152	0	-	9.103	3.5	-	532.0	1.117	4.199	4.691	5.682	-	1.190	35.888	3.751	8.442
5-B	NH5-B	109	0	0.262	7.96	3.5	2.5	401.5	0.842	4.376	3.686	4.499	0.124	1.214	36.595	2.964	6.650
5-C	NH5-C	95	0	-	8.407	3.5	2.5	332.5	0.698	4.315	3.013	4.317	-	1.206	36.356	2.825	5.838
SPS4	SPS4	121	0	-	10.791	3.5	-	423.5	0.889	4.052	3.604	5.520	-	1.170	35.283	3.506	7.109
NH4-FUTURE	NH4 FUTURE	95	0	-	6.792	3.5	-	332.5	0.700	4.557	3.182	3.880	-	1.237	37.299	2.605	5.787
NH5-FUTURE	NH5 FUTURE	193	0	-	17.831	3.5	-	675.5	1.420	3.584	5.083	8.961	-	1.102	33.220	5.358	10.442
SPS4-FUTURE	SPS4 FUTURE	66	0	-	6.795	3.5	-	231.0	0.490	4.526	2.196	3.277	-	1.233	37.180	2.193	4.389

EXISTING CATCHMENT DETAILS

NODE	CATCHMENT	LOTS	MULTI UNITS	TOTAL EP	ADWF (L/s)	PDWF (L/s)	RDI (L/s)	PWWF (L/s)
EX-1	EX-1	304	0	991	2.080	9.670	13.400	23.060
EX-2	EX-2	329	94	1244	2.620	11.460	15.010	26.470
EX-3	EX-3	237	0	711	1.490	5.210	8.170	13.380
EX-4	EX-4	132	0	396	0.830	3.160	5.340	8.490
EX-5	EX-5	218	0	654	1.370	4.010	10.600	14.610
EX-6	EX-6	299	75	1173	2.460	8.460	17.820	26.280

NOTE: EXISTING CATCHMENT DETAILS DETERMINED BY PREVIOUS GOOGONG NH1 + NH2 DEVELOPMENT APPLICATION DATA + ASSUMPTIONS

GLOSSARY OF TERMS

A	-	GROSS PLAN AREA OF DEVELOPMENT'S CATCHMENT (ha)
ADWF	-	AVERAGE DRY WEATHER FLOW (L/s)
A_p	-	AREA OF PIPE
C	-	IIF LEAKAGE SEVERITY COEFFICIENT = 0.6 BASED ON SOIL AND NETWORK ASPECT CONTRIBUTOR TO LEAKAGE.
$A_{EFF-COMMERCIAL}$	-	EFFECTIVE COMMERCIAL AREA CAPABLE OF CONTRIBUTING RAINFALL DEPENDENT INFILTRATION (ha)
$A_{EFF-RESIDENTIAL}$	-	EFFECTIVE RESIDENTIAL AREA CAPABLE OF CONTRIBUTING RAINFALL DEPENDENT INFILTRATION (ha)
EP	-	EQUIVALENT POPULATION
$FACTOR_{SIZE}$	-	ACCOUNTS FOR THE FACT THAT FLOW CONCENTRATION TIMES ARE FASTER FOR SMALL CATCHMENTS
$FACTOR_{CONTAINMENT}$	-	REFLECTS LOCAL ENVIRONMENT ASPECTS & REGULATIONS ON WET WEATHER SEWAGE CONTAINMENT (OVERFLOW FREQUENCY) = 1.5 WHICH REPRESENTS 1 IN 10 YEARS ARI OF SEWAGE OVERFLOW.
GWI	-	GROUND WATER INFILTRATION (L/s)
I	-	FUNCTION OF RAINFALL INTENSITY AT THE DEVELOPMENT'S GEOGRAPHIC LOCATION (SEE NOTE 3)
RDI	-	PEAK (RAINFALL DEPENDENT) INFLOW & INFILTRATION (L/s)
L/EP/DAY	-	RESIDENTIAL LOADING RATE = 180 = L/EP/S = 0.0021 WHICH IS DAILY AVERAGE OF SANITARY FLOW
n	-	MANNING FRICTION COEFIICIENT = 0.0128 FROM TABLE 4.5 OF WSA02-2002-2.3 ASSUMING PVC PIPE
P	-	PERIMETER OF PIPE
PDWF	-	PEAK DRY WEATHER FLOW (L/s)
PORTION WET	-	THE PORTION OF THE PLANNED PIPE NETWORK ESTIMATED TO HAVE GROUNDWATER TABLE LEVELS IN EXCESS OF PIPE INVERTS (%) (SEE NOTE 2)
R	-	HYDRAULIC RADIUS
S	-	PIPE GRADE
Q	-	PIPE CAPACITY (L/s)

NOTES

1. THE SEWER CATCHMENT CALCULATIONS ARE BASED ON THE WSA02-2002-2.3 GUIDELINE.
2. $PORTION_{WET}$ = 0% BASED ON GOOGONG GEOTECHNICAL/GROUNDWATER LEVEL INFORMATION OBTAINED ON SITE. GEOTECHNICAL INVESTIGATION INDICATES THAT THE DEPTH OF THE GROUNDWATER TABLE IS VERY DEEP IN GOOGONG.
3. $I_{2,10}$ = 2HOUR RAINFALL INTENSITY OF 10 YEARS ARI. $I_{2,10}$= 20.1mm/hr WHICH IS APPROXIMATE VALUES OF INTENSITY FOR GOOGONG UTILISING BUREAU OF METEOROLOGY IFD DESIGN RAINFALL INTENSITY.
4. ASSUME LOCAL CENTRES ARE STANDARD LOCAL COMMERCIAL AREA WITH 75 EP/ha WITH IMPERVIOUS AREA OF 70%

PEAK WET WEATHER FLOW (PWWF) BASED ON THE FOLLOWING FORMULAE

1. $d = 0.01(\log A)^4 - 0.19(\log A)^3 + 1.4(\log A)^2 - 4.66\log A + 7.57$
   $ADWF = L/EP/DAY * EP$
   $PDWF = d * ADWF$
2. $GWI = 0.025 * A * PORTION_{WET}$
3. $A_{EFF-RESIDENTIAL} = A * (DENSITY / 150)^{0.5}$ IF DENSITY < 150EP/Ha
   $A_{EFF-COMMERCIAL} = A * (1-0.75 * PORTION_{IMPERVIOUS})$
   $A_{EFF} = A_{EFF-RESIDENTIAL} + A_{EFF-COMMERCIAL}$
   $I = I_{2,10} * FACTOR_{SIZE} * FACTOR_{CONTAINMENT}$
   $FACTOR_{SIZE} = (40/A)^{0.12}$
   $RDI = 0.03 * A_{EFF} * C * I$
4. $PWWF = PDWF + GWI + RDI$

PROPOSED SEWER CAPACITY BASED ON THE FOLLOWING FORMULAE

1. $Q = V * A_p = (1 / n) * A_p * R^{2/3} * S^{1/2}$
   $R = A / P$

Rev	Amendments	Approved	Date
C	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
B	SEWER CALCULATIONS REVISED	CC	14/09/21
A	ISSUED FOR APPROVAL	MB	09/09/21

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GOOGONG

Designed M.PHILLIPS | Checked S.BEFF
Authorised M.BOMBEN | Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
SEWER CATCHMENT DETAILS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA360 Rev C

file name 308534CA360.dwg layout name CA360 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:08 PM Sheet 48 of 98 Sheets

CHECK TABLE

CHECK	CONTRIBUTING CATCHMENTS	INITIAL EP	CONTRIBUTING EP	TOTAL EP	INITIAL PDWF (L/s)	CONTRIBUTING PDWF (L/s)	TOTAL PDWF (L/s)	INITIAL PWWF (L/s)	CONTRIBUTING PWWF (L/s)	TOTAL PWWF (L/s)	MIN SIZE AND GRADE	PROPOSED SIZE AND GRADE	PROPOSED SEWER CAPACITY (L/s)
1	NH3-A	0	791	791	0	5.881	5.881	0	11.792	11.792	150mm DIA, min 0.6% grade	150mm DIA, min 1% grade	15.467
2	1 + NH3-B	791	733	1524	5.881	5.858	11.739	11.792	10.936	22.729	225mm DIA, min 0.3% grade	225mm DIA, min 1% grade	45.603
3	2 + NH3-C	1524	572.5	2096.5	11.739	4.786	16.525	22.729	8.864	31.592	225mm DIA, min 0.6% grade	225mm DIA, min 1% grade	45.603
4	3 + EX-1	2096.5	991	3087.5	16.525	9.670	26.195	31.592	23.060	54.652	300mm DIA, min 1% grade	300mm DIA, min 1% grade	98.212
5	4 + EX-2	3087.5	1244	4331.5	26.195	11.460	37.655	54.652	26.470	81.122	300mm DIA, min 0.9% grade	300mm DIA, min 0.9% grade	93.172
6	NH4-A, NH4-B	0	869	869	0	6.523	6.523	0	12.625	12.625	150mm DIA, min 0.7% grade	150mm DIA, min 1% grade	15.467
7	6 + NH4-C	869	439	1308	6.523	4.030	10.554	12.625	7.214	19.839	225mm DIA, min 0.3% grade	225mm DIA, min 1% grade	45.603
8	NH4-D, NH4-FUTURE	0	1384.5	1384.5	0	9.730	9.730	0	18.167	18.167	150mm DIA, min 1.4% grade	150mm DIA, min 1.4% grade	18.301
9	7 + 8 + EX-3	2692.5	711	3403.5	20.284	5.210	25.494	38.006	13.380	51.386	300mm DIA, min 1% grade	300mm DIA, min 1% grade	98.212
10	NH5-A, NH5-FUTURE	0	1207.5	1207.5	0	8.185	8.185	0	16.682	16.682	225mm DIA, min 0.3% grade	225mm DIA, min 1% grade	45.603
11	10 + SPS4, SPS4-FUTURE	1207.5	654.5	1862	8.185	5.303	13.487	16.682	10.001	26.683	225mm DIA, min 0.4% grade	225mm DIA, min 1% grade	45.603
12	11 + NH5-B, NH5-C	1862	784	2646	13.487	6.072	19.559	26.683	11.544	38.227	225mm DIA, min 0.8% grade	225mm DIA, min 0.8% grade	40.789
13	5 + 9 + 12 + EX-4	10381	396	10777	82.708	3.160	85.868	170.735	8.490	179.225	450mm DIA, min 1.57% grade	450mm DIA, min 1.57% grade	362.819

	LOTS	MULTI UNITS	LOCAL COMMERCIAL AREA (ha)	NET SEWERABLE AREA (ha)	EP PER RESIDENTIAL LOT	EP PER MULTI UNIT LOT	TOTAL EP	ADWF (L/s)	d	PDWF (L/s)	Aeff (residential)	Aeff (commercial)	FACTORsize	I	RDI (L/s)	PWWF (L/s)
TOTAL EX	1519	169	0	180.100	3	2	5021	10.280	2.260	23.234	76.663	0	0.835	28.801	49.458	72.692
TOTAL NH345	1846	313	1.877	158.178	3.5	2.5	7385.0	15.507	2.302	35.691	87.398	0.892	0.847	25.528	40.570	76.261
TOTAL SPS2	3365	481	1.877	338.278	-	-	12406	26.053	2.078	54.135	163.938	0.892	0.775	23.372	69.342	123.477

GLOSSARY OF TERMS

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ADWF	-	AVERAGE DRY WEATHER FLOW (L/s)
A_p	-	AREA OF PIPE
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RDI	-	PEAK (RAINFALL DEPENDENT) INFLOW & INFILTRATION (L/s)
L/EP/DAY	-	RESIDENTIAL LOADING RATE = 180 = L/EP/S = 0.0021 WHICH IS DAILY AVERAGE OF SANITARY FLOW
n	-	MANNING FRICTION COEFIICIENT = 0.0128 FROM TABLE 4.5 OF WSA02-2002-2.3 ASSUMING PVC PIPE
P	-	PERIMETER OF PIPE
PDWF	-	PEAK DRY WEATHER FLOW (L/s)
PORTION WET	-	THE PORTION OF THE PLANNED PIPE NETWORK ESTIMATED TO HAVE GROUNDWATER TABLE LEVELS IN EXCESS OF PIPE INVERTS (%) (SEE NOTE 2)
R	-	HYDRAULIC RADIUS
S	-	PIPE GRADE
Q	-	PIPE CAPACITY (L/s)

NOTES

1. THE SEWER CATCHMENT CALCULATIONS ARE BASED ON THE WSA02-2002-2.3 GUIDELINE.
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3. $I_{2,10}$ = 2HOUR RAINFALL INTENSITY OF 10 YEARS ARI. $I_{2,10}$= 20.1mm/hr WHICH IS APPROXIMATE VALUES OF INTENSITY FOR GOOGONG UTILISING BUREAU OF METEOROLOGY IFD DESIGN RAINFALL INTENSITY.
4. ASSUME LOCAL CENTRES ARE STANDARD LOCAL COMMERCIAL AREA WITH 75 EP/ha WITH IMPERVIOUS AREA OF 70%

PEAK WET WEATHER FLOW (PWWF) BASED ON THE FOLLOWING FORMULAE

1. $d = 0.01(\log A)^4 - 0.19(\log A)^3 + 1.4(\log A)^2 - 4.66\log A + 7.57$
   $ADWF = L/EP/DAY * EP$
   $PDWF = d * ADWF$
2. $GWI = 0.025 * A * PORTION_{WET}$
3. $A_{EFF-RESIDENTIAL} = A * (DENSITY / 150)^{0.5}$ IF DENSITY < 150EP/Ha
   $A_{EFF-COMMERCIAL} = A * (1-0.75 * PORTION_{IMPERVIOUS})$
   $A_{EFF} = A_{EFF-RESIDENTIAL} + A_{EFF-COMMERCIAL}$
   $I = I_{2,10} * FACTOR_{SIZE} * FACTOR_{CONTAINMENT}$
   $FACTOR_{SIZE} = (40/A)^{0.12}$
   $RDI = 0.03 * A_{EFF} * C * I$
4. $PWWF = PDWF + GWI + RDI$

PROPOSED SEWER CAPACITY BASED ON THE FOLLOWING FORMULAE

1. $Q = V * A_p = (1 / n) * A_p * R^{2/3} * S^{1/2}$
   $R = A / P$

Rev	Amendments	Approved	Date
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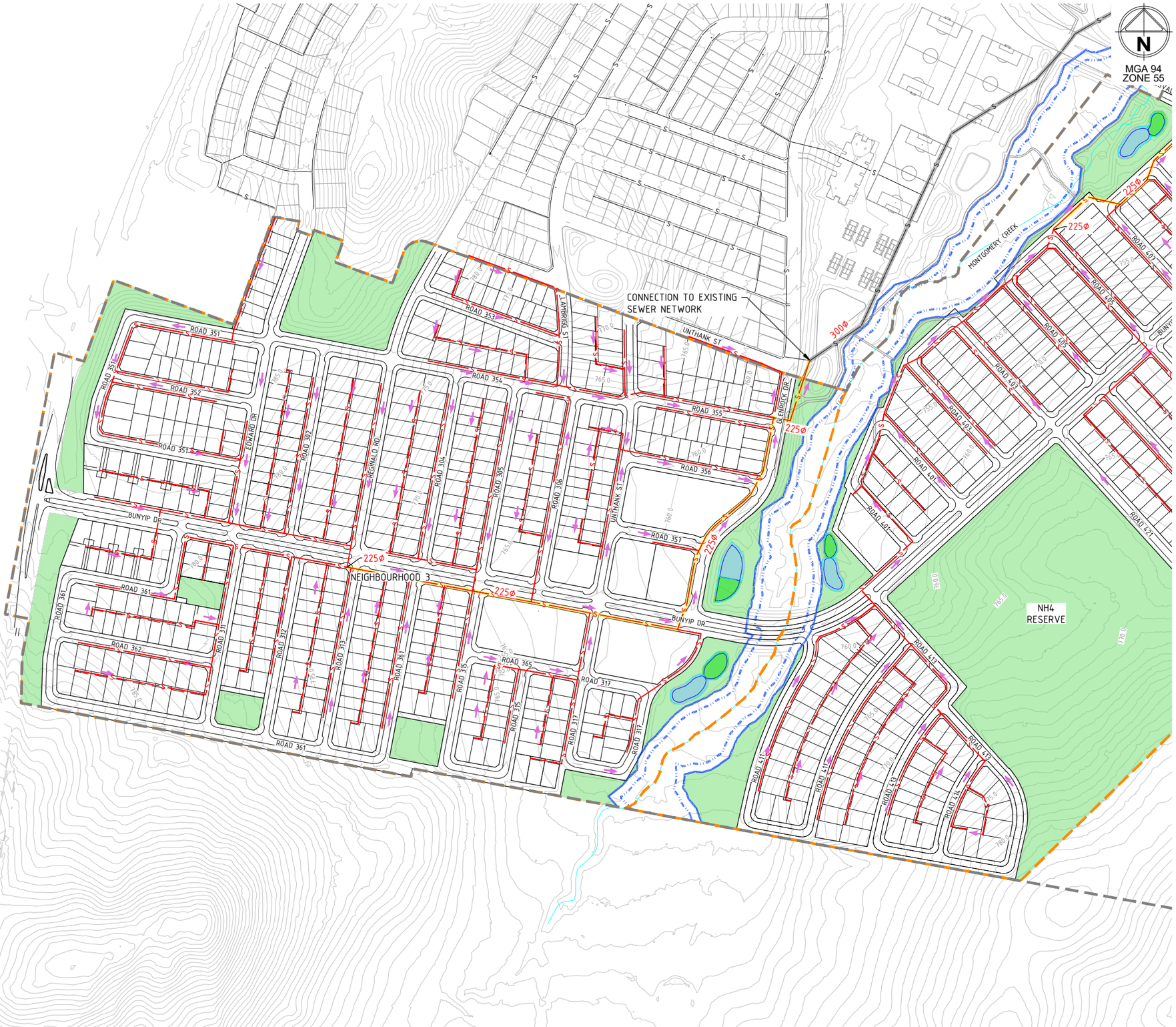
GOOGONG

Designed M.PHILLIPS | Checked S.BEFF
Authorised M.BOMBEN | Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
SEWER CATCHMENT DETAILS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA361** Rev **C**

file name 308534CA360.dwg layout name CA361 plotted by Jordan Brereton
file location \\spiire\canberra\Data\308534\Civil\ACAD plot date 15/06/2022 2:08 PM Sheet 49 of 98 Sheets

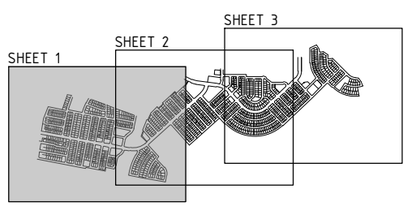


LEGEND

- DA BOUNDARY
- NEIGHBORHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- SEWER
- SEWER CARRIER MAIN
- SEWER RISING MAIN
- EXISTING SEWER
- EXISTING SEWER CARRIER MAIN
- FLOW DIRECTION
- BIO RETENTION BASIN
- SEDIMENT BASIN
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- OPEN SPACE
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. GRAVITY SEWER PIPE SIZE IS 150ø UNLESS SPECIFIED OTHERWISE
2. GRAVITY SEWER PIPE MATERIAL TO BE PVC-U MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260 WITH ELASTOMERIC SEAL SPIGOT AND SOCKET JOINTS
3. SEWER RISING MAIN MATERIAL TO BE HDPE
4. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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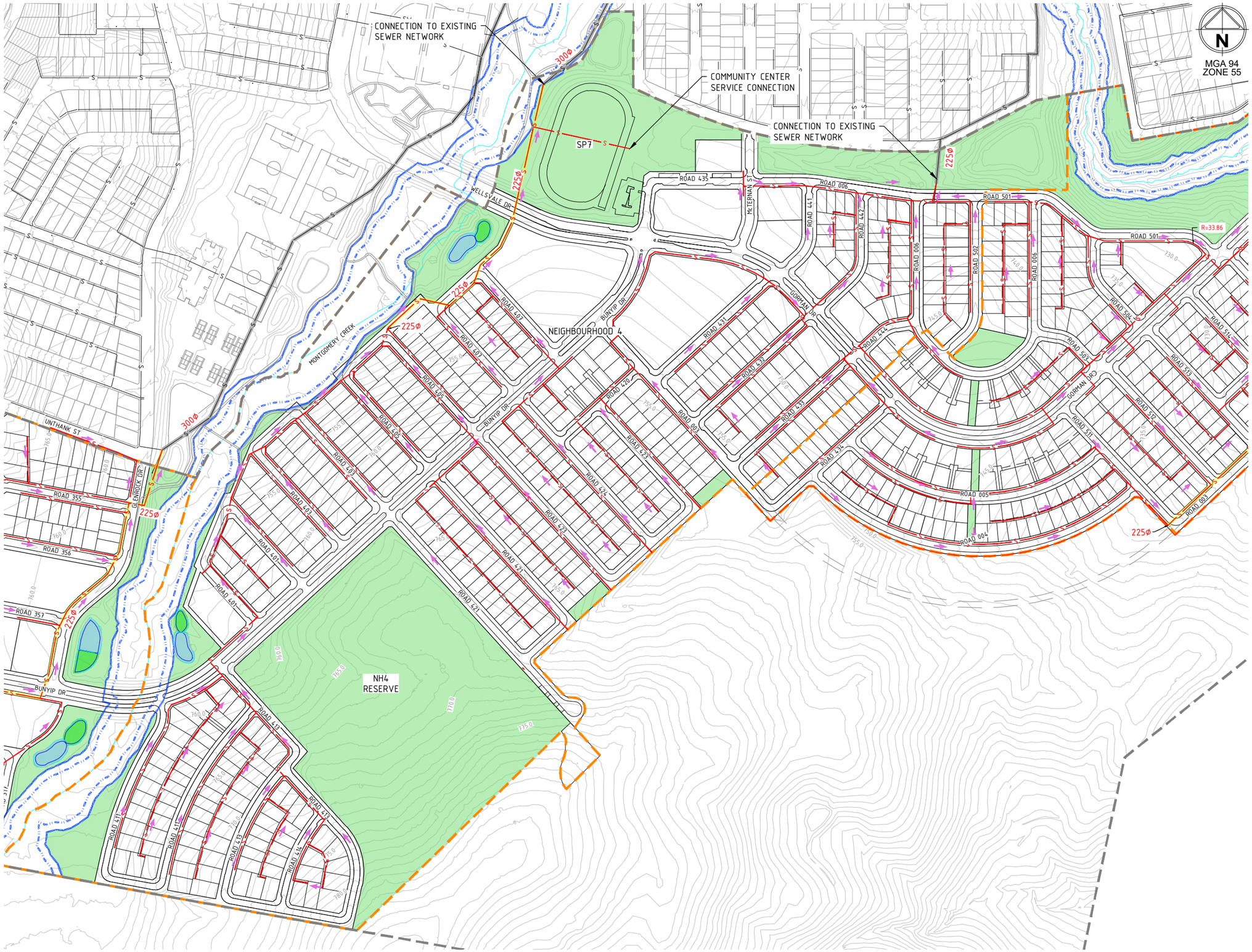
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SEWER CONCEPT MASTER PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA370 Rev B

file name 308534CA370.dwg layout name CA370 plotted by Jordan Brereton
file location G:\308534\civil\ACAD plot date 15/06/2022 2:09 PM Sheet 50 of 98 Sheets

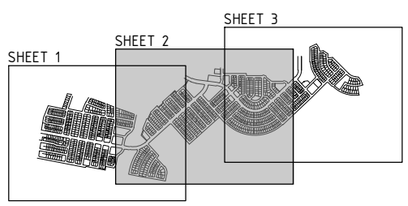


LEGEND

- DA BOUNDARY
- NEIGHBORHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- SEWER
- SEWER CARRIER MAIN
- SEWER RISING MAIN
- EXISTING SEWER
- EXISTING SEWER CARRIER MAIN
- FLOW DIRECTION
- BIO RETENTION BASIN
- SEDIMENT BASIN
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- OPEN SPACE
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. GRAVITY SEWER PIPE SIZE IS 150Ø UNLESS SPECIFIED OTHERWISE
2. GRAVITY SEWER PIPE MATERIAL TO BE PVC-U MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260 WITH ELASTOMERIC SEAL SPIGOT AND SOCKET JOINTS
3. SEWER RISING MAIN MATERIAL TO BE HDPE
4. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale

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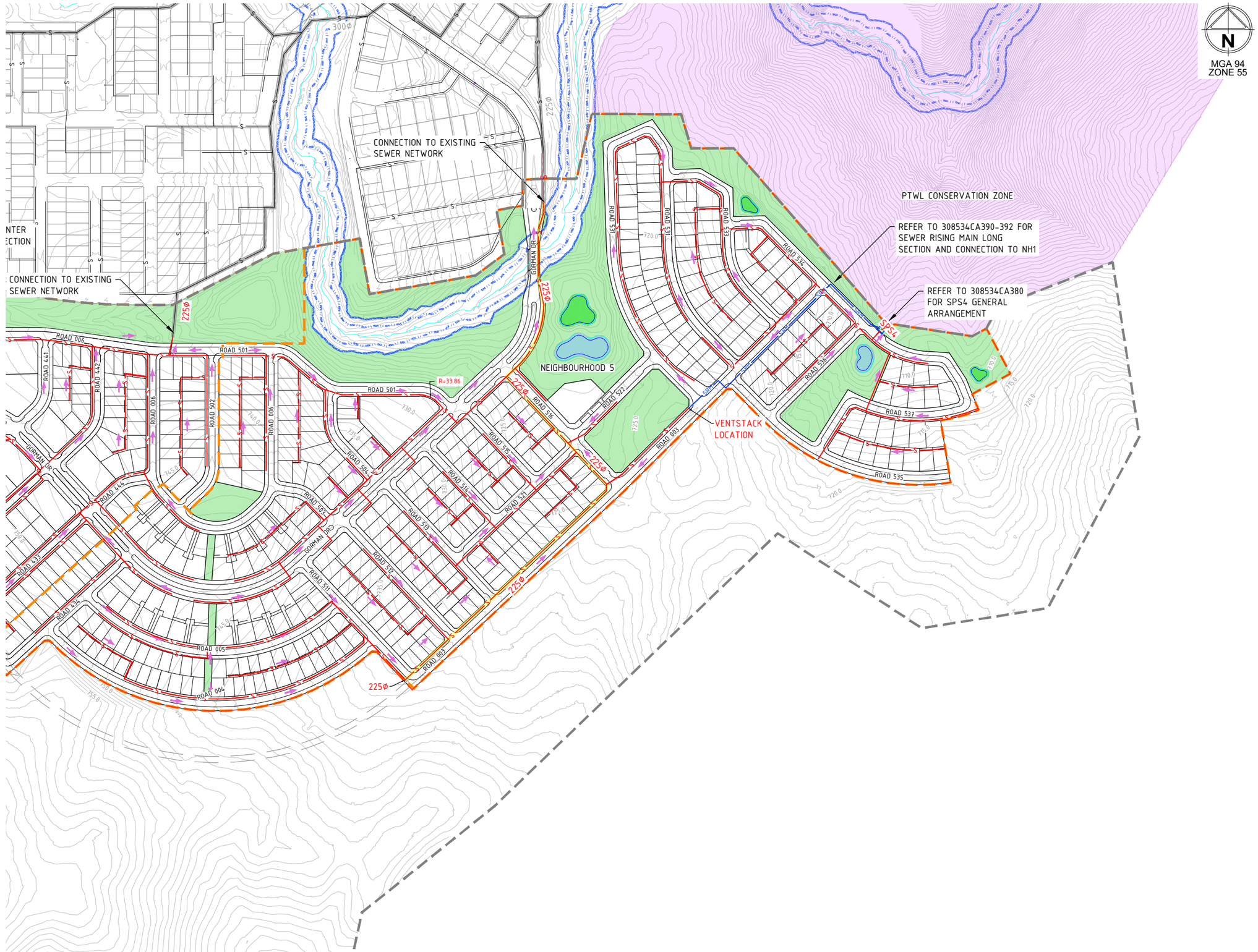
Designed M.PHILLIPS
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SEWER CONCEPT MASTER PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA371 Rev B

file name 308534CA370.dwg layout name CA371 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:09 PM Sheet 51 of 98 Sheets



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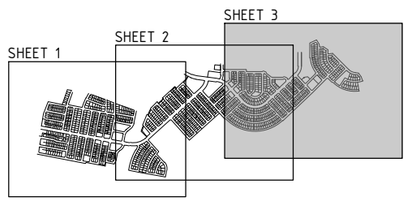
MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- NEIGHBORHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- SEWER
- SEWER CARRIER MAIN
- SEWER RISING MAIN
- EXISTING SEWER
- EXISTING SEWER CARRIER MAIN
- FLOW DIRECTION
- BIO RETENTION BASIN
- SEDIMENT BASIN
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- OPEN SPACE
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. GRAVITY SEWER PIPE SIZE IS 150ø UNLESS SPECIFIED OTHERWISE
2. GRAVITY SEWER PIPE MATERIAL TO BE PVC-U MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260 WITH ELASTOMERIC SEAL SPIGOT AND SOCKET JOINTS
3. SEWER RISING MAIN MATERIAL TO BE HDPE
4. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

1:2500@A1 SCALE 1:5000@A3 — 0 25 50 75 100 125

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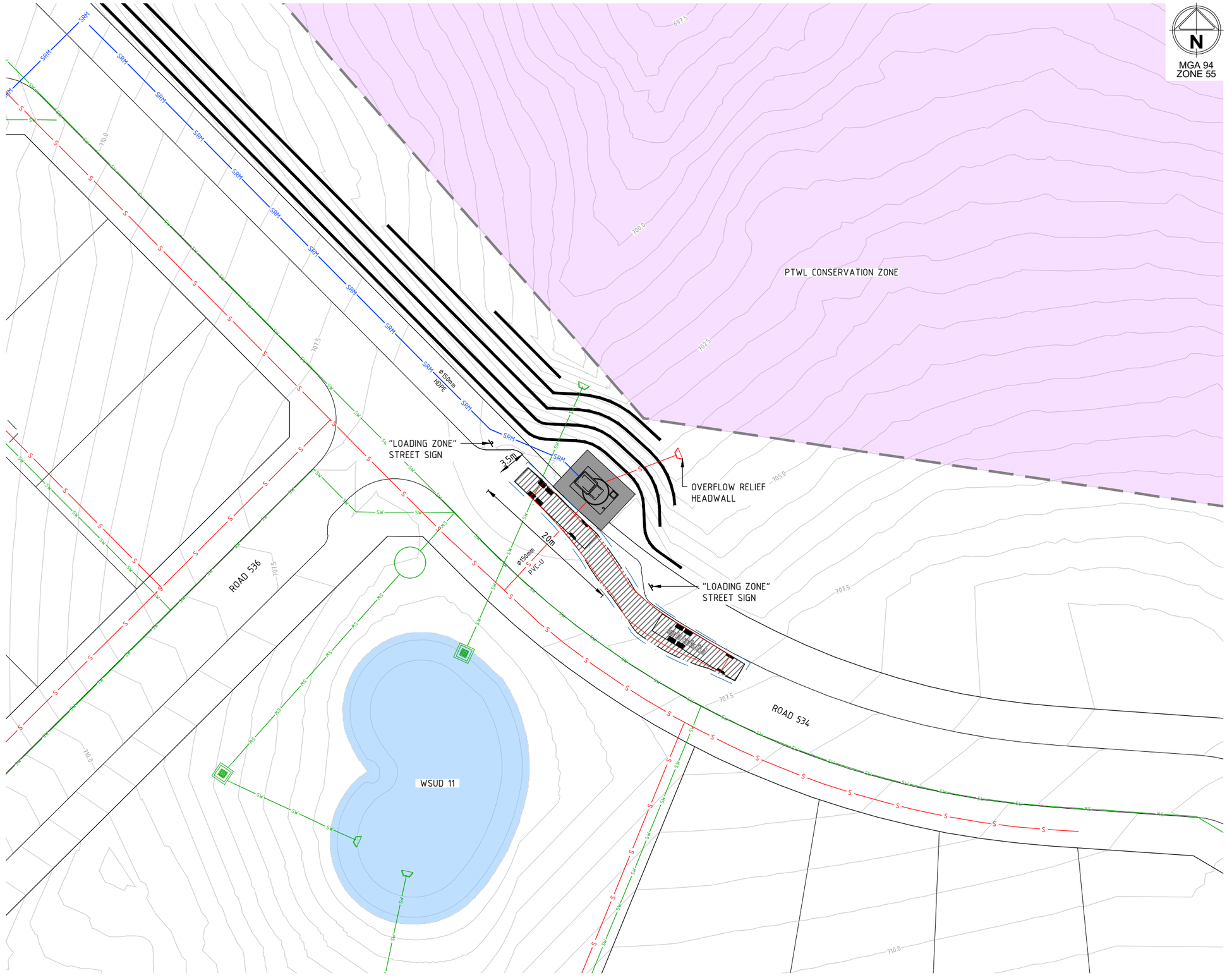
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SEWER CONCEPT MASTER PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA372** Rev **B**

file name 308534CA370.dwg layout name CA372 plotted by Jordan Brereton
file location G:\301\308534\Civil\ACAD plot date 15/06/2022 2:09 PM Sheet 52 of 98 Sheets



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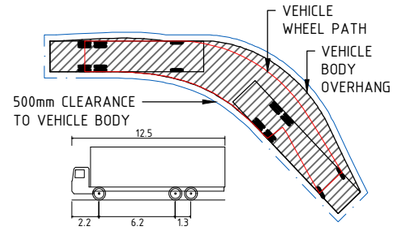
MGA 94 ZONE 55

LEGEND

- DA BOUNDARY
- FINISHED SURFACE CONTOURS – 0.5m MINOR INTERVALS (750.0)
- RETAINING WALLS OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- SEWER RISING MAIN (SRM)
- GRAVITY SEWER (S)
- STORMWATER (SW)
- SEDIMENT BASIN
- PINK TAIL WORM LIZARD CONSERVATION ZONE

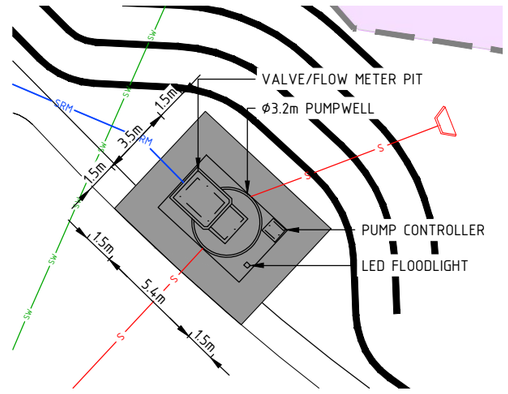
NOTES

1. GRAVITY SEWER PIPE MATERIAL TO BE PVC-U MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260 WITH ELASTOMERIC SEAL SPIGOT AND SOCKET JOINTS
2. SEWER RISING MAIN MATERIAL TO BE HDPE UNLESS SPECIFIED OTHERWISE
3. SEWER RISING MAIN IS 150ø UNLESS SPECIFIED OTHERWISE.
4. STORMWATER AND SEWER STRUCTURES ARE DIAGRAMMATIC ONLY
5. FINAL LOCATION OF SEWER PUMP STATION TO BE CONFIRMED AT DETAILED DESIGN
6. SEWER PUMP STATION SIZING & ARRANGEMENT TO BE CONFIRMED AT DETAILED DESIGN
7. WET WELL TO STORE FLOW AND MANAGE CAPACITY OF ø225 AT 0.9% AT NH1 CONNECTION



SINGLE UNIT TRUCK/BUS (12.5m)

OVERALL LENGTH	12.5m
OVERALL WIDTH	2.5m
OVERALL BODY HEIGHT	4.3m
MIN BODY GROUND CLEARANCE	0.49m
TRACK WIDTH	2.5m
LOCK-TO-LOCK TIME	6.0s
KERB TO KERB TURNING RADIUS	12.5m



INSET - SEWER PUMPS STATION DETAILS

SCALE @A1 1:150

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

1:150@A1 SCALE 1:300@A3: 0 1.5 3 4.5 6 7.5

1:250@A1 SCALE 1:500@A3: 0 2.5 5 7.5 10 12.5

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Authorised M.BOMBEN | Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SEWER PUMP STATION GENERAL ARRANGEMENT

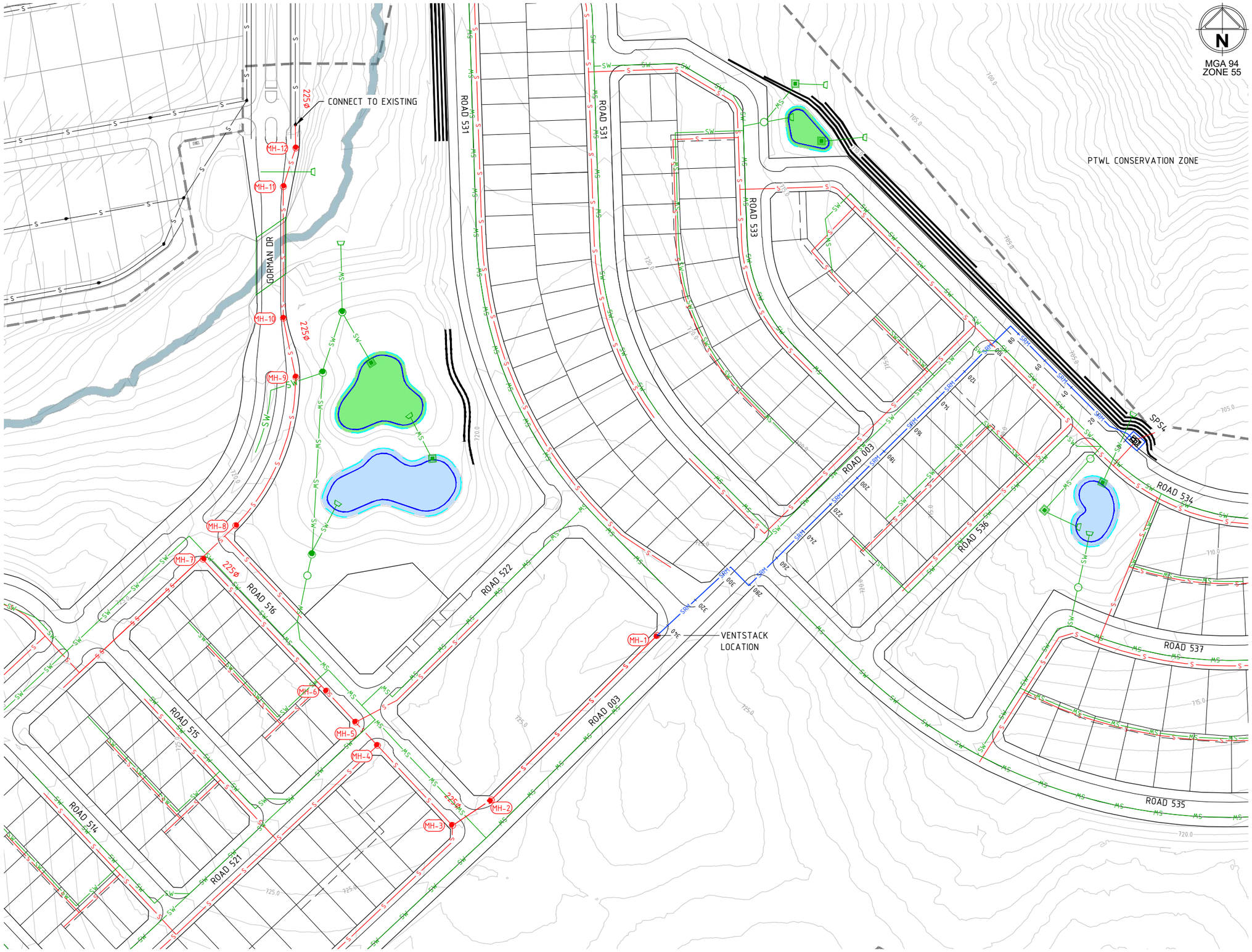
SPS 04

QPRC

GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA380 Rev B

file name 308534CA380.dwg layout name CA380 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:09 PM Sheet 53 of 98 Sheets

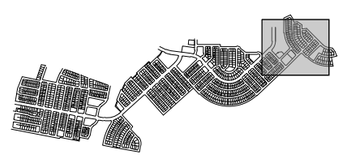


LEGEND

- DA BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVAL
- SEWER
- SEWER RISING MAIN
- EXISTING SEWER
- RETAINING WALLS OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- BIORETENTION BASIN
- SEDIMENT BASIN
- RIPARIAN CHANNEL

NOTES

1. GRAVITY SEWER PIPE SIZE IS 150ø UNLESS SPECIFIED OTHERWISE
2. GRAVITY SEWER PIPE MATERIAL TO BE PVC-U MANUFACTURED IN ACCORDANCE WITH AS/NZS 1260 WITH ELASTOMERIC SEAL SPIGOT AND SOCKET JOINTS.
3. SEWER RISING MAIN MATERIAL TO BE HDPE



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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SCALE
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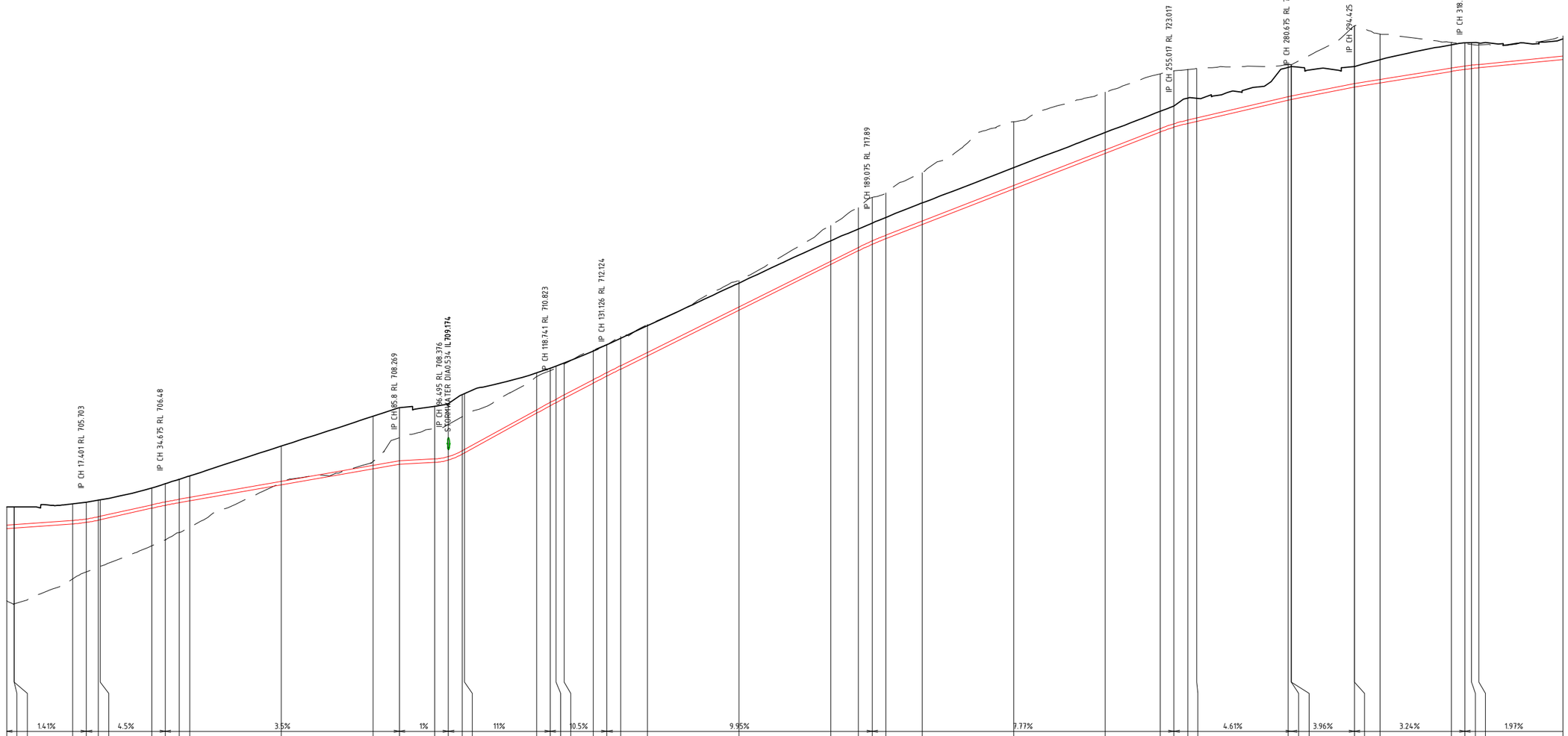
Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

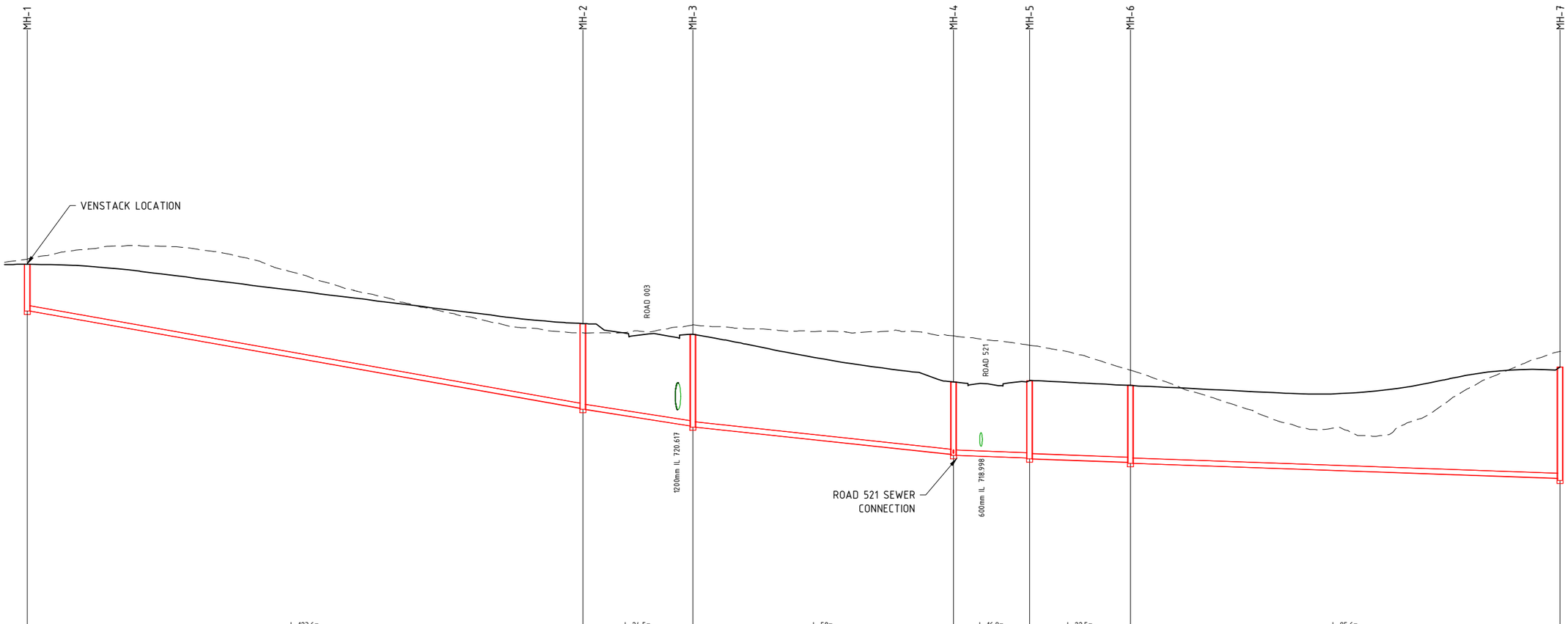
SEWER RISING MAIN PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA385 Rev B

file name 308534CA385.dwg Layout name CA385 plotted by Jordan Bereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:09 PM Sheet 54 of 98 Sheets


IP CH 17.401 RL 705.703
IP CH 34.675 RL 706.48
IP CH 85.8 RL 708.269
IP CH 96.495 RL 708.376
STORMWATER DIA0.534 IL709.174
IP CH 118.741 RL 710.823
IP CH 131.126 RL 712.124
IP CH 189.075 RL 717.89
IP CH 255.017 RL 723.017
IP CH 280.675 RL 724.2
IP CH 294.425 RL 724.745
IP CH 318.587 RL 725.527

| | | |



PIPE LENGTH		L=123.6m		L=24.5m	L=58m	L=16.9m	L=22.5m	L=95.6m
PIPE GRADE		3.5%		3.0%	2.1%	0.7%	0.7%	0.7%
PIPE DIA. / TYPE		225ØPVC		225ØPVC	225ØPVC	225ØPVC	225ØPVC	225ØPVC
DATUM RL (m)	708.00							
DEPTH TO INVERT	2.077	3.763	3.813	4.081	4.131	3.223	3.263	3.440	3.480	3.420	3.460	4.945
INVERT LEVEL	725.012	720.685	720.635	719.900	719.850	718.633	718.593	718.475	718.435	718.277	718.237	717.568
FINISHED SURFACE	727.089	724.448		723.981		721.856		721.914		721.697		722.513
EXISTING SURFACE	727.319	724.036		724.398		723.899		723.488		722.376		723.206
CHAINAGE	0.000	123.637		148.135		206.140		223.039		245.515		341.138

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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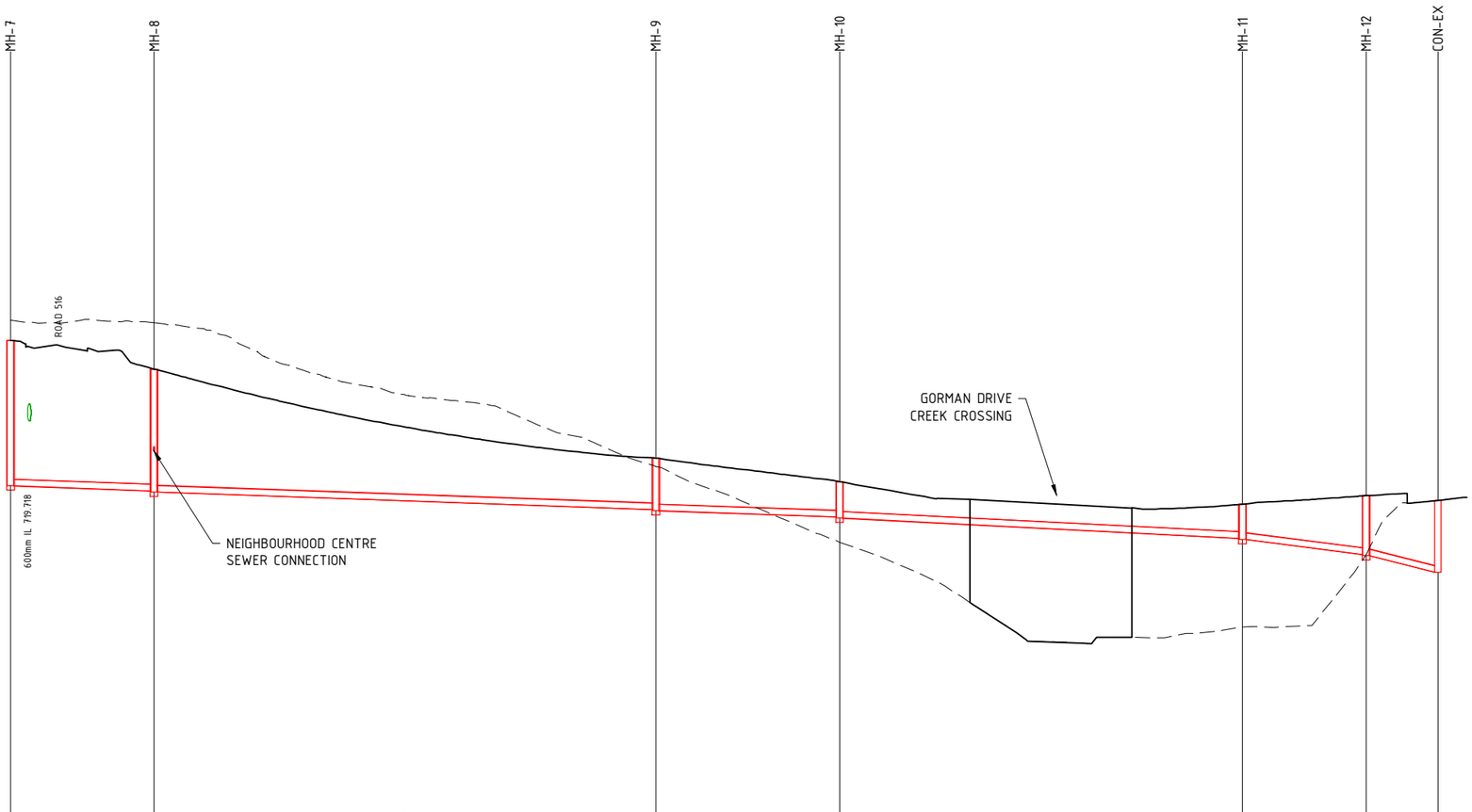
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

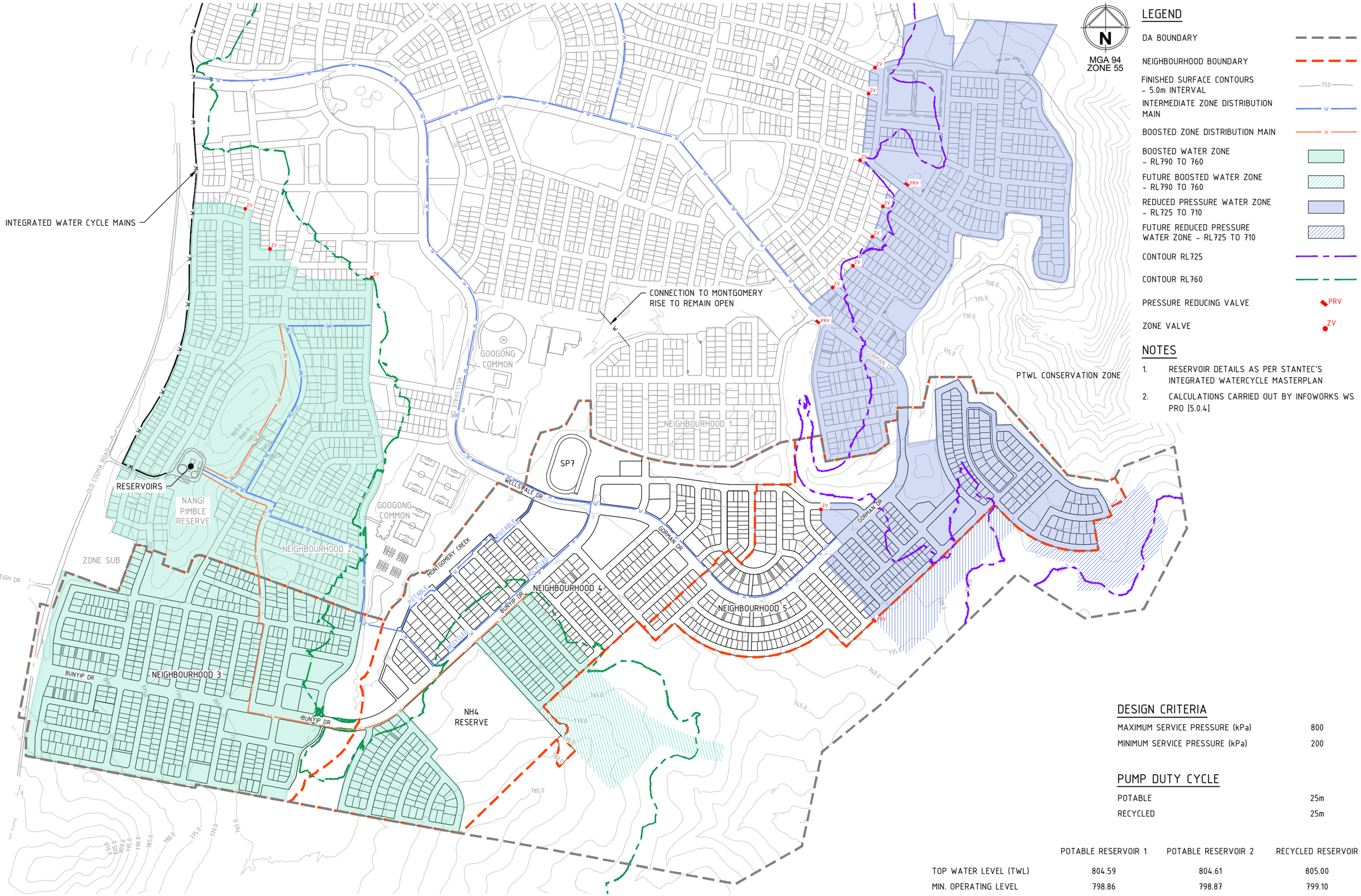
SEWER MAIN LONG SECTIONS
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA391** Rev **B**

file name 308534CA390.dwg layout name CA391 plotted by Jordan Brereton
file location \\spiire\canadata\data\301\308534\Civil\ACAD plot date 15/06/2022 2:10 PM Sheet 56 of 98 Sheets


MH-7
MH-8
MH-9
MH-10
MH-11
MH-12
CON-EX
ROAD 516
600mm IL 719.718
NEIGHBOURHOOD CENTRE
SEWER CONNECTION
GORMAN DRIVE
CREEK CROSSING

| | | |



DESIGN CRITERIA

MAXIMUM SERVICE PRESSURE (kPa)	800
MINIMUM SERVICE PRESSURE (kPa)	200

PUMP DUTY CYCLE

POTABLE	25m
RECYCLED	25m

	POTABLE RESERVOIR 1	POTABLE RESERVOIR 2	RECYCLED RESERVOIR
TOP WATER LEVEL (TWL)	804.59	804.61	805.00
MIN. OPERATING LEVEL	798.86	798.87	799.10

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
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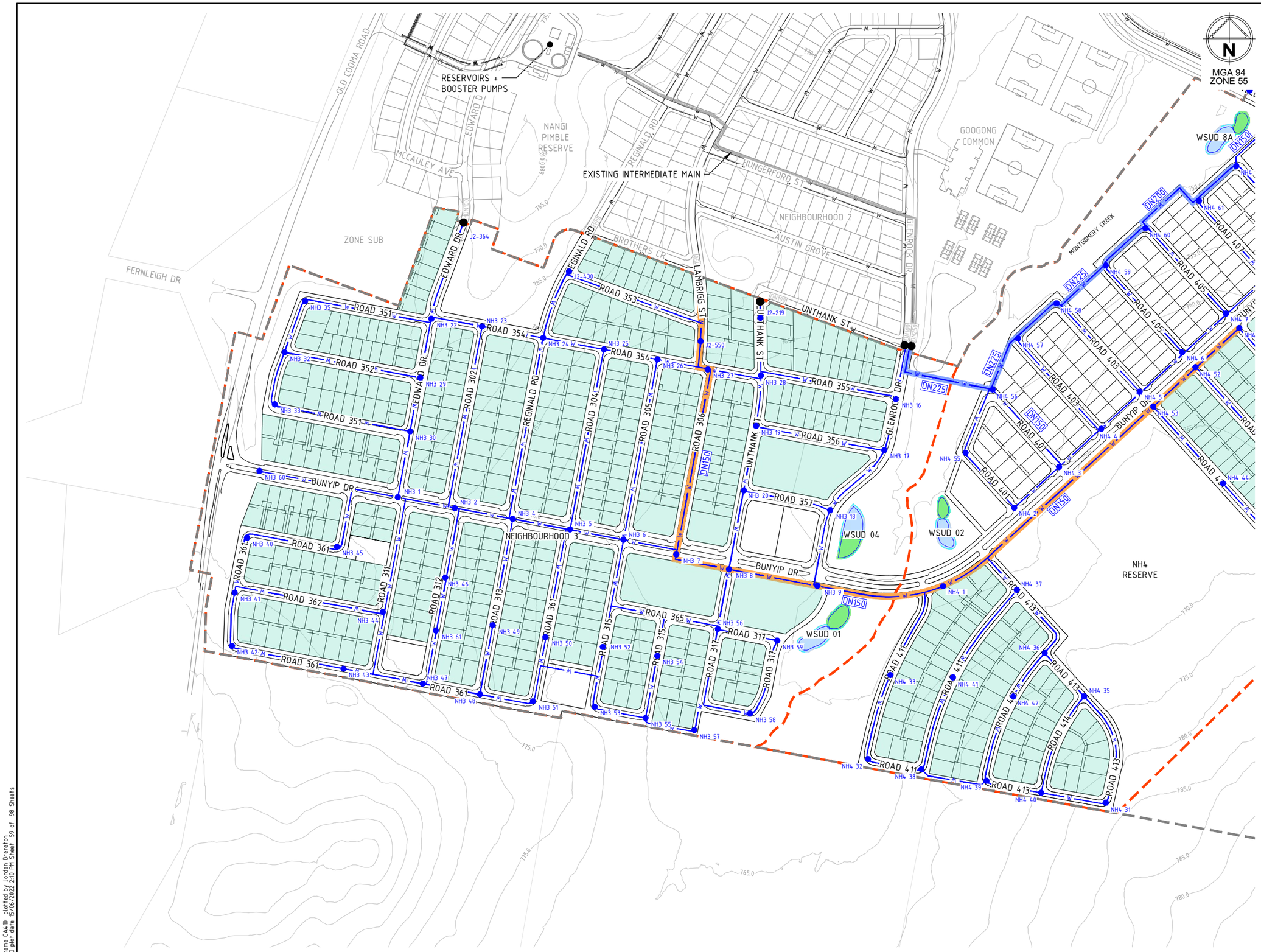
Designed	M.PHILLIPS
Checked	S.BEFF
Authorised	M.BOMBEN
Date	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT MASTER PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA400 Rev B

file name 308534CA400.dwg layout name CA400 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:10 PM Sheet 58 of 98 Sheets

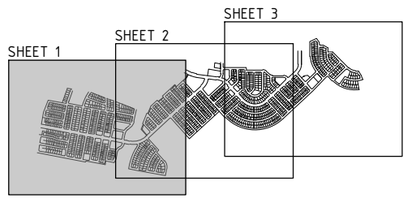


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- WATER
- EXISTING WATER
- BIORETENTION BASIN
- SEDIMENT BASIN
- LOTS WITHIN BOOSTED WATER ZONE: (RL790 – 760)
- LOTS WITHIN REDUCED PRESSURE WATER ZONE: (RL725 – 710)
- BOOSTED ZONE MAIN
- INTERMEDIATE ZONE MAIN
- PRESSURE REDUCING VALVE
- ZONE VALVE
- NON RETURN VALVE
- CONNECTION TO EXISTING
- NODE

NOTES

1. ALIGNMENT SHOWN DIAGRAMMATICALLY IN ROAD RESERVE. REFER TO DRAWINGS CA120-124 FOR WATERMAIN LOCATION WITHIN TYPICAL CROSS-SECTION
2. PIPE MATERIAL TO BE SERIES 2 PVC-M, PN16
3. PIPE SIZE 100Φ MINIMUM
4. PIPE SIZE 100Φ UNLESS OTHERWISE STATED
5. HYDRANT AND VALVE LOCATIONS TO BE CONFIRMED AT DETAILED DESIGN
6. HYDRANT SPACING MAXIMUM 80m
7. CALCULATIONS CARRIED OUT IN INFOWORKS WS PRO [5.0.4]
8. COLEBROOK WHITE COEFFICIENT OF 0.3mm (HPVC) USED
9. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA03-2011 THIRD EDITION V3.1
10. RECYCLED WATER NETWORK ASSUMED TO INCLUDE FIRE FIGHTING HYDRANTS



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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GOOGONG

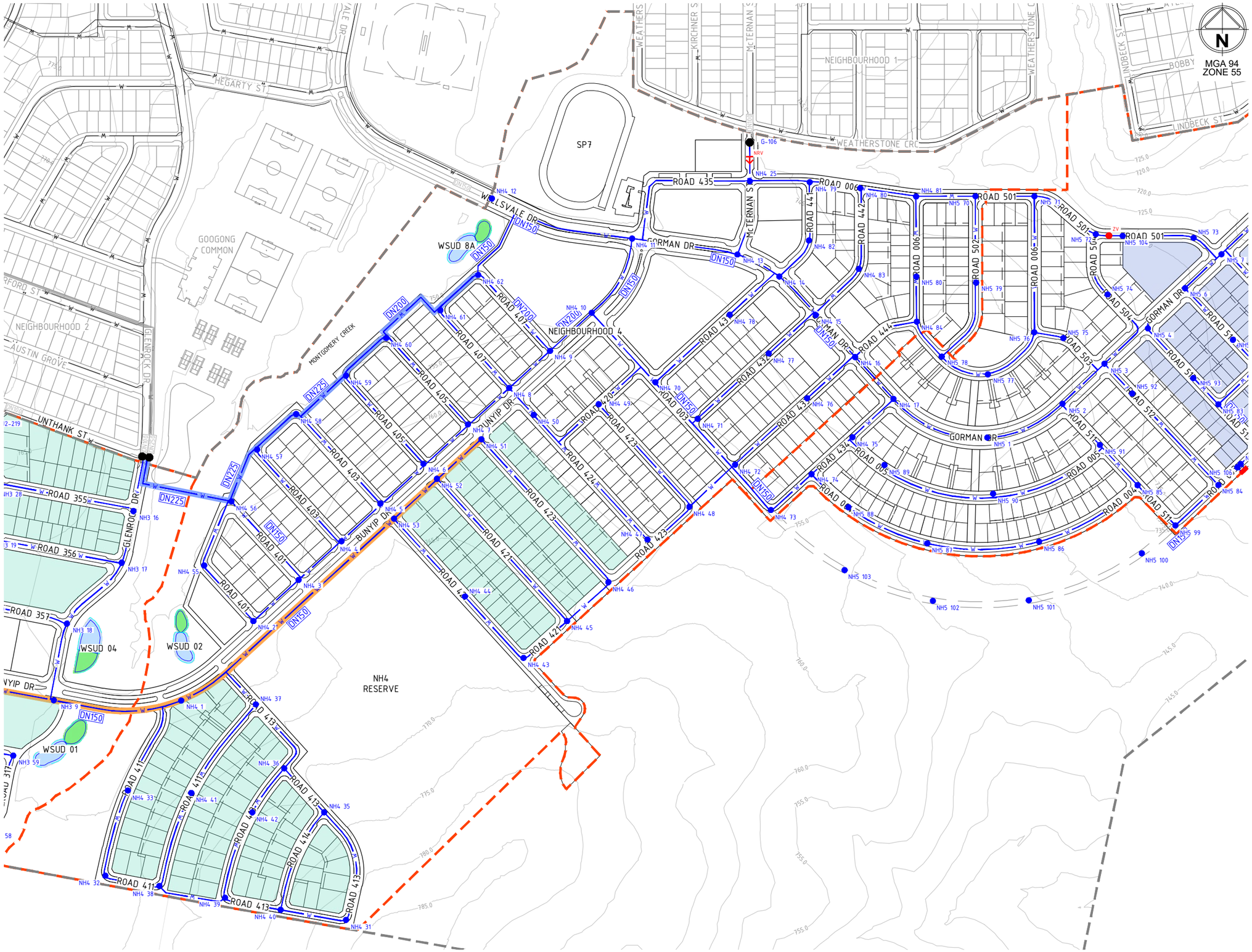
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN POTABLE
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA410 Rev B

file name 308534CA410.dwg layout name CA410 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:10 PM Sheet 59 of 98 Sheets

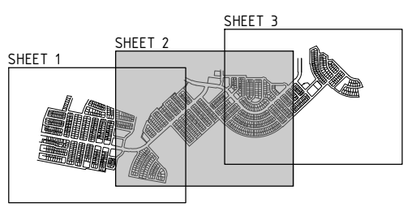


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- WATER
- EXISTING WATER
- BIORETENTION BASIN
- SEDIMENT BASIN
- LOTS WITHIN BOOSTED WATER ZONE: (RL790 – 760)
- LOTS WITHIN REDUCED PRESSURE WATER ZONE: (RL725 – 710)
- BOOSTED ZONE MAIN
- INTERMEDIATE ZONE MAIN
- PRESSURE REDUCING VALVE (PRV)
- ZONE VALVE (ZV)
- NON RETURN VALVE (NRV)
- CONNECTION TO EXISTING
- NODE (NH4 69)

NOTES

1. ALIGNMENT SHOWN DIAGRAMMATICALLY IN ROAD RESERVE. REFER TO DRAWINGS CA120-124 FOR WATERMAIN LOCATION WITHIN TYPICAL CROSS-SECTION
2. PIPE MATERIAL TO BE SERIES 2 PVC-M, PN16
3. PIPE SIZE 100Φ MINIMUM
4. PIPE SIZE 100Φ UNLESS OTHERWISE STATED
5. HYDRANT AND VALVE LOCATIONS TO BE CONFIRMED AT DETAILED DESIGN
6. HYDRANT SPACING MAXIMUM 80m
7. CALCULATIONS CARRIED OUT IN INFOWORKS WS PRO [5.0.4]
8. COLEBROOK WHITE COEFFICIENT OF 0.3mm (HPVC) USED
9. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA03-2011 THIRD EDITION V3.1
10. RECYCLED WATER NETWORK ASSUMED TO INCLUDE FIRE FIGHTING HYDRANTS



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B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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GOOGONG

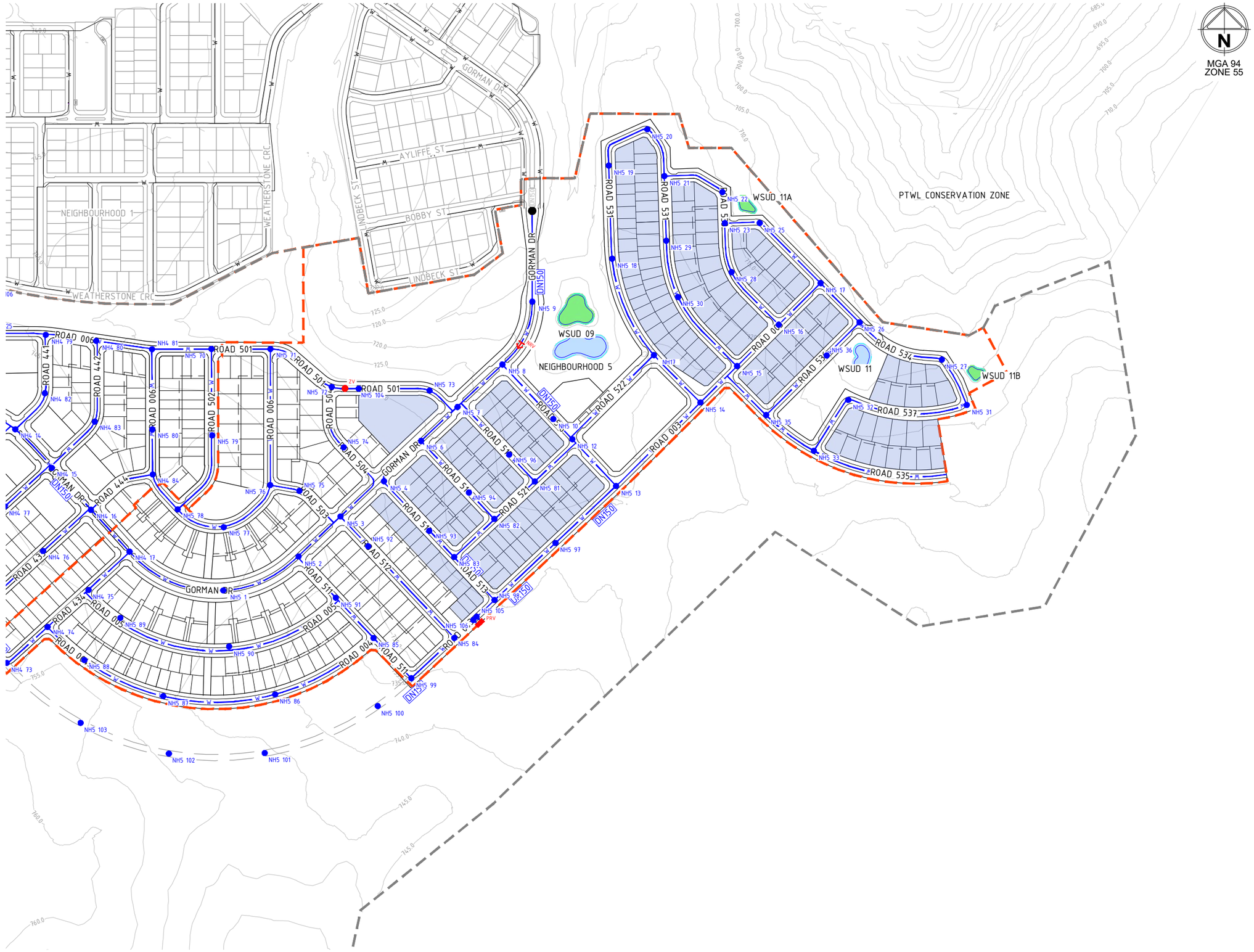
Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN POTABLE
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA411 Rev B

file name 308534CA410.dwg Layout name CA411 plotted by Jordan Bearston
file location \\spiire\candata\Data 30\308534\Civil\ACAD plot date 15/06/2022 2:11 PM Sheet 60 of 98 Sheets



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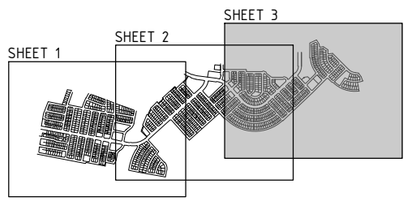
MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- WATER
- EXISTING WATER
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0 25 50 75 100 125

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GOOGONG

Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN POTABLE
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA412** Rev **B**

file name 308534CA410.dwg layout name CA412 plotted by Jordan Brereton
file location \\spiire\candata\data\301308534\Civil\ACAD plot date 15/06/2022 2:11 PM Sheet 61 of 98 Sheets

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)
J2-219	0.005	53.22	51.29	770.65
J2-339	0.002	44.48	43.00	779.39
J2-364	0.008	35.63	33.71	788.24
J2-419	0.003	70.17	68.32	753.70
J2-430	0.010	39.52	37.73	784.35
J2-550	0.008	58.85	57.04	765.02
G-106	0.003	51.79	48.31	745.70
NH3 1	0.014	41.96	39.88	781.91
NH3 2	0.018	45.48	43.40	778.39
NH3 4	0.015	51.37	49.29	772.50
NH3 5	0.017	57.37	55.29	766.50
NH3 6	0.013	60.19	58.12	763.68
NH3 7	0.022	61.37	59.30	762.50
NH3 8	0.005	62.37	60.27	761.50
NH3 9	0.000	64.47	62.32	759.40
NH4 1	0.004	65.19	62.88	758.68
NH4 2	0.002	36.99	36.01	760.50
NH4 3	0.005	35.99	35.01	761.50
NH4 4	0.008	34.99	33.90	762.50
NH4 5	0.008	33.44	32.23	764.06
NH4 6	0.009	32.99	31.66	764.50
NH4 7	0.007	34.47	32.98	763.02
NH4 8	0.006	38.13	36.34	759.37
NH4 9	0.047	41.99	40.08	755.50
NH4 10	0.002	45.99	44.01	751.50
NH4 11	0.040	47.21	45.19	750.28
NH4 12	0.000	48.03	46.23	749.46
NH2 1	0.000	47.99	46.23	749.50
NH4 13	0.106	48.06	45.88	749.44
NH4 14	0.006	49.99	47.76	747.50
NH4 15	0.015	52.23	49.93	745.26
NH4 16	0.004	52.00	49.63	745.49
NH5 1	0.014	49.79	47.28	747.70
NH5 2	0.008	55.82	53.23	741.67
NH5 3	0.004	59.73	57.13	737.77
NH5 4	0.002	45.16	21.28	734.50
NH5 6	0.002	48.16	24.28	731.50
NH5 7	0.002	51.74	27.86	727.92
NH5 8	0.000	57.16	33.28	722.50
NH5 9	0.000	62.04	38.15	717.63
NH4 17	0.011	50.99	48.59	746.50
NH5 10	0.005	58.94	35.06	720.72
NH5 12	0.044	57.16	33.28	722.50
NH5 13	0.008	55.16	31.28	724.50
NH5 14	0.007	53.16	29.28	726.50
NH5 15	0.008	54.56	30.67	725.11
NH5 16	0.010	62.16	38.28	717.50
NH5 17	0.005	72.16	48.28	707.50
NH17	0.007	54.63	30.75	725.03
NH5 18	0.008	62.59	38.71	717.07
NH5 19	0.005	62.16	38.28	717.50
NH5 20	0.001	62.16	38.28	717.50
NH5 21	0.006	62.16	38.28	717.50
NH5 22	0.002	63.69	39.81	715.97
NH5 23	0.003	64.91	41.03	714.75
NH5 25	0.002	67.16	43.28	712.50
NH5 26	0.002	69.66	45.78	710.00
NH5 27	0.003	69.66	45.78	710.00
NH5 28	0.009	61.25	37.37	718.42
NH5 29	0.011	57.16	33.28	722.50
NH5 30	0.013	54.16	30.28	725.50

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)
NH5 31	0.011	67.16	43.28	712.50
NH5 32	0.007	67.68	43.80	711.98
NH5 33	0.003	63.16	39.28	716.50
NH5 35	0.006	61.61	37.72	718.06
NH5 36	0.004	69.40	45.51	710.27
NH3 16	0.012	69.24	67.31	754.63
NH3 17	0.005	68.37	66.37	755.50
NH3 18	0.087	67.37	65.28	756.50
NH3 19	0.008	63.92	61.93	759.94
NH3 20	0.007	63.29	61.22	760.58
NH3 22	0.009	38.37	36.34	785.50
NH3 23	0.017	39.30	37.27	784.57
NH3 24	0.013	44.64	42.64	779.22
NH3 25	0.016	51.86	49.85	772.01
NH3 26	0.020	57.93	55.94	765.94
NH3 27	0.015	59.89	58.00	763.97
NH3 28	0.011	62.37	60.44	761.50
NH3 29	0.015	35.32	33.26	788.55
NH3 30	0.015	35.37	33.30	788.50
NH3 32	0.012	40.96	38.90	782.91
NH3 35	0.007	40.37	38.32	783.50
NH3 33	0.011	41.17	39.10	782.70
NH4 25	0.018	51.99	49.81	745.50
NH4 31	0.003	45.86	43.47	778.01
NH4 32	0.003	62.37	60.00	761.50
NH4 33	0.008	65.37	63.03	758.50
NH4 35	0.007	52.37	49.98	771.50
NH4 36	0.005	56.37	53.98	767.50
NH4 37	0.006	60.90	58.51	762.97
NH4 38	0.010	59.06	56.67	764.81
NH4 39	0.004	54.37	51.98	769.50
NH4 40	0.008	49.37	46.98	774.50
NH4 41	0.016	60.05	57.66	763.82
NH4 42	0.010	55.30	52.91	768.57
NH4 43	0.000	52.27	49.64	771.60
NH4 44	0.009	56.37	53.77	767.50
NH4 45	0.015	60.35	57.71	763.52
NH4 46	0.014	63.37	60.73	760.50
NH4 47	0.015	39.99	37.67	757.50
NH4 48	0.013	42.74	40.41	754.75
NH4 49	0.017	42.25	40.25	755.25
NH4 50	0.016	37.99	36.13	759.50
NH4 51	0.016	60.37	57.80	763.50
NH4 52	0.015	58.37	55.80	765.50
NH4 53	0.005	58.78	56.23	765.09
NH4 55	0.009	42.30	41.32	755.20
NH4 56	0.009	44.93	43.97	752.56
NH4 57	0.011	46.99	45.90	750.50
NH4 58	0.011	46.77	45.57	750.73
NH4 59	0.011	47.18	45.86	750.31
NH4 60	0.012	47.56	46.15	749.93
NH4 61	0.011	48.99	47.35	748.50
NH4 62	0.005	49.03	47.27	748.46
NH3 40	0.011	40.98	38.85	782.89
NH3 41	0.008	38.50	36.37	785.37
NH3 42	0.004	34.87	32.75	789.00
NH3 43	0.009	43.29	41.17	780.58
NH3 44	0.016	43.37	41.24	780.50
NH3 45	0.013	42.82	40.70	781.05
NH3 46	0.012	46.34	44.24	777.53
NH3 47	0.006	46.78	44.67	777.09

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)
NH3 48	0.006	49.37	47.27	774.50
NH3 49	0.014	50.37	48.27	773.50
NH3 50	0.016	54.99	52.90	768.88
NH3 51	0.003	52.33	50.23	771.54
NH3 52	0.015	58.18	56.09	765.69
NH3 53	0.004	56.62	54.52	767.25
NH3 54	0.015	59.42	57.33	764.45
NH3 55	0.006	58.63	56.53	765.24
NH3 56	0.011	62.37	60.25	761.50
NH3 57	0.008	61.50	59.39	762.36
NH3 58	0.003	64.11	61.99	759.75
NH3 59	0.022	64.37	62.24	759.50
NH3 60	0.013	43.08	40.99	780.79
NH4 70	0.008	42.99	40.81	754.50
NH4 71	0.011	42.99	40.72	754.50
NH4 72	0.009	45.69	43.34	751.80
NH4 73	0.011	43.99	41.56	753.50
NH4 74	0.006	46.64	44.16	750.85
NH4 75	0.006	47.99	45.52	749.50
NH4 76	0.012	47.79	45.42	749.71
NH4 77	0.013	47.02	44.72	750.48
NH4 78	0.007	43.39	41.18	754.11
NH4 79	0.002	54.86	52.61	742.64
NH4 80	0.006	57.42	55.11	740.07
NH4 81	0.005	59.58	57.18	737.92
NH4 82	0.004	51.63	49.39	745.86
NH4 83	0.011	53.09	50.78	744.40
NH4 84	0.007	51.61	49.19	745.89
NH5 70	0.006	60.99	58.54	736.50
NH5 71	0.010	64.65	62.17	732.84
NH5 72	0.006	66.99	64.50	730.50
NH5 73	0.010	51.03	27.15	728.63
NH5 74	0.008	60.99	58.50	736.50
NH5 75	0.003	54.13	51.57	743.36
NH5 76	0.014	49.76	47.24	747.73
NH5 77	0.006	46.99	44.51	750.50
NH5 78	0.004	48.99	46.54	748.50
NH5 79	0.016	51.62	49.17	745.87
NH5 80	0.012	56.02	53.61	741.47
NH5 81	0.008	56.16	32.28	723.50
NH5 82	0.008	54.16	30.28	725.50
NH5 83	0.006	51.86	27.98	727.81
NH5 85	0.013	63.94	61.28	733.55
NH5 86	0.017	57.99	55.36	739.50
NH5 87	0.015	49.66	47.08	747.83
NH5 88	0.013	45.99	43.48	751.50
NH5 89	0.012	48.99	46.48	748.50
NH5 90	0.015	50.99	48.43	746.50
NH5 91	0.015	59.22	56.61	738.27
NH5 92	0.013	63.49	60.80	734.01
NH5 93	0.009	48.39	24.50	731.28
NH5 94	0.009	52.16	28.28	727.50
NH5 96	0.009	55.16	31.28	724.50
NH5 97	0.011	52.72	28.84	726.94
NH5 98	0.013	50.16	26.28	729.50
NH5 99	0.006	63.99	61.26	733.50
NH5 100	0.008	62.04	59.33	735.46
NH5 101	0.009	52.60	50.00	744.89
NH5 102	0.012	48.59	46.04	748.90
NH5 103	0.012	42.49	39.99	755.00
NH3 61	0.002	47.33	45.20	776.54

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)
NH5 84	0.005	65.40	62.59	732.09
NH5 104	0.000	49.96	26.08	729.70
NH5 105	0.000	48.64	24.76	731.02
NH5 106	0.000	66.25	63.43	731.24

Land Use		Unit	Peak Day Demand l/d/unit	Peak Day Demand l/s/unit	Peak Hour Factor	Peak Hour Demand l/s/unit
Apartments	A1	ET	352	0.004074	3.4	0.013852
Terrace	N1	ET	475	0.005498	3.4	0.018692
Compact Lot	N2	ET	475	0.005498	3.4	0.018692
Small Courtyard	C1	ET	512	0.005926	3.0	0.017778
0	0	ET	512	0.005926	3.0	0.017778
Medium Courtyard	C2	ET	530	0.006134	3.0	0.018403
Large Courtyard	C3	ET	620	0.007176	3.4	0.024398
Small Traditional	T0	ET	620	0.007176	3.4	0.024398
0	0	ET	620	0.007176	3.4	0.024398
Small Traditional	T1	ET	642	0.007431	3.4	0.025264
Medium Traditional	T2	ET	642	0.007431	3.4	0.025264
Large Traditional	T3	ET	642	0.007431	3.4	0.025264
Estate Home	E1	ET	642	0.007431	3.4	0.025264
Estate Home Rural	E2	Hectare	-	-	-	
Rural	R1	Hectare	10950	0.126736	2.0	0.253472
Open Space	OS	Hectare	19714	0.228171	2.0	0.456343

file name 308534CA410.dwg layout name CA413 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\Civil\ACAD plot date 15/06/2022 2:11 PM Sheet 62 of 98 Sheets

Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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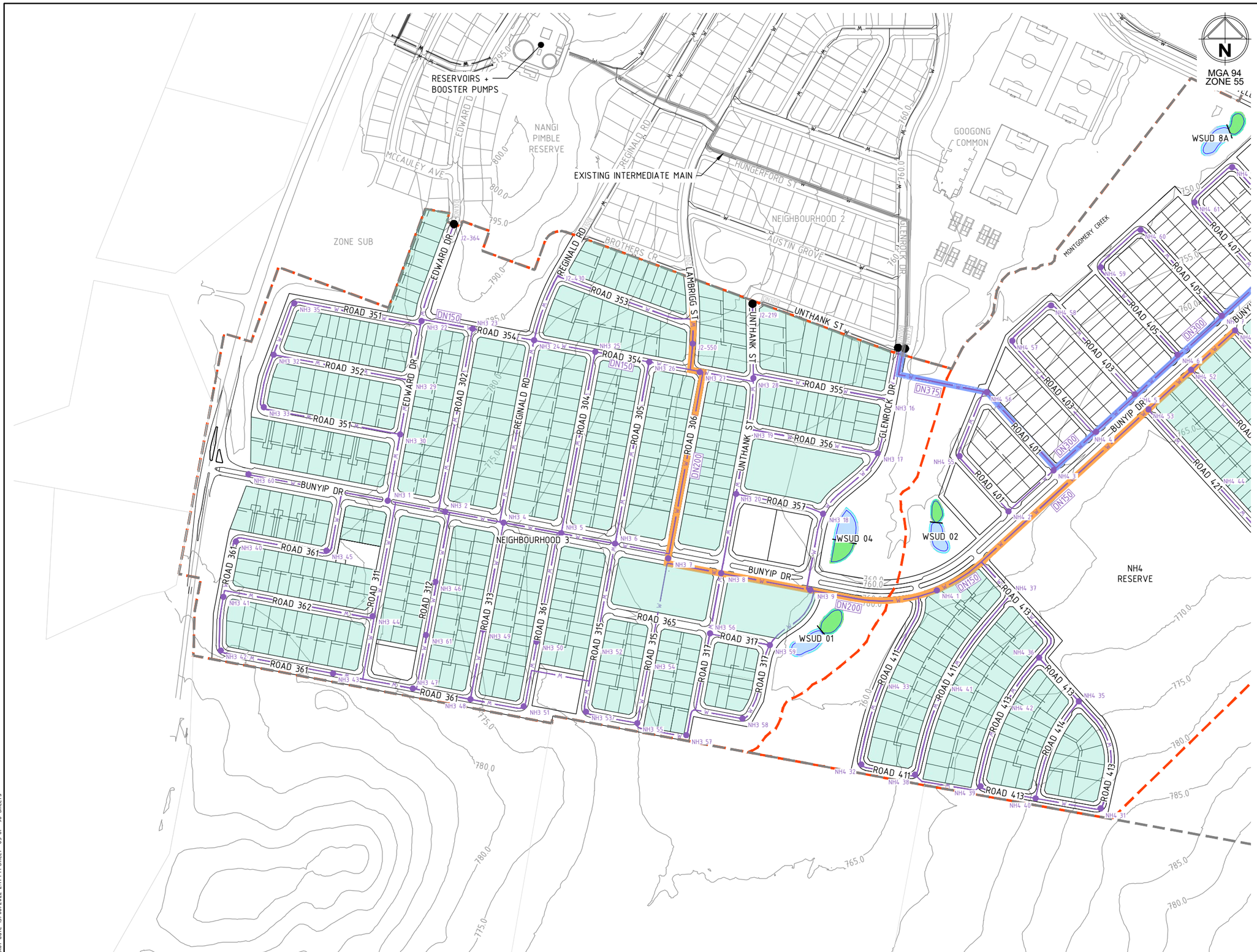
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Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN POTABLE
NODE DETAILS
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA413
Rev B

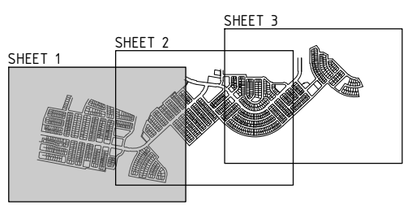


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- RECYCLED WATER
- EXISTING RECYCLED WATER
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- SEDIMENT BASIN
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- NODE (NH4 69)

NOTES

1. ALIGNMENT SHOWN DIAGRAMMATICALLY IN ROAD RESERVE. REFER TO DRAWINGS CA120-124 FOR WATERMAIN LOCATION WITHIN TYPICAL CROSS-SECTION
2. PIPE MATERIAL TO BE SERIES 2 PVC-O, PN16
3. PIPE SIZE 100Φ MINIMUM
4. PIPE SIZE 100Φ UNLESS OTHERWISE STATED
5. HYDRANT AND VALVE LOCATIONS TO BE CONFIRMED AT DETAILED DESIGN
6. HYDRANT SPACING MAXIMUM 80m
7. CALCULATIONS CARRIED OUT IN INFOWORKS WS PRO [5.0.4]
8. COLEBROOK WHITE COEFFICIENT OF 0.3mm (HPVC) USED
9. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA03-2011 THIRD EDITION V3.1
10. RECYCLED WATER NETWORK ASSUMED TO INCLUDE FIRE FIGHTING HYDRANTS



KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

System Certified

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GOOGONG

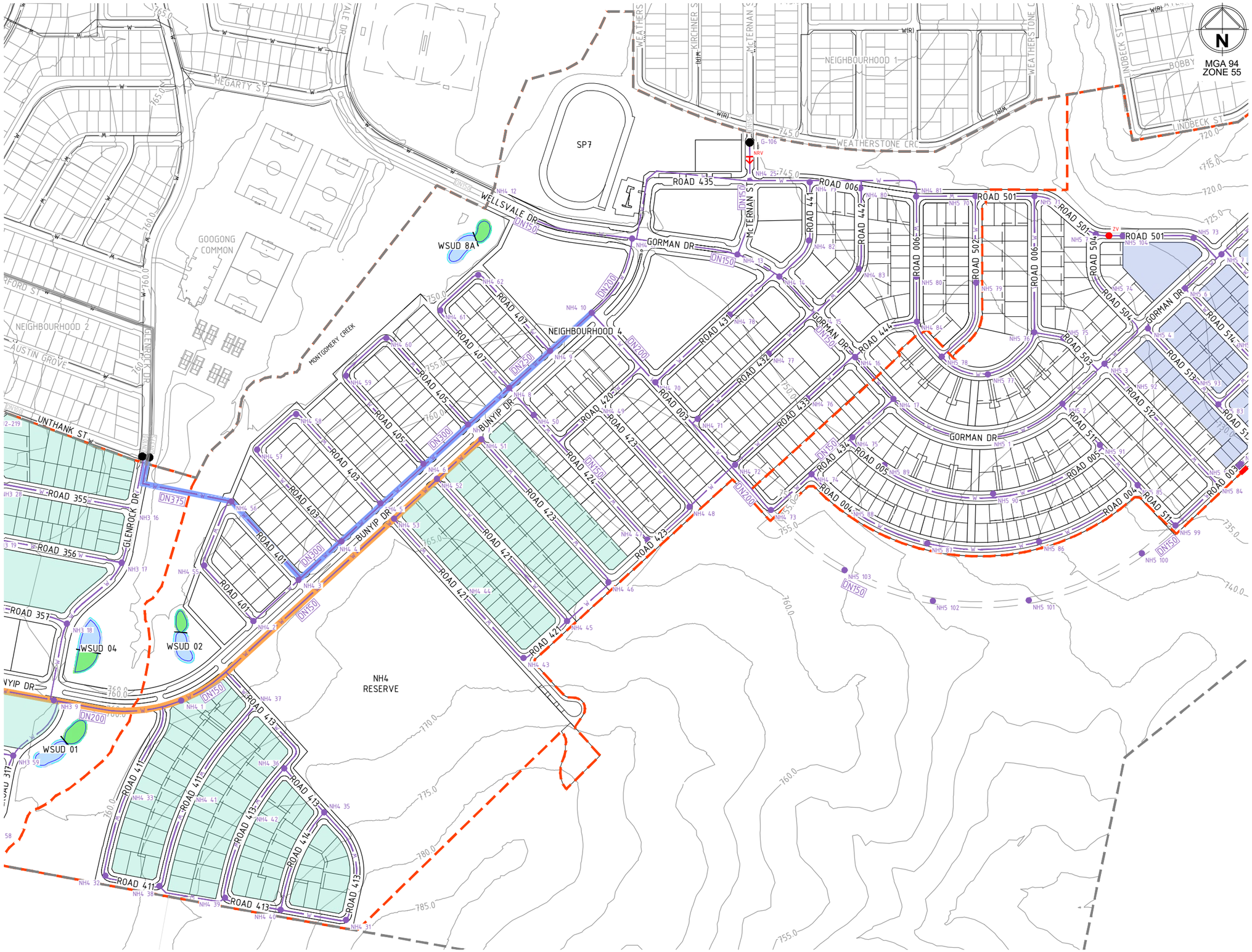
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN RECYCLED
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA420** Rev **B**

file name 308534CA420.dwg layout name CA420 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:11 PM Sheet 63 of 98 Sheets

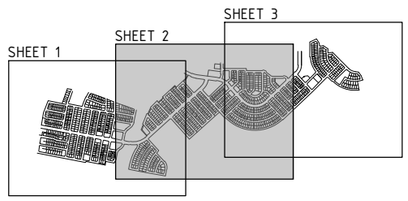


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- RECYCLED WATER
- EXISTING RECYCLED WATER
- BIORETENTION BASIN
- SEDIMENT BASIN
- LOTS WITHIN BOOSTED WATER ZONE: (RL790 – 760)
- LOTS WITHIN REDUCED PRESSURE WATER ZONE: (RL725 – 710)
- BOOSTED ZONE MAIN
- INTERMEDIATE ZONE MAIN
- PRESSURE REDUCING VALVE
- ZONE VALVE
- NON RETURN VALVE
- CONNECTION TO EXISTING
- NODE

NOTES

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4. PIPE SIZE 100Φ UNLESS OTHERWISE STATED
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6. HYDRANT SPACING MAXIMUM 80m
7. CALCULATIONS CARRIED OUT IN INFOWORKS WS PRO [5.0.4]
8. COLEBROOK WHITE COEFFICIENT OF 0.3mm (HPVC) USED
9. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA03-2011 THIRD EDITION V3.1
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KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN RECYCLED
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA421 Rev B

file name 308534CA420.dwg layout name CA421 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:12 PM Sheet 64 of 98 Sheets



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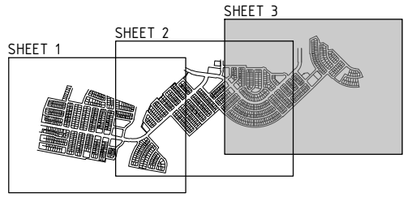
MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 5.0m MINOR INTERVALS
- RECYCLED WATER
- EXISTING RECYCLED WATER
- BIORETENTION BASIN
- SEDIMENT BASIN
- LOTS WITHIN BOOSTED WATER ZONE: (RL790 – 760)
- LOTS WITHIN REDUCED PRESSURE WATER ZONE: (RL725 – 710)
- BOOSTED ZONE MAIN
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- PRESSURE REDUCING VALVE
- ZONE VALVE
- NON RETURN VALVE
- CONNECTION TO EXISTING
- NODE

NOTES

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KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:2500@A1 SCALE 1:5000@A3 0 25 50 75 100 125

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GOOGONG

Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN RECYCLED
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA422** Rev **B**

file name 308534CA420.dwg layout name CA422 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\Civil\ACAD plot date 15/06/2022 2:12 PM Sheet 65 of 98 Sheets

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)	Minimum Fire Flow (L/s)	Residual Presure At Minimum Fire Flow (m)
G-106	0.005	58.77	58.77	745.70	10	58.28
J2-219	0.011	53.44	53.44	770.65	10	52.22
J2-339	0.006	44.71	41.76	779.39	10	44.18
J2-364	0.013	35.85	35.85	788.24	10	34.84
J2-419	0.005	70.39	70.39	753.70	10	69.65
J2-550	1.218	59.07	59.07	765.02	10	58.89
NH3 1	0.032	42.19	37.05	781.91	10	41.05
NH3 2	0.036	45.71	40.55	778.39	10	44.99
NH3 4	0.065	51.60	46.44	772.50	10	50.94
NH3 5	0.056	57.60	52.45	766.50	10	56.99
NH3 6	0.023	60.42	55.28	763.68	10	59.85
NH3 7	0.033	61.60	56.47	762.50	10	61.21
NH3 8	0.006	62.60	57.43	761.50	10	62.19
NH3 9	0.000	64.70	59.46	759.40	10	64.25
NH4 1	0.010	65.42	60.03	758.68	10	64.85
NH4 2	0.005	44.50	43.88	760.50	10	43.27
NH4 3	0.011	43.50	42.86	761.50	10	42.97
NH4 4	0.016	42.50	41.73	762.50	10	41.96
NH4 5	0.021	40.94	40.06	764.06	10	40.40
NH4 6	0.023	40.50	39.50	764.50	10	39.96
NH4 7	0.014	41.98	40.86	763.02	10	41.43
NH4 8	0.011	45.63	44.40	759.37	10	45.08
NH4 9	0.068	49.50	48.20	755.50	10	48.95
NH4 10	0.003	53.50	52.14	751.50	10	52.95
NH4 11	0.055	54.72	53.34	750.28	10	54.16
NH4 12	0.000	55.54	53.92	749.46	10	54.81
NH2 1	0.000	55.50	53.70	749.50	10	54.78
NH4 13	0.029	55.56	53.99	749.44	10	54.95
NH4 14	0.008	57.50	55.85	747.50	10	56.87
NH4 15	0.021	59.74	58.00	745.26	10	59.10
NH4 16	0.010	59.51	57.68	745.49	10	58.86
NH5 1	0.027	57.30	55.16	747.70	10	55.86
NH5 2	0.017	63.33	60.99	741.67	10	62.29
NH5 3	0.010	67.23	64.85	737.77	10	66.14
NH5 4	0.005	51.19	24.11	734.50	10	35.95
NH5 6	0.004	54.19	27.11	731.50	10	35.80
NH5 7	0.004	57.77	30.69	727.92	10	43.00
NH5 8	0.000	63.19	36.11	722.50	10	45.98
NH5 9	0.000	68.06	40.98	717.63	10	53.08
NH4 17	0.022	58.50	56.63	746.50	10	57.81
NH5 10	0.006	64.97	37.89	720.72	10	46.94
NH5 12	0.034	63.19	36.11	722.50	10	48.04
NH5 13	0.017	61.19	34.11	724.50	10	44.21
NH5 14	0.016	59.19	32.11	726.50	10	40.63
NH5 15	0.017	60.58	33.50	725.11	10	45.27
NH5 16	0.021	68.19	41.11	717.50	10	49.12
NH5 17	0.013	78.19	51.11	707.50	10	59.00
NH17	0.008	60.66	33.58	725.03	10	45.53
NH5 18	0.010	68.62	41.54	717.07	10	52.45
NH5 19	0.006	68.19	41.11	717.50	10	48.43
NH5 20	0.001	68.19	41.11	717.50	10	51.97
NH5 21	0.009	68.19	41.11	717.50	10	52.36
NH5 22	0.009	69.72	42.64	715.97	10	50.40
NH5 23	0.009	70.94	43.86	714.75	10	51.73
NH5 25	0.003	73.19	46.11	712.50	10	53.84
NH5 26	0.006	75.69	48.61	710.00	10	59.94
NH5 27	0.007	76.19	49.11	709.50	10	59.76
NH5 28	0.023	67.27	40.19	718.42	10	51.28
NH5 29	0.025	63.19	36.11	722.50	10	43.67
NH5 30	0.023	60.19	33.11	725.50	10	40.69
NH5 31	0.038	73.19	46.11	712.50	10	56.80
NH5 32	0.037	73.71	46.63	711.98	10	53.56
NH5 33	0.009	69.19	42.11	716.50	10	53.05
NH5 35	0.014	67.63	40.55	718.06	10	48.76

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)	Minimum Fire Flow (L/s)	Residual Presure At Minimum Fire Flow (m)
NH5 36	0.012	75.42	48.34	710.27	10	56.08
NH3 16	0.018	69.47	64.57	754.63	10	68.68
NH3 17	0.007	68.60	63.58	755.50	10	67.78
NH3 18	0.045	67.60	62.47	756.50	10	66.86
NH3 19	0.016	64.16	59.14	759.94	10	63.40
NH3 20	0.009	63.52	58.40	760.58	10	62.80
NH3 22	0.018	38.60	33.67	785.50	10	38.09
NH3 23	0.033	39.53	34.60	784.57	10	39.08
NH3 24	0.069	44.88	39.96	779.22	10	44.52
NH3 25	0.058	52.09	47.15	772.01	10	51.69
NH3 26	0.036	58.16	53.22	765.94	10	57.78
NH3 27	0.039	60.13	55.21	763.97	10	59.82
NH3 28	0.067	62.60	57.65	761.50	10	61.99
NH3 29	0.026	35.55	30.51	788.55	10	34.59
NH3 30	0.024	35.60	30.52	788.50	10	34.53
NH3 32	0.023	41.08	36.03	783.02	10	39.78
NH3 35	0.014	40.60	35.58	783.50	10	39.11
NH3 33	0.027	41.40	36.33	782.70	10	39.71
NH4 25	0.026	59.50	57.93	745.50	10	58.88
NH4 31	0.012	46.09	40.30	778.01	10	43.29
NH4 32	0.007	62.60	56.92	761.50	10	60.76
NH4 33	0.020	65.60	60.05	758.50	10	63.88
NH4 35	0.028	52.60	46.81	771.50	10	50.45
NH4 36	0.020	56.60	50.82	767.50	10	54.97
NH4 37	0.021	61.13	55.42	762.97	10	60.30
NH4 38	0.022	59.29	53.55	764.81	10	57.80
NH4 39	0.026	54.60	48.82	769.50	10	52.90
NH4 40	0.020	49.60	43.81	774.50	10	47.45
NH4 41	0.042	60.28	54.54	763.82	10	58.46
NH4 42	0.054	55.53	49.74	768.57	10	53.35
NH4 43	0.000	52.50	46.06	771.60	10	49.48
NH4 44	0.018	56.60	50.25	767.50	10	53.54
NH4 45	0.030	60.58	54.13	763.52	10	57.74
NH4 46	0.023	63.60	57.15	760.50	10	60.58
NH4 47	0.024	47.50	45.82	757.50	10	46.77
NH4 48	0.019	50.25	48.53	754.75	10	49.46
NH4 49	0.032	49.75	48.36	755.25	10	48.75
NH4 50	0.030	45.50	44.21	759.50	10	44.90
NH4 51	0.029	60.60	54.33	763.50	10	58.31
NH4 52	0.040	58.60	52.34	765.50	10	56.66
NH4 53	0.013	59.01	52.80	765.09	10	57.23
NH4 55	0.021	49.80	49.21	755.20	10	48.55
NH4 56	0.018	52.44	51.88	752.56	10	51.91
NH4 57	0.021	54.50	53.65	757.74	10	52.77
NH4 58	0.027	54.27	53.40	761.50	10	52.55
NH4 59	0.027	54.69	53.60	766.26	10	52.96
NH4 60	0.021	55.07	53.96	755.50	10	53.34
NH4 61	0.023	56.50	55.22	759.50	10	54.90
NH4 62	0.008	56.54	55.25	762.50	10	54.95
NH3 40	0.022	41.21	35.94	765.73	10	38.78
NH3 41	0.023	38.73	33.46	755.25	10	36.65
NH3 42	0.015	35.10	29.83	759.50	10	32.68
NH3 43	0.021	43.52	38.26	763.50	10	41.37
NH3 44	0.023	43.60	38.33	765.50	10	41.42
NH3 45	0.021	43.05	37.79	765.09	10	40.74
NH3 46	0.021	46.57	41.33	755.20	10	45.22
NH3 47	0.010	47.01	41.76	752.56	10	45.64
NH3 48	0.015	49.60	44.38	750.50	10	48.63
NH3 49	0.037	50.60	45.39	750.73	10	49.23
NH3 50	0.026	55.22	50.04	750.31	10	53.92
NH3 51	0.005	52.56	47.36	749.93	10	51.72
NH3 52	0.023	58.41	53.24	748.50	10	57.19
NH3 53	0.008	56.85	51.66	748.46	10	56.07
NH3 54	0.022	59.65	54.48	782.89	10	58.46

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)	Minimum Fire Flow (L/s)	Residual Presure At Minimum Fire Flow (m)
NH3 55	0.013	58.86	53.67	785.37	10	58.06
NH3 56	0.016	62.60	57.40	789.00	10	61.76
NH3 57	0.016	61.74	56.54	780.58	10	60.81
NH3 58	0.006	64.35	59.14	780.50	10	62.97
NH3 59	0.031	64.60	59.38	781.05	10	63.71
NH3 60	0.018	43.31	38.16	777.53	10	37.86
NH4 70	0.020	50.50	48.95	777.09	10	49.91
NH4 71	0.019	50.50	48.85	774.50	10	49.90
NH4 72	0.021	53.20	51.47	773.50	10	52.59
NH4 73	0.023	51.50	49.70	768.88	10	50.87
NH4 74	0.015	54.15	52.29	771.54	10	53.48
NH4 75	0.014	55.50	53.63	765.69	10	54.81
NH4 76	0.030	55.29	53.49	767.25	10	54.07
NH4 77	0.029	54.52	52.81	764.45	10	53.33
NH4 78	0.009	50.89	49.29	765.24	10	49.70
NH4 79	0.002	62.36	60.70	761.50	10	61.50
NH4 80	0.007	64.93	63.14	762.36	10	63.98
NH4 81	0.010	67.08	65.09	759.75	10	65.97
NH4 82	0.005	59.14	57.48	759.50	10	58.08
NH4 83	0.016	60.60	58.84	780.79	10	59.35
NH4 84	0.017	59.11	57.10	754.50	10	58.04
NH5 70	0.014	68.50	66.37	754.50	10	67.14
NH5 71	0.023	72.16	69.94	751.80	10	70.40
NH5 72	0.015	74.50	72.27	753.50	10	70.55
NH5 73	0.021	57.06	29.98	750.85	10	37.83
NH5 74	0.021	68.50	66.26	749.50	10	62.11
NH5 75	0.008	61.64	59.31	749.71	10	60.35
NH5 76	0.034	57.27	55.00	750.48	10	55.99
NH5 77	0.015	54.50	52.30	754.11	10	52.98
NH5 78	0.012	56.50	54.38	742.64	10	55.27
NH5 79	0.033	59.13	57.00	740.07	10	57.38
NH5 80	0.023	63.53	61.53	737.92	10	62.06
NH5 81	0.017	62.19	35.11	745.86	10	47.45
NH5 82	0.016	60.19	33.11	744.40	10	45.38
NH5 83	0.015	57.88	30.80	745.89	10	39.74
NH5 85	0.030	71.45	69.02	736.50	10	70.38
NH5 86	0.035	65.50	63.15	732.84	10	63.49
NH5 87	0.027	57.17	54.99	730.50	10	55.17
NH5 88	0.023	53.50	51.50	728.63	10	52.09
NH5 89	0.023	56.50	54.51	736.50	10	55.20
NH5 90	0.030	58.50	56.32	743.36	10	56.75
NH5 91	0.024	66.73	64.38	747.73	10	65.67
NH5 92	0.024	70.99	68.41	750.50	10	69.55

Node ID	Demand (l/s)	Max Pressure (m)	Min Pressure (m)	Elevation (m)	Minimum Fire Flow (L/s)	Residual Presure At Minimum Fire Flow (m)
NH5 93	0.022	54.41	27.33	748.50	10	35.83
NH5 94	0.016	58.19	31.11	745.87	10	43.08
NH5 96	0.017	61.19	34.11	741.47	10	46.21
NH5 97	0.028	58.75	31.67	723.50	10	40.43
NH5 98	0.027	56.19	29.11	725.50	10	42.00
NH5 99	0.010	71.50	68.89	727.81	10	70.60
NH5 100	0.013	69.54	67.03	733.55	10	68.66
NH5 101	0.019	60.11	57.96	739.50	10	59.34
NH5 102	0.024	56.10	54.05	747.83	10	55.31
NH5 103	0.022	50.00	48.07	751.50	10	49.25
NH3 65	0.039	42.77	39.03	748.50	10	42.23
NH3 61	0.013	47.60	42.35	746.50	10	46.11
NH5 84	0.035	72.94	70.07	738.27	10	71.92
NH5 106	0.000	73.98	71.09	734.01	10	72.95
NH5 105	0.000	54.67	27.59	731.28	10	37.51
NH5 104	0.000	55.90	28.83	727.50	10	33.68

Land Use		Unit	Peak Day Demand l/d/unit	Peak Day Demand l/s/unit	Peak Hour Factor	Peak Hour Demand l/s/unit
Apartments	A1	ET	154	0.00178	2.7	0.0048
Terrace	N1	ET	221	0.00256	3.2	0.0082
Compact Lot	N2	ET	221	0.00256	3.2	0.0082
Small Courtyard	C1	ET	391	0.00453	4	0.0181
Medium Courtyard	C2	ET	391	0.00453	4	0.0181
Large Courtyard	C3	ET	594	0.00688	4	0.0275
Small Traditional	T0	ET	834	0.00965	4.6	0.0444
Small Traditional	T1	ET	834	0.00965	4.6	0.0444
Medium Traditional	T2	ET	834	0.00965	4.6	0.0444
Large Traditional	T3	ET	1255	0.01453	4.6	0.0668
Estate Home	E1	ET	2732	0.03162	4.6	0.1455
Estate Home Rural	E2	ET	2732	0.03162	4.6	0.1455
Rural	R1	ET	4831	0.05591	4.6	0.2572
Open Space	OS	Hectare	74328	0.86028	1.5	1.2904
School	S	Hectare	36569	0.42325	2	0.8465
Commercial	C	Hectare	11066	0.12808	2	0.2562

file name 308534CA4-20.dwg Layout name CA423 plotted by Jordan Brereton
file location \\spiire\canberra\Data\301\308534\Civil\ACAD plot date 15/06/2022 2:12 PM Sheet 66 of 98 Sheets

Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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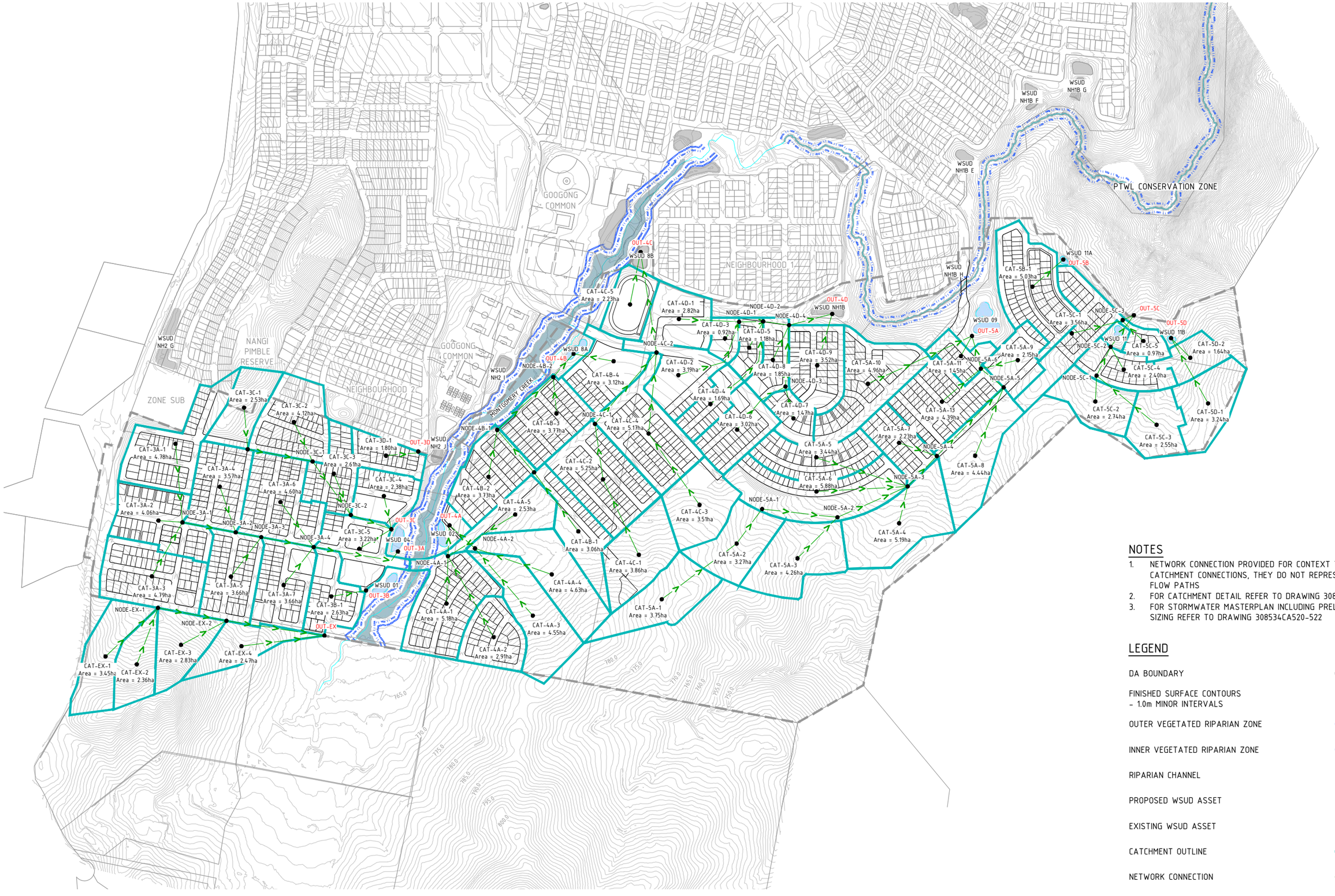
GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER CONCEPT PLAN RECYCLED
NODE DETAILS
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA423
Rev B



NOTES

1. NETWORK CONNECTION PROVIDED FOR CONTEXT TO SHOW CATCHMENT CONNECTIONS, THEY DO NOT REPRESENT THE TRUE FLOW PATHS
2. FOR CATCHMENT DETAIL REFER TO DRAWING 308534CA510
3. FOR STORMWATER MASTERPLAN INCLUDING PRELIMINARY PIPE SIZING REFER TO DRAWING 308534CA520-522

LEGEND

- DA BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVALS (750.0)
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- RIPARIAN CHANNEL
- PROPOSED WSUD ASSET
- EXISTING WSUD ASSET
- CATCHMENT OUTLINE
- NETWORK CONNECTION

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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GOOGONG

Designed M.PHILLIPS	Checked S.BEFF
Authorised M.BOMBEN	Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRAINAGE CATCHMENT PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA500 Rev B

file name 308534CA500.dwg layout name CA500 plotted by Jordan Brereton
file location \\spiire\canberra\data\308534\Civil\ACAD plot date 15/06/2022 2:12 PM Sheet 67 of 98 Sheets

	AREA (ha)	Fraction Impervious (%)	AEP 20 (m3/s)	AEP 1 (m3/s)
CAT-EX-1	3.45	40%	0.1727	0.4949
CAT-EX-2	2.36	40%	0.1233	0.3575
NODE-EX-1			0.2959	0.8524
CAT-EX-3	2.83	40%	0.1605	0.4754
NODE-EX-2			0.4538	1.3216
CAT-EX-4	2.47	40%	0.1092	0.3033
OUT-EX		40%	0.558	1.6051
CAT-3A-1	4.78	70%	0.8224	1.7223
CAT-3A-2	3.93	70%	0.799	1.6286
CAT-3A-3	4.71	70%	0.8116	1.7157
NODE-3A-1			2.3451	4.7406
CAT-3A-4	3.57	70%	0.6712	1.4153
NODE-3A-2			2.9242	6.2719
CAT-3A-5	3.78	70%	0.7039	1.4733
NODE-3A-3			3.535	7.6354
CAT-3A-6	4.61	70%	0.8493	1.7168
NODE-3A-4			4.6445	9.9628
CAT-3A-7	3.66	70%	0.6747	1.3498
OUT-3A			4.2758	9.3965
CAT-3B-1	2.63	70%	0.3357	0.7148
OUT-3B			0.3357	0.7148
CAT-3C-1	2.53	40%	0.2336	0.6055
CAT-3C-2	4.13	70%	0.7771	1.6532
NODE-3C-1			0.8486	1.8773
CAT-3C-3	2.58	70%	0.4623	0.9287
NODE-3C-2			1.1797	2.6636
CAT-3C-4	2.40	70%	0.3697	0.8308
CAT-3C-5	3.22	70%	0.5944	1.1997
OUT-3C			1.9731	4.3509
CAT-3D-1	1.80	70%	0.3357	0.7148
OUT-3D			0.3357	0.7148
CAT-4A-1	0.052	0.7	0.9568	1.9358
CAT-4A-2	0.029	0.7	0.4433	0.9873
NODE-4A-1			1.7778	3.6845
CAT-4A-3	0.046	0.4	0.2369	0.6962
CAT-4A-4	0.046	0.4	0.251	0.7425
NODE-4A-2			0.4879	1.4387
CAT-4A-5	0.025	0.7	0.3669	0.8164
OUT-4A			2.0007	4.7387
CAT-4B-1	0.031	0.7	0.4512	1.0034
CAT-4B-2	0.037	0.7	0.6761	1.342
NODE-4B-1			1.0005	2.2505
CAT-4B-3	0.038	0.7	0.7021	1.4655

	AREA (ha)	Fraction Impervious (%)	AEP 20 (m3/s)	AEP 1 (m3/s)
NODE-4B-2			1.1428	2.5052
CAT-4B-4	0.031	0.7	0.5754	1.1487
OUT-4B			1.5478	3.4008
CAT-4C-1	0.039	0.7	0.5064	1.0913
CAT-4C-2	0.052	0.7	0.8118	1.8392
NODE-4C-1			1.3182	2.9305
CAT-4C-3	0.035	0.7	0.4593	0.9897
CAT-4C-4	0.052	0.7	1.1373	2.4514
NODE-4C-2			2.1777	4.7935
CAT-4C-5	0.022	0.1	0.1488	0.5728
OUT-4C			0.1839	0.7158
CAT-4D-1	0.028	0.7	0.4337	0.9665
CAT-4D-2	0.032	0.7	0.5331	1.1332
CAT-4D-3	0.009	0.7	0.1751	0.3696
NODE-4D-1			1.0507	2.2284
CAT-4D-4	0.017	0.7	0.3014	0.6083
CAT-4D-5	0.012	0.7	0.2195	0.4559
NODE-4D-2			1.4169	3.0837
CAT-4D-6	0.03	0.7	0.5573	1.1168
CAT-4D-7	0.015	0.7	0.2791	0.5515
NODE-4D-3			0.7554	1.623
CAT-4D-8	0.019	0.7	0.3415	0.6854
NODE-4D-4			2.3304	5.0251
OUT-4D	0.035	0.7	2.7085	5.9363
CAT-5A-1	3.75	70%	0.6409	1.3446
CAT-5A-2	3.27	70%	0.6076	1.2647
NODE-5A-1			1.1854	2.5228
CAT-5A-3	4.26	70%	0.7756	1.5308
NODE-5A-2			1.7039	3.7235
CAT-5A-4	5.19	70%	0.999	2.1034
CAT-5A-5	3.44	70%	0.5451	1.2035
CAT-5A-6	5.88	70%	0.9416	2.066
NODE-5A-3			3.7075	8.5393
CAT-5A-7	2.23	70%	0.4048	0.8017
NODE-5A-4			4.1225	8.8395
CAT-5A-8	4.39	70%	0.7833	1.5999
NODE-5A-5			4.2553	9.3682
CAT-5A-9	2.15	70%	0.4002	0.8361
CAT-5A-10	4.92	70%	0.7984	1.7375
CAT-5A-11	1.45	70%	0.2899	0.5989
CAT-5A-12	4.39	70%	0.8087	1.6138
NODE-5A-6			4.9605	11.1172
OUT-5A			5.7165	12.8214

	AREA (ha)	Fraction Impervious (%)	AEP 20 (m3/s)	AEP 1 (m3/s)
CAT-5B-1	5.03	70%	0.9503	2.018
OUT-5B			0.9503	2.018
CAT-5C-1	3.56	70%	0.6575	1.3608
CAT-5C-2	2.74	70%	0.5519	1.1357
CAT-5C-3	2.55	70%	0.4321	0.9121
NODE-5C-1			0.9268	1.9562
CAT-5C-4	2.40	70%	0.4803	0.9919
NODE-5C-2			1.3948	2.7514
CAT-5C-5	0.97	70%	0.1827	0.3885
NODE-5C-3			0.8403	1.7494
OUT-5C			2.1909	4.5244

RORB PARAMETERS

	EXTERNAL	NH3	NH4	NH5
m	0.8	0.8	0.8	0.8
A (km2)	0.111	0.484	0.732	0.696
kc *	0.73	1.53	1.88	1.84
INTIAL LOSS (mm) **	22	22	22	22
CONTINUING LOSS(mm/hr)**	5.2	5.2	5.2	5.2

* RORB KC ROUTING PARAMETER FROM QCC HANDBOOK OF DRAINAGE DESIGN CRITERIA-2015
** INITIAL AND CONTINUING LOSS FROM AR&R DATA HUB

WSUD CATCHMENT FLOWS

WSUD	4EY FLOW (m3/s)	5%AEP FLOW (m3/s)
1*	0.74	2.47
4*	1.23	4.11
2	0.54	2.00
8a	0.46	1.55
8b	0.54	1.94
1b	0.79	2.71
9	1.70	5.72
11	0.68	2.19
11a	0.31	0.95
11b	0.28	0.88

* MINOR FLOWS FROM CATCHMENTS 3A TO BE SPLIT BETWEEN WSUD 1 AND 4

NOTES

1. STORMWATER FLOWS OBTAINED FROM RORBWin (Ver. 6.45) RUNOFF ROUTING MODEL
2. PIPES HAVE GENERALLY BEEN DESIGNED TO CONVEY THE 20% AEP FLOWS
3. WHERE REQUIRED PIPES HAVE BEEN UPSIZED TO ENSURE GAP FLOW DURING 1% AEP EVENT DOES NOT EXCEED VELOCITY OR DEPTH LIMITS SPECIFIED IN QPRC D5
4. FINAL CATCHMENT FLOWS AND PIPE SIZES PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN THROUGH HYDRAULIC GRADE ANALYSIS WITH ALLOWANCES FOR BLOCKAGE AND OTHER NETWORK INEFFICIENCIES
5. FOR CATCHMENT PLAN REFER TO CA500
6. FOR STORMWATER MASTER PLAN AND PIPE SIZING REFER TO CA520-CA522

file name 308534CA510.dwg Layout name CA510 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 6/06/2022 2:12 PM Sheet 68 of 98 Sheets

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GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRAINAGE CATCHMENT DETAILS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA510
Rev B

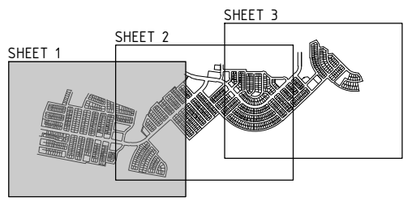


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVALS
- OPEN SPACE
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- STORMWATER PIPE
- STORMWATER TRUNK – PIPES ≥ Ø750
- BLOCKS TO BE SERVICED BY EXISTING STORMWATER NETWORK
- EXISTING DEVELOPED CATCHMENT CONTRIBUTING TO STORMWATER NETWORK
- STORMWATER PIPE EXISTING
- CATCH DRAIN EXISTING
- BIO RETENTION BASIN
- SEDIMENT BASIN
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- OVERLAND FLOW DIRECTION
- CATCH DRAIN/DIVERSION CHANNEL
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. REFER TO DRAWING 308534CA500 FOR CATCHMENT BOUNDARIES
2. REFER TO DRAWING 308534CA510 FOR CATCHMENT DETAILS AND FLOWS
3. INDICATIVE PIPE SIZES ARE DESIGN TO CONVEY THE MINOR STORM EVENT (20% AEP). IN CERTAIN LOCATION PIPES HAVE BEEN UPSIZED TO CONTROL GAP FLOW IN THE ROAD RESERVE DURING THE MAJOR STORM EVENT (1% AEP)
4. PIPE SIZES TO BE CONFIRMED AT DETAILED DESIGN
5. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

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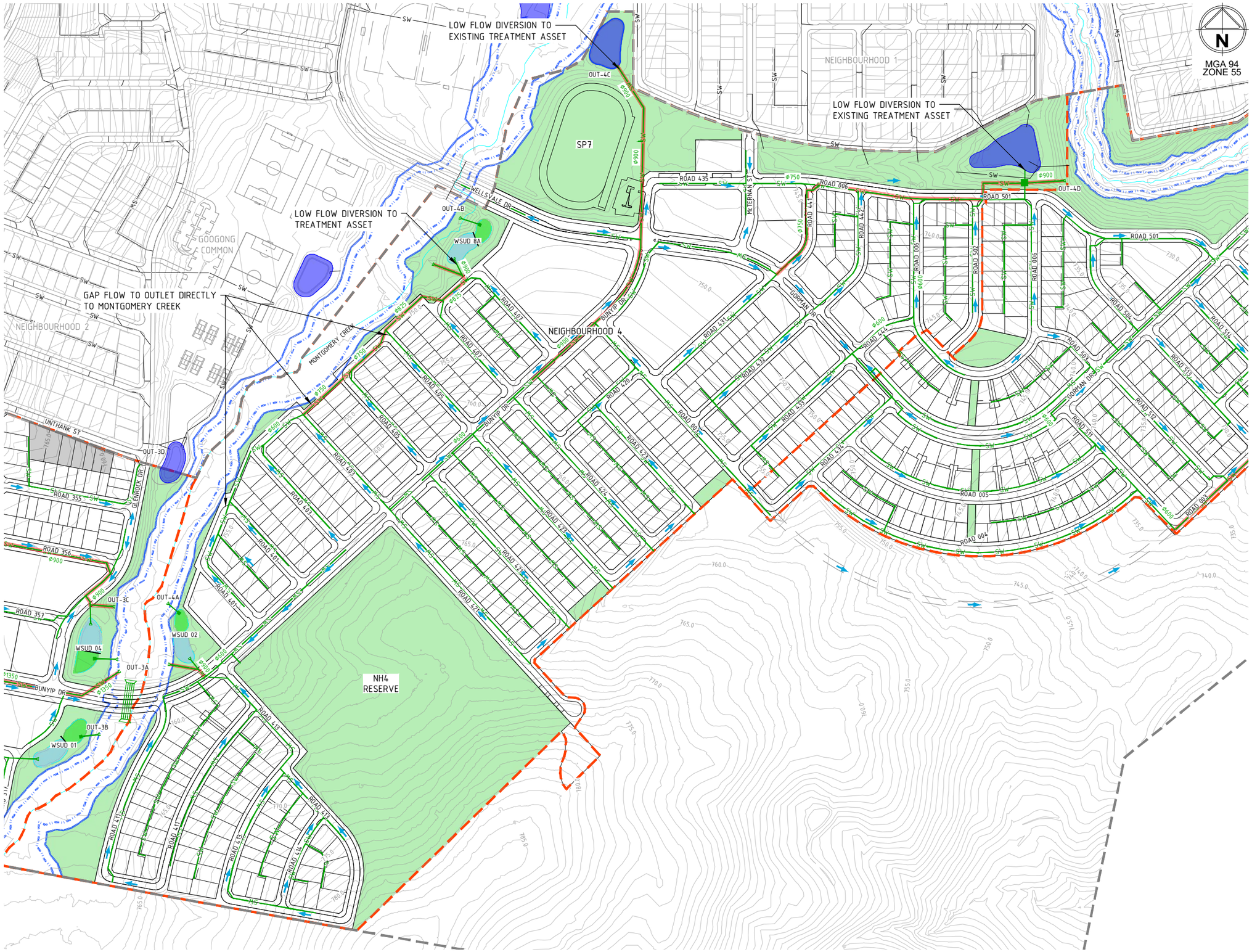
Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRAINAGE CONCEPT MASTER PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA520 Rev B

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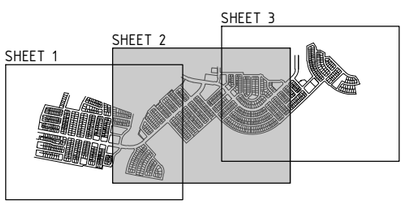


LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVALS
- OPEN SPACE
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- STORMWATER PIPE
- STORMWATER TRUNK – PIPES ≥ Ø750
- BLOCKS TO BE SERVICED BY EXISTING STORMWATER NETWORK
- EXISTING DEVELOPED CATCHMENT CONTRIBUTING TO STORMWATER NETWORK
- STORMWATER PIPE EXISTING
- CATCH DRAIN EXISTING
- BIO RETENTION BASIN
- SEDIMENT BASIN
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- OVERLAND FLOW DIRECTION
- CATCH DRAIN/DIVERSION CHANNEL
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. REFER TO DRAWING 308534CA500 FOR CATCHMENT BOUNDARIES
2. REFER TO DRAWING 308534CA510 FOR CATCHMENT DETAILS AND FLOWS
3. INDICATIVE PIPE SIZES ARE DESIGN TO CONVEY THE MINOR STORM EVENT (20% AEP). IN CERTAIN LOCATION PIPES HAVE BEEN UPSIZED TO CONTROL GAP FLOW IN THE ROAD RESERVE DURING THE MAJOR STORM EVENT (1% AEP)
4. PIPE SIZES TO BE CONFIRMED AT DETAILED DESIGN
5. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

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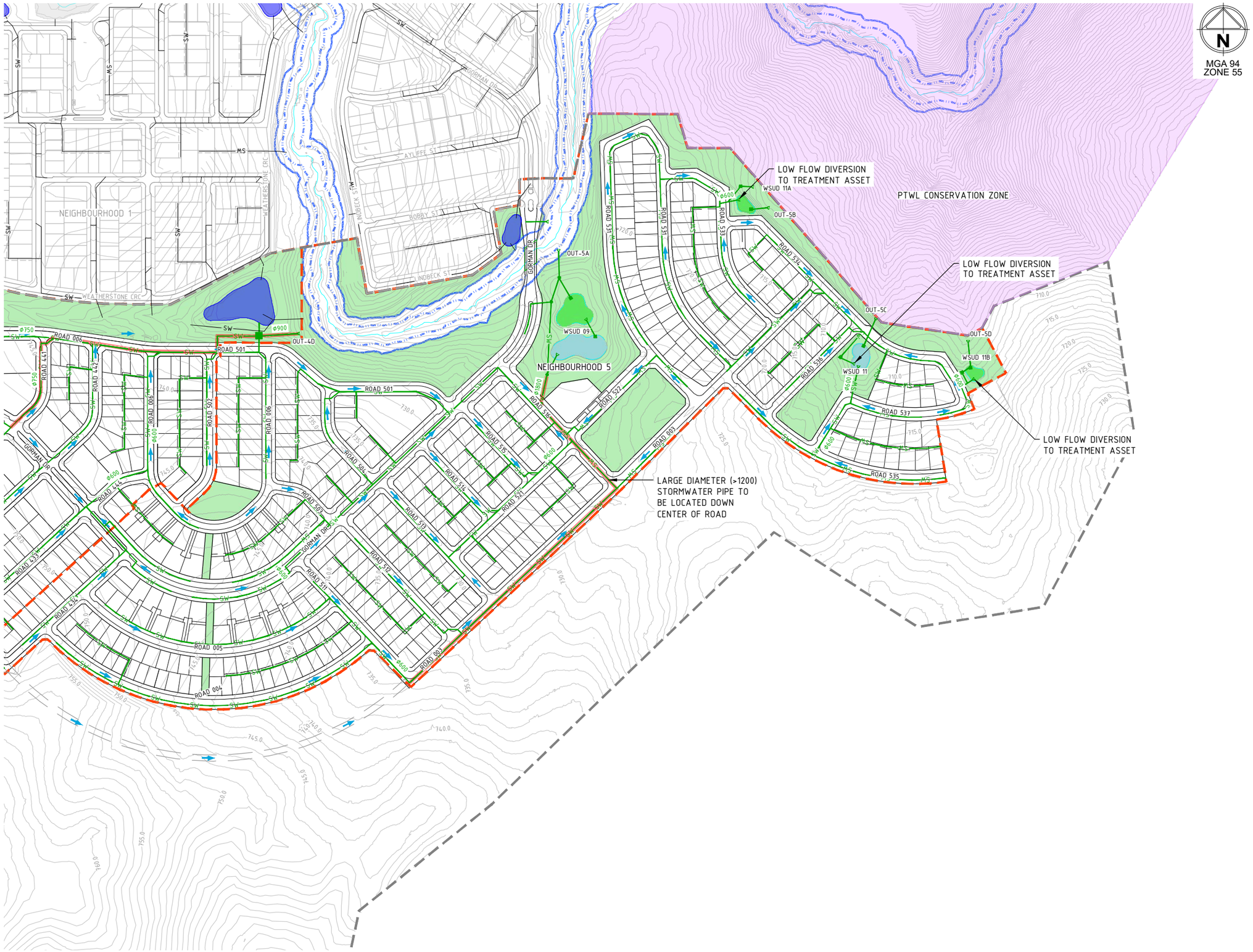
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRAINAGE CONCEPT MASTER PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA521 Rev B

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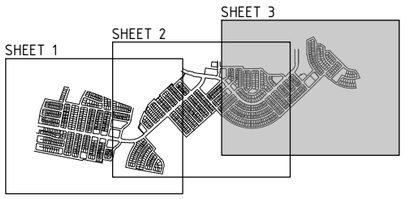
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ZONE 55

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- FINISHED SURFACE CONTOURS – 1.0m MINOR INTERVALS
- OPEN SPACE
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- STORMWATER PIPE
- STORMWATER TRUNK – PIPES ≥ Ø750
- BLOCKS TO BE SERVICED BY EXISTING STORMWATER NETWORK
- EXISTING DEVELOPED CATCHMENT CONTRIBUTING TO STORMWATER NETWORK
- STORMWATER PIPE EXISTING
- CATCH DRAIN EXISTING
- BIO RETENTION BASIN
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- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED
- OVERLAND FLOW DIRECTION
- CATCH DRAIN/DIVERSION CHANNEL
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE

NOTES

1. REFER TO DRAWING 308534CA500 FOR CATCHMENT BOUNDARIES
2. REFER TO DRAWING 308534CA510 FOR CATCHMENT DETAILS AND FLOWS
3. INDICATIVE PIPE SIZES ARE DESIGN TO CONVEY THE MINOR STORM EVENT (20% AEP). IN CERTAIN LOCATION PIPES HAVE BEEN UPSIZED TO CONTROL GAP FLOW IN THE ROAD RESERVE DURING THE MAJOR STORM EVENT (1% AEP)
4. PIPE SIZES TO BE CONFIRMED AT DETAILED DESIGN
5. REFER TO AECOMS DRAWINGS FOR OPEN SPACE DETAILS



KEY PLAN

Rev	Amendments	Approved	Date
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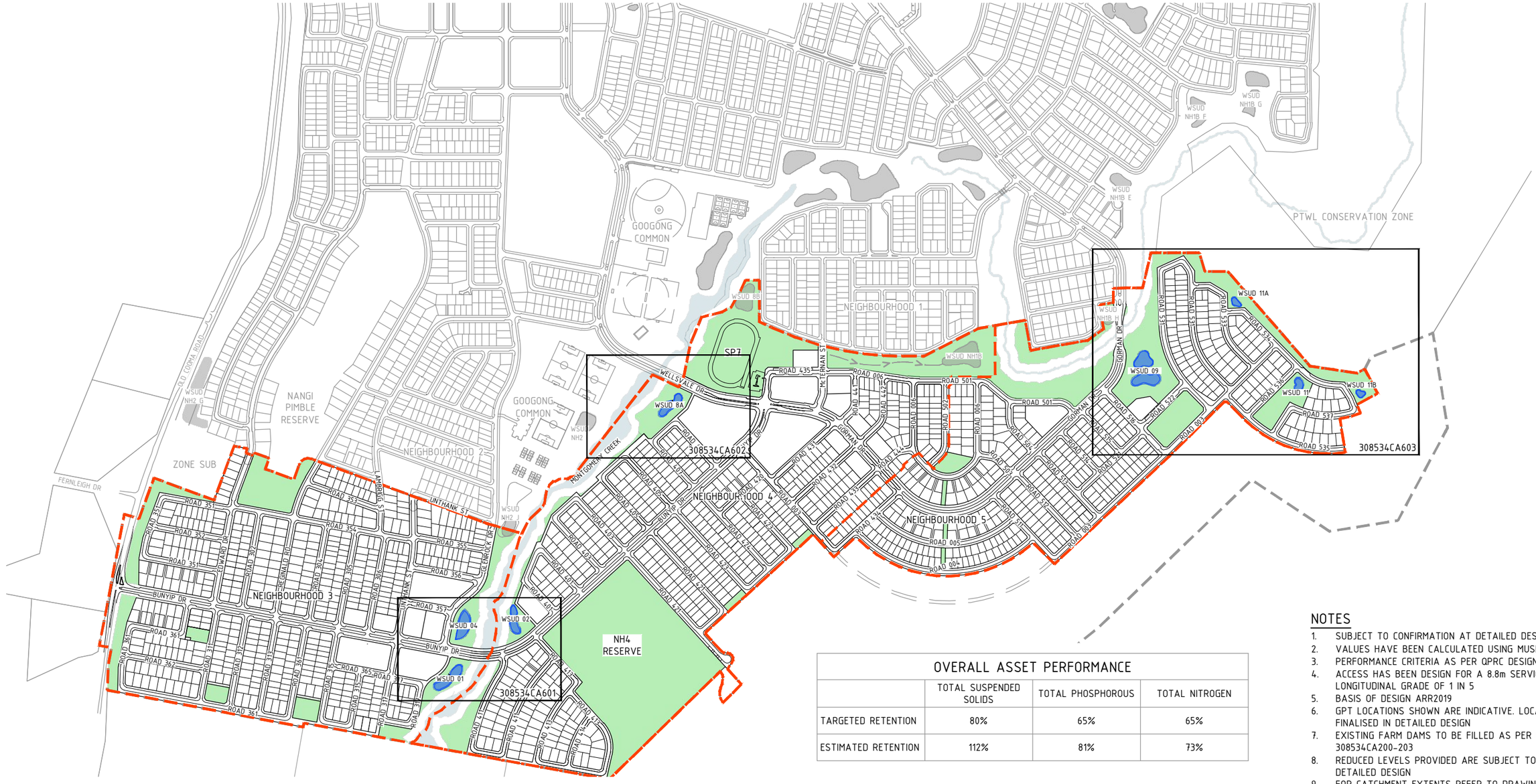
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

DRAINAGE CONCEPT MASTER PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA522** Rev **B**

file name 308534CA520.dwg layout name CA522 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:13 PM Sheet 71 of 98 Sheets



OVERALL ASSET PERFORMANCE

	TOTAL SUSPENDED SOLIDS	TOTAL PHOSPHOROUS	TOTAL NITROGEN
TARGETED RETENTION	80%	65%	65%
ESTIMATED RETENTION	112%	81%	73%

TREATMENT ASSET DETAILS

ASSET NAME	WSUD 01	WSUD 02	WSUD 04	WSUD 08A	WSUD 08B	WSUD NH1B	WSUD 09	WSUD 11	WSUD 11A	WSUD 11B
CATCHMENT NAME	(APPROX. 50% OF 3A) + 3B	4A	(APPROX. 50% OF 3A) + 3C	4B	4C	4D	5A	5C	5B	5D
CATCHMENT TOTAL AREA (Ha)	21.97	20.46	24.37	14.43	19.90	26.60	46.60	12.47	5.20	5.13
PROPOSED TREATMENT	GPT + SED + BRS	GPT + SED + BRS	GPT + SED + BRS	GPT + SED + BRS	GPT + EX. BRS	GPT + EX. BIOSWALE + EX. WETLAND/POND	GPT + SED + BRS	GPT + SED	GPT + BRS	GPT + BRS
SEDIMENT POND SIZE (m^2)	700	560	730	570	-	-	980	480	-	-
BIORETENTION SYSTEM SIZE (m^2)	600	300	550	350	1600	2900	950	-	270	180
WETLAND/POND SYSTEM SIZE (m^2)	-	-	-	-	-	2000	-	-	-	-
DETENTION VOLUME (m^3)	-	-	-	-	-	7657	14650	-	-	-

NOTES

1. SUBJECT TO CONFIRMATION AT DETAILED DESIGN
2. VALUES HAVE BEEN CALCULATED USING MUSIC [VERSION 6.2.1]
3. PERFORMANCE CRITERIA AS PER QPRC DESIGN SPECIFICATION
4. ACCESS HAS BEEN DESIGN FOR A 8.8m SERVICE VEHICLE WITH MAX LONGITUDINAL GRADE OF 1 IN 5
5. BASIS OF DESIGN ARR2019
6. GPT LOCATIONS SHOWN ARE INDICATIVE. LOCATION TO BE FINALISED IN DETAILED DESIGN
7. EXISTING FARM DAMS TO BE FILLED AS PER DRAWINGS 308534CA200-203
8. REDUCED LEVELS PROVIDED ARE SUBJECT TO CONFIRMATION AT DETAILED DESIGN
9. FOR CATCHMENT EXTENTS REFER TO DRAWING 308534CA500

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD BOUNDARY
- OPEN SPACE (REFER TO LANDSCAPE DWGS FOR DETAIL)
- RIPARIAN CHANNEL
- PROPOSED WSUD BASIN
- EXISTING WSUD
- EXISTING BIOSWALE

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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GOOGONG

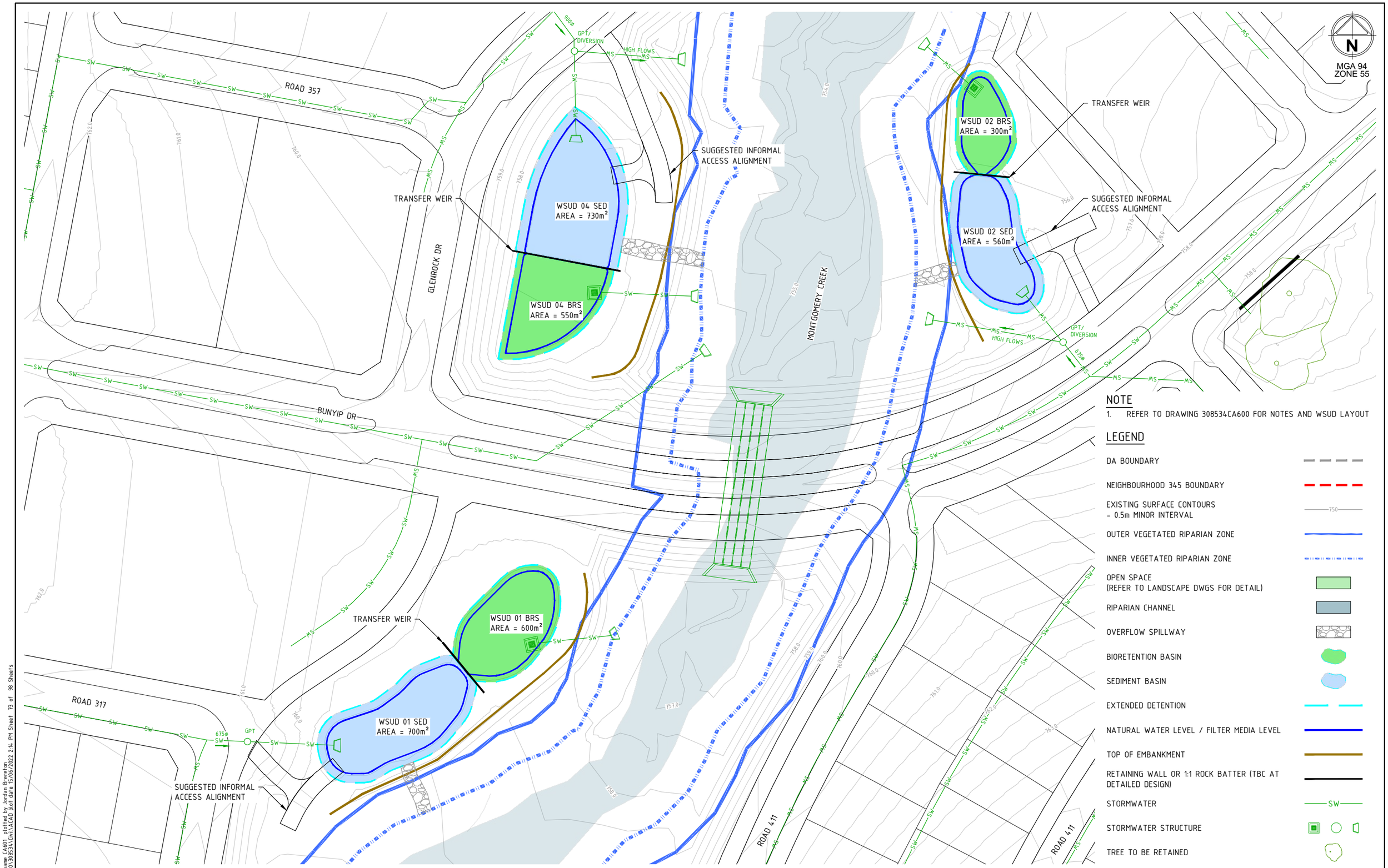
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER SENSITIVE URBAN DESIGN PLAN LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA600 Rev B

file name 308534CA600.dwg layout name CA600 plotted by Jordan Brereton
file location G:\301\308534\Civil\ACAD plot date 15/06/2022 2:14 PM Sheet 72 of 98 Sheets



Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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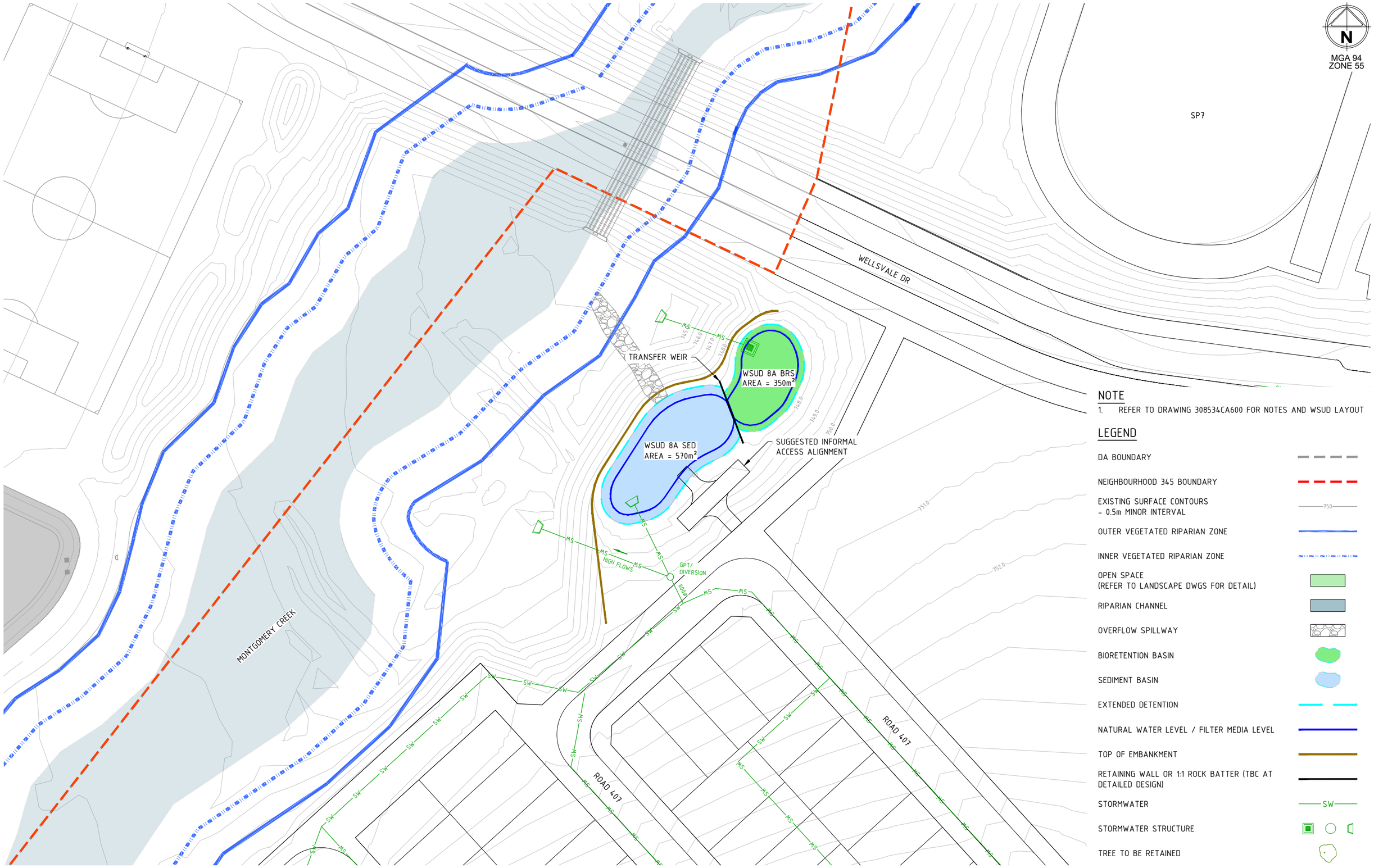
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Checked S.BEFF
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
WATER SENSITIVE URBAN DESIGN PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA601 Rev B

file name 308534CA600.dwg layout name CA601 plotted by Jordan Brereton
file location \\spiire\canberra\data\301\308534\civil\ACAD plot date 15/06/2022 2:14 PM Sheet 73 of 98 Sheets



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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

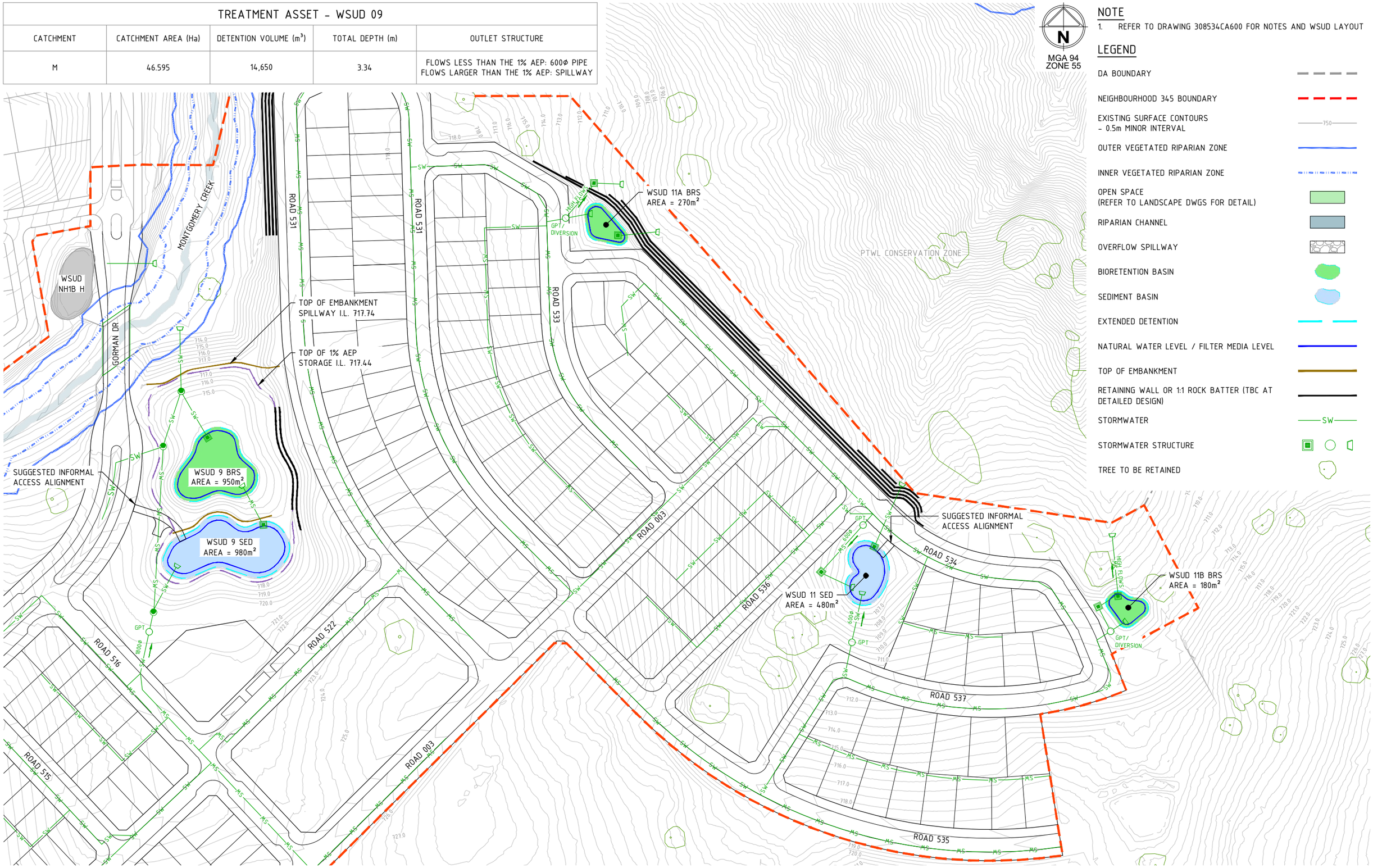
WATER SENSITIVE URBAN DESIGN PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA602 Rev B

file name 308534CA600.dwg layout name CA602 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:14 PM Sheet 74 of 98 Sheets

TREATMENT ASSET - WSUD 09

CATCHMENT	CATCHMENT AREA (Ha)	DETENTION VOLUME (m^3)	TOTAL DEPTH (m)	OUTLET STRUCTURE
M	46.595	14,650	3.34	FLOWS LESS THAN THE 1% AEP: 600ø PIPE FLOWS LARGER THAN THE 1% AEP: SPILLWAY



NOTE

1. REFER TO DRAWING 308534CA600 FOR NOTES AND WSUD LAYOUT

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD 345 BOUNDARY
- EXISTING SURFACE CONTOURS – 0.5m MINOR INTERVAL
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- OPEN SPACE (REFER TO LANDSCAPE DWGS FOR DETAIL)
- RIPARIAN CHANNEL
- OVERFLOW SPILLWAY
- BIORETENTION BASIN
- SEDIMENT BASIN
- EXTENDED DETENTION
- NATURAL WATER LEVEL / FILTER MEDIA LEVEL
- TOP OF EMBANKMENT
- RETAINING WALL OR 1:1 ROCK BATTER (TBC AT DETAILED DESIGN)
- STORMWATER
- STORMWATER STRUCTURE
- TREE TO BE RETAINED

Rev	Amendments	Approved	Date
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Scale

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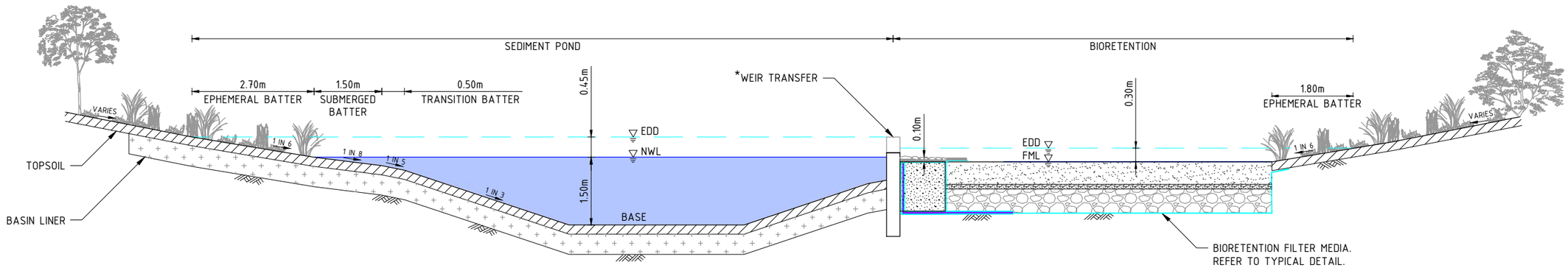
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M.PHILLIPS	S.BEFF
Authorised	**Date**
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER SENSITIVE URBAN DESIGN PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA603** Rev **B**

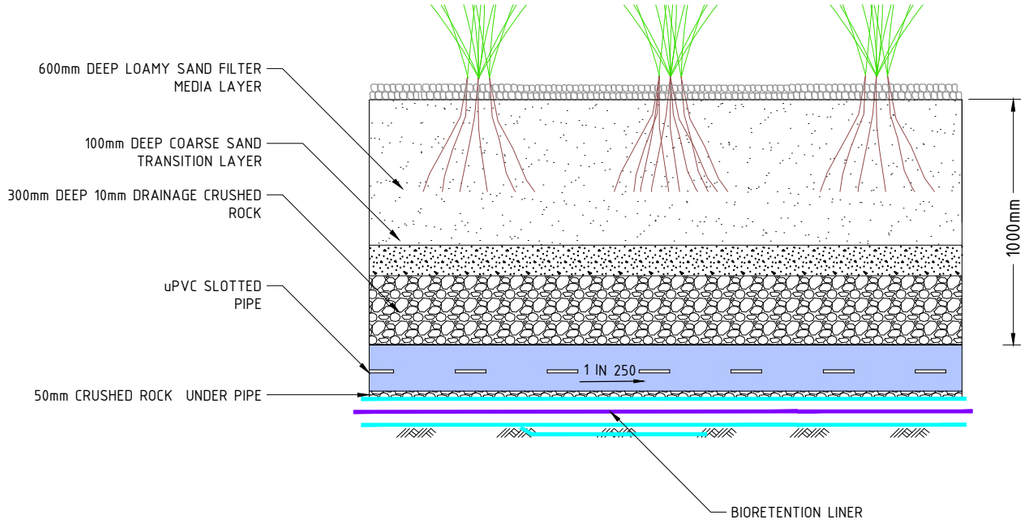
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file location \\spiire\canberra\Data\301\308534\Civil\ACAD plot date 15/06/2022 2:14 PM Sheet 75 of 98 Sheets



WSUD SEDIMENT POND/BIORETENTION BASIN TYPICAL DETAIL

SCALE @A1 1:50

*NOTE: WSUD 09 PROPOSED TO USE PIT AND PIPE RATHER THAN WEIR TRANSFER



BIORETENTION FILTER MEDIA PROFILE TYPICAL DETAIL

(NOT TO SCALE)

NOTES

1. REFER TO DRAWING 308534CA600 FOR WSUD ASSET TREATMENT DETAILS
2. REFER TO DRAWINGS 308534CA600-603 FOR WSUD LAYOUT
3. TYPICAL DETAILS ARE CONCEPT ONLY AND ARE SUBJECT TO DETAILED DESIGN

NOTATION

EDD	EXTENDED DETENTION DEPTH
NWL	NORMAL WATER LEVEL
FML	FILTER MEDIA LEVEL

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A	ISSUED FOR APPROVAL	MB	09/09/21

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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

WATER SENSITIVE URBAN DESIGN DETAILS
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA630 Rev B

file name 308534CA630.dwg layout name CA630 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:14 PM Sheet 76 of 98 Sheets

4x 2400Wx900H RCBC
48m @ MIN. 1%
10° SKEW TO ROAD
TBC AT DETAILED DESIGN

BUNYIP DRIVE

MGA 94
ZONE 55

LEGEND

- DESIGN SURFACE CONTOURS – 0.5m MINOR INTERVALS
- EXISTING SURFACE CONTOURS – 0.5m MINOR INTERVAL
- RIPARIAN CHANNEL
- SHARED TRENCH ALIGNMENT
- SMART CITIES TRENCH ALIGNMENT
- POTABLE WATER MAIN ALIGNMENT
- RECYCLED WATER MAIN ALIGNMENT
- RIP RAP
- BIORETENTION BASIN

NOTE

1. REFER TO DRAWING 308534CA671 FOR RIPARIAN CORRIDOR IMPACTS

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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

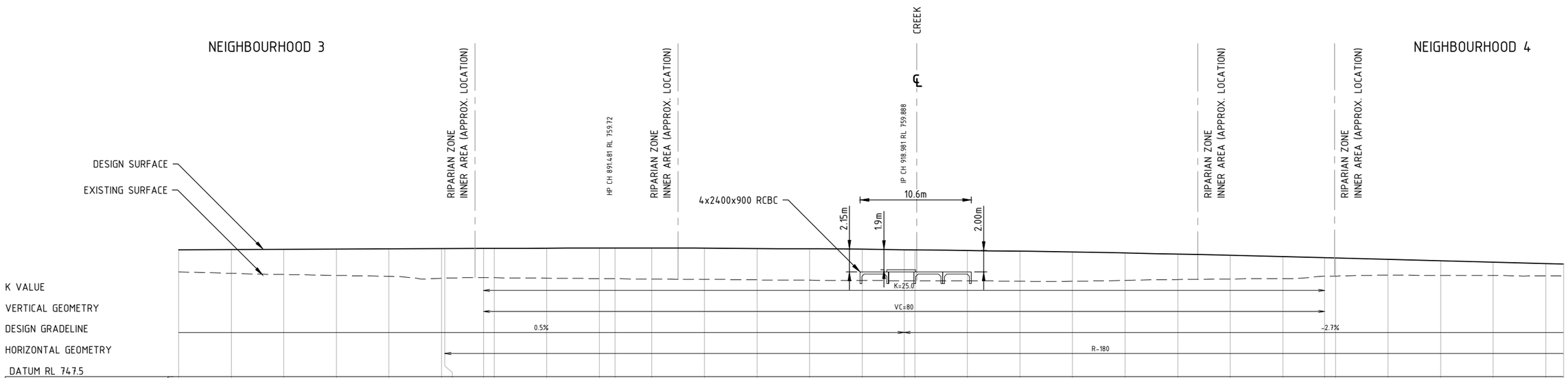
BUNYIP DRIVE CULVERT CROSSING
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA650
Rev B

file name 308534CA650.dwg Layout name CA650 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:15 PM Sheet 77 of 98 Sheets

NOTES

1. REFER TO DRAWING 308534CA650 FOR CHAINAGES ALONG BUNYIP DRIVE
2. CONCEPT ONLY, SUBJECT TO CONFIRMATION AT DETAILED DESIGN

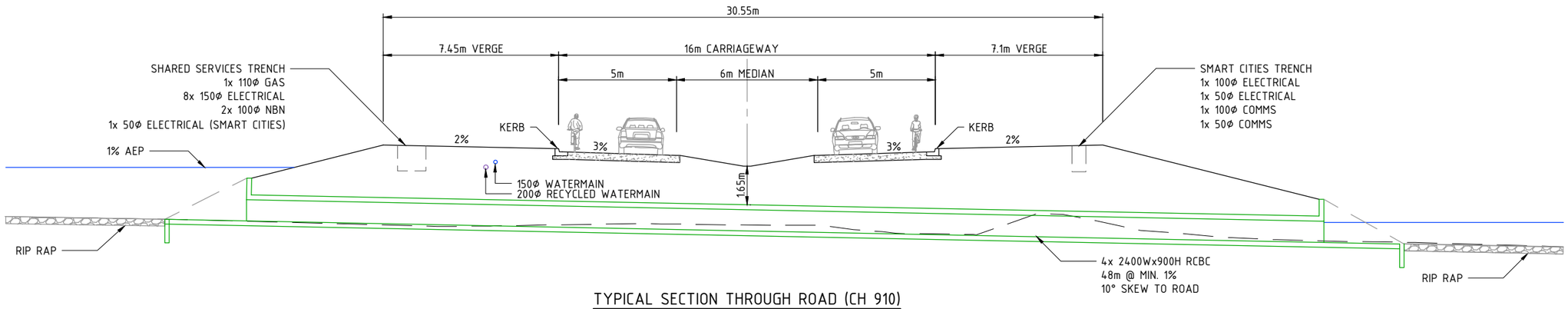


CHAINAGE	DESIGN CENTRELINE	EXISTING SURFACE	DIFFERENCE
850.000	759.543	757.456	-2.088
855.000	759.568	757.321	-2.247
860.000	759.593	757.206	-2.388
865.000	759.618	757.121	-2.498
870.000	759.643	757.036	-2.607
875.000	759.668	756.847	-2.821
875.307	759.670	756.859	-2.811
878.981	759.688	756.904	-2.784
880.000	759.693	756.899	-2.794
885.000	759.711	756.860	-2.851
890.000	759.719	756.818	-2.901
891.481	759.720	756.806	-2.914
895.000	759.717	756.776	-2.941
900.000	759.705	756.742	-2.963
905.000	759.683	756.694	-2.989
910.000	759.651	756.660	-2.991
915.000	759.609	756.635	-2.974
918.981	759.568	756.615	-2.953
920.000	759.557	756.610	-2.947
925.000	759.495	756.615	-2.879
930.000	759.423	756.567	-2.856
935.000	759.341	756.561	-2.780
940.000	759.249	756.651	-2.597
945.000	759.147	756.730	-2.417
950.000	759.035	756.781	-2.254
955.000	758.913	756.815	-2.098
958.981	758.808	757.047	-1.761
960.000	758.781	757.056	-1.725
965.000	758.646	757.147	-1.498
970.000	758.511	757.115	-1.396
975.000	758.376	757.119	-1.257
980.000	758.241	757.081	-1.159

HORIZ. SCALE:200
VERTICAL SCALE:200

BUNYIP DRIVE LONGITUDINAL SECTION

SCALE @A1 1:200



TYPICAL SECTION THROUGH ROAD (CH 910)

SCALE @A1 1:100

Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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GOOGONG

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Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

BUNYIP DRIVE CULVERT CROSSING SECTIONS

QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA651 Rev B

file name 308534CA650.dwg, layout name CA651, plotted by Jordan Brereton
file location \\spiire\canada\data\301\308534\civil\ACAD plot date 15/06/2022 2:15 PM Sheet 78 of 98 Sheets

BOBBY ST

LINDBECK ST

MONTGOMERY CREEK

GORMAN DR

WSUD
NH1B H

1609.7

1600.0

1580.0

1560.0

1540.0

1520.0

1500.0

1m HIGH RETAINING WALL ALONG ROAD RESERVE EDGE TO MEET EXISTING OPEN SPACE LEVELS

SEWER ALIGNMENT

SHARED TRENCH ALIGNMENT

BRIDGE ABUTMENT

BRIDGE ABUTMENT

28m

WATERMAIN ALIGNMENTS

711.0

712.0

713.0

714.0

715.0

716.0

717.0

717.0

716.0

715.0

713.0

MONTGOMERY CREEK

N

MGA 94
ZONE 55

LEGEND

DESIGN SURFACE CONTOURS
- 0.5m MINOR INTERVALS — 750.0

EXISTING SURFACE CONTOURS
- 0.5m MINOR INTERVAL — 750

RIPARIAN CHANNEL

SHARED TRENCH ALIGNMENT

WATER MAIN - POTABLE — W

WATER MAIN - RECYCLED — W

SEWER MAIN ALIGNMENT — S

EXISTING WATER - POTABLE — W

EXISTING WATER - RECYCLED — W(R)

EXISTING SEWER MAIN — S

EXISTING STORMWATER — SW

NOTES

1. REFER TO DRAWING 308534CA673 FOR RIPARIAN CORRIDOR IMPACTS
2. REFER TO AECOM DRAWINGS FOR BUSHWALKING TRACK ALONG MONTGOMERY CREEK

Rev	Amendments	Approved	Date
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Scale

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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

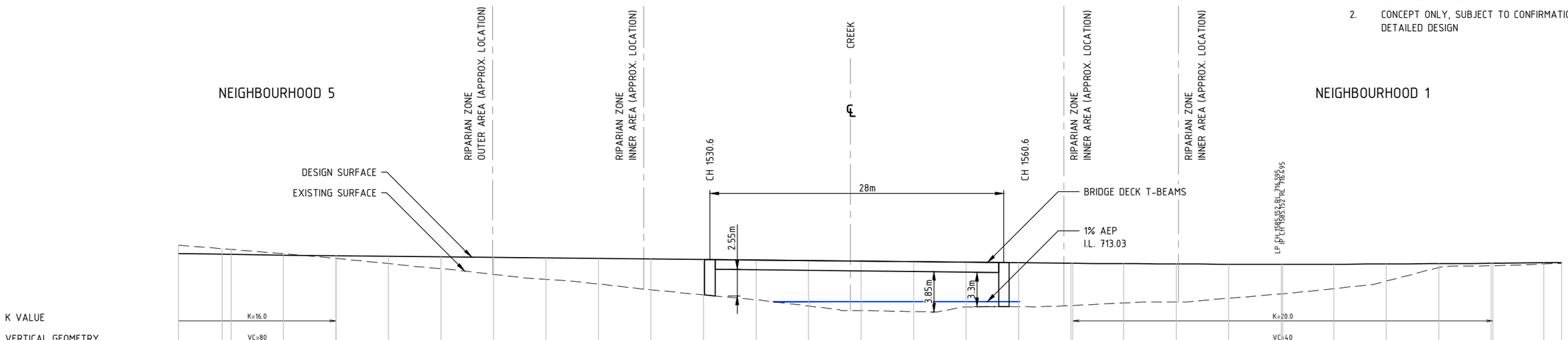
GORMAN DRIVE BRIDGE CROSSING
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA655 Rev B

file name 308534CA655.dwg layout name CA655 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:16 PM Sheet 79 of 98 Sheets

NOTES

1. REFER TO DRAWING 308534CA655 FOR CHAINAGES ALONG GORMAN DRIVE
2. CONCEPT ONLY, SUBJECT TO CONFIRMATION AT DETAILED DESIGN

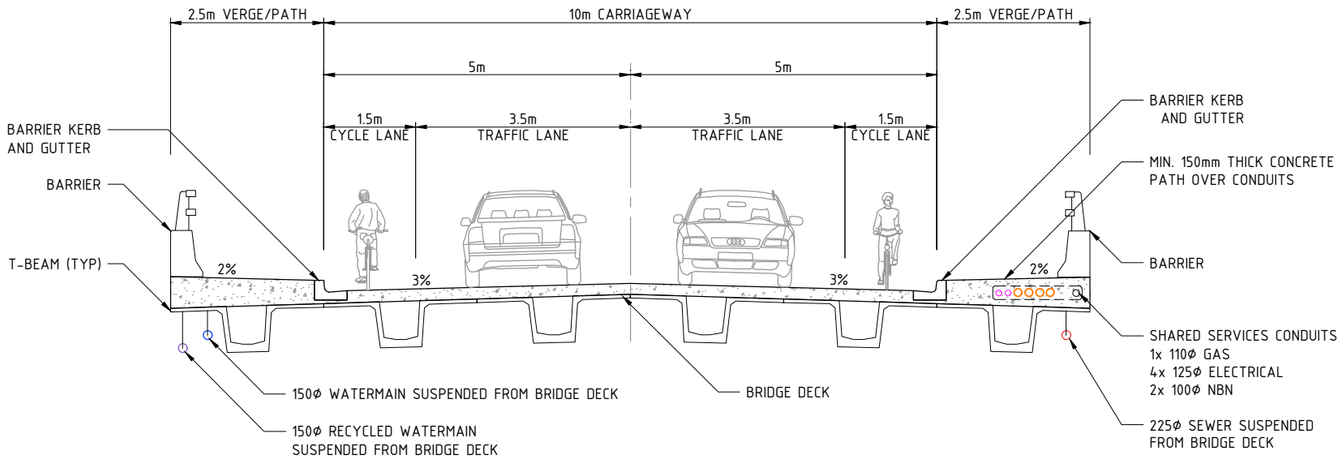


CHAINAGE	DESIGN CENTRELINE	EXISTING SURFACE	DIFFERENCE
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1484.173	717.542	718.070	0.528
1485.000	717.528	718.003	0.475
1490.000	717.455	717.602	0.147
1494.993	717.397	717.151	-0.246
1495.000	717.397	717.150	-0.247
1500.000	717.347	716.656	-0.691
1505.000	717.297	716.178	-1.119
1510.000	717.247	715.644	-1.603
1515.000	717.197	715.152	-2.045
1520.000	717.147	714.715	-2.432
1525.000	717.097	714.167	-2.930
1530.000	717.047	713.677	-3.370
1535.000	716.997	713.223	-3.774
1540.000	716.947	712.627	-4.320
1545.000	716.897	712.191	-4.706
1550.000	716.847	712.080	-4.767
1555.000	716.797	712.525	-4.272
1560.000	716.747	712.548	-4.199
1565.000	716.697	712.664	-4.033
1565.152	716.695	712.670	-4.025
1570.000	716.653	712.907	-3.746
1575.000	716.621	712.991	-3.630
1580.000	716.602	713.358	-3.244
1585.000	716.595	713.778	-2.818
1585.152	716.595	713.790	-2.805
1590.000	716.601	714.275	-2.327
1595.000	716.620	714.998	-1.622
1600.000	716.651	716.293	-0.358
1605.000	716.694	716.459	-0.235
1605.152	716.695	716.463	-0.232
1610.000	716.744	716.622	-0.122

HORIZ. SCALE:200
VERTICAL SCALE:200

GORMAN DRIVE LONGITUDINAL SECTION

SCALE @A1 1:200



TYPICAL SECTION THROUGH BRIDGE

SCALE @A1 1:50

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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GOOGONG

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Authorised M.BOMBEN
Date 09/09/2021

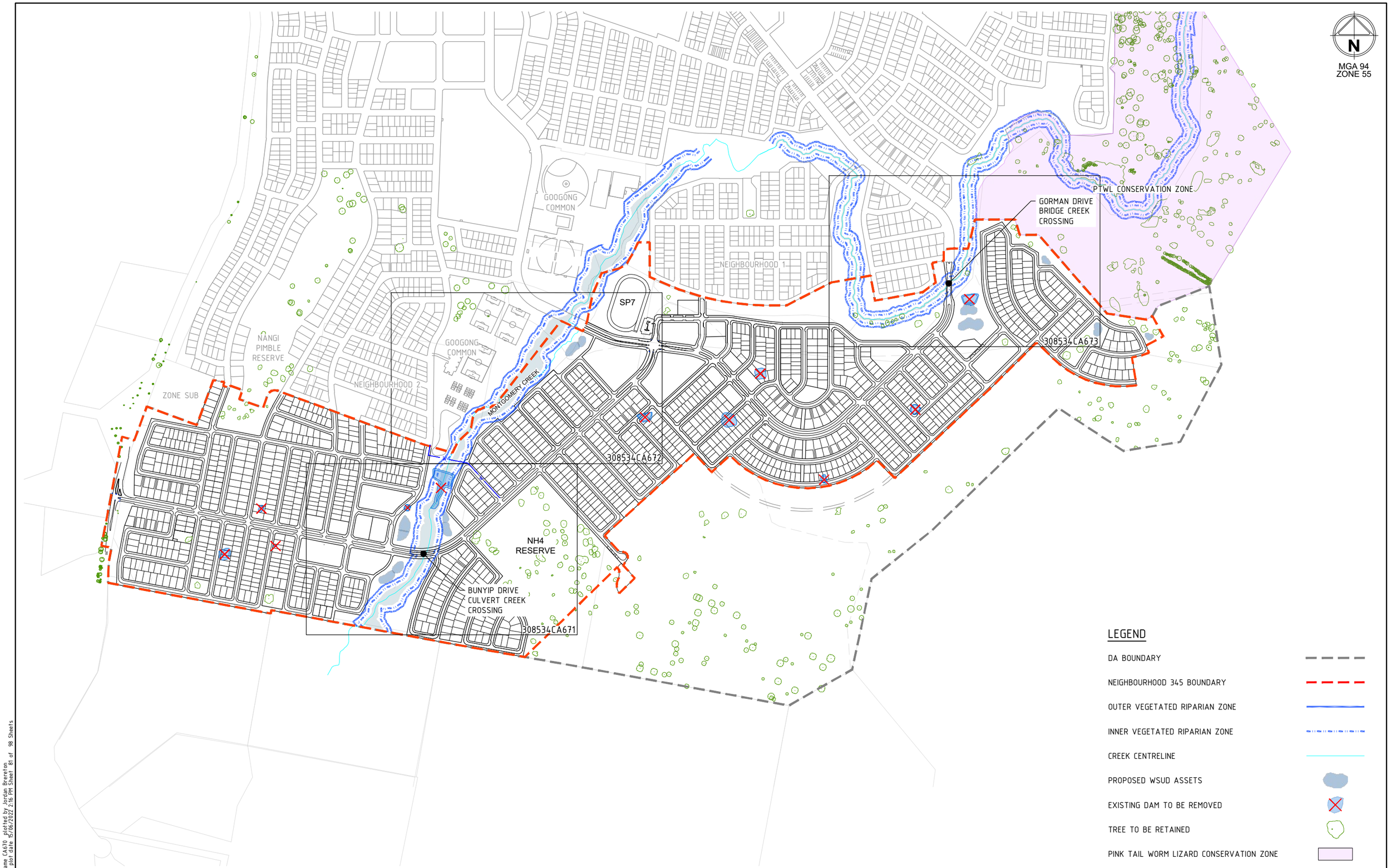
GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

GORMAN DRIVE BRIDGE CROSSING SECTIONS

QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA656
Rev B

file name 308534CA655.dwg layout name CA656 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\civil\ACAD plot date 15/06/2022 2:16 PM Sheet 80 of 98 Sheets



LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD 345 BOUNDARY
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- CREEK CENTRELINE
- PROPOSED WSUD ASSETS
- EXISTING DAM TO BE REMOVED
- TREE TO BE RETAINED
- PINK TAIL WORM LIZARD CONSERVATION ZONE

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

RIPARIAN CORRIDOR PLAN
LAYOUT
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA670 Rev B

file name 308534CA670.dwg Layout name CA670 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:16 PM Sheet 81 of 98 Sheets



LEGEND

- NEIGHBOURHOOD 345 BOUNDARY
- DESIGN SURFACE CONTOURS – 0.5m MINOR INTERVAL (757)
- GRADING LIMITS
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- CREEK CENTRELINE
- PROPOSED WSUD ASSETS
- EXISTING FARM DAM TO BE REMOVED & CREEK REHABILITATED
- EXISTING DAM TO BE REMOVED
- TREE TO BE RETAINED
- PINK TAIL WORM LIZARD CONSERVATION ZONE
- SWAMPY MEADOW
- OFFSET AREA TOTAL 3,774m²
- CREEK CROSSING DISTURBANCE AREA TOTAL 9,240m²
- ENCROACHMENT AREA TOTAL 2,918m²

Rev	Amendments	Approved	Date
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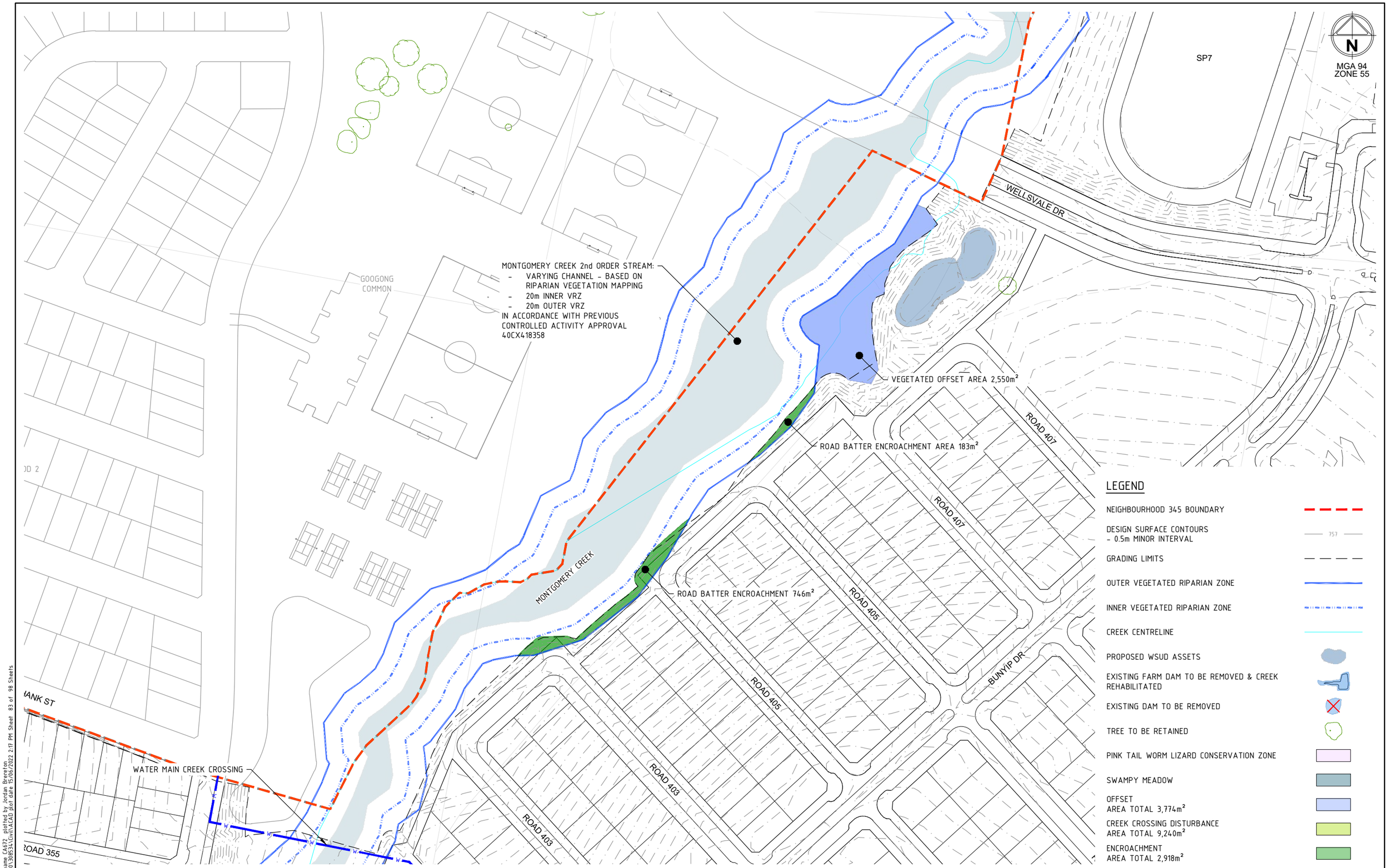
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

RIPARIAN CORRIDOR PLAN
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

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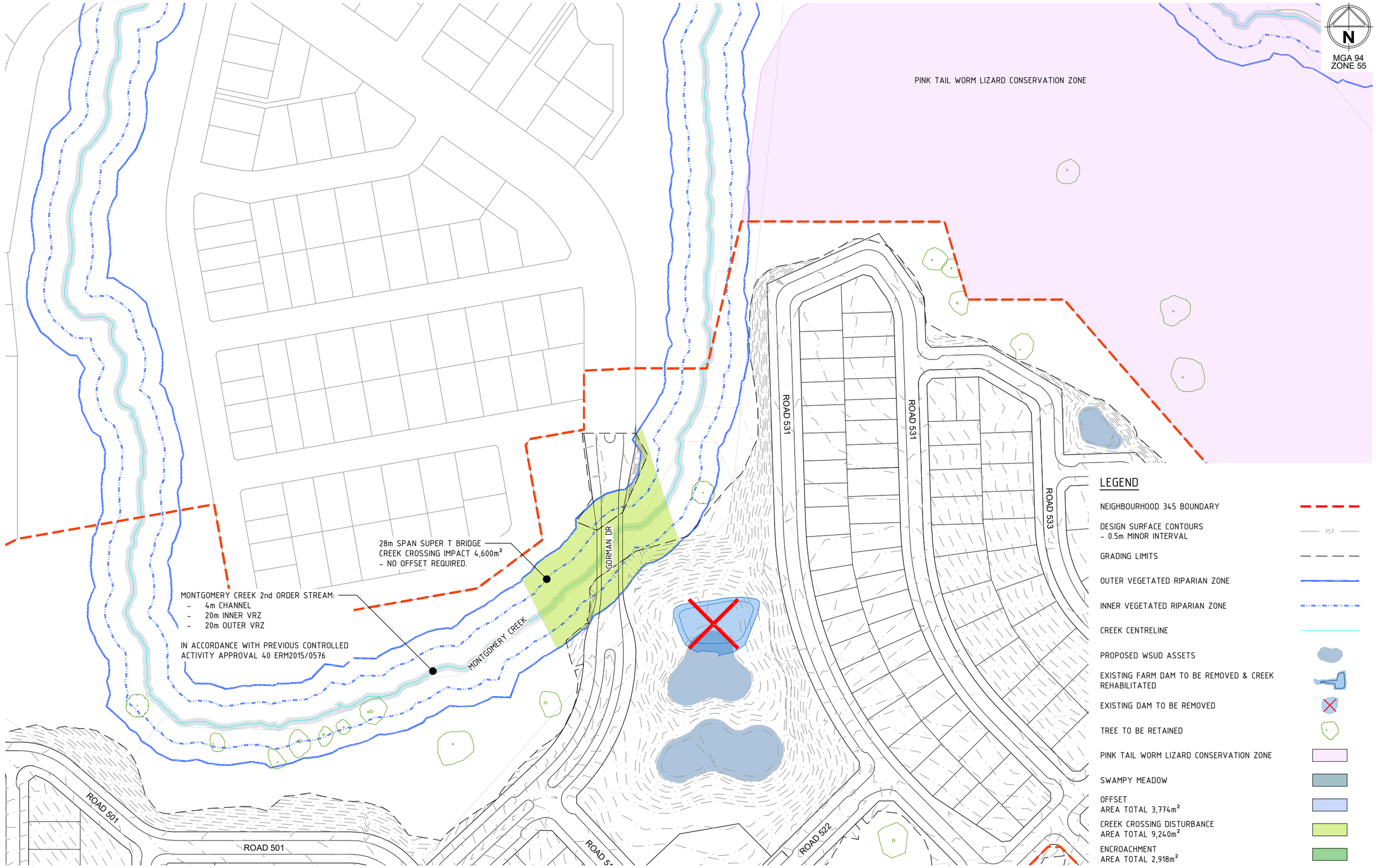
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

RIPARIAN CORRIDOR PLAN
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA672 Rev B

file name 308534CA670.dwg layout name CA672 plotted by Jordan Brereton
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

RIPARIAN CORRIDOR PLAN
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

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GENERAL NOTES

1. THIS DRAWING TYPIFIES THE EROSION CONTROL PRINCIPLES REQUIRED FOR WORKS WITHIN THE QUEANBEYAN PALARANG REGIONAL COUNCIL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN, CONSTRUCT AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES TO COMPLY WITH THE REQUIREMENTS OF THE QPRC SPECIFICATION C211 – CONTROL OF EROSION AND SEDIMENTATION, VERSION 1 JANUARY 2019.
2. VARIATIONS TO APPROVED CONCEPTS AND PROPOSALS ARE TO BE ENDORSED BY QPRC PRIOR TO IMPLEMENTATION.
3. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED AS PER THE MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION, 4TH EDITION. 2004.

PRE CONSTRUCTION PHASE

1. CONSTRUCT STABILISED DRIVEWAY ENTRANCES.
2. CONSTRUCT SEDIMENT BASINS, DIVERSION CATCH DRAINS, DIVERSION BANKS OR OTHER DIVERSION WORKS AS REQUIRED. GRASS EMBANKMENTS AND INVERTS. PLACE BITUMEN STABILISED STRAW MULCH AND JUTE MESH TO WHITE WATER DRAINS.
3. CONSTRUCT SILT FENCES AND COMBINED HAY BALE/SILT FENCES AS REQUIRED.

CONSTRUCTION PHASE

1. THE WORKS SHALL BE PLANNED TO ENSURE THAT A MINIMUM AREA OF THE SITE IS DISTURBED AT ANY ONE TIME.
2. ALL OVERLAND FLOW CHANNELS SHALL BE TOPSOILED, GRASSED AND MULCHED IMMEDIATELY AFTER THEIR COMPLETION.
3. ALL EARTHWORKS SHALL BE CARRIED OUT EXPEDITIOUSLY, TOPSOILED, GRASSED AND MULCHED IMMEDIATELY ON COMPLETION. SITE RESTORATION SHALL BE CARRIED OUT PROGRESSIVELY AS THE WORKS PROCEED.
4. ALL AREAS OF THE SITE BEYOND EARTHWORKS AND DRAINAGE WORKS LIMITS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
5. SILT FENCES ARE TO BE CONSTRUCTED ON THE DOWNSTREAM SIDE OF ANY STOCKPILES THAT DO NOT HAVE A GRASSED BUFFER OF 20m OF UNDISTURBED NATURAL VEGETATION.
6. PLACE SILT FENCES ACROSS FLOW PATHS DURING CONSTRUCTION STAGING WHERE INTERMEDIATE SILT FENCES CAN BE DOWNSTREAM OF CONSTRUCTION ZONE.
7. ALL TRUCKS EXPORTING MATERIALS OFF SITE SHALL HAVE THE LOAD COVERED.

POST CONSTRUCTION PHASE

1. FILL DIVERSIONS AND STABILISE DISTURBED AREAS.
2. SILT FENCES FOR BLOCKS AND STABILISED DRIVEWAY ENTRANCES ARE TO REMAIN AFTER CONSTRUCTION.

SEDIMENT CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOPSOIL.
2. STOCK PILE/S TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCK PILES TO MINIMISE EROSION.
3. STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP.
4. CONTRACTOR IS TO ESTABLISH A MAINTENANCE PROGRAM FOR SEDIMENT AND EROSION CONTROL DEVICES TO ENSURE INSPECTION BEFORE AND AFTER SIGNIFICANT RAINFALL AND THAT ANY REPAIRS NECESSARY ARE QUICKLY ATTENDED TO.
5. ACCESS TO SITE IS TO BE LIMITED DURING AND IMMEDIATELY AFTER WET WEATHER.
6. CONTRACTOR TO REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
7. NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED IN VERGES OR OPEN SPACE WITHOUT QRPC APPROVAL.
8. NO SITE SHEDS, STORAGE SHEDS, SITE AMENITIES TO BE ERECTED ON VERGES OR OPEN SPACE WITHOUT QRPC APPROVAL.
9. CONTRACTOR TO PROVIDE KERBSIDE FILTER ROLL TO EXISTING DOWNSTREAM SUMPS. KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT AROUND SUMPS ALSO TO BE REMOVED. CLEANING IS TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
10. EXCESS SOIL IS TO BE DISPOSED AT A LOCATION APPROVED BY SUPERINTENDENT. ALL BUILDING MATERIAL AND WASTE STOCKPILES SHALL BE LOCATED WITHIN A WASTE ENCLOSURE OR WASTE CONTAINMENT AREA ON THE SITE.

SEDIMENT BASINS

1. SEDIMENT BASINS SHALL BE FULLY MAINTAINED BY THE CONTRACTOR UNTIL THE DISTURBED CATCHMENT AREA IS PROTECTED AGAINST EROSION BY PERMANENT STABILISATION. PROTECTION SHALL BE PROVIDED FOR THE FINAL LANDSCAPE WORKS UTILISING SILT CONTROL FENCING.
2. THE SEDIMENT BASIN SHALL BE CLEANED OUT WHEN THE VOLUME REMAINING IS REDUCED BY SEDIMENTATION TO 90%.
3. THE EMBANKMENT SHALL BE STABILISED WITH HESSIAN TEMPORARILY.
4. QRPC TO BE ADVISED OF PROPOSED POND DISCHARGE PRIOR TO DISCHARGE.
5. BASINS TO BE GRASSED.

MAINTENANCE SCHEDULE

MONTHLY:
1. TURN OVER STABILISED CONSTRUCTION ENTRY MATERIAL AND TOP UP AS REQUIRED.

WEEKLY:
2. CHECK AND REINSTATE SILT CONTROL DEVICES.
3. MONITOR CONDITION AND STORAGE VOLUMES OF ALL SEDIMENT AND TEMPORARY SEDIMENT BASINS

DAILY:
4. SWEEP AND REMOVE ANY DIRT TRACKED ONTO PUBLIC ROADS BY VEHICLES. ALL NECESSARY STEPS SHOULD BE TAKEN THAT ARE PRACTICAL AND REASONABLE TO MINIMISE DUST POLLUTION FROM THE SITE.
5. CHECK WEATHER REPORT AT www.bom.gov.au FOR ANTICIPATED PRECIPITATION.
6. EMPTY TEMPORARY SEDIMENT BASINS IF STORM EVENT IS FORECAST OR IMMINENT.

DUST MANAGEMENT

1. A WATER CART/S OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE IN DRY AND WINDY CONDITIONS TO MAINTAIN DUST SUPPRESSION.
2. WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES.
3. STOCKPILES SHALL BE EITHER COVERED OR SEEDED TO PREVENT DUST.
4. AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO PREVENT FURTHER EROSION.
5. THE CONTRACTOR SHALL CONTACT QRPC TO OBTAIN AN EXEMPTION TO USE WATER ON THE SITE.
6. IN THE EVENT OF HIGH WINDS, WHERE DUST CANNOT BE CONTROLLED, WORK SHALL CEASE IMMEDIATELY.

CONTROL OF WASTE

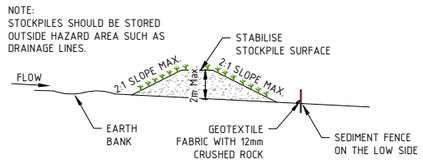
1. ALL BUILDING MATERIAL AND WASTE STOCKPILES MUST BE LOCATED ON SITE. THE WASTE ENCLOSURE IS TO BE USED AND IS TO BE CAPABLE OF HOLDING ALL WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF IN AN APPROPRIATE MANNER.

EXPORT OF SOIL

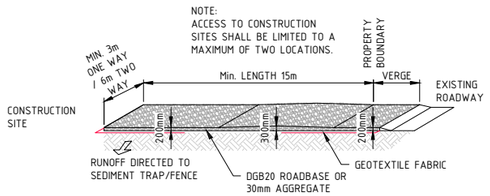
1. IF SOIL IS TO BE REMOVED FROM OR IMPORTED TO SITE, THE DETAILS OF THE ORIGIN OF THE SOIL IMPORTED OR THE LOCATION WHERE THE SOIL IS TO BE EXPORTED ARE TO BE PROVIDED TO QRPC A MINIMUM OF 2 WEEKS IN ADVANCE OF THE WORK.

DESIGN BASIS

1. THE PRINCIPLES OF THESE PLANS ARE BASED ON THE MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION, 4TH EDITION. 2004 GUIDELINES.

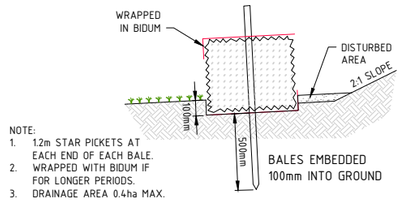


TYPICAL TOPSOIL STOCKPILES

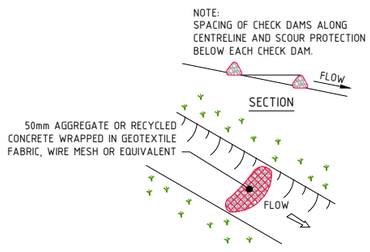


TEMPORARY CONSTRUCTION EXIT

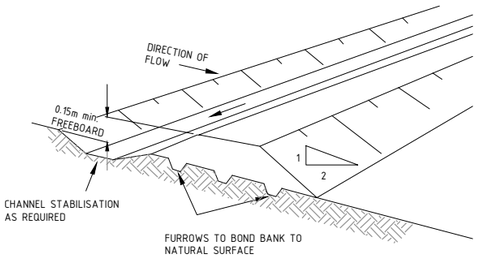
STABILISED ACCESS POINT



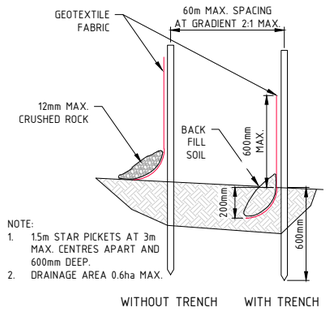
STRAW BALE SEDIMENT FILTER



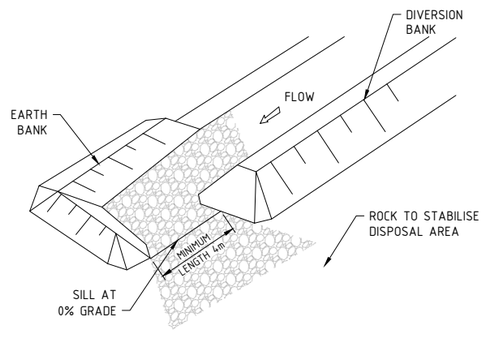
ROCK BUND/GABION CHECK DAM



DIVERSION BANK AND CHANNEL



SEDIMENT FENCE



LEVEL SPREADER

NEIGHBOURHOOD	CATCHMENT ASSET	STORAGE ZONE VOLUME (m3 / 3 MONTHS)	REQUIRED BASIN VOLUME (m3)	BASIN VOLUME (m3)
NH3	SB 1	328	2,495	3,500
	SB 4	716	3,461	3,500
	SB 12	230	1,458	1,600
	EX. J	24	313	1,882
NH4	SB 2	403	1,530	2,600
	SB 8A	568	2,157	6,000
	EX. 8B	297	1,886	2,000
	EX. NH1B	135	857	3,500
NH5	SB 09	1,053	6,688	7,000
	SB 11	401	1,254	1,400
	SB 11A	116	361	400

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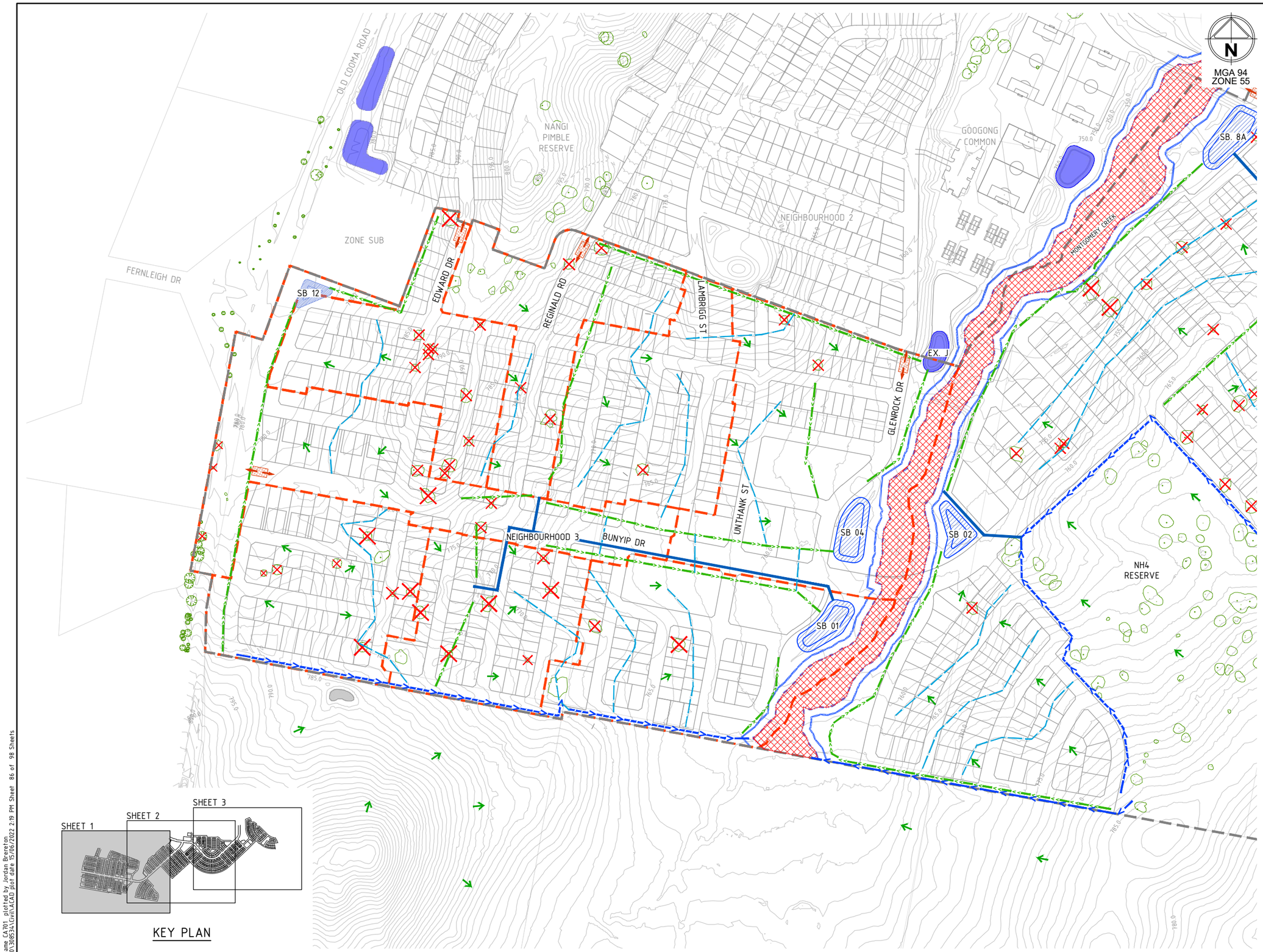
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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
SOIL & WATER MANAGEMENT PLAN
GENERAL NOTES AND DETAILS
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA700** Rev **B**



KEY PLAN

LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- EXISTING SURFACE CONTOUR – 1.0m MINOR INTERVAL
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- STABILISED ACCESS
- CLEAN WATER DIVERSION
- CONSTRUCTION SWALE
- SLOPE BREAK
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED

PHASE 1: BULK EARTHWORKS

DESCRIPTION OF WORKS DURING PHASE
- SITE STRIPPING
- CLEARING AND GRUBBING
- BULK EARTHWORKS

DESCRIPTION OF CONTROLS
- CLEAR WATER DRAINS TO DIVERT EXTERNAL CATCHMENTS FLOWS AROUND DISTURBED SITE AREA
- CONSTRUCTION SWALE TO DIVERT INTERNAL DISTURBED AREA FLOWS TO TEMPORARY SEDIMENT BASIN
- CONSTRUCTION SWALES TO DIVERT FLOWS TO EXISTING FARM DAMS
- SLOPE BREAKS (CONSTRUCTION SWALES OR SILT FENCING) USED TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED SITE DURING RAIN EVENTS
- OUTFLOW PIPES USED TO REDUCE INTER-STAGE OVERLAND FLOW
- STABILISED SITE ENTRIES TO BE PROVIDE AT ALL ENTRANCES AND EXITS TO SITE
- SILT FENCE TO BE USED AROUND STOCKPILES AND COMPOUNDS
- STRAW BALES AND ROCK CHECK DAMS TO BE USED TO SLOW FLOW THROUGH CLEAR WATER DRAINS AND CONSTRUCTION SWALES AS REQUIRED

NOTES

1. ONLY APPROVED WORKS TO OCCUR IN NO GO ZONE
2. PHASE 1 CONTROLS TO BE GRADUALLY PHASED INTO PHASE 2 CONTROLS AS OVERLAND FLOW PATHS ARE ALTERED TO THE FINISHED SURFACE
3. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN
4. FOR BASIN SIZING REFER TO DRAWING 308534CA700

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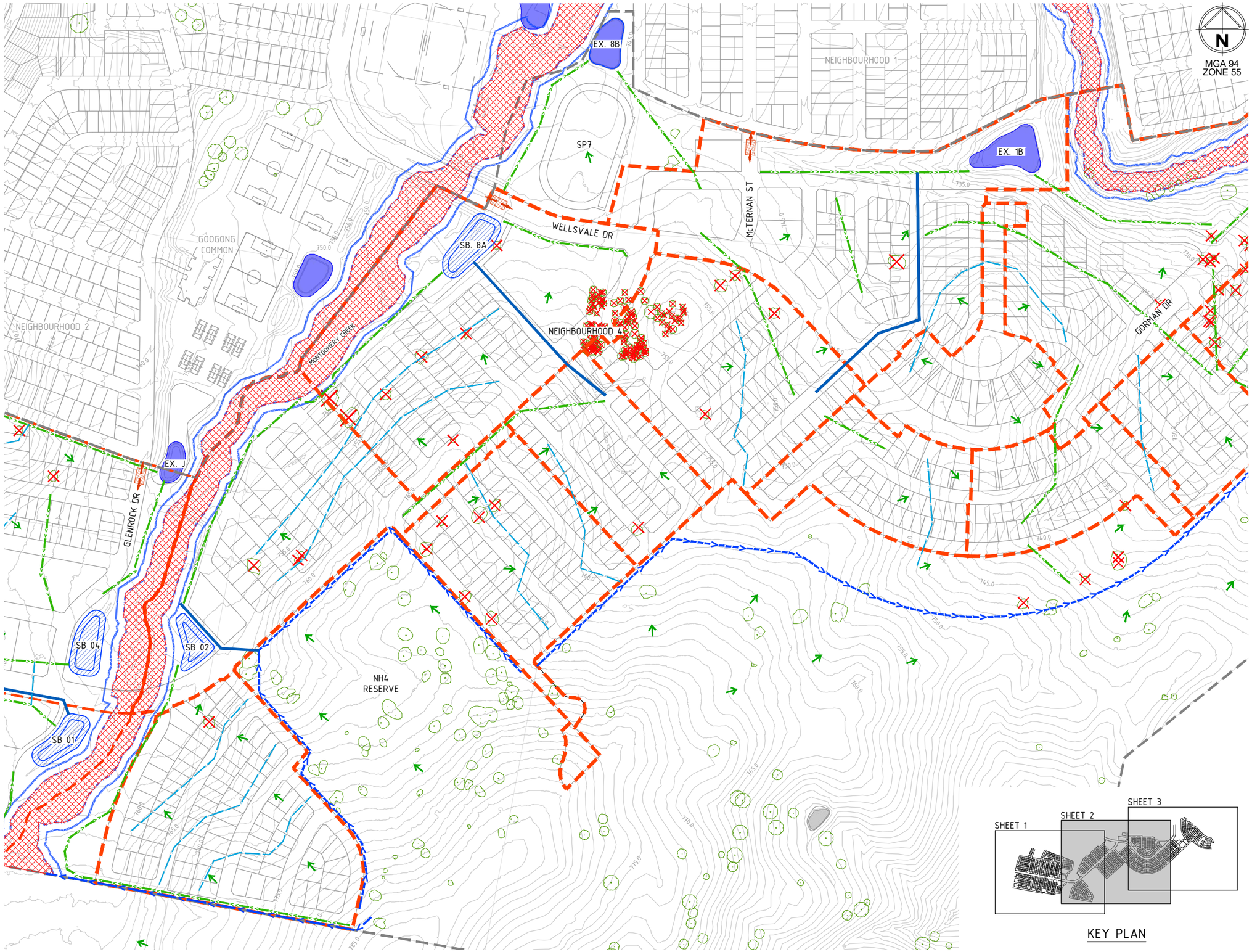
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 1 - SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA701** Rev **B**

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N

MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- EXISTING SURFACE CONTOUR – 1.0m MINOR INTERVAL
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- OUTER VEGETATED RIPARIAN ZONE
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- STABILISED ACCESS
- CLEAN WATER DIVERSION
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- SLOPE BREAK
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED

PHASE 1: BULK EARTHWORKS

DESCRIPTION OF WORKS DURING PHASE

- SITE STRIPPING
- CLEARING AND GRUBBING
- BULK EARTHWORKS

DESCRIPTION OF CONTROLS

- CLEAR WATER DRAINS TO DIVERT EXTERNAL CATCHMENTS FLOWS AROUND DISTURBED SITE AREA
- CONSTRUCTION SWALE TO DIVERT INTERNAL DISTURBED AREA FLOWS TO TEMPORARY SEDIMENT BASIN
- CONSTRUCTION SWALES TO DIVERT FLOWS TO EXISTING FARM DAMS
- SLOPE BREAKS (CONSTRUCTION SWALES OR SILT FENCING) USED TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED SITE DURING RAIN EVENTS
- OUTFLOW PIPES USED TO REDUCE INTER-STAGE OVERLAND FLOW
- STABILISED SITE ENTRIES TO BE PROVIDE AT ALL ENTRANCES AND EXITS TO SITE
- SILT FENCE TO BE USED AROUND STOCKPILES AND COMPOUNDS
- STRAW BALES AND ROCK CHECK DAMS TO BE USED TO SLOW FLOW THROUGH CLEAR WATER DRAINS AND CONSTRUCTION SWALES AS REQUIRED

NOTES

1. ONLY APPROVED WORKS TO OCCUR IN NO GO ZONE
2. PHASE 1 CONTROLS TO BE GRADUALLY PHASED INTO PHASE 2 CONTROLS AS OVERLAND FLOW PATHS ARE ALTERED TO THE FINISHED SURFACE
3. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN
4. FOR BASIN SIZING REFER TO DRAWING 308534CA700

KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale

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GOOGONG

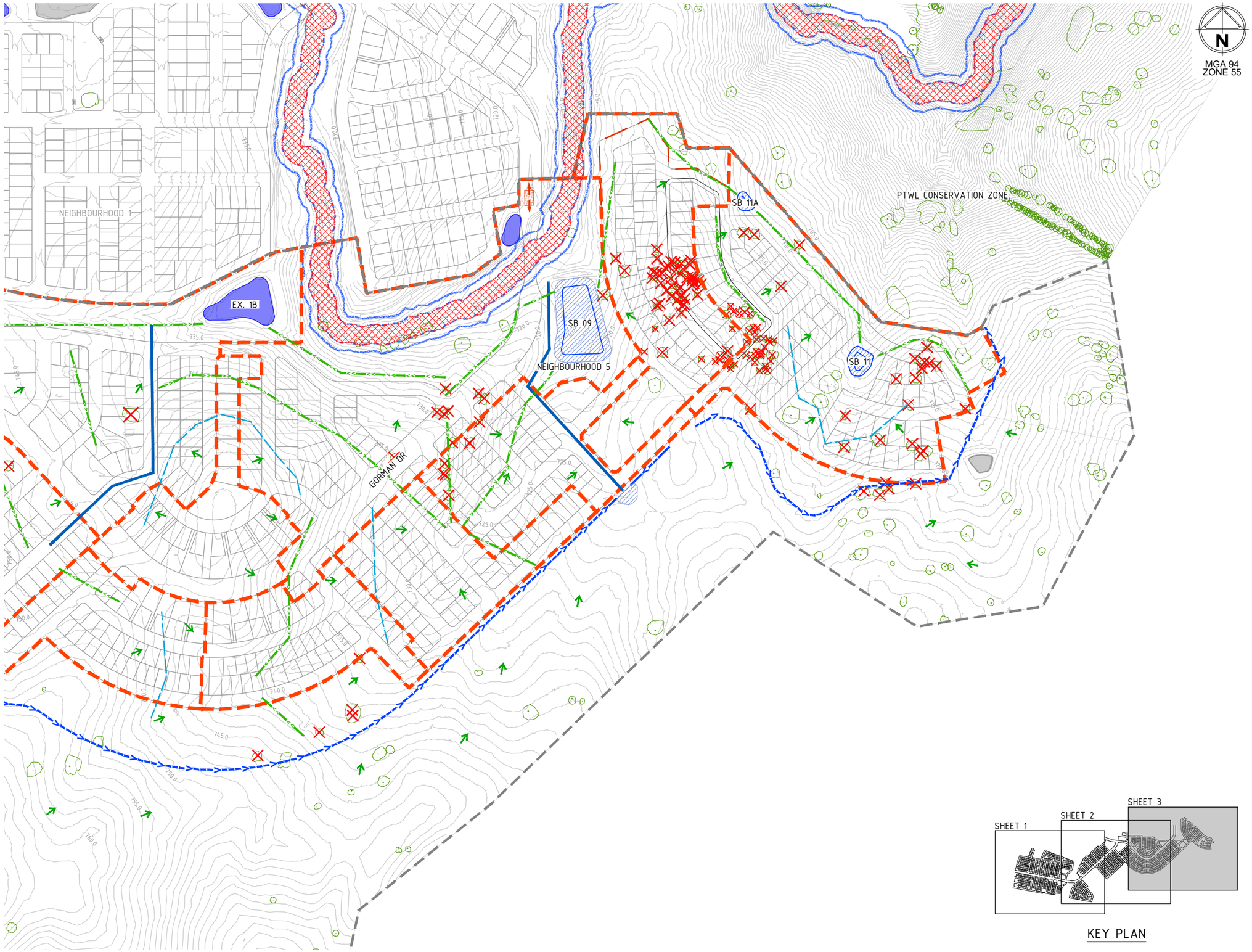
Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 1 - SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA702
Rev B

file name 308534CA700.dwg layout name CA702 plotted by Jordan Brereton
file location \\spiire\candata\data\30\308534\Civil\CAD plot date 15/06/2022 2:20 PM Sheet 87 of 98 Sheets



N

MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- EXISTING SURFACE CONTOUR – 1.0m MINOR INTERVAL
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- OUTER VEGETATED RIPARIAN ZONE
- INNER VEGETATED RIPARIAN ZONE
- STABILISED ACCESS
- CLEAN WATER DIVERSION
- CONSTRUCTION SWALE
- SLOPE BREAK
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN
- EXISTING WATER QUALITY AND/OR DETENTION ASSET TO BE RETAINED

PHASE 1: BULK EARTHWORKS

DESCRIPTION OF WORKS DURING PHASE
- SITE STRIPPING
- CLEARING AND GRUBBING
- BULK EARTHWORKS

DESCRIPTION OF CONTROLS
- CLEAR WATER DRAINS TO DIVERT EXTERNAL CATCHMENTS FLOWS AROUND DISTURBED SITE AREA
- CONSTRUCTION SWALE TO DIVERT INTERNAL DISTURBED AREA FLOWS TO TEMPORARY SEDIMENT BASIN
- CONSTRUCTION SWALES TO DIVERT FLOWS TO EXISTING FARM DAMS
- SLOPE BREAKS (CONSTRUCTION SWALES OR SILT FENCING) USED TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED SITE DURING RAIN EVENTS
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NOTES

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2. PHASE 1 CONTROLS TO BE GRADUALLY PHASED INTO PHASE 2 CONTROLS AS OVERLAND FLOW PATHS ARE ALTERED TO THE FINISHED SURFACE
3. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN
4. FOR BASIN SIZING REFER TO DRAWING 308534CA700

KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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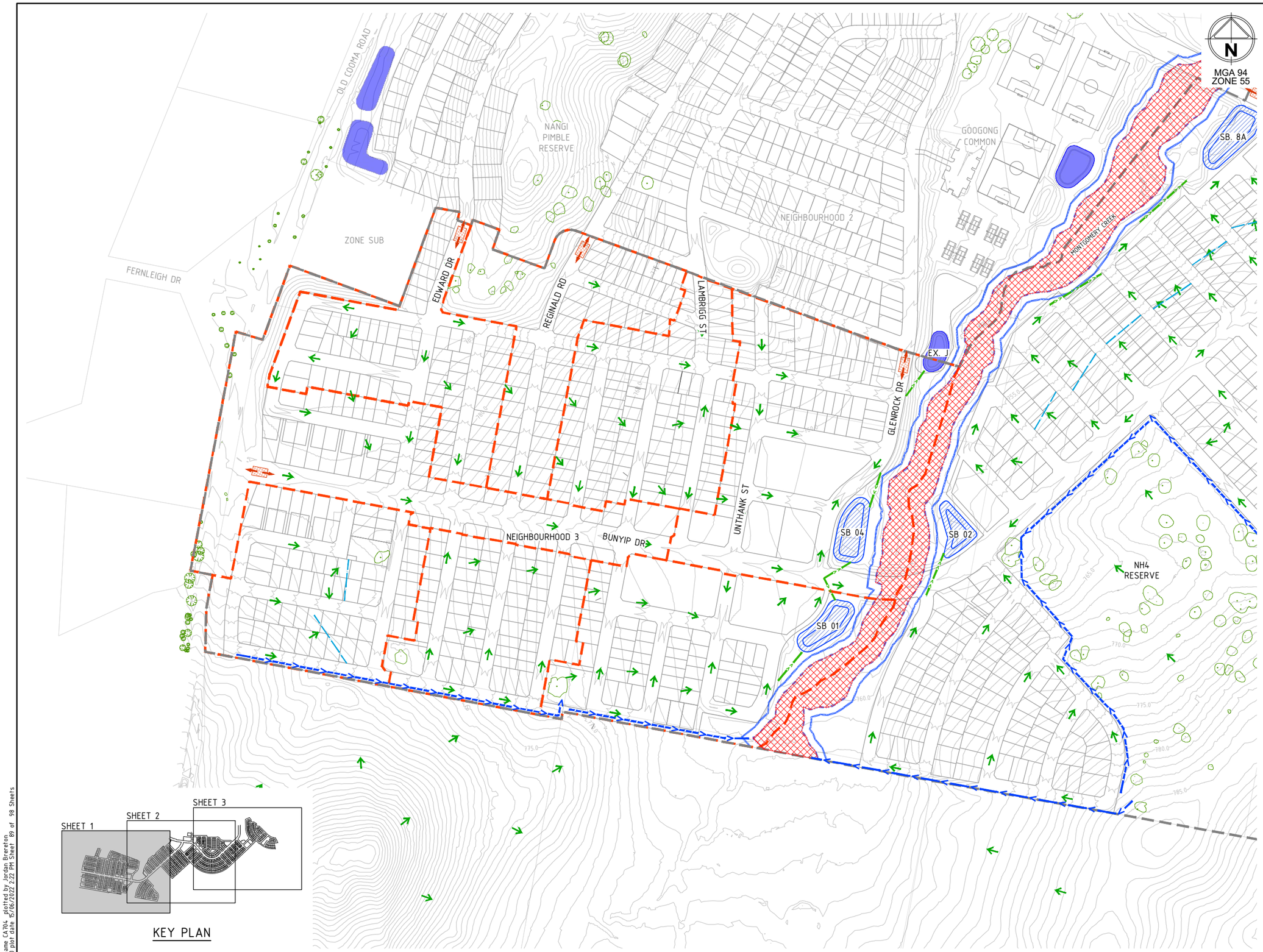
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GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 1 - SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA703** Rev **B**

file name 308534CA700.dwg layout name CA703 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:21 PM Sheet 88 of 98 Sheets



LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- FINISHED SURFACE CONTOUR – 1.0m MINOR INTERVAL (750)
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- STABILISED ACCESS
- CLEAN WATER DIVERSION
- CONSTRUCTION SWALE/BUND
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SLOPE BREAK
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN

PHASE 2: CIVIL WORKS

DESCRIPTION OF WORKS DURING PHASE

- PAVEMENT AND KERB CONSTRUCTION
- HYDRAULIC WORKS
- UTILITY SERVICES

DESCRIPTION OF CONTROLS

- CLEAR WATER DRAINS DIVERT EXTERNAL CATHCMENT FLOWS AROUND DISTURBED SITE AREA
- CONSTRUCTION SWALE TO DIVERT INTERNAL FLOWS TO TEMPORARY SEDIMENT BASIN
- ROAD NETWORK TO ACT AS TEMPORARY SWALES TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED AREA
- SLOPE BREAKS (CONSTRUCTION SWALES OR SILT FENCING) USED TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED SITE
- SILT FENCE TO BE ERECTED UPSTREAM OF ROAD CORRIDOR TO PROVIDED PROTECTION DURING PAVEMENT CONSTRUCTION
- STABILISED SITE ENTRIES TO BE PROVIDE AT ALL ENTRANCES AND EXITS TO SITE
- SILT FENCE TO BE USED AROUND STOCKPILES AND COMPOUNDS
- STRAW BALES AND ROCK CHECK DAMS TO BE USED TO SLOW FLOW THROUGH CLEAR WATER DRAINS, CONSTRUCTION SWALES AND ROAD NETWORK AS REQUIRED.
- SEDIMENT FILTER SOCKS TO BE PLACED AROUND STORMWATER SUMPS ONCE CONSTRUCTED

NOTES

1. ONLY APPROVED WORKS TO OCCUR IN NO GO ZONE
2. PHASE 2 CONTROLS TO BE IMPLEMENTED PROGRESSIVELY AS OVERLAND FLOW PATHS ARE ALTERED DURING BULK EARTHWORKS
3. BATTERS ADJACENT TO CREEK TO BE STABILISED WITH GRASS OR FINAL LANDSCAPE TREATMENT
4. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN PLAN
5. FOR BASIN SIZING REFER TO DRAWING CA700

KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale

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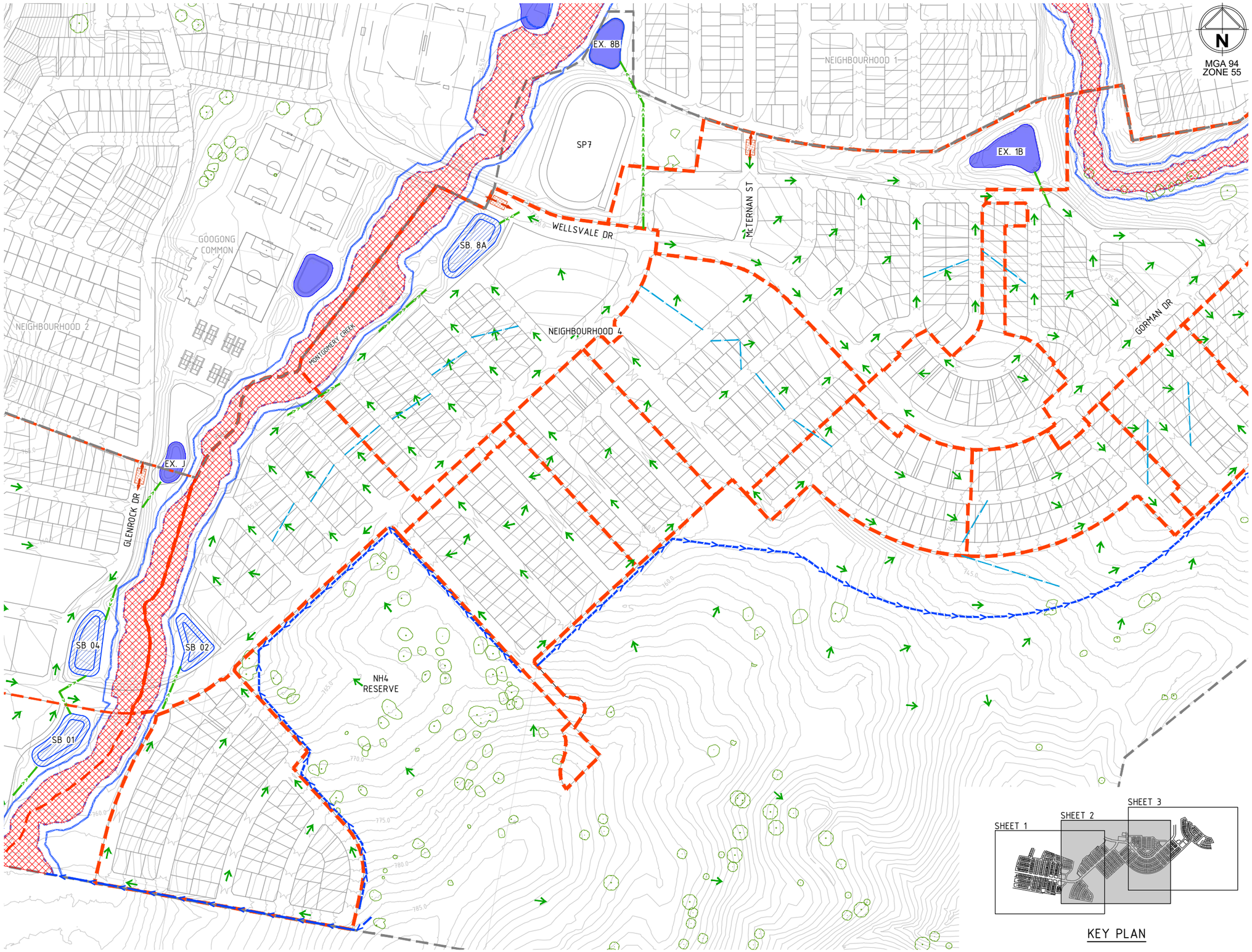
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Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 2 - SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA704** Rev **B**

file name 308534CA700.dwg layout name CA704 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:22 PM Sheet 89 of 98 Sheets



N

MGA 94 ZONE 55

LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- FINISHED SURFACE CONTOUR – 1.0m MINOR INTERVAL
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- STABILISED ACCESS
- CLEAN WATER DIVERSION
- CONSTRUCTION SWALE/BUND
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SLOPE BREAK
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN

PHASE 2: CIVIL WORKS

DESCRIPTION OF WORKS DURING PHASE

- PAVEMENT AND KERB CONSTRUCTION
- HYDRAULIC WORKS
- UTILITY SERVICES

DESCRIPTION OF CONTROLS

- CLEAR WATER DRAINS DIVERT EXTERNAL CATHCMENT FLOWS AROUND DISTURBED SITE AREA
- CONSTRUCTION SWALE TO DIVERT INTERNAL FLOWS TO TEMPORARY SEDIMENT BASIN
- ROAD NETWORK TO ACT AS TEMPORARY SWALES TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED AREA
- SLOPE BREAKS (CONSTRUCTION SWALES OR SILT FENCING) USED TO REDUCE SHEET FLOW LENGTH ACROSS DISTURBED SITE
- SILT FENCE TO BE ERECTED UPSTREAM OF ROAD CORRIDOR TO PROVIDED PROTECTION DURING PAVEMENT CONSTRUCTION
- STABILISED SITE ENTRIES TO BE PROVIDE AT ALL ENTRANCES AND EXITS TO SITE
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- SEDIMENT FILTER SOCKS TO BE PLACED AROUND STORMWATER SUMPS ONCE CONSTRUCTED

NOTES

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4. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN PLAN
5. FOR BASIN SIZING REFER TO DRAWING CA700

KEY PLAN

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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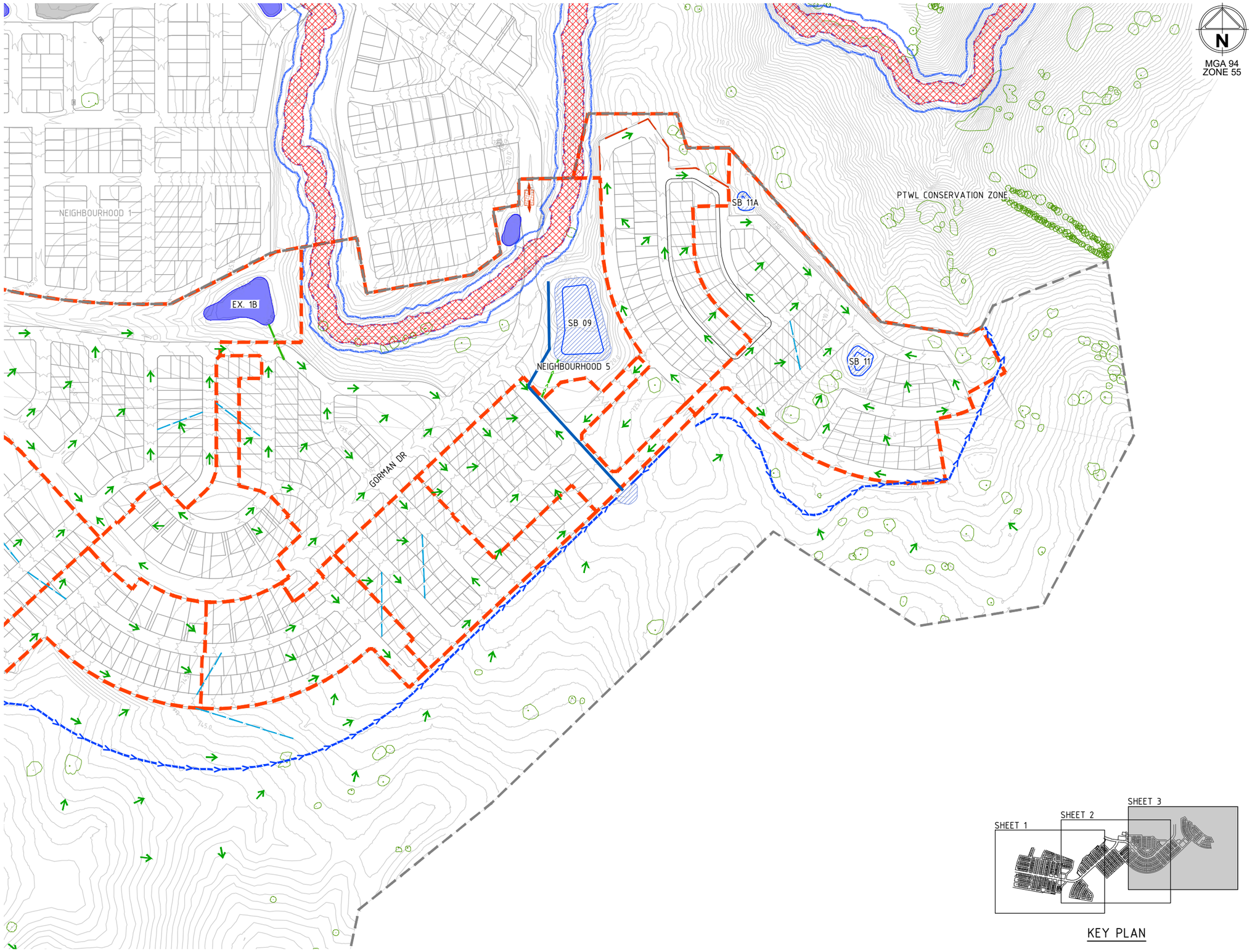
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Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 2 - SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA705 Rev B

file name 308534CA700.dwg layout name CA705 plotted by Jordan Brereton
file location G:\308534\Civil\ACAD plot date 15/06/2022 2:22 PM Sheet 90 of 98 Sheets



N

MGA 94
ZONE 55

LEGEND

- DA BOUNDARY
- STAGE BOUNDARY
- FINISHED SURFACE CONTOUR – 1.0m MINOR INTERVAL (750)
- NO GO ZONE
- EXISTING TREE TO BE RETAINED
- STABILISED ACCESS
- CLEAN WATER DIVERSION
- CONSTRUCTION SWALE/BUND
- TEMPORARY OUTFLOW PIPE
- OVERLAND FLOW DIRECTION
- SLOPE BREAK
- SEDIMENT CONTROL BASIN
- EXISTING SEDIMENT BASIN

PHASE 2: CIVIL WORKS

DESCRIPTION OF WORKS DURING PHASE

- PAVEMENT AND KERB CONSTRUCTION
- HYDRAULIC WORKS
- UTILITY SERVICES

DESCRIPTION OF CONTROLS

- CLEAR WATER DRAINS DIVERT EXTERNAL CATHCMENT FLOWS AROUND DISTURBED SITE AREA
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NOTES

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4. REFER TO CIVIL DESIGN REPORT FOR FURTHER DETAILS AND ASSUMPTION USED IN SOIL & WATER MANAGEMENT PLAN PLAN
5. FOR BASIN SIZING REFER TO DRAWING CA700

KEY PLAN

file name 308534CA700.dwg layout name CA706 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 15/06/2022 2:23 PM Sheet 91 of 98 Sheets

Rev	Amendments	Approved	Date
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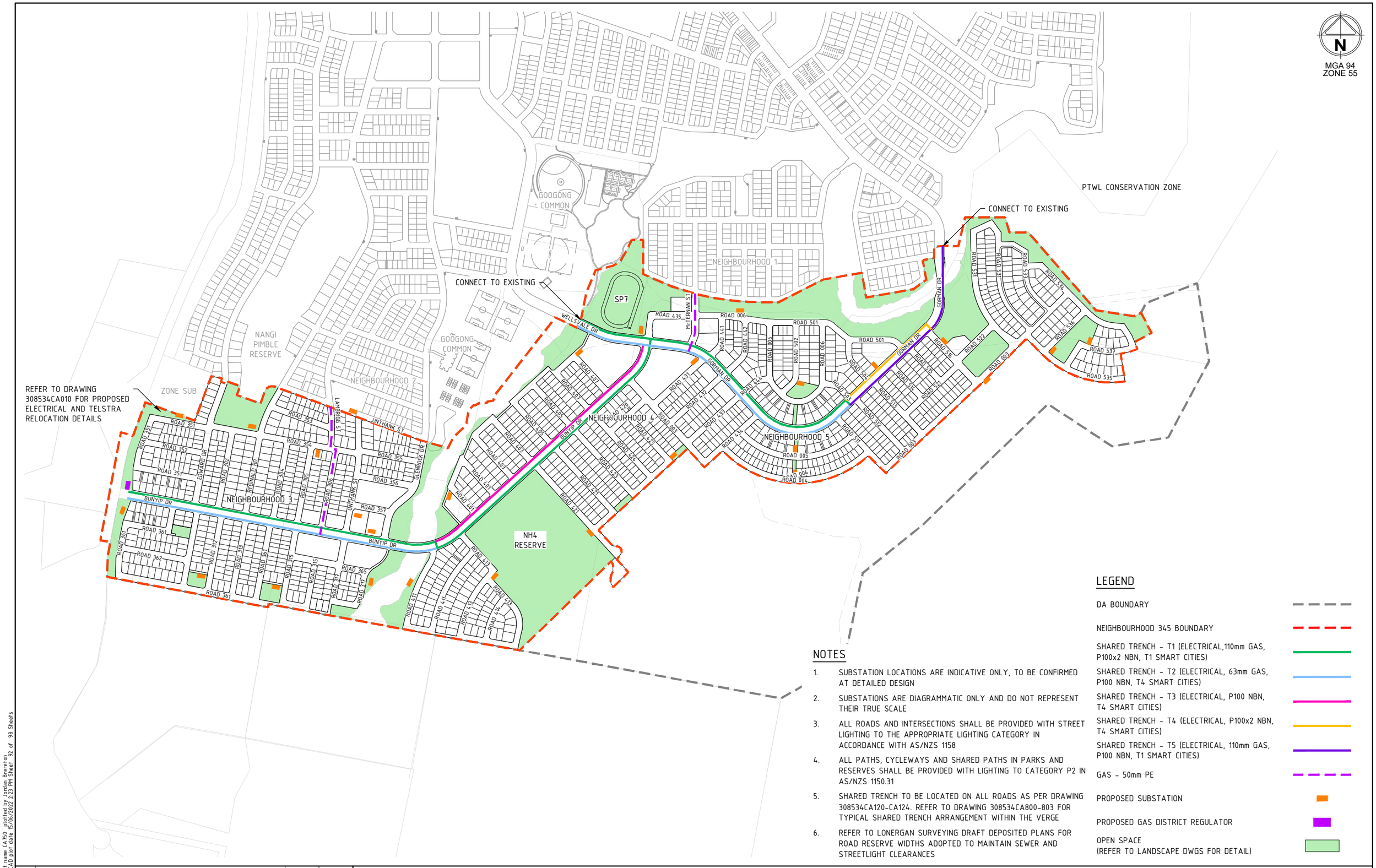
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Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

SOIL & WATER MANAGEMENT PLAN
PHASE 2 - SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No **308534CA706** Rev **B**



NOTES

1. SUBSTATION LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED AT DETAILED DESIGN
2. SUBSTATIONS ARE DIAGRAMMATIC ONLY AND DO NOT REPRESENT THEIR TRUE SCALE
3. ALL ROADS AND INTERSECTIONS SHALL BE PROVIDED WITH STREET LIGHTING TO THE APPROPRIATE LIGHTING CATEGORY IN ACCORDANCE WITH AS/NZS 1158
4. ALL PATHS, CYCLEWAYS AND SHARED PATHS IN PARKS AND RESERVES SHALL BE PROVIDED WITH LIGHTING TO CATEGORY P2 IN AS/NZS 1150.31
5. SHARED TRENCH TO BE LOCATED ON ALL ROADS AS PER DRAWING 308534CA120-CA124. REFER TO DRAWING 308534CA800-803 FOR TYPICAL SHARED TRENCH ARRANGEMENT WITHIN THE VERGE
6. REFER TO LONERGAN SURVEYING DRAFT DEPOSITED PLANS FOR ROAD RESERVE WIDTHS ADOPTED TO MAINTAIN SEWER AND STREETLIGHT CLEARANCES

LEGEND

- DA BOUNDARY
- NEIGHBOURHOOD 345 BOUNDARY
- SHARED TRENCH - T1 (ELECTRICAL,110mm GAS, P100x2 NBN, T1 SMART CITIES)
- SHARED TRENCH - T2 (ELECTRICAL, 63mm GAS, P100 NBN, T4 SMART CITIES)
- SHARED TRENCH - T3 (ELECTRICAL, P100 NBN, T4 SMART CITIES)
- SHARED TRENCH - T4 (ELECTRICAL, P100x2 NBN, T4 SMART CITIES)
- SHARED TRENCH - T5 (ELECTRICAL, 110mm GAS, P100 NBN, T1 SMART CITIES)
- GAS - 50mm PE
- PROPOSED SUBSTATION
- PROPOSED GAS DISTRICT REGULATOR
- OPEN SPACE (REFER TO LANDSCAPE DWGS FOR DETAIL)

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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Date 09/09/2021

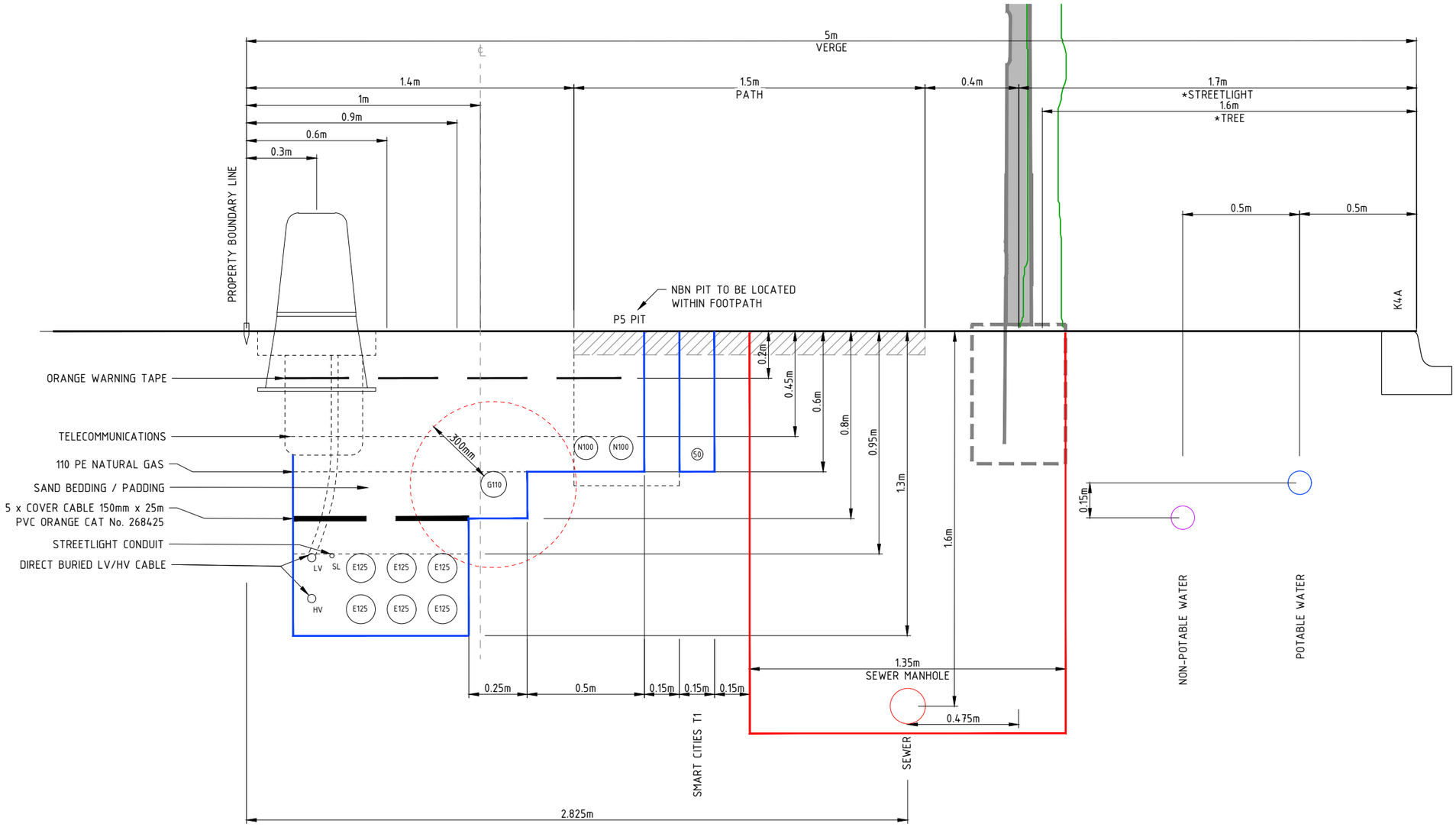
GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

UTILITY CONCEPT MASTER PLAN LAYOUT

QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA750 Rev B

file name 308534CA750.dwg layout name CA750 plotted by Jordan Brereton
file location G:\301308534\Civil\ACAD plot date 15/06/2022 2:23 PM Sheet 92 of 98 Sheets



MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

TYPICAL SHARED TRENCH DETAIL - TYPE 1

ELECTRICAL, 110mm GAS, P100x2 NBN, T1 SMART CITIES
SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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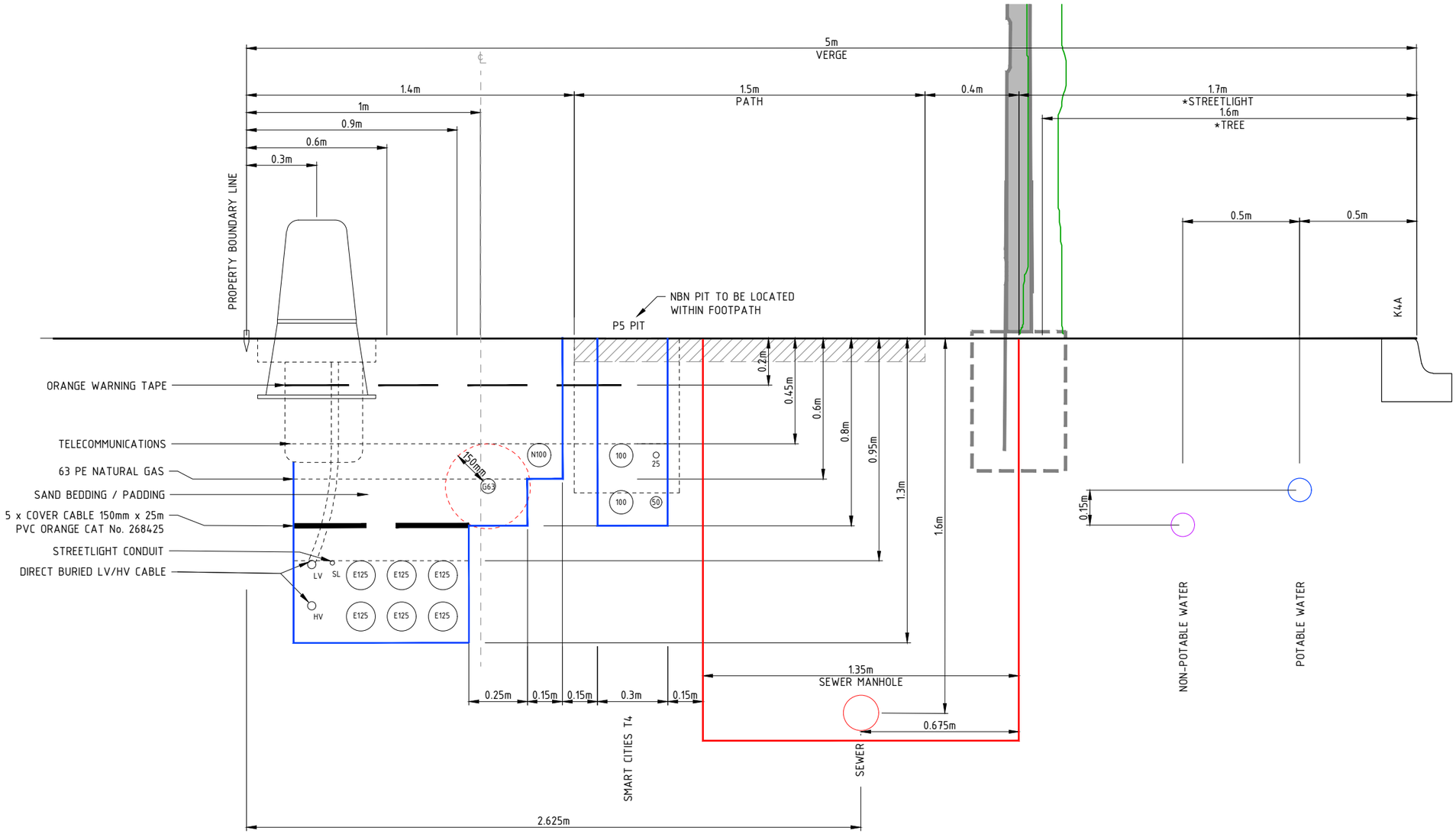
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Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL SHARED TRENCH ARRANGEMENT
SHEET 1
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA800 Rev B

file name 308534CA800.dwg layout name CA800 plotted by Jordan Brereton
file location G:\30\308534\Civil\ACAD plot date 6/06/2022 2:24 PM Sheet 93 of 98 Sheets



MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

TYPICAL SHARED TRENCH DETAIL - TYPE 2

ELECTRICAL, 63MM GAS, P100 NBN, T4 SMART CITIES
SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:10@A1 SCALE 1:20@A3
0 0.1 0.2 0.3 0.4 0.5

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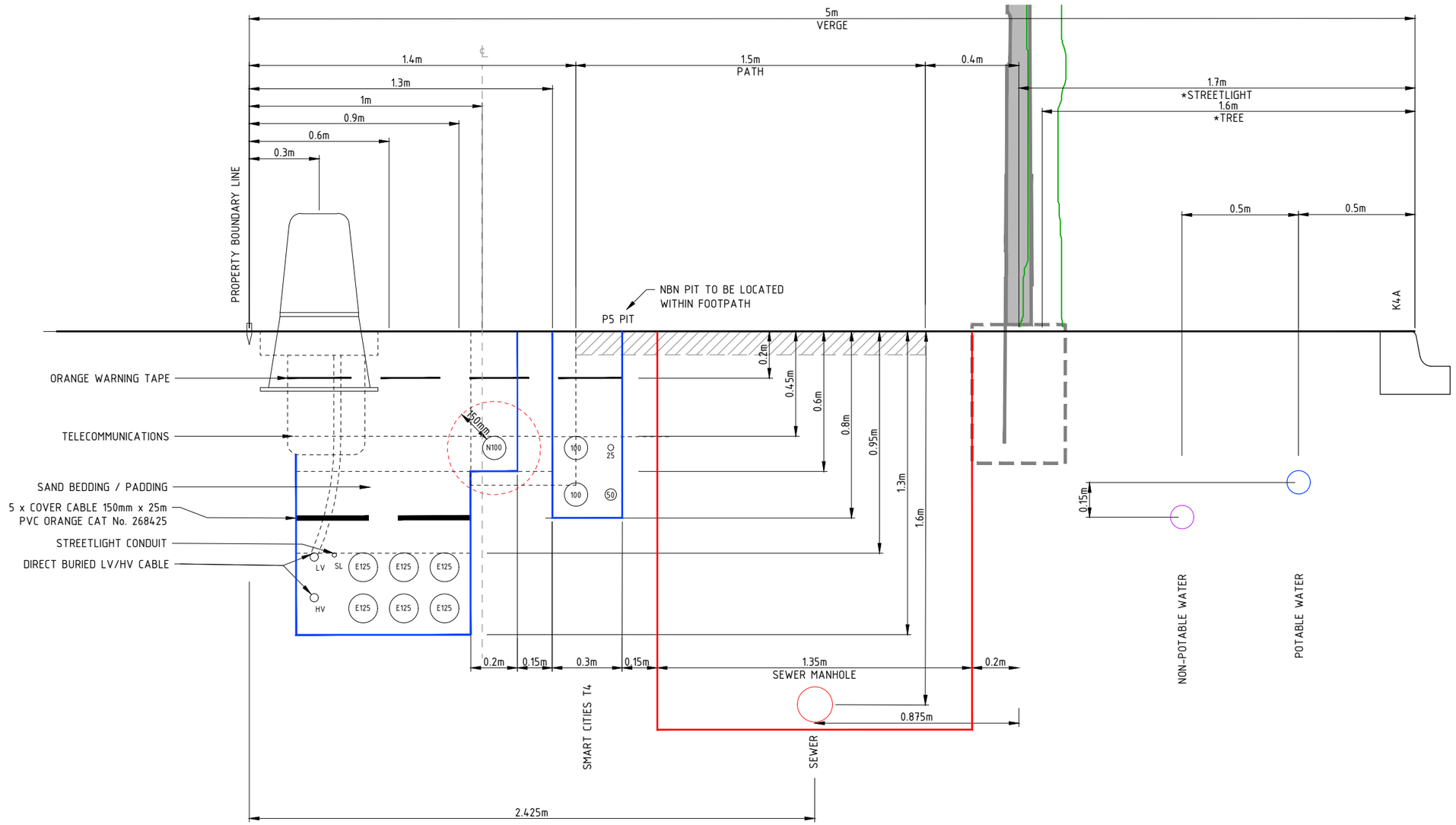
GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL SHARED TRENCH ARRANGEMENT
SHEET 2
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA801 Rev B

file name 308534CA800.dwg layout name CA801 plotted by Jordan Brereton
file location \\spiire\vandata\data\30\308534\Civil\ACAD plot date 15/06/2022 2:24 PM Sheet 94 of 98 Sheets



MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

TYPICAL SHARED TRENCH DETAIL - TYPE 3

ELECTRICAL, P100 NBN, T4 SMART CITIES
SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:10@A1 SCALE 1:20@A3
0 0.1 0.2 0.3 0.4 0.5

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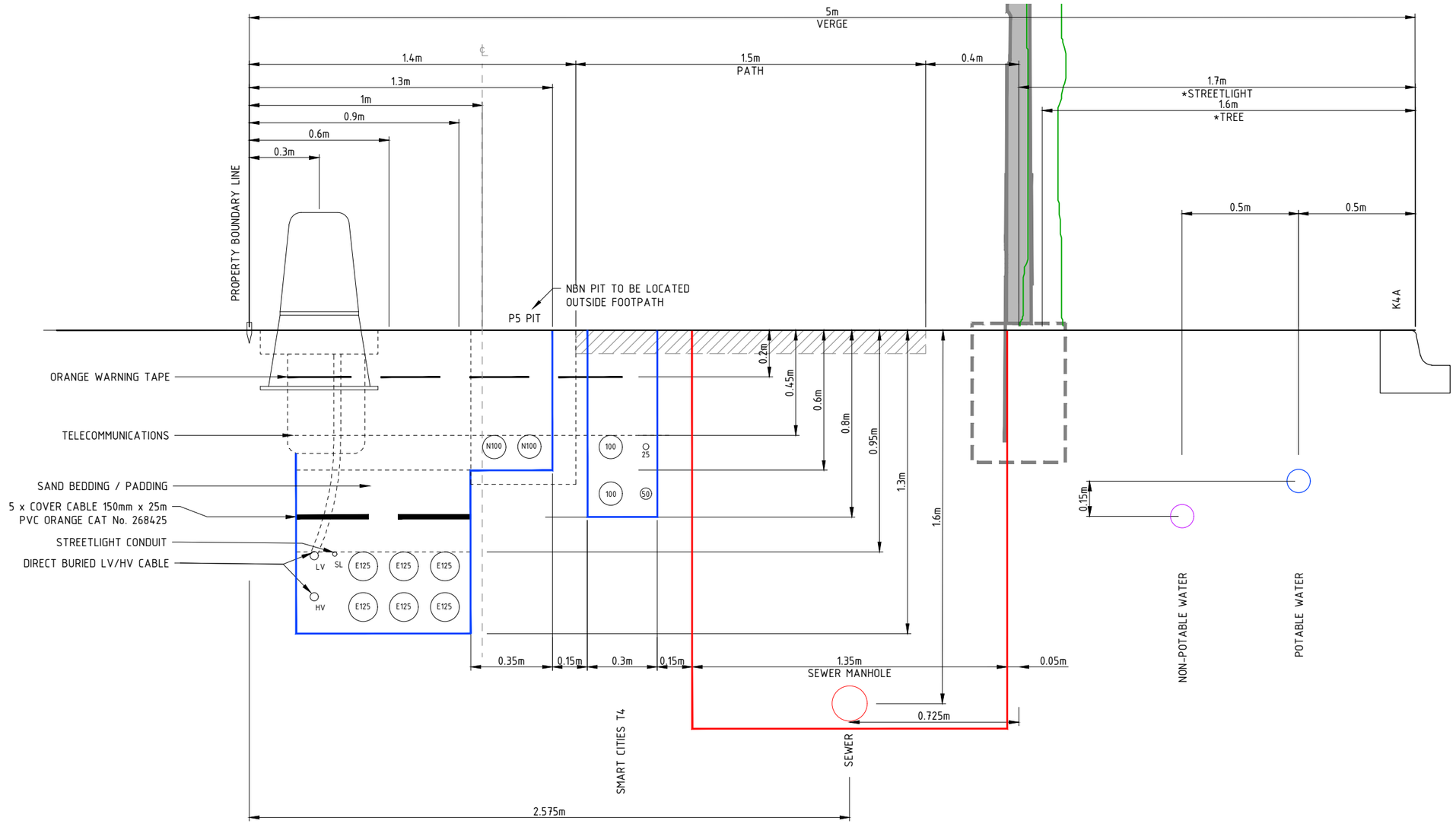
GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL SHARED TRENCH ARRANGEMENT
SHEET 3
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA802 Rev B

file name 308534CA800.dwg layout name CA802 plotted by Jordan Brereton
file location \\spiire\candata\data\301308534\Civil\ACAD plot date 15/06/2022 2:24 PM Sheet 95 of 98 Sheets



MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

TYPICAL SHARED TRENCH DETAIL - TYPE 4

ELECTRICAL, P100x2 NBN, T4 SMART CITIES
SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:10@A1 SCALE 1:20@A3
0 0.1 0.2 0.3 0.4 0.5

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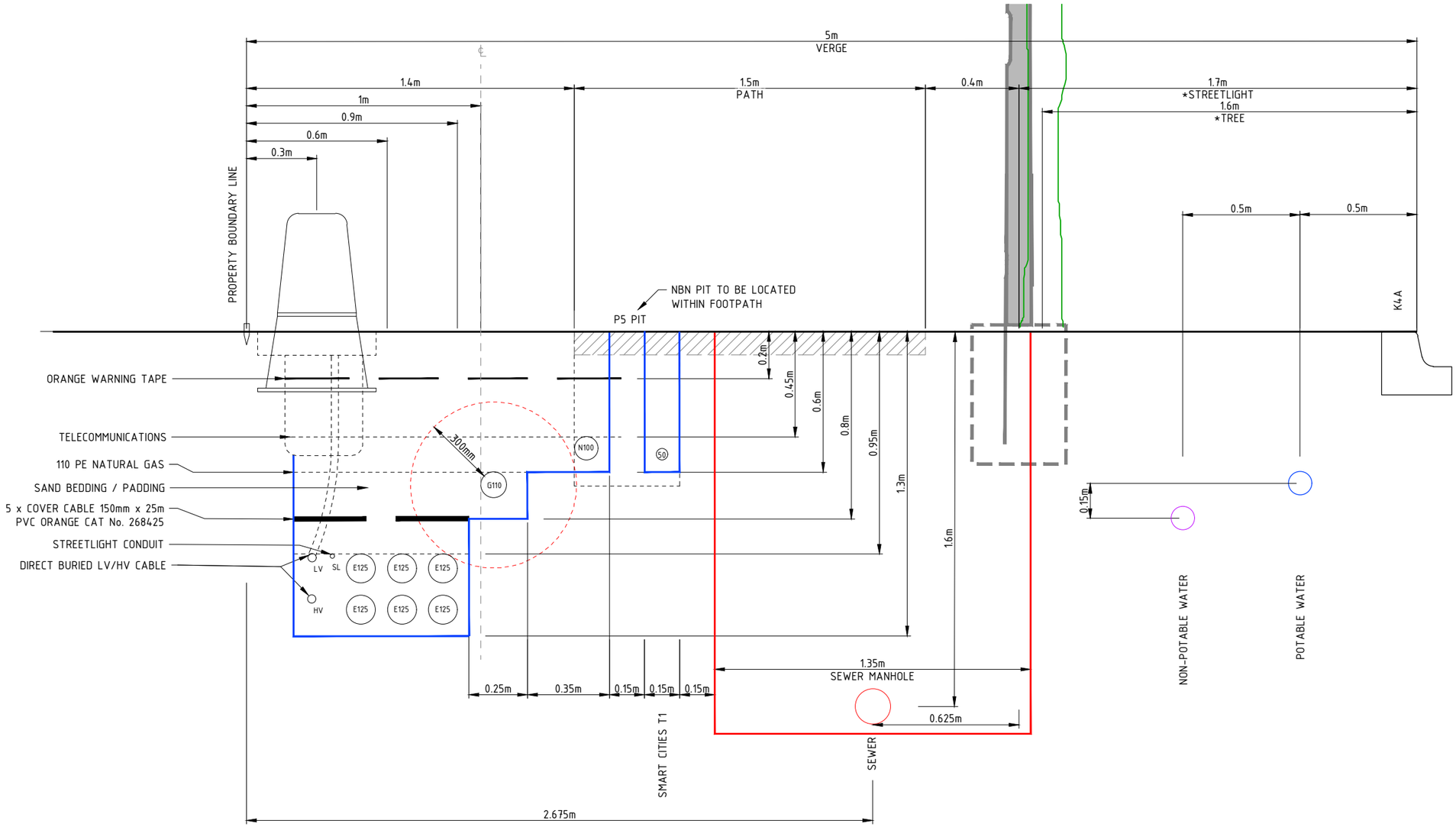
GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL SHARED TRENCH ARRANGEMENT
SHEET 4
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA803 Rev B

file name 308534CA800.dwg layout name CA803 plotted by Jordan Brereton
file location \\spiire\candata\data\301308534\Civil\ACAD plot date 15/06/2022 2:24 PM Sheet 96 of 98 Sheets



MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmØ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

TYPICAL SHARED TRENCH DETAIL - TYPE 5

ELECTRICAL, 110mm GAS, P100 NBN, T1 SMART CITIES
SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
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Scale
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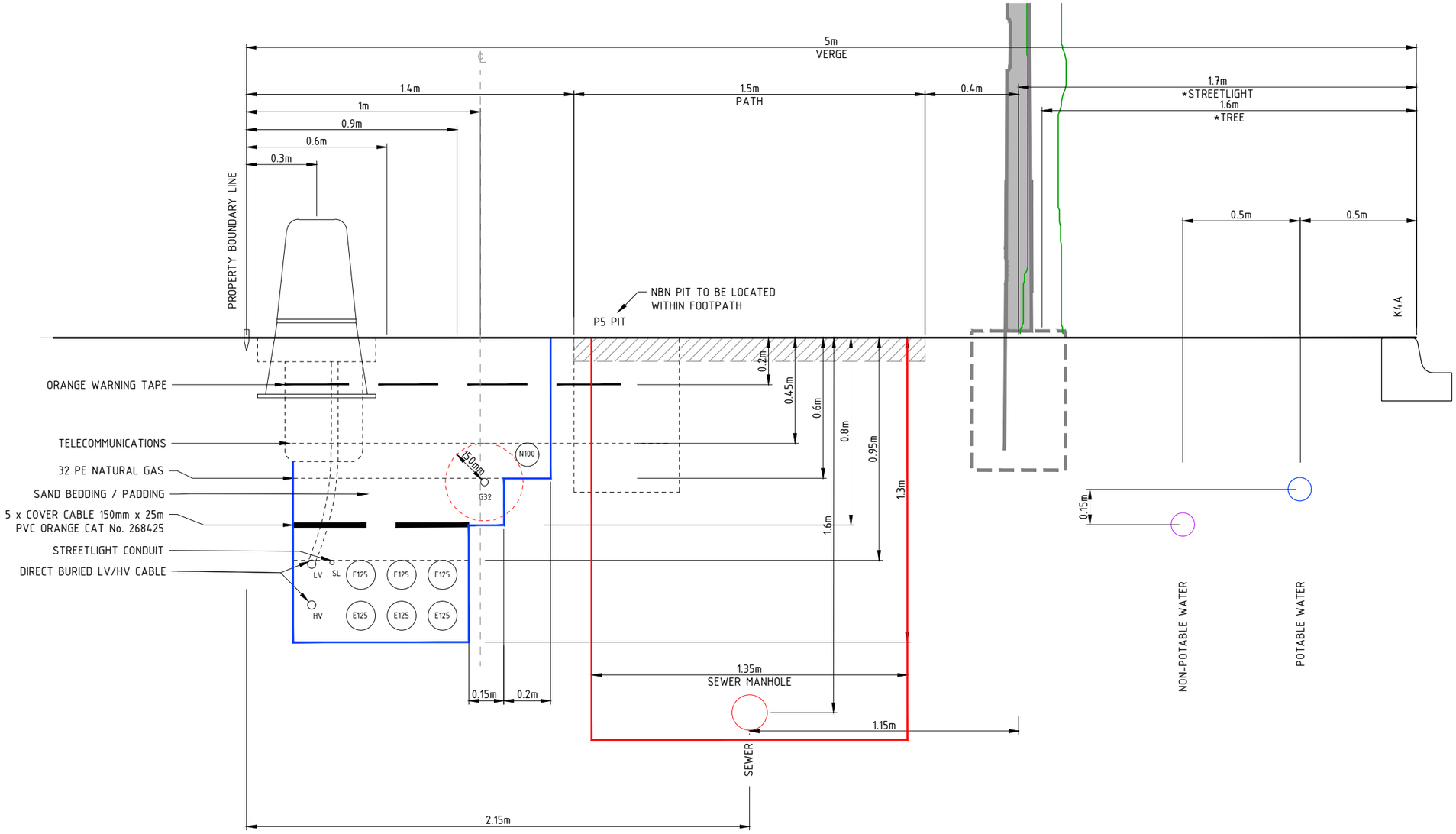
GOOGONG

Designed	Checked
M.PHILLIPS	S.BEFF
Authorised	Date
M.BOMBEN	09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION
TYPICAL SHARED TRENCH ARRANGEMENT
SHEET 5
QPRC
GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA804 Rev B

file name 308534CA800.dwg layout name CA804 plotted by Jordan Brereton
file location \\spiire\canberra\Data\30\308534\Civil\ACAD plot date 15/06/2022 2:24 PM Sheet 97 of 98 Sheets



TYPICAL SHARED TRENCH DETAIL

ELECTRICAL, 32MM GAS, P100 NBN

SCALE 1:10 @ A1

*NOTE: TREES AND STREETLIGHTS TO NOT COINCIDE WITH SEWER MANHOLE LOCATIONS

MANDATORY SEPARATIONS

1. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS AND TELECOMMUNICATIONS ARE AS FOLLOWS;
   GAS MAINS 75mmΦ OR LESS - 150mm

2. MANDATORY MINIMUM SEPARATIONS BETWEEN NATURAL GAS MAINS ARE PROTECTED ELECTRICAL LV AND HV CABLES / CONDUITS ARE AS FOLLOWS;
   GAS MAINS 75mmΦ OR LESS - 150mm TO LV
   - 300mm TO HV

3. MANDATORY MINIMUM SEPARATIONS BETWEEN TELECOMMUNICATIONS AND PROTECTED ELECTRICAL CABLES / CONDUITS ARE AS FOLLOWS;
   150mm BETWEEN LV CABLE / CONDUITS
   300mm BETWEEN HV CABLE / CONDUITS

MARKER TAPE	SERVICE TYPES
YELLOW AND BLACK TAPE	GAS ONLY
BLACK AND WHITE TAPE	GAS AND TELECOMMUNICATIONS
ORANGE AND BLACK TAPE	GAS, TELECOMMUNICATIONS AND ELECTRICITY

GAS PIPE SIZES (mm)	MINIMUM CONDUIT DIAMETER (mm)	MINIMUM DEPTH OF COVER (mm)
32 NY, 40 PE OR 50 NY	100	750
63PE, 75 NY	150	750
110 NY AND PE OR 160 PE	225	750
200 PE OR 250 PE	300	750

file name 308534CA800.dwg Layout name CA805 plotted by Jordan Brereton
file location \\spiire\candata\Data\30\308534\Civil\4CAD plot date 15/06/2022 2:24 PM Sheet 98 of 98 Sheets

Rev	Amendments	Approved	Date
B	DA RESUBMISSION - COUNCIL COMMENTS ADDRESSED	CJC	15/06/22
A	ISSUED FOR APPROVAL	MB	09/09/21

Scale
1:10@A1
SCALE
1:20@A3
0 0.1 0.2 0.3 0.4 0.5

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GOOGONG

Designed M.PHILLIPS
Checked S.BEFF
Authorised M.BOMBEN
Date 09/09/2021

GOOGONG NEIGHBOURHOODS 3,4 & 5 DEVELOPMENT APPLICATION

TYPICAL SHARED TRENCH ARRANGEMENT

SHEET 6

QPRC

GOOGONG TOWNSHIP PTY LTD

Drg No 308534CA805 Rev B

Googong Township

Neighbourhood 3, 4 and 5

Landscape and Open Space
Development Application

CLIENT: **Googong Township Pty Ltd.**
PO Box 1000, Civic Square ACT 2608
Level 3, 64 Allara Street, Canberra ACT 2600
T 02 6230 0800
F 02 6230 0811

DRAWING NO.	TITLE
L-01	COVER SHEET
L-02	LANDSCAPE MASTER PLAN
L-03	NH3 MASTERPLAN
L-04	NH4 MASTERPLAN
L-05	NH5 MASTERPLAN
L-06	STAGING PLAN
L-07	PEDESTRIAN AND CYCLE NETWORK
VILLAGE CENTRES	
L-08	NEIGHBOURHOOD 3 VILLAGE CENTRE - CONCEPT PLAN
L-09	NEIGHBOURHOOD 3 VILLAGE CENTRE - PLANTING AND LANDSCAPE CHARACTER
L-10	NEIGHBOURHOOD 4 VILLAGE CENTRE - CONCEPT PLAN
L-11	NEIGHBOURHOOD 4 VILLAGE CENTRE - TYPICAL SECTIONS
L-12	NEIGHBOURHOOD 4 VILLAGE CENTRE - PLANTING AND LANDSCAPE CHARACTER
L-13	NEIGHBOURHOOD 5 VILLAGE CENTRE - CONCEPT PLAN
L-14	NEIGHBOURHOOD 5 VILLAGE CENTRE - TYPICAL SECTIONS
L-15	NEIGHBOURHOOD 5 VILLAGE CENTRE - PLANTING AND LANDSCAPE CHARACTER
PARKS AND PLAYGROUNDS	
L-16	OLD COOMA ROAD AND ENTRY - PLAN
L-17	OLD COOMA ROAD AND ENTRY - DETAIL PLAN
L-18	OLD COOMA ROAD AND ENTRY - PLANTING AND LANDSCAPE CHARACTER
L-19	NEIGHBOURHOOD PARK 3 - PLAN
L-20	NEIGHBOURHOOD PARK 3 - TYPICAL SECTIONS
L-21	NEIGHBOURHOOD PARK 3 - PLANTING AND LANDSCAPE CHARACTER
L-22	NEIGHBOURHOOD PARK 5 - PLAN
L-23	NEIGHBOURHOOD PARK 5 - PLANTING AND LANDSCAPE CHARACTER
L-24	YELLOW BOX RESERVE - PLAN
L-25	YELLOW BOX RESERVE - SHEARING SHED EDUCATION AND INFORMATION CENTRE ARTIST IMPRESSIONS
L-26	YELLOW BOX RESERVE - PLANTING AND LANDSCAPE CHARACTER
L-27	LOCAL PARK 10 AND POCKET PARK - PLAN
L-28	LOCAL PARK 10 AND POCKET PARK - PLANTING AND LANDSCAPE CHARACTER
L-29	LOCAL PARK 11 - PLAN
L-30	LOCAL PARK 11 - PLANTING AND LANDSCAPE CHARACTER
L-31	LOCAL PARK 12 AND WSUD 11 - CONCEPT PLAN
L-32	LOCAL PARK 12 AND WSUD 11 - PLANTING AND LANDSCAPE CHARACTER
L-33	LOCAL PARK 13 - CONCEPT PLAN
L-34	LOCAL PARK 13 - PLANTING AND LANDSCAPE CHARACTER
GOOGONG COMMON	
L-35	GOOGONG COMMON MASTERPLAN
L-36	GOOGONG COMMON PLANTING AND LANDSCAPE CHARACTER

DRAWING NO.	TITLE
STREETSCAPE	
L-37	NATIVE AND EXOTIC TREE SPECIES
L-38	STREET TREE MASTERPLAN
L-39	STREET TREE SPECIES
L-40	STREET TREE SPECIES
L-41	STREET UNDERSTOREY MASTERPLAN
L-42	STREET UNDERSTOREY SPECIES
GREEN LINKS AND WIDENED VERGES	
L-43	NEIGHBOURHOOD 4 GREEN LINKS - CONCEPT PLAN
L-44	NEIGHBOURHOOD 5 GREEN LINKS - CONCEPT PLAN



GOOGONG

NEIGHBOURHOOD 3, 4 & 5
Cover Sheet

AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	NTS
DRAWING NO.	**L-01**



GOOGONG

NEIGHBOURHOOD 3, 4 & 5
LANDSCAPE MASTER PLAN

KEY	
-----	NEIGHBOURHOOD BOUNDARY
VILLAGE CENTRES	
V3	NEIGHBOURHOOD 3 VILLAGE CENTRE
V4	NEIGHBOURHOOD 4 VILLAGE CENTRE
V5	NEIGHBOURHOOD 5 VILLAGE CENTRE
OLD COOMA ROAD	
01	OLD COOMA ROAD
02	OLD COOMA ROAD ENTRY
NEIGHBOURHOOD PARKS	
03	NEIGHBOURHOOD PARK 3
04	NEIGHBOURHOOD PARK 4
05	NEIGHBOURHOOD PARK 5
YELLOW BOX RESERVE	
YB	YELLOW BOX RESERVE
LOCAL PARKS	
10	LOCAL PARK 10
11	LOCAL PARK 11
12	LOCAL PARK 12
13	LOCAL PARK 13
PP	POCKET PARK
GOOGONG COMMON	
GC	GOOGONG COMMON

SCALE 1:5,000 (A1)
SCALE 1:10,000 (A3)
metres
0 20 50 100 150 200 250 300

AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-02**



SCALE 1:2,500 (A1)
metres
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SCALE 1:5,000 (A3)

GOOGONG



NEIGHBOURHOOD 3

LANDSCAPE MASTER PLAN KEY

	NEIGHBOURHOOD BOUNDARY
	TREES TO BE RETAINED
	CREEK CROSSINGS
VILLAGE CENTRE	
V3	VILLAGE CENTRE
OLD COOMA ROAD	
01	OLD COOMA ROAD
02	OLD COOMA ROAD ENTRY
NEIGHBOURHOOD PARK	
03	NEIGHBOURHOOD PARK 3
LOCAL PARKS	
10	LOCAL PARK 10
11	LOCAL PARK 11
PP	POCKET PARK
GOOGONG COMMON	
GC	GOOGONG COMMON
W1	WSUD 01
W4	WSUD 04
PLAYGROUNDS	
LP	LOCAL PLAYGROUND
NP	NEIGHBOURHOOD PLAYGROUND

AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:2500 @ A1
DRAWING NO.	**L-03**



SCALE 1:2,500 (A1)
metres
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SCALE 1:5,000 (A3)

GOOGONG



NEIGHBOURHOOD 4

LANDSCAPE MASTER PLAN KEY

	NEIGHBOURHOOD BOUNDARY
	EXTENT OF EXISTING WORKS TO BE RETAINED
	TREES TO BE RETAINED
	CREEK CROSSINGS
IS	INTERPRETIVE SIGNAGE RELATED TO SHEARING SHED LOCATION
VILLAGE CENTRE	
V4	VILLAGE CENTRE
NEIGHBOURHOOD PARK	
01	NEIGHBOURHOOD PARK 4
02	SPORTSFIELD 7
YELLOW BOX RESERVE	
YB	YELLOW BOX RESERVE
GOOGONG COMMON	
GC	GOOGONG COMMON
EX	EXISTING PATHS AND WSUD BASINS THAT FORM PART OF NEIGHBOURHOOD 1B
W2	WSUD 02
WBA	WSUD 8A
PLAYGROUNDS	
NP	NEIGHBOURHOOD PLAYGROUND

AECOM

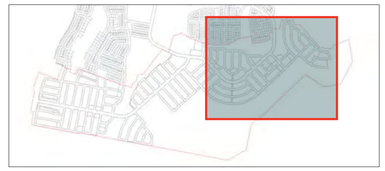
NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:2500 @ A1
DRAWING NO.	**L-04**



SCALE 1:2,500 (A1)
metres
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SCALE 1:5,000 (A3)

GOOGONG



NEIGHBOURHOOD 5

LANDSCAPE MASTER PLAN KEY

	NEIGHBOURHOOD BOUNDARY
	EXTENT OF EXISTING WORKS TO BE RETAINED
	TREES TO BE RETAINED
VILLAGE CENTRE	
V5	VILLAGE CENTRE
NEIGHBOURHOOD PARK	
05	NEIGHBOURHOOD PARK 5
LOCAL PARKS	
12	LOCAL PARK 12
13	LOCAL PARK 13
GOOGONG COMMON	
GC	GOOGONG COMMON
EX	EXISTING PATHS AND WSUD BASINS THAT FORM PART OF NEIGHBOURHOOD 1B
W9	WSUD 09
W11	WSUD 11
W11A	WSUD 11A
W11B	WSUD 11B
PLAYGROUNDS	
LP	LOCAL PLAYGROUND
NP	NEIGHBOURHOOD PLAYGROUND

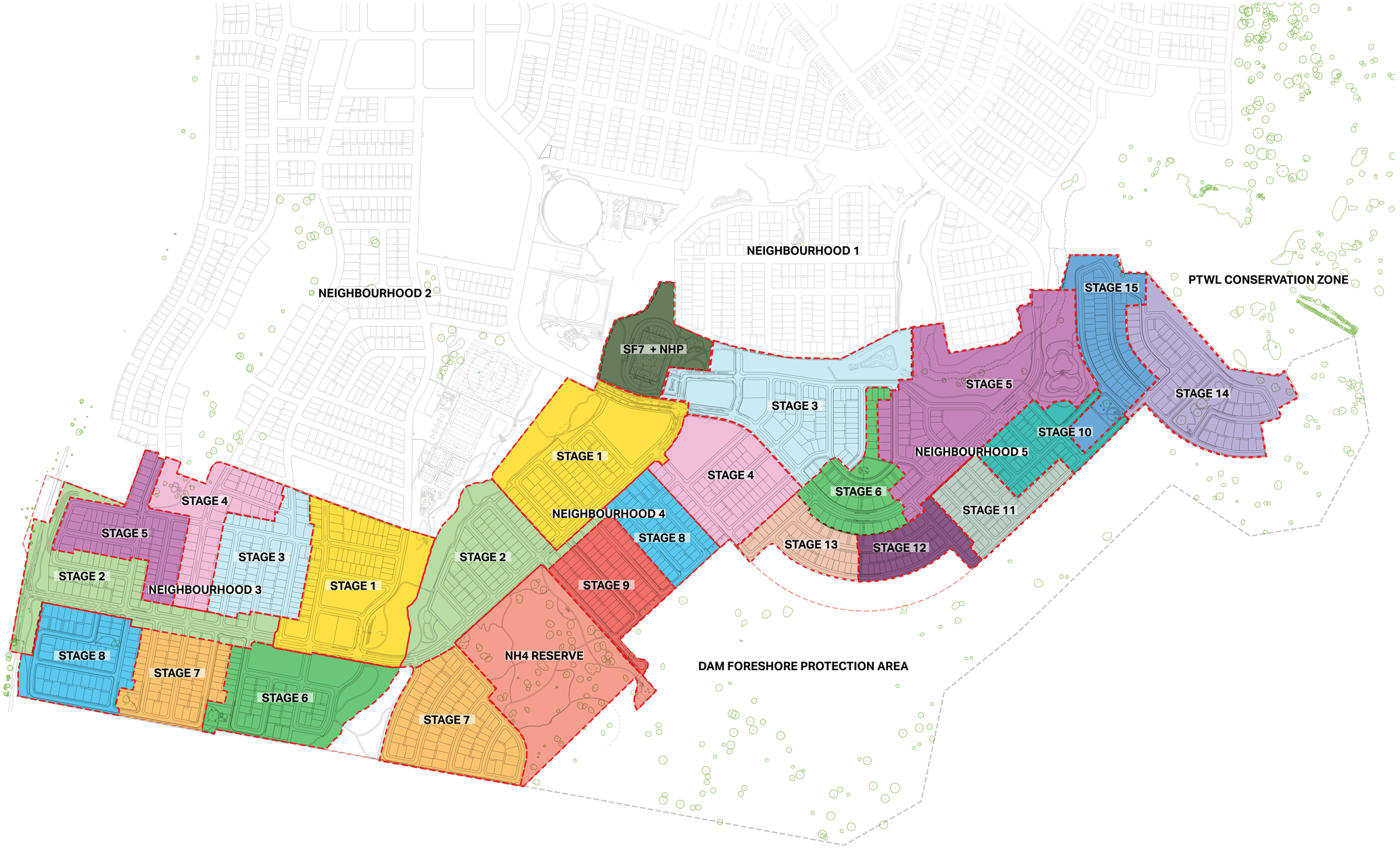
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NO.	REVISION	DATE	REVIEWED
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E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:2500 @ A1
DRAWING NO.	**L-05**

GOOGONG

NEIGHBOURHOOD 3, 4 & 5
STAGING PLAN

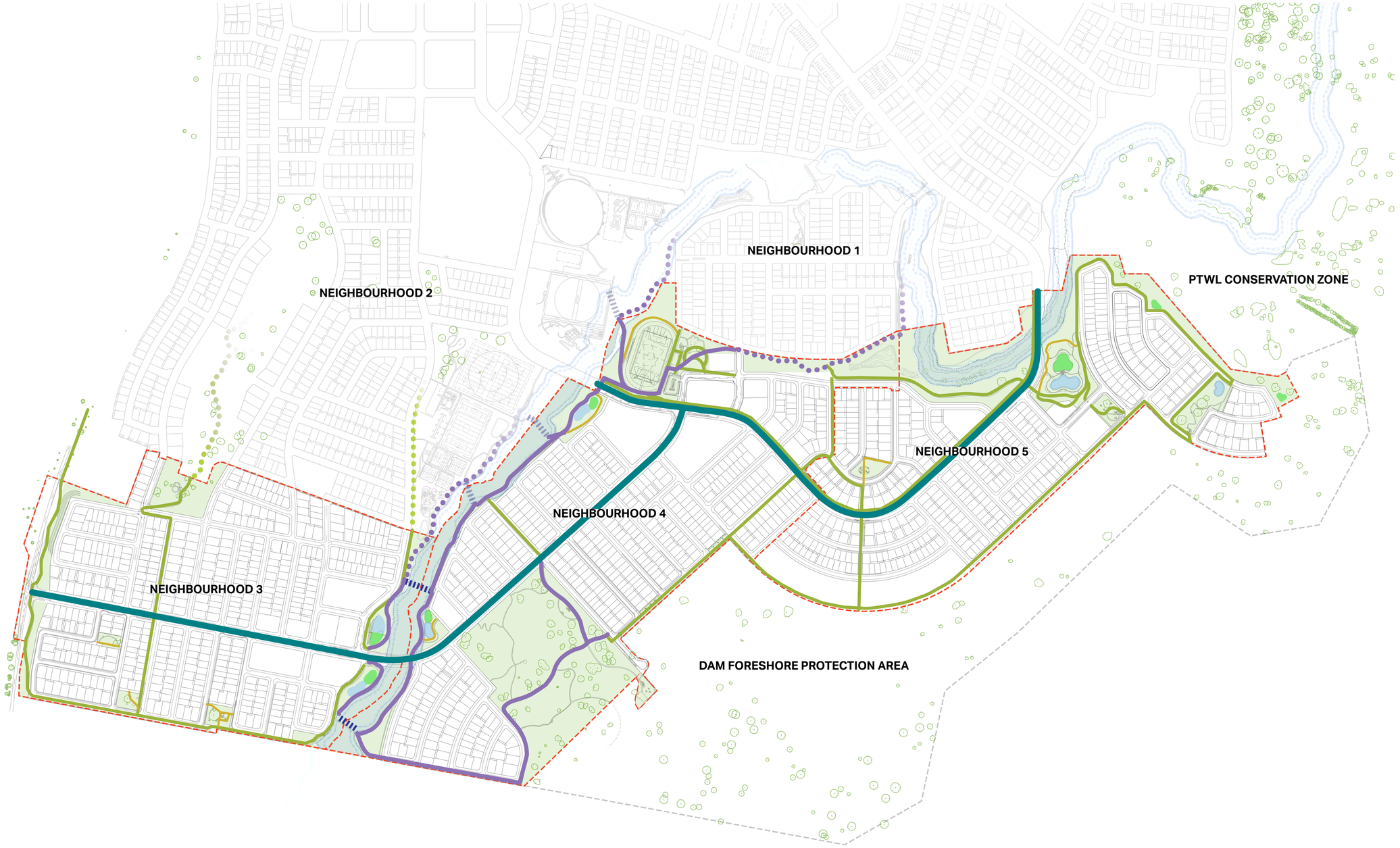


SCALE 1:5,000 (A1)
SCALE 1:10,000 (A3)
metres
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AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-06**



GOOGONG

NEIGHBOURHOOD 3, 4 & 5

PEDESTRIAN AND CYCLE NETWORK

KEY	
	NEIGHBOURHOOD BOUNDARY
	DEDICATED ON ROAD BICYCLE LANE
	2.5m SHARE PATH - BRUSHED CONCRETE
	2.0m KEY PATH - BRUSHED CONCRETE
	1.5m PEDESTRIAN PATH
	KEY CREEK CROSSING
	2.5M OUT OF BOUNDARY SHARE PATH
	2.0M OUT OF BOUNDARY KEY PATH

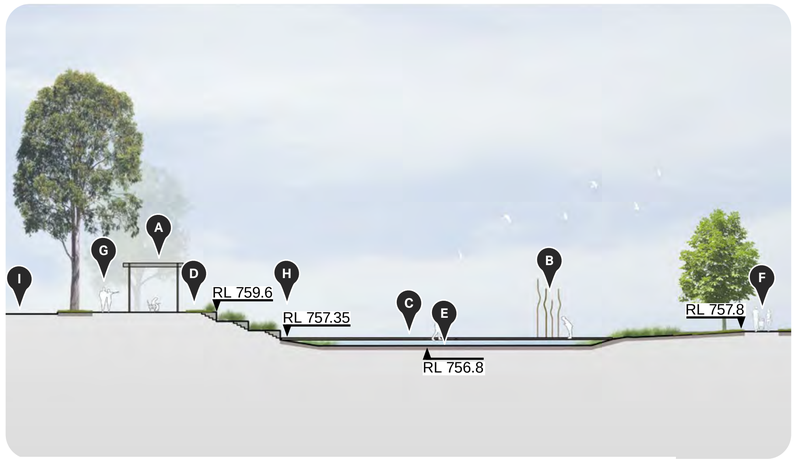
NOTE:
STANDARD STREET FOOTPATHS ARE NOT SHOWN IN THIS PLAN

SCALE 1:5,000 (A1)
metres
0 20 50 100 150 200 250 300
SCALE 1:10,000 (A3)

AECOM

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C	DEVELOPMENT APPLICATION	03.09.2021	JB

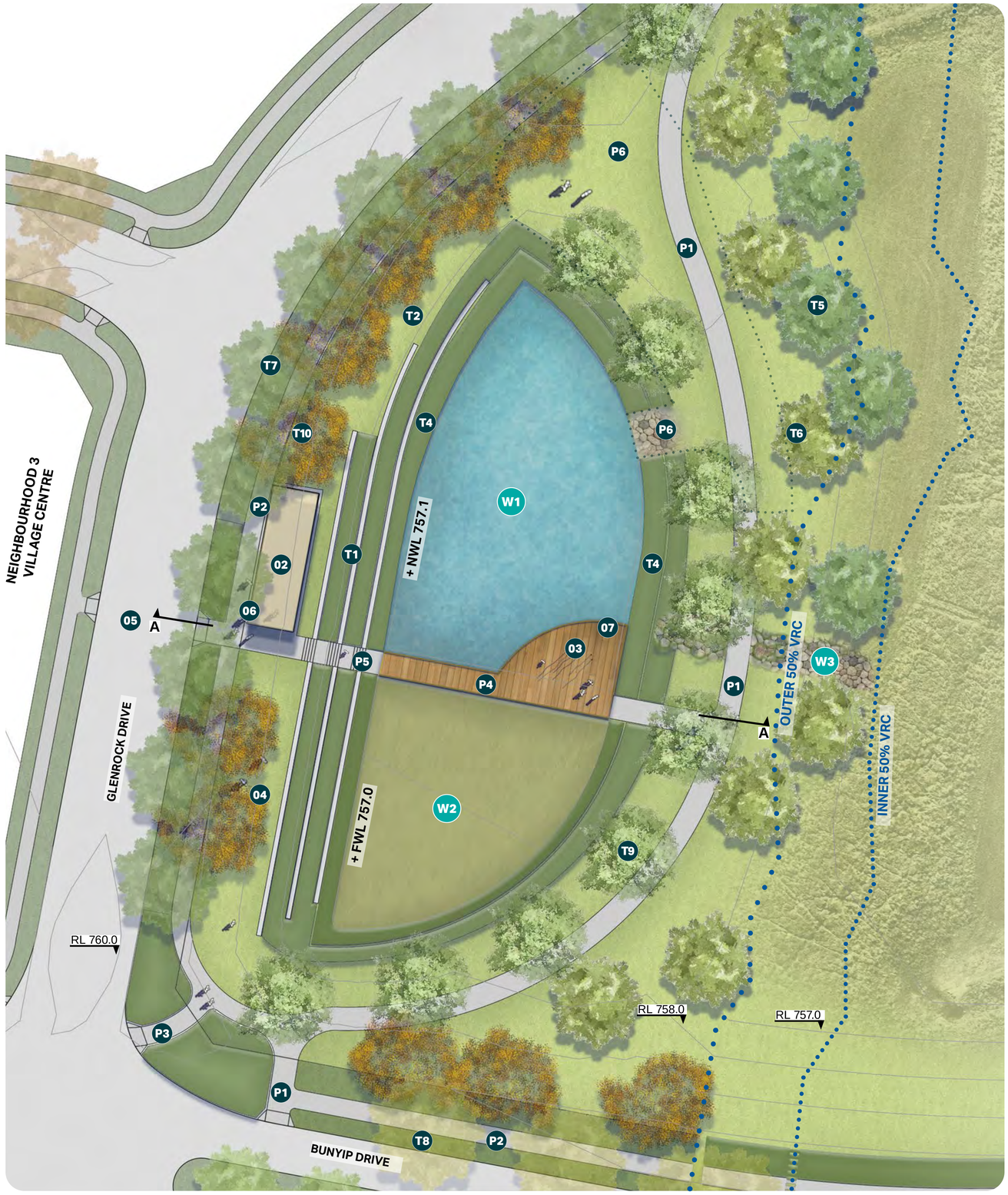
TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-07**



TYPICAL SECTION A-A: WSUD 04 1:250

Key

A	MEDIUM SHELTER WITH SEATING OVERLOOKING WATER	E	WSUD 04
B	BOARDWALK VIEWING PLATFORM WITH SCULPTURAL ELEMENT OF REEDS	F	ACCESSIBLE 2.5M SHARE PATH
C	BOARDWALK WITH KICKRAIL	G	ACCESSIBLE 2.0M KEY PATH
D	FLAT TURFED LAWN AREA	H	GABION RETAINING WALLS WITH NATIVE PLANTED TERRACES (750MM HIGH)
I	PEDESTRIAN CROSSING TO NEIGHBOURHOOD 3 VILLAGE CENTRE		



SCALE 1:250 (A1)
metres
0 1 2.5 5 7.5 10 12.5 15
SCALE 1:500 (A3)

GOOGONG



VILLAGE CENTRE

NEIGHBOURHOOD 3:
VILLAGE CENTRE AND WSUD 04 - CONCEPT PLAN

KEY	
01	BOARDWALK VIEWING PLATFORM
02	MEDIUM SHELTER WITH SEATING OVERLOOKING WATER
03	BOARDWALK VIEWING PLATFORM WITH SCULPTURAL ELEMENT OF REEDS
04	FLAT TURFED LAWN AREA
05	PEDESTRIAN CROSSING THROUGH TO VILLAGE CENTRE
06	COMMON SIGNAGE
07	INTERPRETIVE SIGNAGE
ACCESS	
P1	2.5M SHARE PATH - BRUSHED CONCRETE
P2	2.0M KEY PATH - BRUSHED CONCRETE
P3	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE
P4	BOARDWALK CROSSING
P5	STEP ACCESS TO LOWER DECK
P6	GRASSED MAINTENANCE ACCESS ROUTE AND SEDIMENTATION BAY
TREES AND PLANTING	
T1	GABION RETAINING WALLS WITH NATIVE PLANTED TERRACES
T2	DRYLAND GRASS MIX
T4	MACROPHYTE PLANTING TO OPEN WATER
T5	*Casuarina cunninghamiana*
T6	*Eucalyptus mannifera spp. Maculosa*
T7	*Eucalyptus polyanthemos*
T8	*Liriodendron tulipifera*
T9	*Ulmus parvifolia 'Todd'*
T10	*Zelkova serrata 'Green Vase'*
WATER ELEMENTS (WSUD 04)	
W1	OPEN WATER - SEDIMENTATION BASIN
W2	PLANTED BIORETENTION BASIN
W3	ROCK SPILLWAY

AECOM

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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:250 @ A1
DRAWING NO.	**L-08**

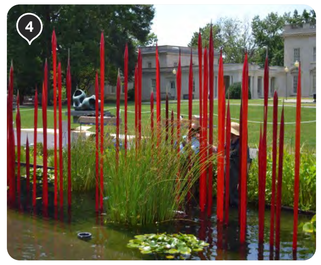
Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Trees				
Casuarina cunninghamiana	River She-Oak	100L	10	5
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20	10
Eucalyptus melliodora	Yellow Box	300mm anti spiral	30	15
Eucalyptus nortonii	Norton's Box	300mm anti spiral	15	10
Eucalyptus polyanthemos	Red Box	300mm anti spiral	20	10
Ulmus parvifolia 'Todd'	Chinese Elm	200L	10	7
Zelkova serrata 'Green Vase'	Manchurian Pear	100L	10	4
Shrubs and Groundcovers				
Grevillea lanigera 'Mt Tamboritha'	Mt Tamboritha Grevillea	140mm	0.5	1.5
Grevillea rosmarinifolia 'Crimson Villea'	Crimson Villea Grevillea	140mm	0.8	0.8
Lomandra longifolia 'Verday'	Verday Lomandra	140mm	0.5	0.6
Trachelospermum jasminoides	Star Jasmine	140mm	0.5	Spreading
Hebe speciosa 'Pretty N Pink'	Hebe speciosa	140mm	1	1
Leptospernum 'Pink Cascade'	Pink Cascade	140mm	0.5	1.2
Rosa 'Flower Carpet Amber'	Groundcover Rose	140mm	0.7	1

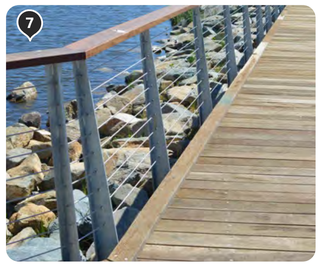
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Rosmarinus 'Blue Lagoon'	Prostate Rosemary	140mm	0.7	1
Macrophytes				
Bolboschoneus caldwellii	Sea Club-rish	tube	0.9	Spreading
Bolboschoneus fluviatilis	Marsh Club-rush	tube	1	Spreading
Baumea gunnii	Slender Twig-sedge	tube	1	Spreading
Carex fascicularis	Tassel Sedge	tube	1	0.5
Eleocharis acuta	Common Spike Rush	tube	0.9	0.5
Juncus usitatus	Common Rush	tube	1	Spreading
Bioretention Basin / Swale				
Atriplex semibaccata	Creeping Salt Bush	Viro tube	0.2	1.5
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Carex appressa	Saw Sedge	Viro tube	0.8	0.6
Chrysocephalum apiculatum	Yellow Buttons	Viro tube	0.4	Spreading
Dianella revoluta	Black Anther Flax Lily	Viro tube	0.8	0.5
Dichelachne micrantha	Short Hair Plume Grass	Viro tube	1.25	0.3
Ficinia nodosa	Knobby Club Rush	Viro tube	1	1
Imperata cylindrica	Blady grass	Viro tube	1	1
Juncus usitatus	Common Rush	Viro tube	1	0.7
Microlaena stipoides	Weeping Grass	Viro tube	0.3	Spreading
Poa labillardierei	Tussock Grass	Viro tube	1	0.6
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6

Character




Materials




Planting







GOOGONG

VILLAGE CENTRE

NEIGHBOURHOOD 3:
VILLAGE CENTRE AND WSUD -
PLANTING AND LANDSCAPE CHARACTER

KEY

1	BIORETENTION BASIN
2	WEIR WALLS AND OPEN WATER
3	BOARDWALK
4	REEDS SCULPTURE
5	TERRACE WALLS
6	FEATURE BLADE WALLS
7	TIMBER DECK AND BALUSTRADE
8	GABION WALLS
9	TURF AND CONCRETE INTERFACE
10	TIMBER DECK
11	*Eucalyptus melliodora*
12	*Zelkova serrata 'Green Vase'*
13	*Lomandra longifolia 'Verday'*
14	*Grevillea lanigera*
15	*Juncus usitatus*

AECOM

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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	
DRAWING NO.	**L-09**

GOOGONG



VILLAGE CENTRE

NEIGHBOURHOOD PARK 4 AND SPORTSFILED 7 - CONCEPT PLAN

KEY

01	INTERPRETIVE, COMMON AND BUILDING SIGNAGE

ACCESS

P1	2.5M SHARED PATH - BRUSHED CONCRETE
P2	2.0M KEY PATH - BRUSHED CONCRETE

SPORTING AND PLAY ELEMENTS

S1	LOOKOUT 'RACING' PLAY TOWER
S2	'LEARN TO RIDE' TRAIL COMPRISING: TUNNEL HOOPS, SPEED HUMPS, MOUNDS, FOREST MAZE, MUSICAL BRIDGE
S3	ATHLETICS TRACK AND SPORTING EVENTS

CIVIC SPACE AND FACILITIES

C1	INFORMAL OPEN SPACE PICNIC AND KICK-ABOUT AREA
C2	SMALL SHELTER WITH PICNIC SETTING, BBQ, BUBBLER, BINS AND BIKE RACK
C3	COMMUNITY FACILITIES BUILDING COMBINED WITH AMENITIES INLOCK SERVICING SPORTS AND PLAY AREAS.
C4	CAR PARK
C5	CHILD CARE SITE
C6	VILLAGE CENTRE/COMMERCIAL LOT

TREES AND PLANTING

T1	EXISTING TREE - PRELIMINARY TREE IMPACTS TO BE CONFIRMED
T2	DRYLAND GRASS MIX
T3	IRRIGATED TURF
T4	EXOTIC TREE MIX: - *Acer x freemanii 'Autumn Blaze'* - *Betula pendula* - *Fraxinus oxycarpa 'Raywood'* - Fraxinus pennsylvanica - *Magnolia grandiflora*
T5	NATIVE TREE MIX: - *Eucalyptus mannifera spp. Maculosa* - *Eucalyptus melliodora* - *Eucalyptus nortonii* - *Eucalyptus polyanthemos*
T6	STREET TREES (REFER TO STREET TREE MASTERPLAN)

AECOM

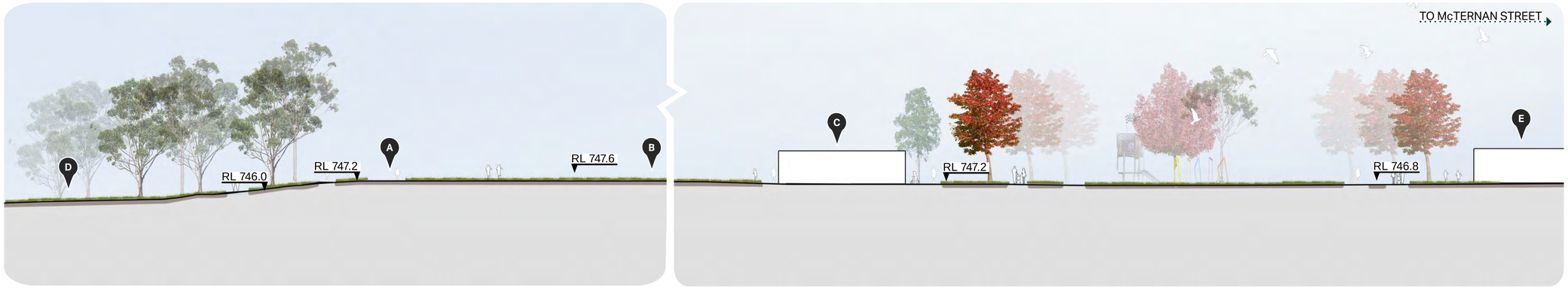
NO.	REVISION	DATE	REVIEWED
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PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:500 @ A1
DRAWING NO.	**L-10**

SCALE 1:500 (A1)

0 2 5 10 15 20 25 30 metres

SCALE 1:1,000 (A3)



TYPICAL SECTION A-A: NEIGHBOURHOOD PARK 4 1:300

Key

A	LONG JUMP	D	RIPARIAN CORRIDOR
B	SPORTSFIELD 7	E	CHILD CARE SITE
C	COMMUNITY FACILITIES BUILDING	F	PLAY AND BIKE RIDING AREA



TYPICAL SECTION B-B: VILLAGE CENTRE AND PLAYGROUND 1:300

Key

A	'LEARN TO RIDE' TRAIL	D	NEIGHBOURHOOD 4 VILLAGE CENTRE
B	SCULPTURAL TUNNELS ALONG BICYCLE TRAIL	E	2.5M SHARE PATH
C	LANEWAY	F	2.0M KEY PATH

GOOGONG

VILLAGE CENTRE

NEIGHBOURHOOD 4:
NEIGHBOURHOOD PARK 4 AND SPORTSFILED 7 - TYPICAL SECTIONS

AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:300 @ A1
DRAWING NO.	**L-011**

Planting Schedule

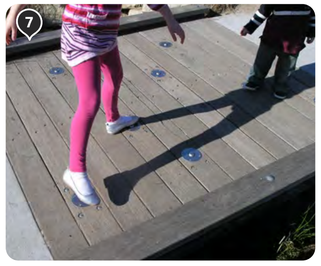
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Exotic				
Trees				
Acer x freemanii 'Autumn Blaze'	Freeman Maple	100L	13	10
Betula pendula	Silver Birch	100L	15	6
Fraxinus oxycarpa 'Raywood'	Claret Ash	100L	12	7
Fraxinus pennsylvanica	Green Ash	100L	15	8
Magnolia grandiflora	Bull Bay Magnolia	100L	10	5
Malus spectabilis	Chinese Crab Apple	100L	5	3
Pinus radiata	Radiata Pine	100L	15	5
Shrubs and groundcovers				
Hebe 'Inspiration'	Inspiration Hebe	150mm	0.7	0.7
Gazania tomentosum	Gazania	150mm	0.2	0.7
Lavandula angustifolia	English Lavendar	150mm	1	1
Native				
Trees				
Casuarina cunninghamiana	River She Oak	100L	10	5
Eucalyptus melliodora	Yellow Box	300mm anti spiral	30	15
Eucalyptus elata	River Peppermint	300mm anti spiral	25-30	15
Eucalyptus nicholii	Narrow-leaved Peppermint	300mm anti spiral	12	10
Eucalyptus polyanthemos	Red Box	300mm anti spiral	20	10
Melaleuca ericifolia	Swamp Paperbark	300mm anti spiral	8	4
Melaleuca styphelioides	Prickly Leaved Paperbark	300mm anti spiral	8	4
Eucalyptus albens	White Box	300mm anti spiral	20	10
Eucalyptus blakelyi	Blakely's red Gum	300mm anti spiral	20	10
Shrubs and groundcovers				
Chrysocephalum apiculatum	Yellow Buttons	150mm	0.6	0.5
Grevillea langira 'Mt Tamboritha'	Grevillea langera 'Mt Tamboritha'	150mm	0.3	1
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
Westringia 'Jervis Gem'	Jervis Gem Westringia	150mm	1	1.5
Grasses				
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Dianella revoluta	Blue Flax Lily	Viro tube	0.5	0.5
Imperata cylindrica	Blady grass	Viro tube	1	1
Lomandra longifolia	Spiny Mat Rush	Viro tube	1	1
Lomandra 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Poa labillardieri	Tussock Grass	Viro tube	0.5	0.1
Stypandra glauca	Nodding Blue Lily	Viro tube	0.3	0.4
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6

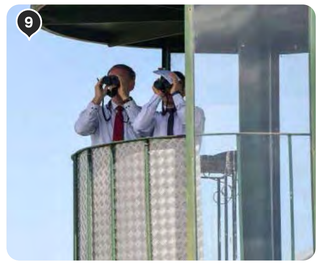
Character












Planting







GOOGONG

VILLAGE CENTRE

NEIGHBOURHOOD 4:
NEIGHBOURHOOD PARK 4 AND SPORTSFILED 7 - PLANTING AND LANDSCAPE CHARACTER

KEY

1	LEARN TO RIDE SPACE
2	RACING THEMED PLAY SPACE
3	ATHLETICS TRACK
4	CHILDREN BIKE RIDING FACILITIES
5	ACTIVE CLIMBING PLAY TOWER
6	ROCK BOULDERS
7	SENSORY PLAY BRIDGE
8	INTERACTIVE SCULPTURAL PLAY
9	'LOOK OUT' RACING TOWER PLAY STRUCTURE
10	'LEARN TO RIDE' TRAIL
11	*Acer x freemanii 'Autumn Blaze'*
12	*Fraxinus pennsylvanica*
13	*Chrysocephalum apiculatum*
14	*Hardenbergia violacea*
15	*Lomandra 'Tanika'*

AECOM

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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-12**



SCALE 1:500 (A1)

metres 0 2 5 10 15 20 25 30

SCALE 1:1,000 (A3)

GOOGONG



VILLAGE CENTRE

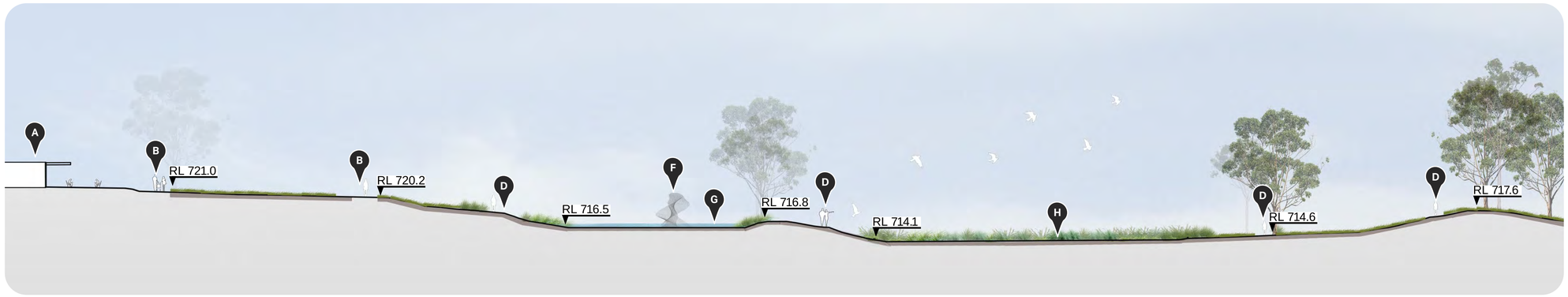
NEIGHBOURHOOD 5:
VILLAGE CENTRE OPEN SPACE AND WSUD 09 CONCEPT PLAN

KEY	
01	BOARDWALK VIEWING PLATFORM
02	CAFE SEATING AREA
03	LAWN WITH VIEWS OVER PARK
04	KICKABOUT SPACE
05	SCULPTURAL ELEMENT VISIBLE FROM GORMAN DRIVE BRIDGE AND VILLAGE CENTRE
06	RETAINING WALLS WITH PLANTED TERRACES
07	INTERPRETIVE SIGNAGE
08	BUILDING SIGNAGE
ACCESS	
P1	2.0M KEY PATH - BRUSHED CONCRETE (ACCESSIBLE)
P2	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE (ACCESSIBLE)
P3	BUSH TRACK NETWORK
P4	BOARDWALK OVER SEDIMENT OVERFLOW ZONE
P5	CONSTRUCTED BUSHTRACK NH1B 2A
P6	GRASSED MAINTENANCE ACCESS ROUTE AND SEDIMENTATION BAY
TREES AND PLANTING	
T1	DRYLAND GRASS MIX
T2	MACROPHYTE PLANTING TO OPEN WATER
T3	POCKETS OF NATIVE PLANTING TO CREATE HABITAT
T4	TREES TO BE PLANTED IN GROUPS OF LIKE SPECIES INCLUDING: - *Eucalyptus mannifera spp. Maculosa* - *Eucalyptus melliodora* - *Eucalyptus nortonii* - *Eucalyptus polyanthemos*
WATER ELEMENTS (WSUD 04)	
W1	OPEN WATER - SEDIMENTATION BASIN
W2	PLANTED BIORETENTION BASIN

AECOM

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DATE	03.06.2022
SCALE	1:500 @ A1
DRAWING NO.	**L-013**



TYPICAL SECTION A-A: VILLAGE CENTRE 5 AND WSUD 09: 1:300

Key

A	NEIGHBOURHOOD 5 VILLAGE CENTRE CAFE SEATING AREA	E	BUSH TRACK NETWORK
B	2.0M KEY PATH	F	SCULPTURAL ELEMENT IN WATER
C	2.0M KEY PATH	G	SEDIMENT BASIN
D	BUSH TRACK NETWORK	H	BIORETENTION BASIN

GOOGONG

VILLAGE CENTRE

NEIGHBOURHOOD 5:
VILLAGE CENTRE OPEN SPACE AND WSUD 09
TYPICAL SECTION

AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:300 @ A1
DRAWING NO.	**L-014**

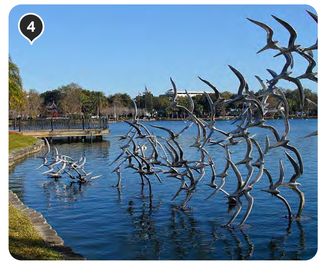
Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	MATURE SPREAD
Trees				
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20	10
Eucalyptus melliodora	Yellow Box	300mm anti spiral	30	15
Eucalyptus nortonii	Norton's Box	300mm anti spiral	15	10
Eucalyptus polyanthemos	Red Box	300mm anti spiral	20	10
Shrubs and Groundcovers				
Grevillea lanigera 'Mt Tamboritha'	Mt Tamboritha Grevillea	140mm	0.5	1.5
Grevillea rosmarinifolia 'Crimson Villea'	Crimson Villea Grevillea	140mm	0.8	0.8
Lomandra longifolia 'Verday'	Verday Lomandra	140mm	0.5	0.6
Trachelospermum jasminoides	Star Jasmine	140mm	0.5	Spreading
Leptospernum 'Pink Cascade'	Pink Cascade	140mm	0.5	1.2

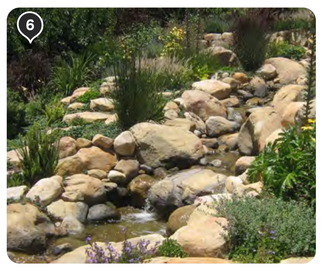
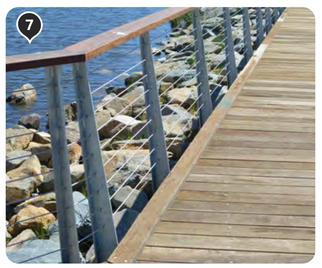
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	MATURE SPREAD
Macrophytes				
Bolboschoneus caldwellii	Sea Club-rish	tube	0.9	Spreading
Bolboschoneus fluviatilis	Marsh Club-rush	tube	1	Spreading
Baumea gunnii	Slender Twig-sedge	tube	1	Spreading
Carex fascicularis	Tassel Sedge	tube	1	0.5
Eleocharis acuta	Common Spike Rush	tube	0.9	0.5
Juncus usitatus	Common Rush	tube	1	Spreading
Bioretention Basin / Swale				
Atriplex semibaccata	Creeping Salt Bush	Viro tube	0.2	1.5
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Carex appressa	Saw Sedge	Viro tube	0.8	0.6
Chrysocephalum apiculatum	Yellow Buttons	Viro tube	0.4	Spreading
Dianella revoluta	Black Anther Flax Lily	Viro tube	0.8	0.5
Dichelachne micrantha	Short Hair Plume Grass	Viro tube	1.25	0.3
Ficinia nodosa	Knobby Club Rush	Viro tube	1	1
Imperata cylindrica	Blady grass	Viro tube	1	1
Juncus usitatus	Common Rush	Viro tube	1	0.7
Microlaena stipoides	Weeping Grass	Viro tube	0.3	Spreading
Poa labillardierei	Tussock Grass	Viro tube	1	0.6
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6

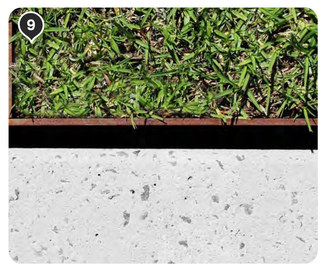
Character




Materials




Planting







GOOGONG

VILLAGE CENTRE

NEIGHBOURHOOD 5:
VILLAGE CENTRE OPEN SPACE AND WSUD 09
PLANTING AND LANDSCAPE CHARACTER

KEY

1	BIORETENTION BASIN
2	WEIR WALLS AND OPEN WATER
3	BOARDWALK
4	SCULPTURAL ELEMENT IN WATER EXAMPLE
5	TERRACE WALLS
6	ROCK BOULDERS
7	TIMBER DECK AND BALUSTRADE
8	GABION WALLS
9	TURF AND CONCRETE INTERFACE
10	TIMBER DECK
11	*Acer rubrum 'October Glory'*
12	*Zelkova serrata 'Green Vase'*
13	*Lomandra longifolia 'Verday'*
14	*Grevillea lanigera*
15	*Juncus usitatus*

AECOM

NO.	REVISION	DATE	REVIEWED
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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-015**

GOOGONG



PARKS AND PLAYGROUNDS

OLD COOMA ROAD AND ENTRY CONCEPT PLAN

CONCEPT PLAN



KEY

ACCESS	
P2	2.5m SHARED PATH
TREES AND PLANTING	
T1	PROPOSED SMALL TREE MIX (MAX. HEIGHT 7M) COMPRISING: *Eucalyptus leucoxylon 'Rosea'* *Eucalyptus stellulata 'Little Star'* *Melaleuca styphelioides*
T2	FEATURE ENTRY PLANTING AND FENCING (*REFER DETAIL PLAN L-017*)
T3	BULB PLANTING EITHER SIDE OF ENTRY COMPRISING *Jonquils and Narcissus SPECIES*
T4	SWATHES OF LOW PLANTING ON BATTERS COMPRISING GRASSES, GROUNDCOVERS AND LOW SHRUBS (MAXIMUM 3m IN HEIGHT)
T4	DRYLAND GRASS
T5	EXISTING TREE TO BE RETAINED AND PROTECTED
T6	*Acer rubrum 'October Glory'*
T7	*Casuarina cunninghamiana*
T8	*Eucalyptus alba*
T9	*Eucalyptus mannifera spp. Maculosa*
T10	*Eucalyptus mannifera spp. Maculosa*
T11	*Liriodendron tulipifera*
T12	TERRACED LAWN

SERVICES COORDINATION

Key

	SITE BOUNDARY		POWER POLE. MAINTAIN 2m CLEARANCE IN ANY DIRECTION
	SIGHT DISTANCE ENVELOPE		OVERHEAD ELECTRICITY ALIGNMENT.
	UNDERGROUND 11KV CABLE. MAINTAIN A 4m CLEARANCE EITHER		ELECTRICAL EASEMENT BOUNDARY 35m WIDE FROM PROPERTY BOUNDARY
	OVERHEAD ELECTRICITY 7M OFFSET FOR ALL SMALL TREES		

SCALE 1:750 (A1)

0 10 20 30 40 50 metres

SCALE 1:1,500 (A3)

AECOM

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DATE	03.06.2022
SCALE	1:750 @ A1
DRAWING NO.	**L-016**



SCALE 1:250 (A1)

metres 0 1 2.5 5 7.5 10 12.5 15

SCALE 1:500 (A3)

GOOGONG



PARKS AND PLAYGROUNDS

OLD COOMA ROAD AND ENTRY DETAIL PLAN

KEY

SERVICES	
	POWER POLES
	OVERHEAD ELECTRICITY ALIGNMENT
	UNDERGROUND 11KV CABLE. MAINTAIN A 4m CLEARANCE EITHER SIDE OF CABLE FOR ALL PLANTING
	OVERHEAD ELECTRICITY 7M OFFSET FOR ALL SMALL TREES
	ELECTRICAL EASEMENT BOUNDARY 35m WIDE FROM PROPERTY BOUNDARY
ACCESS AND BOUNDARIES	
P2	2.5m SHARED PATH
F1	1.8M HIGH FEATURE FENCING TO WESTERN LOT BOUNDARY: STONE PILLARS WITH TIMBER INFILL
TREES AND PLANTING	
T1	PROPOSED SMALL TREE MIX (MAX. HEIGHT 7M) COMPRISING: *Acacia rubida* *Eucalyptus leucoxylon 'Rosea'* *Eucalyptus stellulata 'Little Star'* *Melaleuca styphelioides*
T2	FEATURE SHRUB PLANTING *Photinia x fraseri* *Westringia fruticosa* *Rosmarinus 'Blue Lagoon'* *Chrysocephalum apiculatum* *Rosa 'Flower Carpet White'* *Juniperus conferta*
T3	BULB PLANTING EITHER SIDE OF ENTRY COMPRISING *Jonquils and Narcissus SPECIES*
T4	SWATHES OF LOW PLANTING ON BATTERS COMPRISING GRASSES, GROUNDCOVERS AND LOW SHRUBS (MAXIMUM 3m HIGH)
T5	DRYLAND GRASS
T6	EXISTING TREE TO BE RETAINED AND PROTECTED
T7	*Liquidambar styracifica 'Oakville Highlight'*
T8	*Malus 'Royal Raindrops'*

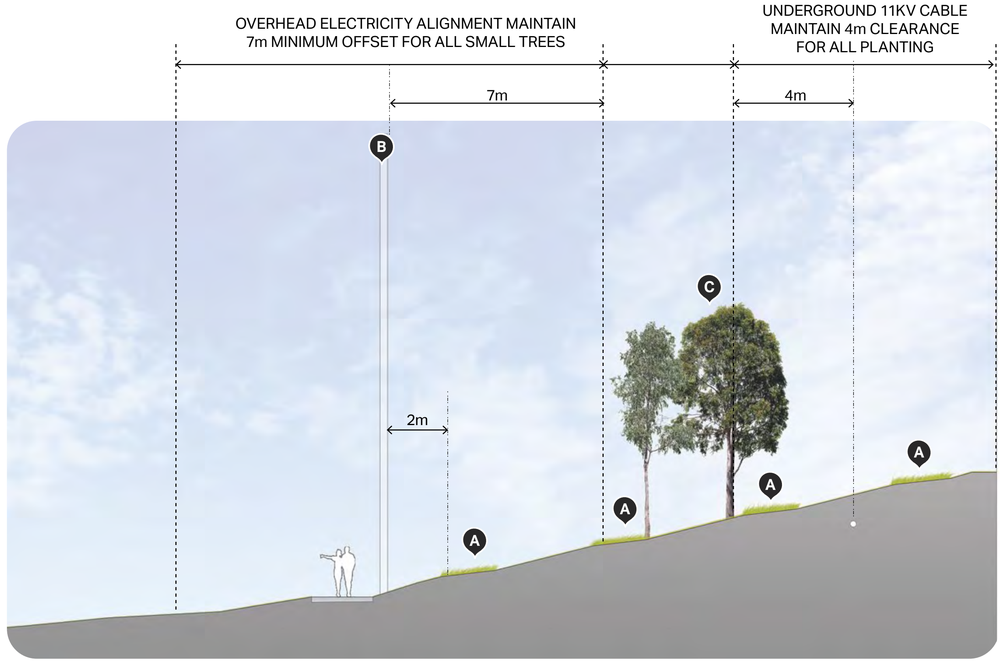
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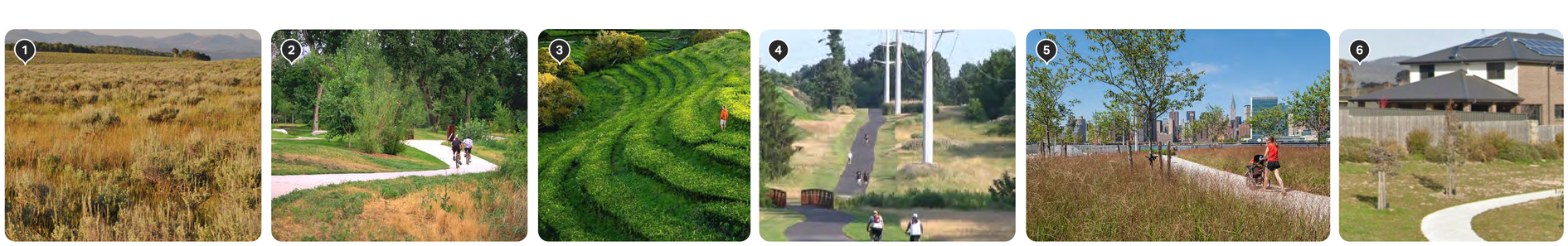
Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Native				
Trees (Outside easement)				
Liquidambar styracifica 'Oakville Highlight'	Sweetgum *'Oakville Highlight'*	200L	15	4
Malus 'Royal Raindrops'	Crabapple	100L	6	4.5
Small Trees (within easement)				
Acacia rubida	Red-stemmed Wattle	150mm	5	5
Eucalyptus leucoxylon 'Rosea'	Red Flowering Yellow Gum	300mm anti spiral	7	10
Eucalyptus stellulata 'Little Star'	Black Sallee	300mm anti spiral	7	10
Melaleuca styphelioides	Prickly Leaved Paperbark	300mm anti spiral	7	8
Shrubs (within easement)				
Bursaria spinosa	Sweet Bursaria	150mm	3	3
Callistemon linearis	Narrow Leaved Bottlebrush	150mm	3	3
Grevillea sericea	Silk Spider Flower	150mm	2	1.5
Kunzea ericoides	Burgan	150mm	2	2
Westringia fruticosa	Coastal Rosemary	150mm	1.5	1.5
Grasses and groundcovers				
Dianella caerulea 'Aranda'	Aranda Flax Lily	150mm	0.3	0.3
Grevillea langira 'Mt Tamboritha'	Grevillea langera 'Mt Tamboritha'	150mm	0.3	1
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
*Lomandra 'Tanika'**	Tanika Mat Rush	150mm	0.5	0.6
Poa poiformis 'Kingsdale'	Kingsdale	150mm	0.5	0.5
Feature shrub and groundcover Mix				
Chrysocephalum apiculatum	Yellow Buttons	150mm	0.6	0.5
Juniperus conferta	Groundcover Juniper	150mm	0.5	Spreading
Photinia x fraseri	Photinia Red Robin	150mm	3	4
Rosmarinus 'Blue Lagoon'	Prostrate Rosemary	150mm	0.7	1
Rosa 'Flower Carpet White'	Flower Carpet White Rose	150mm	0.7	1
Westringia fruticosa	Coastal Rosemary	150mm	1.5	1.5
Bulbs				
Jonquil 'Mixed Shades'	Jonquil Mixed Shades	Bulb	0.3	0.2
Narcissus 'Mixed Daffodils'	Daffodil Mixed	Bulb	0.3	0.2



Typical Section A-A **1:100**

Character



Trees



Shrubs



GOOGONG

PARKS AND PLAYGROUNDS

OLD COOMA ROAD AND ENTRY - PLANTING AND LANDSCAPE CHARACTER KEY

A	SWATHES OF LOW PLANTING COMPRISING GRASSES, GROUNDCOVERS AND LOW SHRUBS (MAXIMUM 3m IN HEIGHT)
B	POWER POLE. MAINTAIN 2m CLEARANCE IN ANY DIRECTION
C	PROPOSED SMALL TREE MIX (MAX. HEIGHT 7M)
1	DRYLAND GRASS
2	SHARE PATH
3	TERRACED LAWN
4	EASEMENT AND OVERHEAD ELECTRICITY
5	SHARE PATH
6	1.8M HIGH FEATURE FENCING TO WESTERN LOT BOUNDARY: STONE PILLARS WITH TIMBER INFILL
7	*Melaleuca styphelioides*
8	*Eucalyptus stellulata 'Little Star'*
9	*Eucalyptus leucoxylon 'Rosea'*
10	*Liquidambar styracifica 'Oakville Highlight'*
11	*Malus 'Royal Raindrops'*
12	*Grevillea sericea*
13	*Acacia rubida*
14	*Westringia fruticosa*
15	*Chrysocephalum apiculatum*
16	*Rosmarinus 'Blue Lagoon'*
17	*Rosa 'Flower Carpet White'*

AECOM

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SCALE	-
DRAWING NO.	**L-018**



SCALE 1:300 (A1)

0 1.5 3 6 9 12 15 18 metres

SCALE 1:600 (A3)

GOOGONG



PARKS AND PLAYGROUNDS

NEIGHBOURHOOD PARK 3 - CONCEPT PLAN

KEY

01	MEDIUM SHELTER WITH PICNIC SETTINGS, BBQ AND BUBBLER, RUBBISH/RECYCLING BIN AND BIKE RACKS
02	SCULPTURAL PLAY ELEMENT THAT DEPICTS *Allocasuarina* SEED POD
03	*Allocasuarina verticillata* THEMED SCULPTURAL ELEMENTS
04	PARK SIGNAGE
05	INTERPRETIVE SIGNAGE
06	ORIENTATION SIGNAGE
07	PARK ENTRY NODE

ACCESS

P1	2.0M KEY PATH - BRUSHED CONCRETE CONNECTING NP3 AND NANGI PIMBLE
P2	BUSH TRACK NETWORK LEADING TO NANGI PIMBLE

TREES AND PLANTING

T1	EXISTING MEDIUM VALUE TREE TO BE RETAINED AND PROTECTED
T2	MASS PLANTING OF *Allocasuarina verticillata*
T3	TREES TO BE PLANTED IN GROUPS OF LIKE SPECIES INCLUDING: - *Eucalyptus mannifera spp. Maculosa* - *Eucalyptus melliodora* - *Eucalyptus nortonii* - *Eucalyptus polyanthemos*
T4	DRYLAND GRASS MIX
T5	EXISTING TREES TO BE PROTECTED AND RETAINED
T6	*Ulmus parvifolia 'Todd'*
T7	*Eucalyptus mannifera spp. Maculosa*

AECOM

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DATE	03.06.2022
SCALE	1:300 @ A1
DRAWING NO.	**L-019**

GOOGONG

**NEIGHBOURHOOD PARK 3 -
TYPICAL SECTION**



TYPICAL SECTION A-A: NEIGHBOURHOOD PARK 3: 1:150

Key

A	SCULPTURAL PLAY ELEMENT THAT DEPICTS *Allocasuarina* SEED POD	E	MEDIUM SHELTER WITH PICNIC SETTINGS
B	*Allocasuarina verticillata* THEMED SCULPTURAL ELEMENTS	F	BIKE RACKS
C	2.0M KEY PATH	G	TIMBER BENCH WITH VIEW OF HILL
D	1.5M PEDESTRIAN PATH		

AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:150 @ A1
DRAWING NO.	**L-020**

Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Native				
Trees				
Allocasuarina verticillata	Drooping Sheoak	100mm	8	7
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	virotube / 5L	20	10
Eucalyptus melliodora	Yellow Box	5L / 20L	30	15
Eucalyptus nortonii	Norton's Box	virotube / 5L	15	10
Eucalyptus polyanthemos	Red Box	5L /20L	20	10
Shrubs and groundcovers				
Acacia pravissima	Oven's Wattle	150mm	5	3
Acacia rubida	Red-stemmed Wattle	150mm	5	5
Callistemon linearis	Narrow Leaved Bottlebrush	150mm	3	3
Chrysocephalum apiculatum	Yellow Buttons	150mm	0.6	0.5
Grevillea rosmarinifolia 'Crimson Villea'	Grevillea 'Crimson Villea'	150mm	0.8	0.8
Grevillea 'Royal Mantle'	Royal Mantle Grevillea	150mm	0.2	4
Grevillea sericea	Silk Spider Flower	150mm	2	1.5
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
Kunzea ericoides	Burgan	150mm	2	2
Westringia fruticosa	Coastal Rosemary	150mm	1.5	1.5

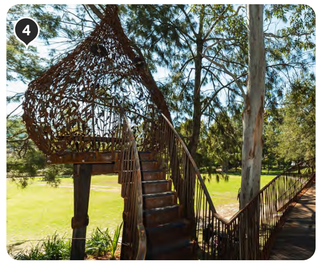
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Grasses				
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Austrodanthonia tenuior	Wallaby Grass	Viro tube	1.1	0.4
Dianella revoluta	Blue Flax Lily	Viro tube	0.5	0.5
Eragrostis brownii	Browns Love Grass	Viro tube	0.8	0.6
Imperata cylindrica	Blady grass	Viro tube	1	1
Lomandra 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Poa labillardieri	Tussock Grass	Viro tube	0.5	0.1
Poa sieberiana var. sieberiana	Snowgrass	Viro tube	1	0.5
Stypandra glauca	Nodding Blue Lily	Viro tube	0.3	0.4
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6
Turf				
Canberra Blend	Turf		N/A	N/A
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Character







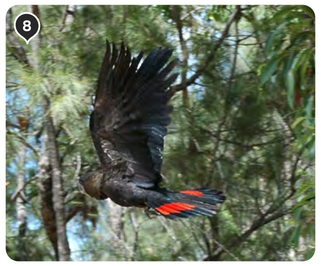






Materials











Planting











GOOGONG

NEIGHBOURHOOD PARK 3 -
PLANTING AND LANDSCAPE CHARACTER

KEY

1	*Allocasuarina verticillata* THEME PLAY
2	*Allocasuarina verticillata* THEME PLAY
3	ENHANCED HABITAT FOR LOCAL BIRDS
4	*Allocasuarina verticillata* THEME PLAY
5	SCULPTURAL PLAY ELEMENT
6	*Allocasuarina verticillata* THEMED SCULPTURAL ELEMENT 'ROLLING DOWN HILL APPEARANCE'
7	SIGNAGE
8	COCKATOO HABITAT
9	GABION WALLS
10	EXISTING ROCK STRIKES
11	DECOMPOSED GRANITE
12	*Allocasuarina verticillata*
13	*Eucalyptus melliodora*
14	*Acacia rubida*
15	*Westringia fruticosa*
16	*Grevillea sericea*

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SCALE	-
DRAWING NO.	**L-021**



SCALE 1:1,000 (A1)

SCALE 1:2,000 (A3)

0 5 10 20 30 40 50 60 metres

GOOGONG



PARKS AND PLAYGROUNDS

YELLOW BOX RESERVE AND REGIONAL PLAYGROUND - CONCEPT PLAN

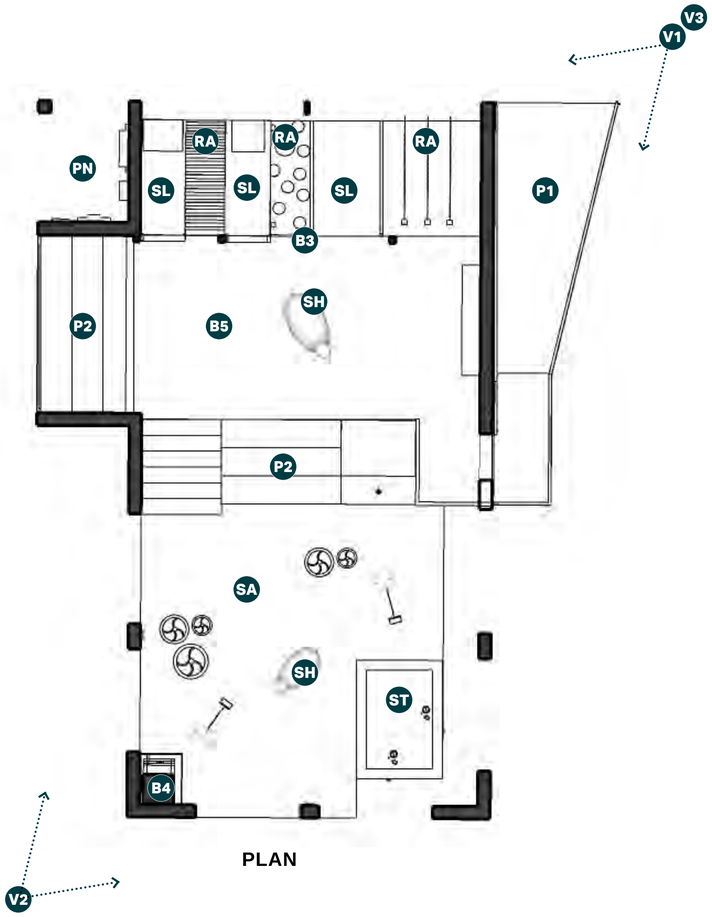
KEY

	SITE BOUNDARY
	PERMANENT BOLLARDS
	POTENTIAL FUTURE CONNECTION
01	PARK, ORIENTATION AND INTERPRETIVE SIGNAGE
02	SEATING NODE AND RESTING SPOT / LOOKOUT
03	SHEARING SHED EDUCATION AND INFORMATION CENTRE
04	SHELTER WITH PICNIC TABLES, BUBBLER, BINS AND BIKE RACKS
ACCESS	
P1	2.5M SHARE PATH - BRUSHED CONCRETE
P2	1.5M BUSH TRACK - DECOMPOSED GRANITE
P3	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE
P4	BOARDWALK CROSSING
TREES AND PLANTING	
T1	TREES IN ACCORDANCE WITH PCT 1334 - YELLOW BOX GRASSY WOODLAND: *- Eucalyptus blakelyi* *-Eucalyptus dives* *- Eucalyptus melliodora* *- Eucalyptus nortonii* *- Eucalyptus polyanthemos*
T2	EXISTING TREE TO BE RETAINED AND PROTECTED
T3	EXISTING CRITICALLY ENDANGERED YELLOW BOX GUM WOODLAND GROUND STORY TO BE RETAINED AND IMPROVED AS PER VEGETATION MANAGEMENT PLAN.
T4	*Eucalyptus alba*
T5	*Eucalyptus albens*
T6	*Eucalyptus nicolii*
T7	*Eucalyptus polyanthemos*
T8	*Liriodendron tulipifera*
T9	*Pyrus calleryana 'Chanticleer'*
T10	*Ulmus parvifolia 'Todd'*
T11	*Pistacia chinensis*
T12	*Eucalyptus leucoxylon*

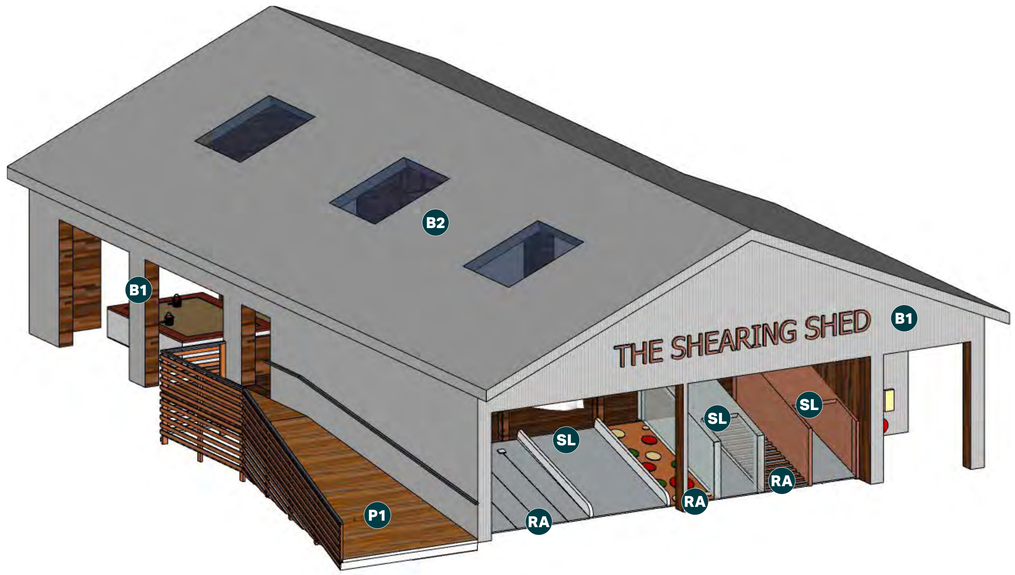
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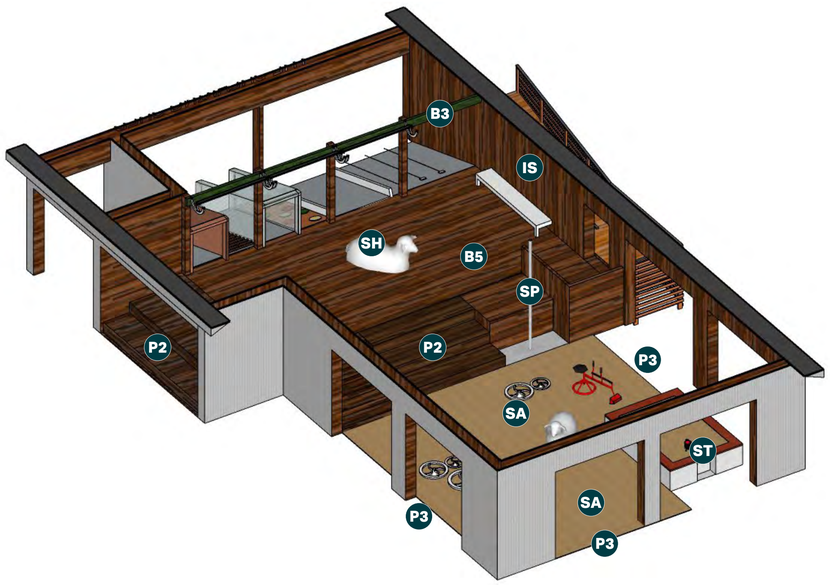
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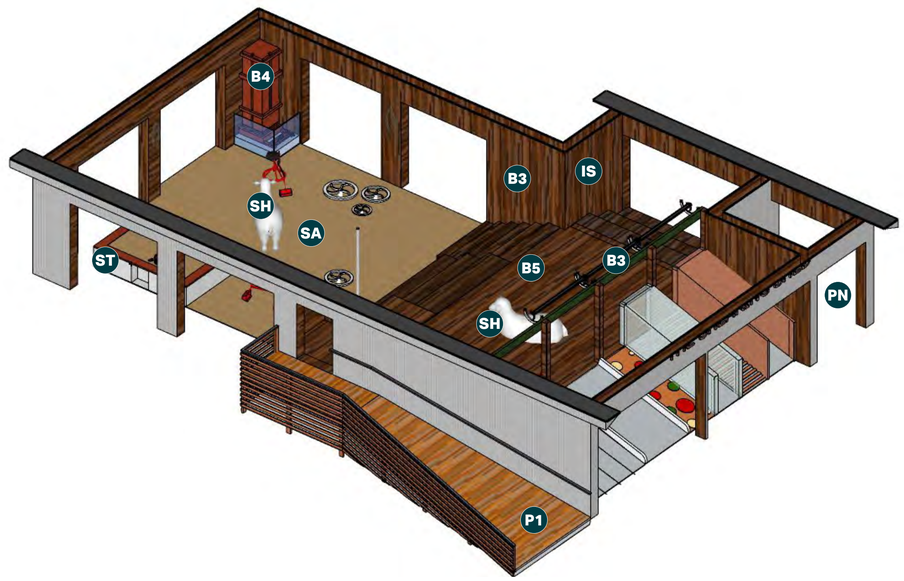
PLAN



V1 VIEW 1- EXTERNAL



V2 VIEW 2 - INTERNAL



V3 VIEW 3 - INTERNAL

GOOGONG

YELLOW BOX RESERVE - SHEARING SHED EDUCATION AND INFORMATION CENTRE ARTIST IMPRESSIONS

KEY

BUILDING AND EXISTING STRUCTURES	
B1	Existing wall materiality retained with new openings. Exact locations to be determined following structural survey at detail design stage
B2	Existing roof retained with new skylights
B3	Existing internal materials, structures and machinery retained where practical and safe
B4	Existing wool press retained in a way that will meet safety requirements
B5	Existing timber flooring retained where possible, removed timber recycled to construct new elements such as steps
INTERPRETIVE ELEMENTS	
SL	Slides referencing the existing sheep chutes. Two narrow enclosed and one wider open option
RA	Play ramps with different challenges to return to upper level
IS	Interpretive signage relating to sheep shearing
SA	Sandpit play area with sand excavation and creative play elements
ST	Raised sand table for accessible play
PN	Play nook referencing shearing activities and procedures
SH	Sheep sculptural play
SP	Sliding pole
ACCESS	
P1	New accessible ramp to upper level designed to reference existing building character and using low maintenance materials such as steel / modwood.
P2	Steps to sit on as well as to access the upper play area
P3	At grade access to sand play area

AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-025**

Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Native				
Trees				
Eucalyptus blakelyi	Blakely's Red Gum	300mm antispiral	25	10
Eucalyptus dives	Broad-leaved Peppermint	300mm antispiral	20	10
Eucalyptus melliodora	Yellow Box	300mm antispiral	30	15
Eucalyptus nortonii	Norton's Box	300mm antispiral	30	15
Eucalyptus polyanthemos	Red Box	300mm antispiral	20	10
Shrubs and groundcovers				
Acacia pravissima	Oven's Wattle	150mm	5	3
Acacia rubida	Red-stemmed Wattle	150mm	5	5
Callistemon linearis	Narrow Leaved Bottlebrush	150mm	3	3
Chrysocephalum apiculatum	Yellow Buttons	150mm	0.6	0.5
Grevillea rosmarinifolia 'Crimson Villea'	Grevillea 'Crimson Villea'	150mm	0.8	0.8
Grevillea 'Royal Mantle'	Royal Mantle Grevillea	150mm	0.2	4
Grevillea sericea	Silk Spider Flower	150mm	2	1.5
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
Kunzea ericoides	Burgan	150mm	2	2
Westringia fruticosa	Coastal Rosemary	150mm	1.5	1.5
Grasses				
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Austrodanthonia tenuior	Wallaby Grass	Viro tube	1.1	0.4
Dianella revoluta	Blue Flax Lily	Viro tube	0.5	0.5
Eragrostis brownii	Browns Love Grass	Viro tube	0.8	0.6
Imperata cylindrica	Blady grass	Viro tube	1	1
Lomandra 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Poa labillardieri	Tussock Grass	Viro tube	0.5	0.1
Poa sieberiana var. sieberiana	Snowgrass	Viro tube	1	0.5
Stypandra glauca	Nodding Blue Lily	Viro tube	0.3	0.4
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6
Turf				
Canberra Blend	Turf		N/A	N/A
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Planting and Yellow Box Gum Woodland



























GOOGONG

YELLOW BOX RESERVE - PLANTING AND LANDSCAPE CHARACTER

KEY

1	*Eucalyptus albens*
2	*Eucalyptus blakelyi*
3	*Acacia rubida*
4	*Westringia fruticosa*
5	*Grevillea sericea*
6	'NO-NOW ZONE' PROMOTING BIODIVERSITY AND CALLS BACK TO EXISTING LANDSCAPE
7	YELLOW BOX GUM WOODLAND UNDERSTOREY
8	YELLOW BOX GUM WOODLAND EXAMPLE UNMAINTAINED
9	YELLOW BOX GUM WOODLAND EXAMPLE UNMAINTAINED
10	YELLOW BOX GUM WOODLAND EXAMPLE UNMAINTAINED
11	BUSH TRAIL AND BOARDWALK
12	EXISTING SHEARING SHED TO BE MOVED AND RELOCATED.
13	EXAMPLE OF REPURPOSED SHEARING SHED

AECOM

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PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-026**



LOCAL PARK 10



POCKET PARK

SCALE 1:200 (A1)

metres 0 1 2 4 6 8 10 12

SCALE 1:400 (A3)

GOOGONG



PARKS AND PLAYGROUNDS

LOCAL PARK 10 AND POCKET PARK - PLAN

KEY

01	PICNIC SETTING ON CONCRETE PAD
02	SMALL SHELTER WITH BBQ, PICNIC SETTING AND BUBBLER
03	PARK SIGNAGE
04	BENCH SEATING
05	RUBBISH BINS
06	BIKE RACKS

ACCESS

P1	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE
P2	1.5M DECOMPOSED GRANITE TRACK
P3	2.0M KEY PATH - BRUSHED CONCRETE

TREES AND PLANTING

T1	EXISTING EXCEPTIONAL VALUE TREE TO BE RETAINED AND PROTECTED
T2	EXISTING SCAR TREE TO BE RETAINED AND PROTECTED
T3	SCREEN PLANTING TO PROPERTY BOUNDARY
T4	DRYLAND GRASS MIX
T5	*Eucalyptus mannifera ssp. Maculosa*
T6	*Betula pendula*
T7	*Casuarina cunninghamiana*
T8	*Eucalyptus polyanthemos*
T9	*Lagerstroemia indica* WITH LOW PLANTING BENEATH
T10	*Liriodendron tulipifera*
T11	*Malus 'Royal Raindrops'*
T12	*Zelkova serrata 'Green Vase'*

AECOM

NO.	REVISION	DATE	REVIEWED
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D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:200 @ A1
DRAWING NO.	**L-027**

Planting Schedule

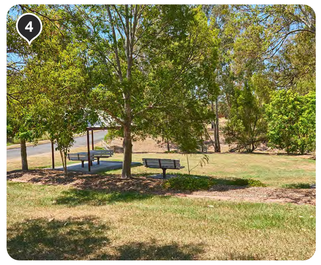
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Trees				
Betula pendula	Silver Birch	100L	15	6
Liriodendron tulipifera	Tulip Tree	100L	20	8
Malus 'Royal Raindrops'	Crabapple	100L	6	4.5
Shrubs and Groundcovers				
Chrysocephalum apiculatum	Yellow Buttons	150mm	0.6	0.5
Grevillea rosmarinifolia 'Crimson Villea'	Grevillea 'Crimson Villea'	150mm	0.8	0.8
Lomandra longifolia 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Poa porformis 'Kingsdale'	Tussock Grass	150mm	0.5	0.5
Turf				
Canberra Blend	Turf		N/A	N/A
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Character











Materials









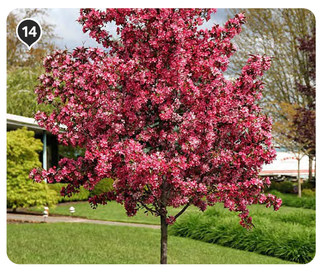


Planting











GOOGONG

LOCAL PARK 10 AND POCKET PARK - PLANTING AND LANDSCAPE CHARACTER

KEY

1	*Malus 'Royal Raindrops'* SEASONAL FEATURE FOR PARK
2	TULIP TREE
3	SHADED PICNIC SETTINGS
4	SMALL PARK FOR COMMUNITY WITH SHADED SEATING AND PICNIC SETTINGS
5	PARK WITH EXISTING TREE
6	*Betula pendula* DAPPLED LIGHT ALONG PATHWAY
7	DECOMPOSED GRANITE
8	BENCH SEATING ON DECOMPOSED GRANITE PATH
9	BIKE RACK
10	SMALL SHELTER WITH BBQ, PICNIC SETTING AND BUBBLER
11	*Betula pendula*
12	*Liriodendron tulipifera*
13	*Lomandra longifolia 'Tanika'*
14	*Malus 'Royal Raindrops'*
15	*Chrysocephalum apiculatum*

AECOM

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C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-028**



SCALE 1:200 (A1)

metres 0 1 2 4 6 8 10 12

SCALE 1:400 (A3)

GOOGONG



PARKS AND PLAYGROUNDS

LOCAL PARK 11 - PLAN

KEY	
01	SMALL SHELTER WITH PICNIC SETTING, BBQ AND BUBBLER
02	TWO SEAT SWING
03	RECYCLED TIMBER FOREST LOGS AND STILTS
04	TIMBER SEATING PLATFORM
05	PARK SIGNAGE
06	RUBBISH BINS
07	BIKE RACKS
ACCESS	
P1	2.0M KEY PATH - BRUSHED CONCRETE
S1	POTENTIAL STAIR ACCESS
TREES AND PLANTING	
T1	EXISTING HIGH VALUE TREE TO BE RETAINED AND PROTECTED. TREE HOLLOW(S) PRESENT
T2	DRYLAND GRASS MIX
T3	IRRIGATED TURF
T4	*Brachychiton 'Jerilderie Red'*
T5	*Casuarina cunninghamiana*
T6	*Eucalyptus albens*
T7	*Eucalyptus mannifera ssp. Maculosa*
T8	*Lagerstroemia indica* WITH LOW PLANTING BENEATH
T9	*Zelkova serrata 'Green Vase'*

AECOM

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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:200 @ A1
DRAWING NO.	**L-029**

Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Trees				
Brachychiton 'Jerilderie Red'	Kurrajong	200L	8	7
Eucalyptus albens	White Box	300mm anti spiral	20	10
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20	10
Shrubs and Groundcovers				
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Lomandra confertifolia	Mat Rush	150mm	0.5	0,5
Lomandra longifolia 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Lomandra longifolia 'Verday'	Verday Lomandra	140mm	0.5	0.6
Poa labillardieri	Tussock Grass	Viro tube	0.5	0.1
Rosmarinus 'Blue Lagoon'	Prostrate Rosemary	150mm	0.7	1
Turf				
Canberra Blend	Turf		N/A	N/A
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Character











Materials









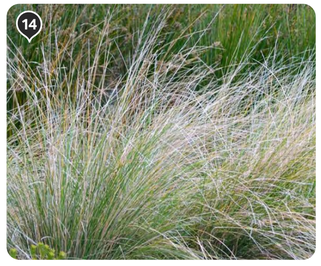


Planting











GOOGONG

LOCAL PARK 11 -
PLANTING AND LANDSCAPE CHARACTER

KEY

1	IMAGINATIVE SCULPTURAL PLAY
2	NATURE PLAY - TIMBER AND ROPE
3	PLANTED EMBANKMENT
4	TIMBER PLAY ELEMENTS
5	TWO SEAT SWING
6	TIMBER PLANK STEPPERS
7	TURF AND CONCRETE INTERFACE
8	NATIVE TREES PROVIDING SHADED LAWN
9	BIKE RACK
10	SMALL SHELTER WITH PICNIC SETTING, BBQ AND BUBBLER
11	*Brachychiton 'Jerilderie Red'*
12	*Eucalyptus mannifera ssp. Maculosa*
13	*Lomandra longifolia 'Tanika'*
14	*Poa labillardieri*
15	*Rosmarinus 'Blue Lagoon'*

AECOM

NO.	REVISION	DATE	REVIEWED
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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-030**



SCALE 1:300 (A1)

SCALE 1:600 (A3)

metres 0 1.5 3 6 9 12 15 18

GOOGONG



PARKS AND PLAYGROUNDS

LOCAL PARK 12 AND WSUD 11 CONCEPT PLAN

KEY

01	SMALL SHELTER WITH PICNIC SETTING, BBQ AND BUBBLER
02	BIKE RACKS
03	RUBBISH BINS
04	BENCH SEATING
05	PARK SIGNAGE
06	ORIENTATION SIGNAGE

ACCESS

P1	2.0M KEY PATH - BRUSHED CONCRETE
P2	1.5M DECOMPOSED GRANITE TRACK
P3	GRASSED MAINTENANCE ACCESS ROUTE AND SEDIMENTATION BAY

TREES AND PLANTING

T1	EXISTING TREES TO BE PROTECTED AND RETAINED
T2	DRYLAND GRASS
T3	MACROPHYTE PLANTING TO OPEN WATER
T4	SCREEN PLANTING TO PROPERTY BOUNDARY
T5	*Eucalyptus albens*
T6	*Eucalyptus mannifera spp. Maculosa*
T7	*Eucalyptus polyanthemos*
T8	*Melaleuca ericifolia*
T9	*Populus simonii*

AECOM

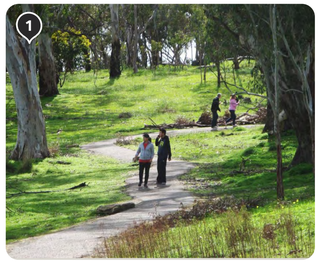
NO.	REVISION	DATE	REVIEWED
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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:300 @ A1
DRAWING NO.	**L-031**

Planting Schedule

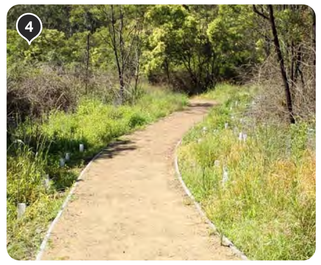
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Trees				
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20	10
Eucalyptus albens	White Box	300mm anti spiral	20m	10
Melaleuca ericifolia	Swamp Paperbark	300mm anti spiral	8	4
Shrubs and Groundcovers				
Carex appressa	Tall Sedge	150mm	1	0.6
Dianella caerulea 'Aranda'	Aranda Flax Lily	150mm	0.3	0.3
Ficinia nodosa	Knobby Club Rush	150mm	1.5	1
Grevillea langira 'Mt Tamboritha'	Wooly Grevillea	150mm	0.3	1
Juncus usitatus	Common Rush	150mm	1	Spreading
Stypandra glauca	Nodding Blue Lily	Viro tube	0.3	0.4
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6
Turf				
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Character









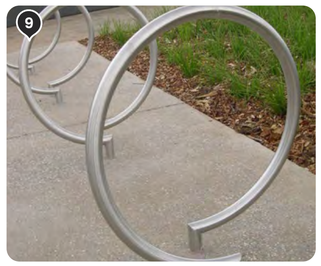


Materials











Planting











GOOGONG

LOCAL PARK 12 AND WSUD 11 - PLANTING AND LANDSCAPE CHARACTER

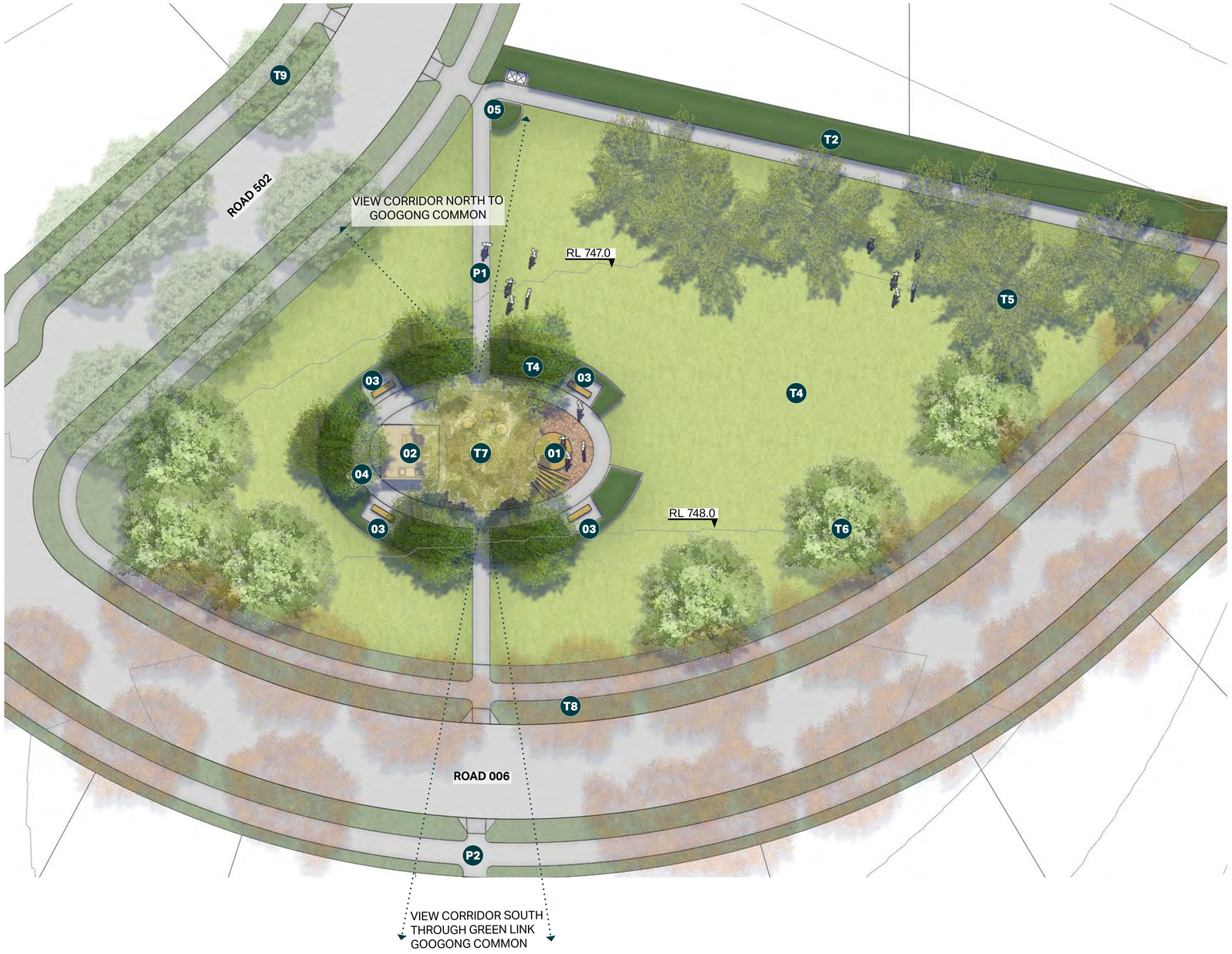
KEY

1	SLOPING DECOMPOSED GRANITE PATH
2	*Melaleuca ericifolia* AROUND WSUD WATER BODY
3	WSUD
4	DECOMPOSED GRANITE WALKING TRACK
5	LINE OF *Eucalyptus mannifera ssp. Maculosa*
6	DECOMPOSED GRANITE
7	TURF AND CONCRETE INTERFACE
8	LAWN TO WATER BASIN
9	BIKE RACK
10	SMALL SHELTER WITH PICNIC SETTING, BBQ AND BUBBLER
11	*Melaleuca ericifolia*
12	*Eucalyptus albens*
13	*Grevillea langira 'Mt Tamboritha'*
14	*Carex appressa*
15	*Ficinia nodosa*

AECOM

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PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-032**



SCALE 1:200 (A1)

SCALE 1:400 (A3)

metres
0 1 2 4 6 8 10 12

GOOGONG



PARKS AND PLAYGROUNDS

LOCAL PARK 13
CONCEPT PLAN

KEY

01	SCULPTURAL PLAY ELEMENT
02	SMALL SHELTER WITH PICNIC SETTING, BBQ AND BUBBLER
03	BENCH SEATING WITH NO BACK (SIT BOTH DIRECTIONS)
04	RUBBISH BINS
05	PARK SIGNAGE

ACCESS

P1	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE
P2	2.0M KEY PATH - BRUSHED CONCRETE

TREES AND PLANTING

T1	MASS PLANTING OF LOW SHRUBS AND GROUNDCOVERS
T2	SCREEN PLANTING TO PROPERTY BOUNDARY
T3	DRYLAND GRASS MIX
T4	*Betula pendula*
T5	*Eucalyptus perriniana*
T6	*Eucalyptus polyanthemos*
T7	*Liquidambar styraifica*
T8	*Pistacia chinensis*
T9	*Ulmus parvifolia 'Todd'*

AECOM

NO.	REVISION	DATE	REVIEWED
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TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:200 @ A1
DRAWING NO.	**L-033**

Planting Schedule

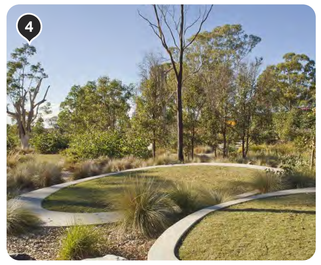
BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Trees				
Betula pendula	Silver Birch	100L	15	6
Eucalyptus perriniana	Spinning Gum	300mm anti spiral	7-10	4-10
Eucalyptus polyanthemos	Red Box	300mm anti spiral	20	10
Liquidambar styraifica	Sweetgum	200L	13	7
Shrubs and Groundcovers				
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
Lomandra confertifolia	Mat Rush	150mm	0.5	0,5
Lomandra longifolia 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Poa porformis 'Kingsdale'	Tussock Grass	150mm	0.5	0.5
Rosmarinus 'Blue Lagoon'	Prostrate Rosemary	150mm	0.7	1
Stypandra glauca	Nodding Blue Lily	Viro tube	0.3	0.4
Turf				
Standard Dryland Grass	Turf/Verge	Seed	N/A	N/A

Character











Materials











Planting











GOOGONG

LOCAL PARK 13 -
PLANTING AND LANDSCAPE CHARACTER

KEY

1	NATURE PLAY
2	FEATURE LANDMARK TREE
3	SCULPTURAL PLAY ELEMENT
4	NATIVE PLANTING AROUND TURF AREA
5	PLAY ELEMENTS WITH MULCH SOFTFALL
6	PLAY WITH VIEWS TO SPORTING AREAS
7	TURF AND CONCRETE INTERFACE
8	PICNIC AREA SHADED BY NATIVE TREES
9	VIBRANT STREET TREES LINING PARK
10	SMALL SHELTER WITH PICNIC SETTING AND BBQ
11	*Eucalyptus perriniana* PROVIDING SHADED AND ENCLOSED PICNIC AREAS
12	*Betula pendula*
13	*Lomandra longifolia 'Tanika'*
14	*Hardenbergia violacea*
15	*Stypandra glauca*

AECOM

NO.	REVISION	DATE	REVIEWED
F	DEVELOPMENT APPLICATION	03.06.2022	JB
E	DEVELOPMENT APPLICATION	15.10.2021	JB
D	DEVELOPMENT APPLICATION	10.09.2021	JB
C	DEVELOPMENT APPLICATION	03.09.2021	JB

TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-034**



GOOGONG



GOOGONG COMMON

MASTERPLAN

KEY	
- - -	NEIGHBOURHOOD BOUNDARY
WSUD	
01	WSUD 01
02	WSUD 02
04	WSUD 04
8A	WSUD 08A
09	WSUD 09
11	WSUD 11
11A	WSUD 11A
11B	WSUD 11B

SCALE 1:5,000 (A1)
SCALE 1:10,000 (A3)
metres
0 20 50 100 150 200 250 300

AECOM

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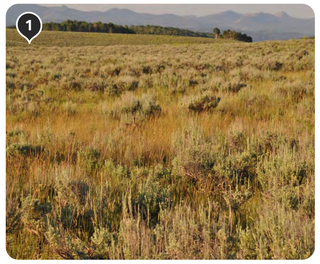
TITLE	**GOOGONG NEIGHBOURHOOD 3,4,5 DEVELOPMENT APPLICATION**
PREPARED FOR	GOOGONG TOWNSHIP PTY LTD
PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-035**

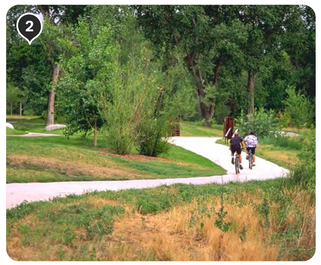
Planting Schedule

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	MATURE SPREAD
Trees				
Brachychiton 'Jerilderie Red'	Kurrajong	200L	8m	7m
Casuarina cunninghamiana	River She-Oak	100L	10m	5m
Eucalyptus alba	White Gum	300mm anti spiral	18m	12m
Eucalyptus albens	White Box	300mm anti spiral	20m	10m
Eucalyptus leucoxylon	White Ironbark	300mm anti spiral	12m	7m
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20	10
Eucalyptus melliodora	Yellow Box	300mm anti spiral	30	15
Eucalyptus nortonii	Bundy	300mm anti spiral	15	10
Eucalyptus polyanthemos	Red Box	300mm anti spiral	20	10
Shrubs and Groundcovers				
Grevillea lanigera 'Mt Tamboritha'	Mt Tamboritha Grevillea	140mm	0.5	1.5
Grevillea rosmarinifolia 'Crimson Villea'	Crimson Villea Grevillea	140mm	0.8	0.8
Hardenbergia violacea	False Sarsparilla	150mm	0.5	0.6
Leptospernum 'Pink Cascade'	Pink Cascade	140mm	0.5	1.2
Lomandra longifolia 'Tanika'	Tanika Mat Rush	Viro tube	0.5	0.6
Lomandra longifolia 'Verday'	Verday Lomandra	140mm	0.5	0.6
Trachelospermum jasminoides	Star Jasmine	140mm	0.5	Spreading

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT	MATURE SPREAD
Macrophytes				
Bolboschoneus caldwellii	Sea Club-rish	tube	0.9	Spreading
Bolboschoneus fluviatilis	Marsh Club-rush	tube	1	Spreading
Baumea gunnii	Slender Twig-sedge	tube	1	Spreading
Carex fascicularis	Tassel Sedge	tube	1	0.5
Eleocharis acuta	Common Spike Rush	tube	0.9	0.5
Juncus usitatus	Common Rush	tube	1	Spreading
Bioretention Basin / Swale				
Atriplex semibaccata	Creeping Salt Bush	Viro tube	0.2	1.5
Austrodanthonia caespitosa	Common Wallaby Grass	Viro tube	0.5	0.1
Carex appressa	Saw Sedge	Viro tube	0.8	0.6
Chrysocephalum apiculatum	Yellow Buttons	Viro tube	0.4	Spreading
Dianella revoluta	Black Anther Flax Lily	Viro tube	0.8	0.5
Dichelachne micrantha	Short Hair Plume Grass	Viro tube	1.25	0.3
Ficinia nodosa	Knobby Club Rush	Viro tube	1	1
Imperata cylindrica	Blady grass	Viro tube	1	1
Juncus usitatus	Common Rush	Viro tube	1	0.7
Microlaena stipoides	Weeping Grass	Viro tube	0.3	Spreading
Poa labillardierei	Tussock Grass	Viro tube	1	0.6
Themeda australis	Kangaroo Grass	Viro tube	1.2	0.6

Character



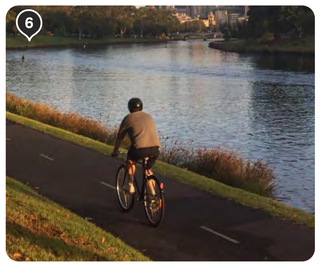








Materials





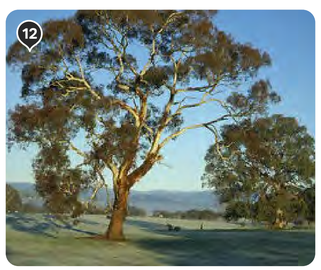






Planting











GOOGONG

GOOGONG COMMON - PLANTING AND LANDSCAPE CHARACTER

KEY

1	DRYLAND GRASS
2	SHARED PATH
3	WSUD
4	RIPARIAN CORRIDOR
5	NATIVE TREES
6	SHARE PATH BY RIPARIAN CORRIDOR
7	PEDESTRIAN CROSSINGS OVER RIPARIAN CORRIDOR
8	NATIVE PLANTING ALONG CONNECTING CONCRET PATH
9	TIMBER BOARDWALK
10	WETLAND VIEWING DECKS AND REST LOCATIONS
11	*Eucalyptus polyanthemos*
12	*Eucalyptus melliodora*
13	*Chrysocephalum apiculatum*
14	*Hardenbergia violacea*
15	*Lomandra longifolia 'Tanika'*

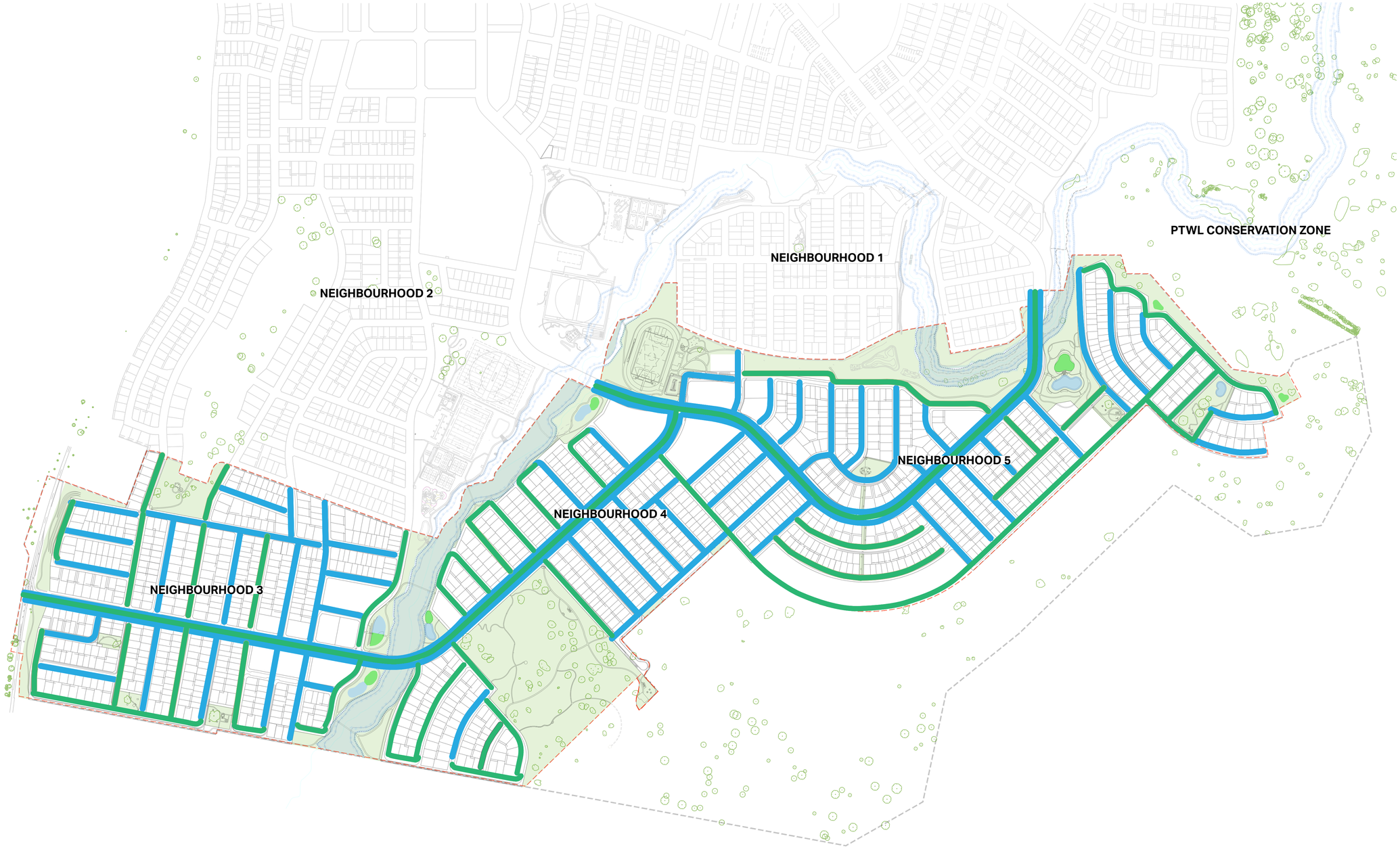
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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-036**

GOOGONG

NEIGHBOURHOOD 3, 4 & 5
NATIVE AND EXOTIC TREE SPECIES



KEY

	Exotic tree species
	Native tree species

SCALE 1:5,000 (A1)
SCALE 1:10,000 (A3)

metres
0 20 50 100 150 200 250 300

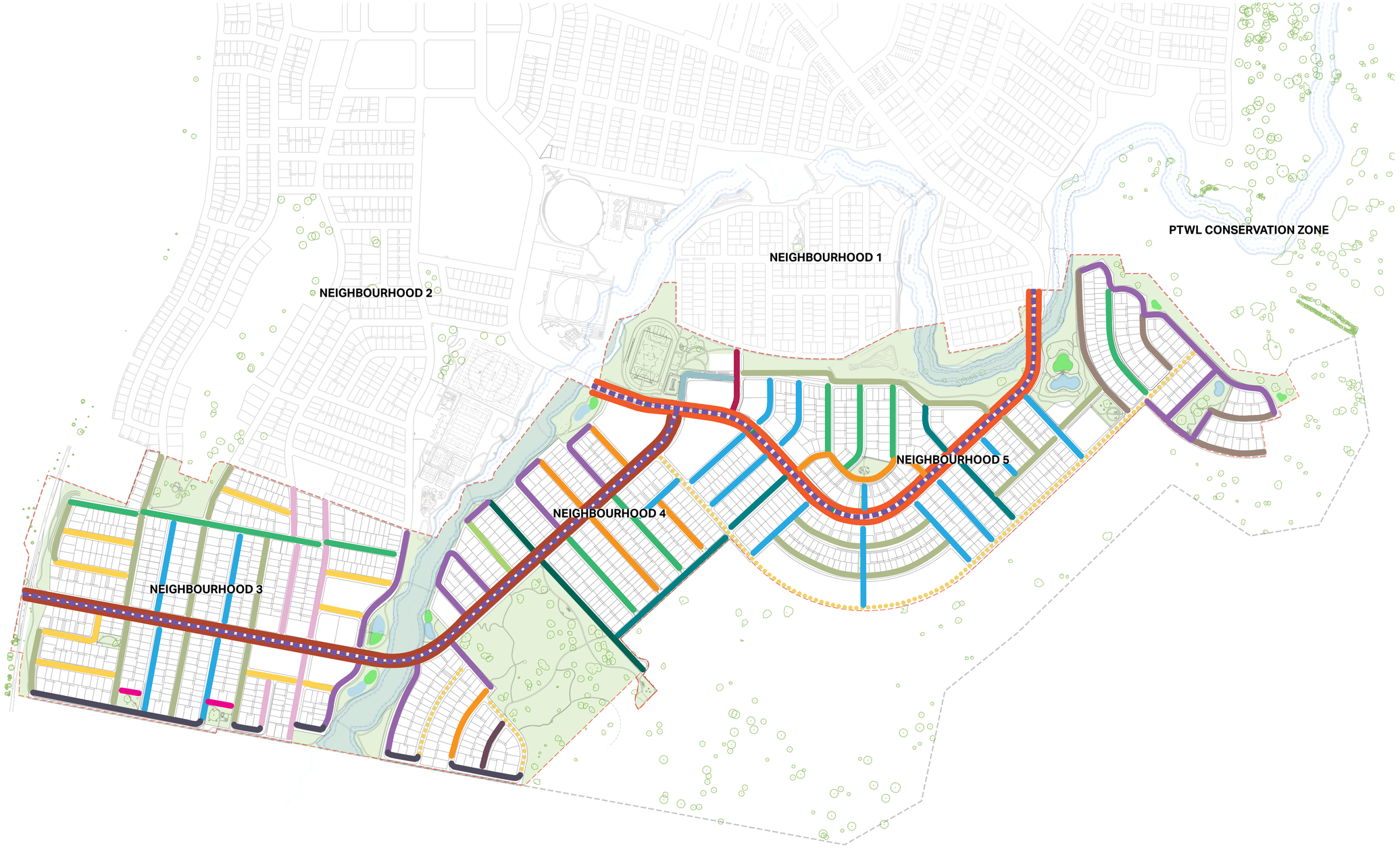
AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-037**

GOOGONG

NEIGHBOURHOOD 3, 4 & 5
STREET TREE MASTERPLAN



KEY

Exotic	
	Acer buergerianum
	Acer x freemanii 'Jeffers Red'
	Acer rubrum 'October Glory'
	Lagerstroemia indica
	Liriodendron tulipifera
	Malus 'Royal Raindrops'
	Pistacia chinensis
	Populus simonii
	Prunus cerasifera 'Oakville Crimson Spire'
	Pyrus calleryana 'Chanticleer'
	Ulmus parvifolia 'Todd'
	Zelkova serrata 'Green Vase'
Native	
	Brachychiton 'Jerilderie Red'
	Casuarina cunninghamiana
	Eucalyptus alba
	Eucalyptus albens
	Eucalyptus leucoxylon
	Eucalyptus nicolii
	Eucalyptus mannifera spp maculosa
	Eucalyptus polyanthemos

SCALE 1:5,000 (A1)
metres
0 20 50 100 150 200 250 300
SCALE 1:10,000 (A3)

AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-038**

Street Tree Species

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Exotic Trees				
Acer buergerianum	Trident Maple	100L	6	6
Acer x freemanii 'Jeffers Red'	Red Maple	100L	13	10
Acer rubrum 'October Glory'	Maple	100L	12	9
Lagerstroemia indica	Crepe Myrtle	100L	7	6
Liriodendron tulipifera	Tulip Tree	100L	20	8
Malus 'Royal Raindrops'	Crabapple	100L	6	4.5
Pistacia chinensis	Chinese Pistachio	100L	8	6
Populus simonii	Chinese Poplar	200L	15	2
Prunus cerasifera 'Oakville Crimson Spire'	Plum	100L	6	2
Pyrus calleryana 'Chanticleer'	Ornamental Pear	100L	11	3
Ulmus parvifolia 'Todd'	Chinese Elm	100L	10	11
Zelkova serrata 'Green Vase'	Manchurian Pear	100L	14	10

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Native Trees				
Brachychiton 'Jerilderie Red'	Kurrajong	200L	8m	7m
Casuarina cunninghamiana	River She-Oak	100L	10m	5m
Eucalyptus alba	White Gum	300mm anti spiral	18m	12m
Eucalyptus albens	White Box	300mm anti spiral	20m	10m
Eucalyptus leucoxylon	White Ironbark	300mm anti spiral	12m	7m
Eucalyptus nicholii	Narrow-leaved Peppermint	300mm anti spiral	12m	10m
Eucalyptus mannifera ssp. Maculosa	Red Spotted Gum	300mm anti spiral	20m	10m
Eucalyptus polyanthemos	Red Box	5L /20L	20m	10m

Exotic Tree Species



Acer buergerianum - Trident Maple
Minimum 6m spacing



Acer x freemanii 'Jeffers Red'
Minimum 6m spacing



Acer rubrum 'October Glory' - Maple
Minimum 6m spacing



Lagerstroemia indica
Minimum 6m spacing



Liriodendron tulipifera - Tulip Tree
Minimum 8m spacing



Malus 'Royal Raindrops' - Crabapple
Minimum 6m spacing



Pistacia chinensis - Chinese Pistachio
Minimum 6m spacing



Populus simonii - Chinese Poplar
Minimum 6m spacing



Prunus cerasifera 'Oakville Crimson Spire' - Plum
Minimum 6m spacing



Pyrus calleryana 'Chanticleer' - Ornamental Pear
Minimum 6m spacing



Ulmus parvifolia 'Todd'
- Chinese Elm
Minimum 5m spacing



Zelkova serrata - Japanese Zelkova
Minimum 6m spacing

GOOGONG

NEIGHBOURHOOD 3, 4 & 5
STREET TREE SPECIES

AECOM

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DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-039**

GOOGONG

NEIGHBOURHOOD 3, 4 & 5
STREET TREE SPECIES

Native Tree Species



Brachychiton 'Jerilderie Red' - Kurrajong
Minimum 6m spacing



Casuarina cunninghamiana - River Sheoak
Minimun 6m spacing



Eucalyptus alba - White Gum
Minimum 6m spacing



Eucalyptus albens - White Box
Minimum 6m spacing



Eucalyptus leucoxylon - White Ironbark
Minimum 6m spacing



Eucalyptus nicholii - Narrow-leaved Peppermint
Minimum 6m spacing



Eucalyptus mannifera ssp. Maculosa- Red Spotted Gum
Minimum 6m spacing



Eucalyptus polyanthemos - Red Box
Minimum 6m spacing

AECOM

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SCALE	-
DRAWING NO.	**L-040**



GOOGONG

NEIGHBOURHOOD 3, 4 & 5

STREET UNDERSTOREY MASTERPLAN KEY

	NEIGHBOURHOOD BOUNDARY
	WELLSVALE DRIVE PLANTING MIX
	GORMAN AND BUNYIP DRIVE PLANTING MIX
	LANEWAY PLANTING MIX
	VILLAGE CENTRE PLANTING MIX

SCALE 1:5,000 (A1)
metres
0 20 50 100 150 200 250 300
SCALE 1:10,000 (A3)

AECOM

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DATE	03.06.2022
SCALE	1:5000 @ A1
DRAWING NO.	**L-041**

PLANTING SCHEDULE - WELLSVALE DRIVE

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Exotic shrubs and groundcovers				
Juniperus conferta	Groundcover Juniper	150mm	0.5	Spreading
Rosa 'Flower Carpet Amber'	Flower Carpet Amber Rose	150mm	0.7	1
Rosmarinus 'Blue Lagoon'	Prostrate Rosemary	150mm	0.7	1
Bulbs				
Jonquil 'Mixed Shades'	Jonquil Mixed Shades	Bulb	0.3	0.2
Narcissus 'Mixed Daffodils'	Daffodil Mixed	Bulb	0.3	0.2



Juniperus conferta



Rosa 'Flower Carpet Amber'



Jonquil 'Mixed Shades'



Narcissus 'Mixed Daffodils'

PLANTING SCHEDULE - GORMAN DRIVE AND BUNYIP DRIVE

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Exotic shrubs and groundcovers				
Carex appressa	Tall Sedge	150mm	1	0.6
Dianella caerulea 'Aranda'	Aranda Flax Lily	150mm	0.3	0.3
Dianella revoluta	Blue Flax Lily	150mm	0.5	0,5
Ficinia nodosa	Knobby Club Rush	150mm	1.5	1
Grevillea langira 'Mt Tamboritha'	Wooly Grevillea	150mm	0.3	1
Juncus usitatus	Common Rush	150mm	1	Spreading
Lomandra confertifolia	Mat Rush	150mm	0.5	0,5
Poa porformis 'Kingsdale'	Tussock Grass	150mm	0.5	0.5



Carex appressa - Tall Sedge



Dianella revoluta- Blue Flax Lily



Dianella caerulea 'Aranda' - Aranda Flax Lily



Ficinia nodosa - Knobby Club Rush



Grevillea lanigera 'Mount Tamboritha" - Wooly Grevillea



Juncus usitatus - Common Rush



Lomandra confertifolia- Mat Rush



Poa porformis 'Kingsdale' - Tussock Grass

PLANTING SCHEDULE - VILLAGE CENTRES AND LANEWAYS

BOTANICAL NAME	COMMON NAME	POT SIZE	MATURE HEIGHT (m)	MATURE SPREAD (m)
Exotic shrubs and groundcovers				
Rosa 'Flower Carpet White'	Groundcover Rose	150mm	0.6-1.0	0.6-1.0
Loropetalum 'Pink Pixie'	Chinese Fringe Flower	150mm	0.5	1.2
Brachyscome multifida 'Break O Day'	Cut Leaf Daisy	150mm	0.3	0.5
Rosmarinus 'Blue Lagoon'	Prostrate Rosemary	150mm	0.7	1



Rosa 'Flower Carpet White'- Groundcover Rose



- Chinese Fringe Flower



Brachyscome multifida 'Break O Day' - Cut Leaf Daisy



Rosmarinus 'Blue Lagoon'- Rosemary

GOOGONG

NEIGHBOURHOOD 3, 4 & 5

STREET UNDERSTOREY SPECIES

AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	-
DRAWING NO.	**L-042**



SCALE 1:500 (A1)

metres 0 2 5 10 15 20 25 30

SCALE 1:1,000 (A3)

GOOGONG



GREEN LINKS AND WIDENED VERGES

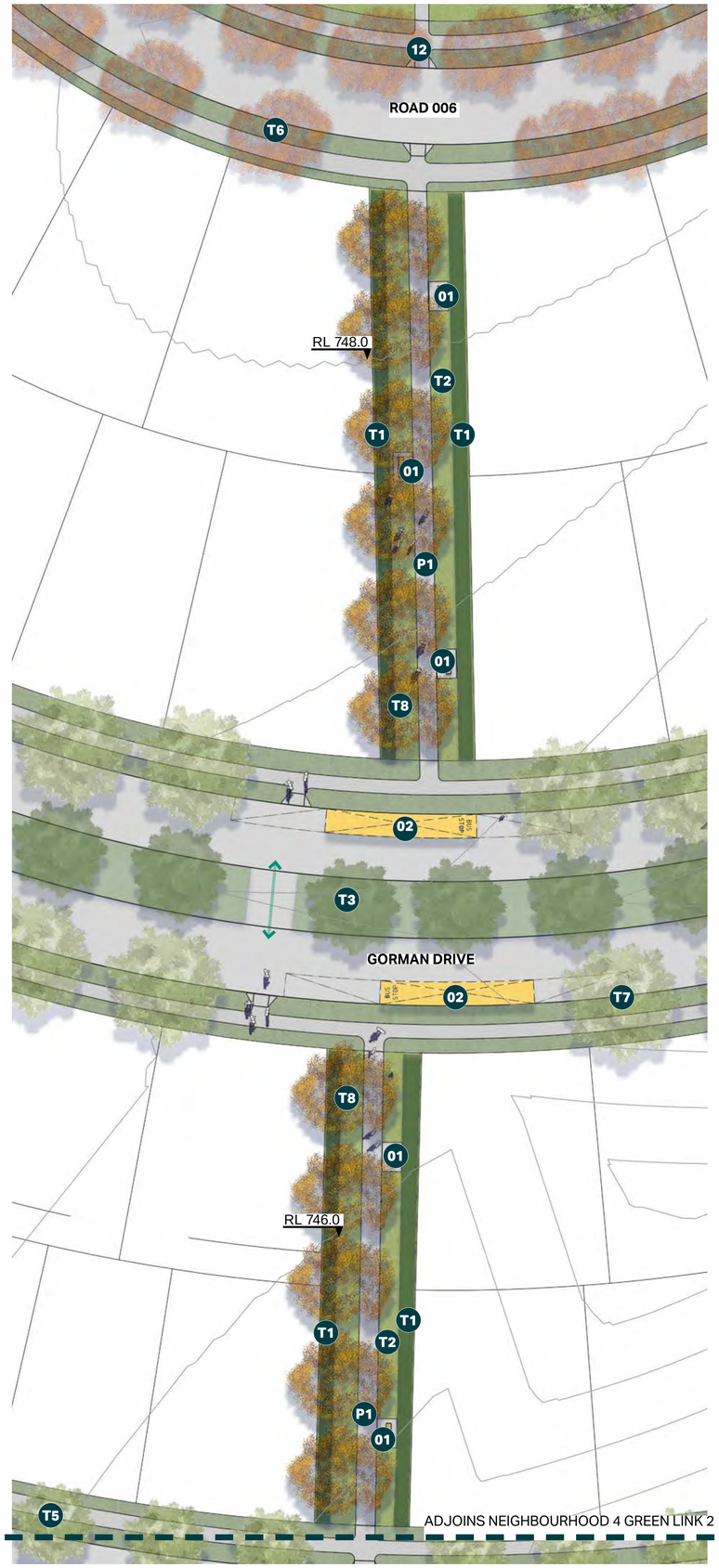
NEIGHBOURHOOD 4 GREEN LINK - CONCEPT PLAN

KEY	
YB	YELLOW BOX RESERVE
01	BENCH SEATING
ACCESS	
P1	2.0M KEY PATH - BRUSHED CONCRETE
P2	1.5M PEDESTRIAN PATH - BRUSHED CONCRETE
TREES AND PLANTING	
T1	HEDGE PLANING TO PROPERTY SIDE BOUNDARY
T2	DRYLAND GRASS
T3	*Eucalyptus albens*
T4	*Eucalyptus blakelyi*
T5	*Eucalyptus nicholii*
T6	*Eucalyptus mannifera spp maculosa*
T7	*Pistacia chinensis*
T8	*Pyrus calleryana 'Chanticleer'*
T9	*Ulmus parvifolia 'Todd'*

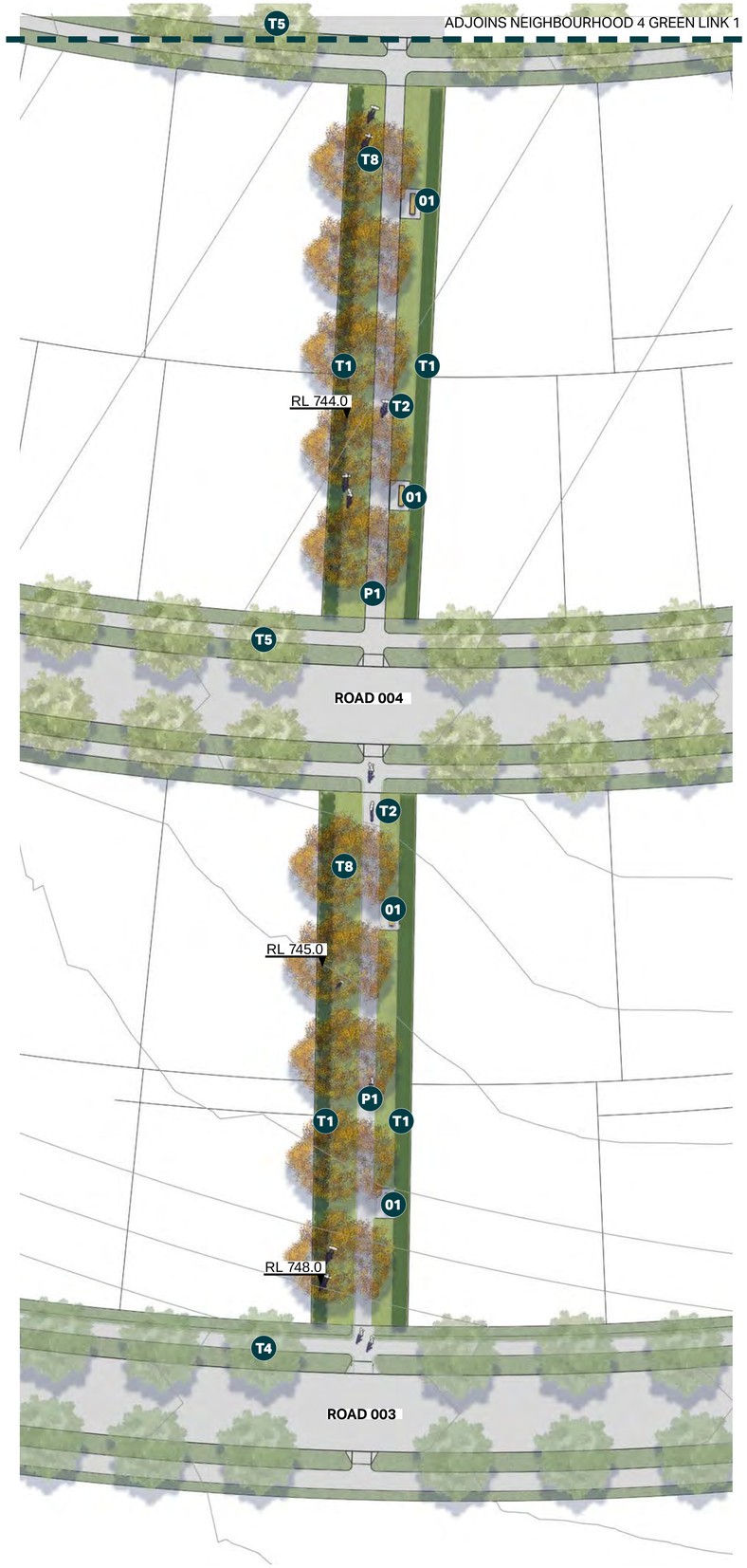
AECOM

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PREPARED BY	AECOM
DATE	03.06.2022
SCALE	1:500 @ A1
DRAWING NO.	**L-043**



NEIGHBOURHOOD 5 GREEN LINK 1



NEIGHBOURHOOD 5 GREEN LINK 2

SCALE 1:300 (A1)
SCALE 1:600 (A3)
metres
0 1.5 3 6 9 12 15 18

GOOGONG



GREEN LINKS AND WIDENED VERGES

NEIGHBOURHOOD 5 GREEN LINK - CONCEPT PLAN

KEY	
- - -	PLAN ADJOIN LINE
12	LOCAL PARK 12
01	BENCH SEATING
02	BUS STOP
ACCESS	
P1	2.0M KEY PATH - BRUSHED CONCRETE
⟷	MEDIAN CROSSING AREA FOR PEDESTRIANS
TREES AND PLANTING	
T1	HEDGE PLANING TO PROPERTY SIDE BOUNDARY
T2	DRYLAND GRASS
T3	*Eucalyptus alba*
T4	*Eucalyptus albens*
T5	*Eucalyptus mannifera spp maculosa*
T6	*Pistacia chinensis*
T7	*Platanus orientalis*
T8	*Zelkova serrata 'Green Vase'*

AECOM

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DATE	03.06.2022
SCALE	1:300 @ A1
DRAWING NO.	**L-044**



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S1	PLAN OF SUBDIVISION OF SUPERLOT 2	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 2500 Lengths are in metres·	Registered	NH3 – STAGE 1

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH3—STAGE 1
RESIDUE A

NH2

STREET NAME

3IAA 643m²
3IAB 428m²
3IAC 428m²
3IAD 489m²
3IAE 815m²
3IBA 770m²
3IBB 713m²
3IBC 713m²
3IBD 677m²
3IBE 549m²
3IBF 480m²
3IBG 480m²
3IBH 363m²
3IBI 363m²
3IBJ 540m²
3IBK 365m²
3IBL 424m²
3IBV 1067m²
3IBU 781m²
3IBT 702m²
3IBS 579m²
3IBR 410m²
3IBQ 386m²
3IBP 369m²
3IBO 532m²
3IBN 363m²
3IBM 363m²
3IDA 363m²
3IDB 447m²
3IDC 422m²
3IDD 337m²
3IDE 400m²
3IDF
3ICA 614m²
3ICB 363m²
3ICC 363m²
3ICD 540m²
3ICE 420m²
3ICF 363m²
3ICG 363m²
3ICH 363m²
3ICI 543m²
3ICJ 432m²
3ICK 363m²
3ICL 363m²
3ICM 479m²
3ICN 452m²
3ICO 400m²
3ICP 337m²
3ICQ 337m²
3ICR 337m²
3ICS 450m²
3ICT 450m²
3ICU 447m²
3IEA
3IGA
PUBLIC RESERVE

SEE SHEET 3

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258—NH3S1	PLAN OF SUBDIVISION OF SUPERLOT 2	LGA: QUEANBEYAN—PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH3 — STAGE 1

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH3–STAGE 1
RESIDUE A

SEE SHEET 2

SEE SHEET 2

31DF
397m²

31DG
337m²

31DH
402m²

31DI
400m²

31DJ
337m²

31DK
337m²

31DL
400m²

(A)

31DM
2170m²

31EA
8658m²

31FA
3288m²

31FB
3299m²

31GA
PUBLIC RESERVE

STREET NAME

STREET NAME

STREET NAME

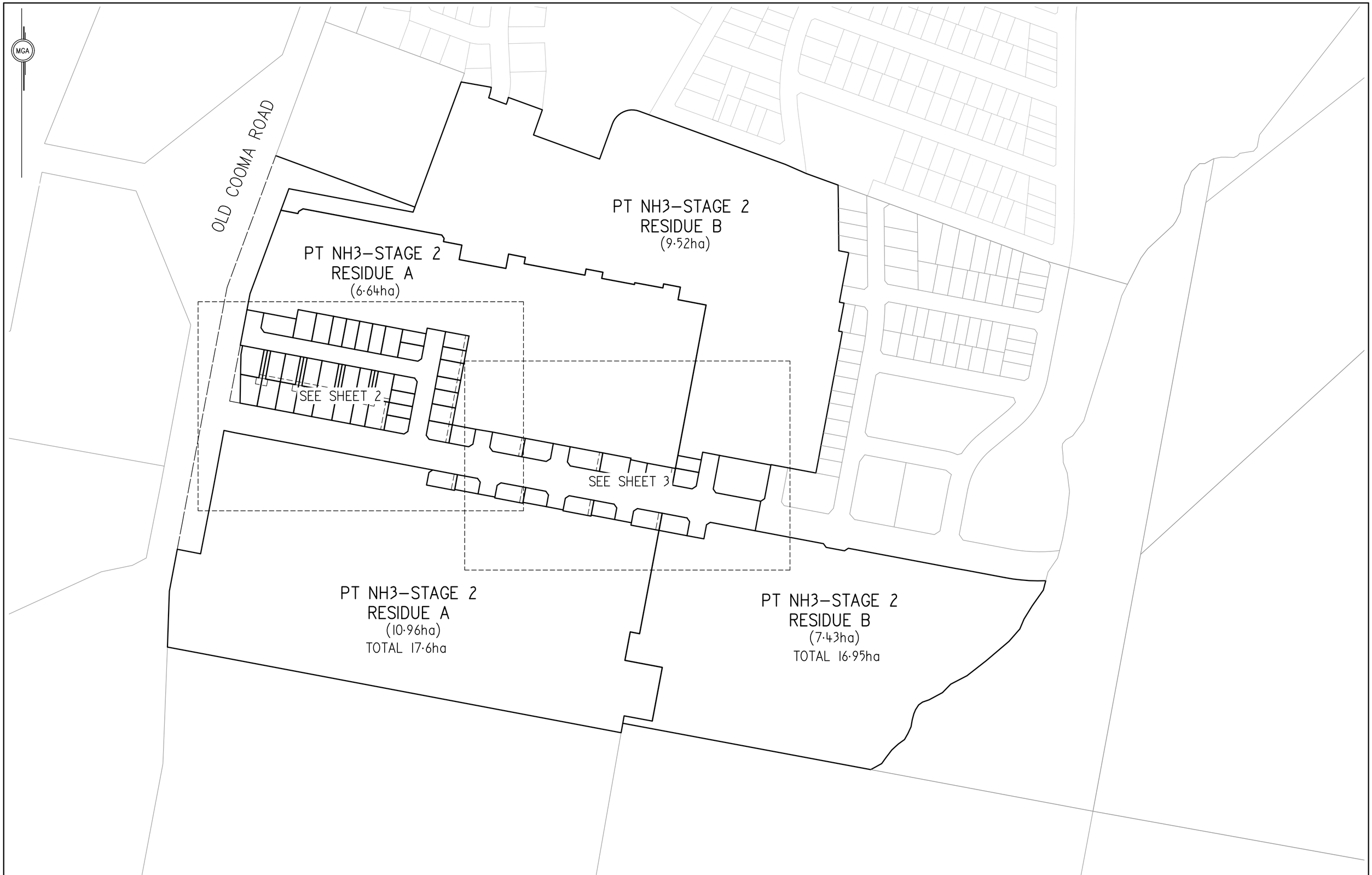
STREET NAME

NH3–STAGE 1
RESIDUE A

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S1	PLAN OF SUBDIVISION OF SUPERLOT 2	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres·	Registered	NH3 – STAGE 1

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 19/08/2022 Surveyor's Ref: 20258–NH3S2	PLAN OF SUBDIVISION OF NH3–STAGE 1 RESIDUE AND SUPERLOT 1	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 2500 Lengths are in metres.	Registered	NH3 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

OLD COOMA ROAD

ROAD WIDENING

STREET NAME

32BA 687m²
32BB 600m²
32BC 540m²
32BD 420m²
32BE 420m²
32BF 420m²
32BG 420m²
32BH 540m²
32BJ 337m²
32BI 407m²
32AA 657m²
32AT 480m²
32AS 480m²
32AR 480m²
32AQ 540m²
32AP 480m²
32AO 363m²
32AN 516m²
32AM 406m²
32AL 337m²
32AK 337m²
32AJ 401m²
32AB 717m²
32AC 686m²
32AD 686m²
32AE 686m²
32AF 745m²
32AG 686m²
32AH 569m²
32AI 722m²

PT NH3–STAGE 2
RESIDUE A

STREET NAME

32CA 400m²
32CB 337m²
32CC 450m²
32CD 337m²
32CE 400m²
32CF 450m²
32CG 479m²
32CH 479m²

STREET NAME

32EA

PT NH3–STAGE 2
RESIDUE A

32DA 498m²
32DB 389m²

STREET NAME

32FA

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR DRAINAGE OF WATER 3·5 WIDE
(C) DENOTES RIGHT OF CARRIAGE WAY 3·5 WIDE
(E) DENOTES RIGHT OF CARRIAGE WAY 6 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 19/08/2022 Surveyor's Ref: 20258–NH3S2	PLAN OF SUBDIVISION OF NH3–STAGE 1 RESIDUE AND SUPERLOT 1	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH3 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

PT NH3–STAGE 2
RESIDUE A

PT NH3–STAGE 2
RESIDUE B

SEE SHEET 2

32CH

STREET NAME

32EA
686m²

32EB
587m²

32GA
685m²

32GB
586m²

32JA
527m²

32JB
448m²

32JC
337m²

32KA
2151m²

32DB

32FA
497m²

32FB
389m²

32HA
498m²

32HB
389m²

32IA
546m²

32IB
545m²

PT NH3–STAGE 2
RESIDUE A

PT NH3–STAGE 2
RESIDUE B

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR DRAINAGE OF WATER 3·5 WIDE
(C) DENOTES RIGHT OF CARRIAGE WAY 3·5 WIDE
(E) DENOTES RIGHT OF CARRIAGE WAY 6 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 19/08/2022 Surveyor's Ref: 20258–NH3S2	PLAN OF SUBDIVISION OF NH3–STAGE 1 RESIDUE AND SUPERLOT 1	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres.	Registered	NH3 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S3	PLAN OF SUBDIVISION OF NH3 – STAGE 2 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 2500 Lengths are in metres·	Registered	NH3 – STAGE 3

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH3–STAGE 3 RESIDUE A

NH3–STAGE 3 RESIDUE B

STREET NAME

33BA 358m²
33BB 454m²
33AA 548m²
33AB 579m²
33AC 572m²
33AD 577m²
33AE 721m²
33AF 700m²
33CA 684m²
33CB 879m²
33CC 478m²
33CD 400m²
33CE 400m²
33CF 400m²
33CG 400m²
33CH 400m²
33CI 499m²
33DA 582m²
33DB 600m²
33DC 540m²
33DD 480m²
33DE
33EAA 496m²
33EA 412m²
33EB 400m²
33EC 337m²
33ED 337m²
33EE
33EZ 363m²
33EY 363m²
33EX 363m²
33EW 363m²
33EV
33FV 743m²
33FW 420m²
33FA 473m²
33FB 337m²
33FC
33FT
33FU 515m²
33GA 414m²
33GB 362m²
33GC
NH3SI

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR MULTI–PURPOSE ELECTRICAL INSTALLATION

ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH3S3

PLAN OF
SUBDIVISION OF NH3 –
STAGE 2 RESIDUE A & RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH3 – STAGE 3


MGA
NH3–STAGE 3 RESIDUE B
SEE SHEET 2
SEE SHEET 2
SEE SHEET 2
STREET NAME
STREET NAME
STREET NAME
33DC
33DD
33DE 540m²
33DF 600m²
33DG 420m²
33DH 540m²
33DI 420m²
33DJ 480m²
33DK 420m²
33DL 420m²
33EY
33EX
33EW
33EC
33ED
33EV 540m²
33EE 400m²
33EU 420m²
33EF 400m²
33ET 363m²
33EG 400m²
33ES 363m²
33EH 400m²
33ER 540m²
33EI 400m²
33EQ 420m²
33EJ 450m²
33EP 363m²
33EO 363m²
33EK 400m²
33EN 363m²
33EL 400m²
33EM 420m²
33FV
33FW
33FA
33FU
33FB
33FT 480m²
33FC 337m²
33FS 480m²
33FD 400m²
33FR 540m²
33FE 450m²
33FQ 540m²
33FF 450m²
33FP 420m²
33FG 337m²
33FO 363m²
33FH 337m²
33FN 363m²
33FI 400m²
33FM 363m²
33FJ 337m²
33FL 480m²
33FK 399m²
33GA
33GB
NH3SI
NH3SI
33GC 551m²
NH3SI
33GD 420m²
NH3SI
33GE 480m²
NH3SI
33GF 363m²
NH3SI
33GG 363m²
NH3SI
33GH 363m²
NH3SI
33GI 363m²
NH3SI
33GJ 363m²
NH3SI
33GK 363m²
NH3SI
33GL 420m²
NH3SI
33GM 480m²
NH3SI
NH3S2
NH3S2
NH3S2



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 29/07/2022
Surveyor's Ref: 20258–NH3S4

PLAN OF
SUBDIVISION OF NH3 – STAGE 3
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 2500
Lengths are in metres·

Registered

NH3 – STAGE 4

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH2

R69.79
A&C7.55
17°10'30"
110°00'
38.00
28.00
199°28'
110°00'
73.97
20°00'
39.50
R22.00
C31.11
A34.56
84°59'40"
10.76
110°00'
47.33
210°15'
20°17'
105.17
R70.15
C11.79
A11.81
9°32'49"
15°27'30"
10°38'
3.06
4.24
126.91
280°40'
4.73
241°29'
202°08'20"
C92.83
A93.14
R329.00

34EA
1.474ha
PUBLIC RESERVE

STREET NAME

34AA 421m²
34AB 471m²
34AC 577m²
34AD 449m²
34AE 399m²
34AF 399m²
34AG 449m²
34AH 399m²
34AI 337m²
34AJ 337m²
34AK 337m²
34AL 337m²
34AM 337m²
34AN 337m²
34AO 400m²
34AP 400m²
34AQ 450m²

34BA 902m²
34BB 777m²
34BC 747m²
34BD 1093m²
34BE 777m²
34BF 605m²
34BG 539m²
34BH 455m²

34CA 751m²
34CB

34DA 645m²
34DB 600m²
34DC

STREET NAME
STREET NAME
STREET NAME

NH3S3

NH3—STAGE 4 RESIDUE B
NH3—STAGE 4 RESIDUE A

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3.5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 29/07/2022
Surveyor's Ref: 20258-NH3S4

PLAN OF
SUBDIVISION OF NH3 – STAGE 3
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN-PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres.

Registered

NH3 – STAGE 4



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3.5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 29/07/2022 Surveyor's Ref: 20258—NH3S4	PLAN OF SUBDIVISION OF NH3 — STAGE 3 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN—PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH3 — STAGE 4

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258-NH3S5

PLAN OF
SUBDIVISION OF NH3 – STAGE 4
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN-PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 2500
Lengths are in metres

Registered

NH3 – STAGE 5

MGA

NH2

NH2

NH3S4

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

3·5m WIDE EASEMENT IS OFFSET 2m FROM LOT BOUNDARY TO ALLOW FOR A 2m LANDSCAPE BUFFER TO SUBSTATION

35AA 687m²
35AB 594m²
35AC 660m²
35AD 660m²
35AE 528m²
35AF 528m²
35AG 464m²
35AH 732m²
35BA 544m²
35BB 363m²
35BC 363m²
35BD
35BE
35BF
35BG 364m²
35BH 364m²
35BI 364m²
35BJ 364m²
35BK 388m²
35BL 611m²
35BM 606m²
35BN 613m²
35BO 442m²
35BP 363m²
35BQ 420m²
35BR 420m²
35BS 363m²
35BT 363m²
35BU 480m²
35DD
35DE
35DF 535m²
35DG 480m²
35DH 475m²
35DI
35EA 753m²
35EB

SEE SHEET 3

SEE SHEET 3

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258-NH3S5

PLAN OF
SUBDIVISION OF NH3 – STAGE 4
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN-PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres

Registered

NH3 – STAGE 5



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH3S5

PLAN OF
SUBDIVISION OF NH3 – STAGE 4
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH3 – STAGE 5



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S6	PLAN OF SUBDIVISION OF NH3 – STAGE 2 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 2500 Lengths are in metres	Registered	NH3 – STAGE 6

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH3S2

NH3—STAGE 6 RESIDUE A

36AA 420m²
36AB 363m²
36AC 363m²
36AD 480m²
36AE 363m²
36AF 363m²
36AG 420m²
36AH 540m²
36AI 607m²

NH3—STAGE 6 RESIDUE B

36AJ 3086m²
PUBLIC RESERVE

36GA 8142m²

STREET NAME

36BO 495m²
36BA 374m²
36BN 420m²
36BB 337m²
36BM 420m²
36BC 400m²
36BL 390m²
36BD 337m²
36BK 420m²
36BE 337m²
36BJ 480m²
36BF 400m²
36BI 604m²
36BH 602m²
36BG 606m²

36CP 477m²
36CA 488m²
36CO 420m²
36CB 400m²
36CN 390m²
36CC 337m²
36CM 363m²
36CD 400m²
36CL 363m²
36CE 400m²
36CK 480m²
36CF 450m²
36CJ 480m²
36CI
36CH
36CG

36DA
36DB
36DL
36DK
36DJ
36DI
36DG
36DH

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258—NH3S6	PLAN OF SUBDIVISION OF NH3 — STAGE 2 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN—PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres·	Registered	NH3 — STAGE 6

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

36EA
7179m²

36FA
16·29ha
PUBLIC RESERVE

STREET NAME

36CP
36CA
36CO
36CB
36CN
36CC
36CM
36CD
36CL
36CK
36CE
36CJ
36CF
36CI
621m²
36CH
604m²
36CG
620m²

36DA
534m²
36DB
360m²
36DC
420m²
36DD
466m²
36DE
360m²
36DF
360m²
36DG
392m²
36DH
434m²
36DJ
486m²
36DI
431m²
36DK
363m²
36DL
363m²

SEE SHEET 2

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S6	PLAN OF SUBDIVISION OF NH3 – STAGE 2 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:600 Lengths are in metres	Registered	NH3 – STAGE 6



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH3S7

PLAN OF
SUBDIVISION OF NH3 – STAGE 6
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 2500
Lengths are in metres·

Registered

NH3 – STAGE 7

MGA

NH3–STAGE 7
RESIDUE

NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S6

37AA 400m² 37AB 450m² 37AC 450m² 37AD 400m² 37AE 400m² 37AF 337m² 37AG 337m² 37AH 37AI

37BX 480m² 37BA 400m² 37BW 420m² 37BB 337m² 37BV 420m² 37BC 337m² 37BU 480m² 37BD 450m² 37BT 420m² 37BE 337m² 37BS 480m² 37BF 337m² 37BR 480m² 37BG 400m² 37BQ 37BH 37BP 37BI 37BJ

37CX 480m² 37CA 400m² 37CW 480m² 37CB 450m² 37CV 480m² 37CC 450m² 37CU 480m² 37CD 400m² 37CT 540m² 37CE 400m² 37CS 600m² 37CF 337m² 37CR 37CG 37CH 37CQ

37DA 420m² 37DB 363m² 37DC 363m² 37DD 480m² 37DE 363m² 37DF 363m² 37DG 420m² 37DH

STREET NAME STREET NAME STREET NAME

SEE SHEET 3 SEE SHEET 3 SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH3S7	PLAN OF SUBDIVISION OF NH3 – STAGE 6 RESIDUE A & RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:600 Lengths are in metres	Registered	NH3 – STAGE 7

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH3–STAGE 7
RESIDUE

37AF
37AG
37AH
405m²
37AI
462m²
37AJ
2202m²
PUBLIC RESERVE

SEE SHEET 2

37BS
37BF
37BR
37BG
37BQ
600m²
37BH
400m²
37BP
540m²
37BI
337m²
37BO
600m²
37BJ
337m²
37BK
450m²
37BN
617m²
37BM
606m²
37BL
617m²

STREET NAME

SEE SHEET 2

37CD
37CT
37CE
37CS
37CF
37CR
600m²
37CG
337m²
37CQ
420m²
37CH
337m²
37CP
420m²
37CI
337m²
37CO
420m²
37CJ
337m²
37CK
337m²
37CN
616m²
37CM
606m²
37CL
616m²

STREET NAME

SEE SHEET 2

37DD
37DE
37DF
37DG
37DH
540m²
37DI
607m²
37DJ
607m²
NH3S6

STREET NAME

STREET NAME

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH3S7

PLAN OF
SUBDIVISION OF NH3 – STAGE 6
RESIDUE A & RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH3 – STAGE 7



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 19/08/2022 Surveyor's Ref: 20258-NH3S8	PLAN OF SUBDIVISION OF NH3 – STAGE 7 RESIDUE	LGA: QUEANBEYAN-PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 2500 Lengths are in metres.	Registered	NH3 – STAGE 8

MGA

OLD COOMA ROAD

NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S2 NH3S2

38AA 631m²
38AB 693m²
38AC 569m²
38AD 569m²
38AE 569m²
38AF 569m²
38AG 686m²
38AH 545m²
38AI 547m²
38AJ 480m²
38AK 363m²
38AL 363m²
38AM 363m²
38AN 363m²

STREET NAME

38CA 389m²
38CAA 420m²
38CAB 468m²
38CB 337m²
38CC 411m²
38CD 1687m² PUBLIC RESERVE
38CE 611m²
38CF
38CG
38CH
38CI
38CJ
38CK
38CL
38CM
38CN
38CO
38CP 612m²
38CQ 603m²
38CR 608m²
38CS 463m²
38CT 450m²
38CU 400m²
38CV 400m²
38CW 400m²
38CX 449m²
38CY 448m²
38CZ 479m²

STREET NAME

38BA 480m²
38BB 480m²
38BC 540m²
38BD 363m²
38BE 363m²
38BF
38BG

NH3S7

STREET NAME

SEE SHEET 3 SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR ACCESS AND/OR SERVICES
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

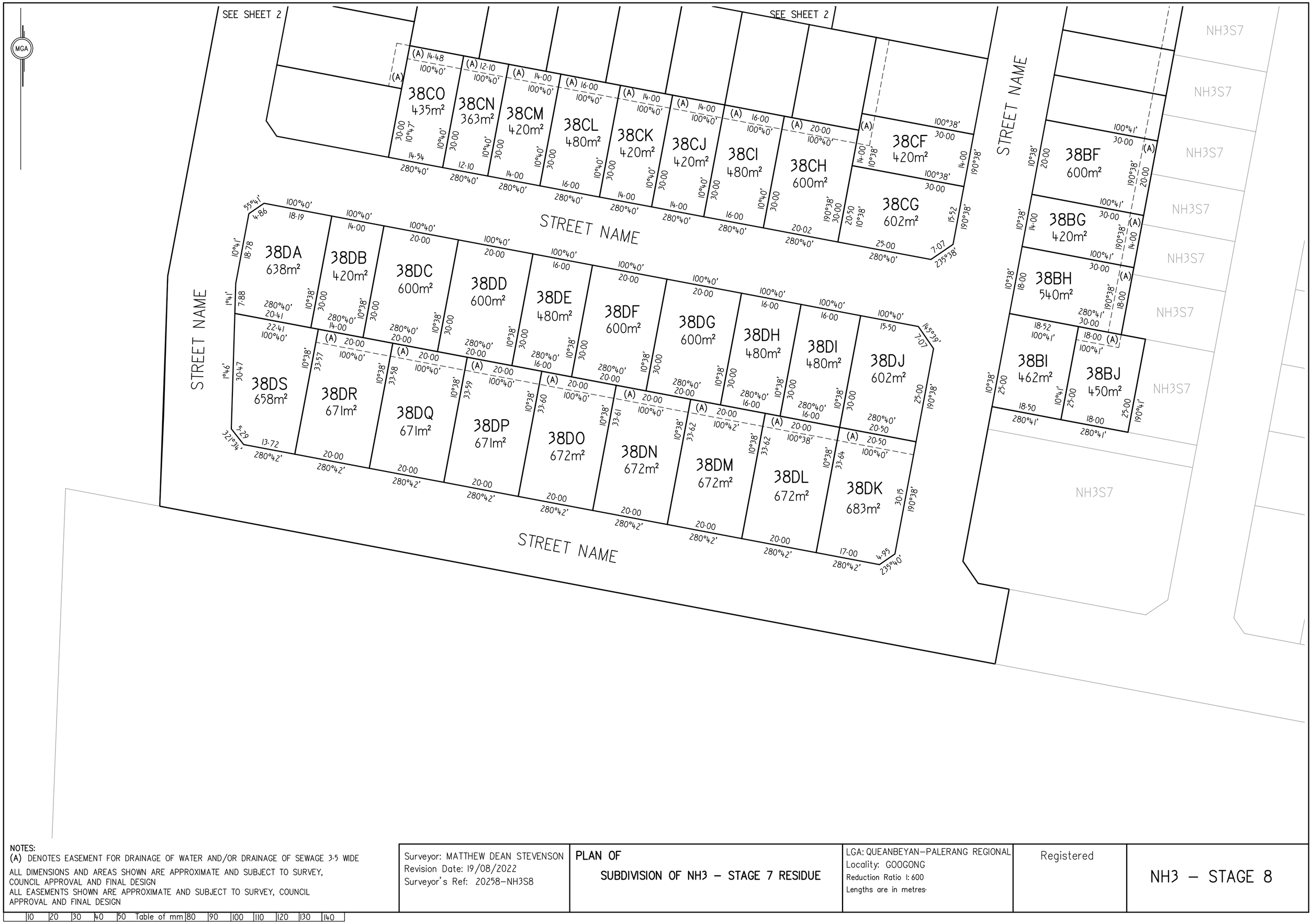
Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 19/08/2022
Surveyor's Ref: 20258–NH3S8

PLAN OF
SUBDIVISION OF NH3 – STAGE 7 RESIDUE

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH3 – STAGE 8

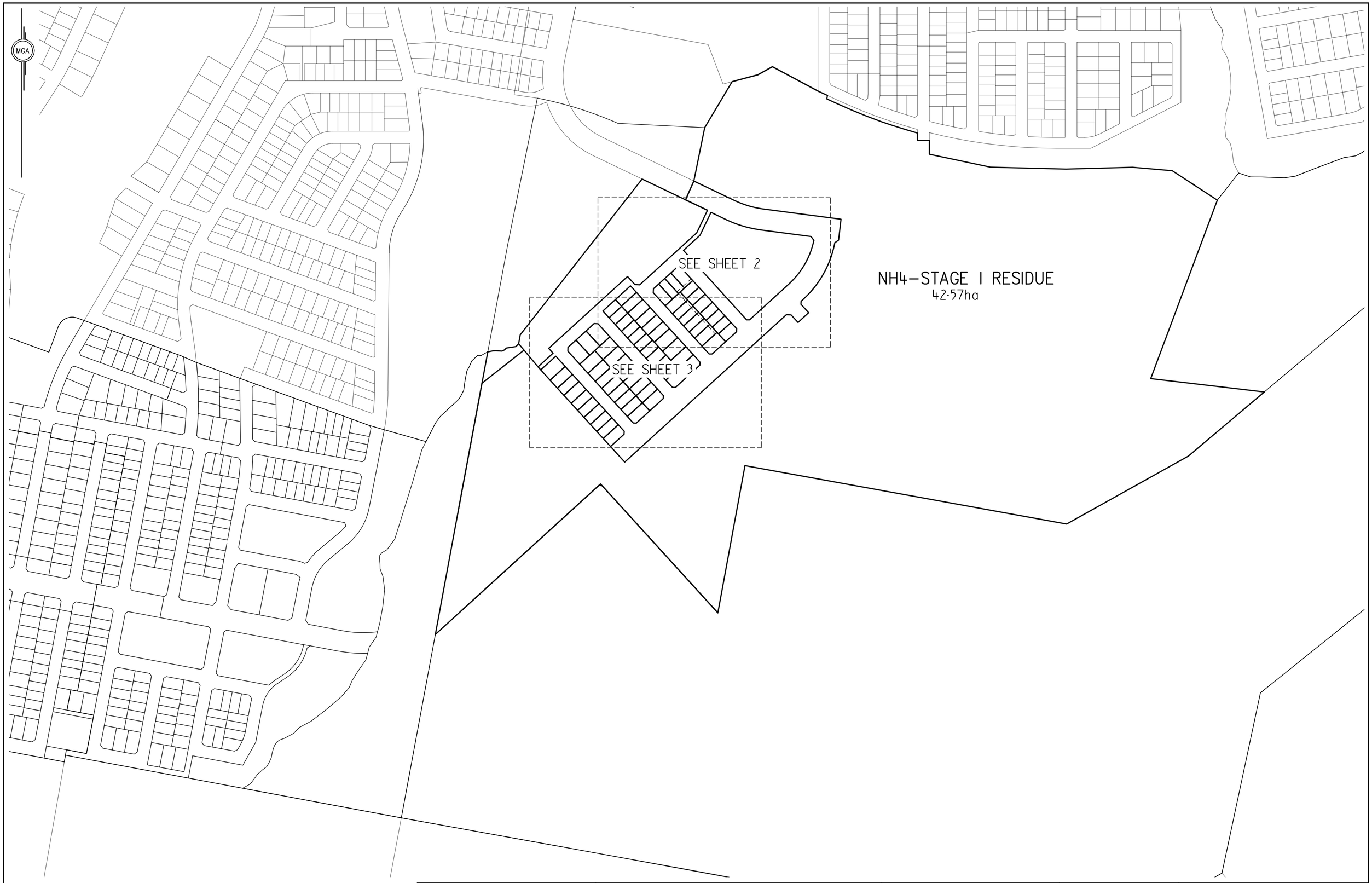


NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE

ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 19/08/2022 Surveyor's Ref: 20258–NH3S8	PLAN OF SUBDIVISION OF NH3 – STAGE 7 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres·	Registered	NH3 – STAGE 8



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S1	PLAN OF SUBDIVISION OF SUPERLOT 3 & 4	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:3500 Lengths are in metres	Registered	NH4 – STAGE 1

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

4IEA
2·468ha
PUBLIC RESERVE

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

115°33' 25·17

25°33' 37·23

R165·65 C51·97 A52·19 106°31'30"

97°30' 75·40

144°40' 7·04

47°40' 33·17

R119·70 C73·64 A74·85 209°45'10"

4IFA
1·632ha

4IDD 484m²

4IDC 363m²

4IDB 363m²

4IDA 424m²

4IDE 337m²

4IDF 337m²

4IDG 400m²

4IDH 337m²

4IDR 480m²

4IDQ 363m²

4IDP 363m²

4IDO

4IDN

4IDM

4IDL

4IDK

4IDJ

4IDI

4ICB 390m²

4ICC 420m²

4ICD 480m²

4ICE

4ICF

4ICG

4ICH

4ICA 337m²

4ICU 337m²

4ICT 337m²

4ICS

4ICR

4ICQ

4IBC

4IBD

92°40' 5·66

47°40' 12·40

47°40' 12·10

137°40' 26·00

137°40' 30·00

227°40' 16·40

47°40' 10·40

2°40' 5·66

26·00 317°40'

227°40' 14·40

30·00 47°40'

16·00 317°40'

137°40' 13·50

47°40' 25·00

317°40' 13·00

137°40' 14·00

317°40' 14·00

227°40' 30·00

317°40' 16·00

138·04 317°40'

78·52 227°40'

4·39 270°49'

SEE SHEET 3

SEE SHEET 3

SEE SHEET 3

NH4–STAGE 1 RESIDUE

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S1	PLAN OF SUBDIVISION OF SUPERLOT 3 & 4	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 1

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

4IEA
PUBLIC RESERVE

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

4ICA
4ICC
4ICU
4ICD
4ICE 420m²
4ICT
4ICS 337m²
4ICF 420m²
4ICR 337m²
4ICG 420m²
4ICQ 337m²
4ICH 540m²
4ICP 337m²
4ICI 540m²
4ICO 400m²
4ICJ 487m²
4ICN 337m²
4ICK 529m²
4ICM 337m²
4ICL 433m²

4IDR
4IDF
4IDG
4IDQ
4IDH
4IDP
4IDI 337m²
4IDO 363m²
4IDJ 337m²
4IDN 363m²
4IDK 383m²
4IDM 480m²
4IDL 554m²

4IFA

STREET NAME

4IBC 593m²
4IBB 600m²
4IBA 590m²
4IBD 540m²
4IBE 480m²
4IBS 540m²
4IBF 420m²
4IBR 480m²
4IBG 420m²
4IBQ 420m²
4IBH 420m²
4IBP 420m²
4IBI 420m²
4IBO 420m²
4IBJ 420m²
4IBN 420m²
4IBK 476m²
4IBM 420m²
4IBL 476m²

4IAA 615m²
4IAB 480m²
4IAC 420m²
4IAD 480m²
4IAE 420m²
4IAF 420m²
4IAG 420m²
4IAH 420m²
4IAI 420m²
4IAJ 476m²

NH4–STAGE 1 RESIDUE

NH4–STAGE 1 RESIDUE

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

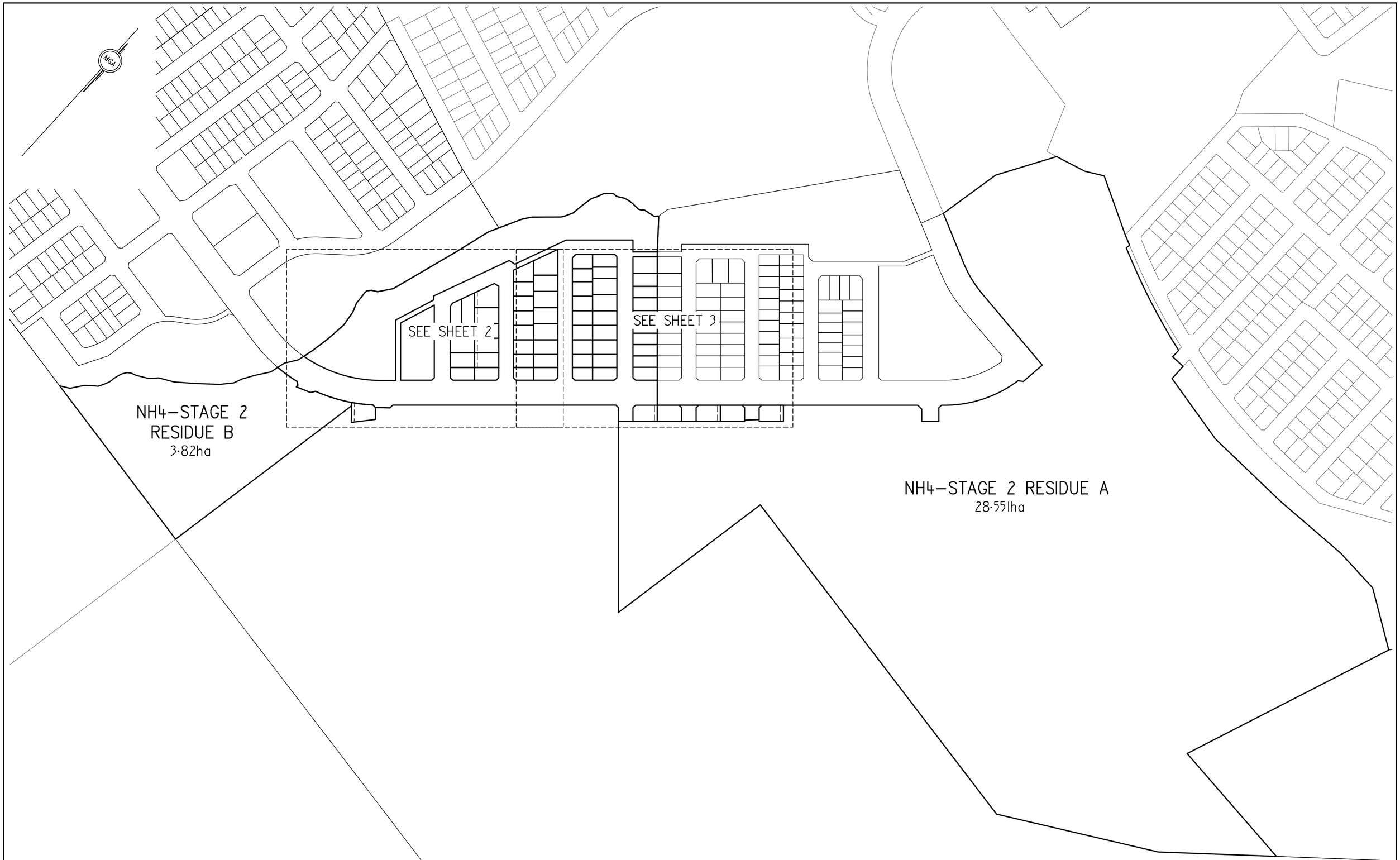
Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S1

PLAN OF
SUBDIVISION OF SUPERLOT 3 & 4

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH4 – STAGE 1



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S2	PLAN OF SUBDIVISION OF NH4 – STAGE 1 RESIDUE AND NH3 – STAGE 1 RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3000 Lengths are in metres·	Registered	NH4 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

42FA
2·266ha
PUBLIC RESERVE

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

STREET NAME

19°50' 47·16

89·78 137°40'

42EA
3405m²

317°40' 70·76

38·50 227°40'

4·39 184°31'

350°05' 5·07 22°30' 12·47 22°30' 17·68 22°30' 27·15 80°05' 6·43

42DK 407m² 23·08 317°40' 137°40' 32·66

42DL 582m² 137°40' 10·18

42DA 740m² 18·18 317°40' 26·27 137°40'

(A) 47°40'

227°40' 14·00 227°40' 16·00

30·00 47°40'

42DB 600m² 20·00 20·00

42DJ 480m² 16·00 137°40' 16·00

42DC 540m² 18·00 18·00

42DI 540m² 18·00 137°40' 18·00

42DD 540m²

42DH 540m² 18·00 137°40' 18·00

42DE 540m²

42DG 469m² 12·80 137°40' 12·80

42DF 469m² 15·80

4·39 270°49' 26·80 227°40' 26·80 227°40' 4·39 184°31'

22°30' 27·62 42CP 498m² 14·09 317°40' 137°40' 25·83

17·83 317°40' 33·15 22°30' 42CA 746m² 31·93 137°40'

42CO 450m² 18·00 317°40' 137°40' 18·00

42CB 600m² 20·00 20·00

42CN 450m² 18·00 317°40' 137°40' 18·00

42CC 600m² 20·00 20·00

42CM 450m² 18·00 317°40' 137°40' 18·00

42CD 600m² 20·00 20·00

42CL 450m² 18·00 317°40' 137°40' 18·00

42CE 600m² 20·00 20·00

42CK 450m² 18·00 317°40' 137°40' 18·00

42CF 540m² 18·00 18·00

42CJ 400m² 16·00 317°40' 137°40' 16·00

42CG 480m² 16·00 16·00

42CI 390m² 12·80 317°40' 137°40' 15·80

42CH 469m² 12·80

4·39 270°49' 21·80 227°40' 26·80 227°40' 4·39 184°31'

SEE SHEET 3

STREET NAME

NH4–STAGE 2 RESIDUE B

R195·45 C26·42 A26·44 54°11'00"

318°55' 24·60 (A) 42JA 610m² 30·00 220°40' 11·82 137°40' 4·32 93°46'

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE

ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S2	PLAN OF SUBDIVISION OF NH4 – STAGE 1 RESIDUE AND NH3 – STAGE 1 RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

42CA
42CB
42CO
42CC
42CN
42CD
42CM
42CE
42CL
42CF
42CK
42CG
42CJ
42CH
42CI

STREET NAME

42BR 428m² 47°40' 21.00 17.45 13.45 3°17'40" 2°40' 5.66
42BA 460m² 47°40' 27.50 12.95 15.45 13°7'40" 3.94 9°2'40"
42BQ 400m² 47°40' 25.00 16.00 16.00 3°17'40" 13°7'40"
42BB 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40"
42BP 450m² 47°40' 25.00 18.00 18.00 3°17'40" 13°7'40"
42BC 600m² 47°40' 30.00 20.00 20.00 3°17'40" 13°7'40"
42BO 450m² 47°40' 25.00 18.00 18.00 3°17'40" 13°7'40"
42BD 600m² 47°40' 30.00 20.00 20.00 3°17'40" 13°7'40"
42BN 450m² 47°40' 25.00 18.00 18.00 3°17'40" 13°7'40"
42BE 540m² 47°40' 30.00 18.00 18.00 3°17'40" 13°7'40"
42BM 450m² 47°40' 25.00 18.00 18.00 3°17'40" 13°7'40"
42BF 540m² 47°40' 30.00 18.00 18.00 3°17'40" 13°7'40"
42BL 450m² 47°40' 25.00 18.00 18.00 3°17'40" 13°7'40"
42BG 540m² 47°40' 30.00 18.00 18.00 3°17'40" 13°7'40"
42BK 400m² 47°40' 25.00 16.00 16.00 3°17'40" 13°7'40"
42BH 480m² 47°40' 30.00 16.00 16.00 3°17'40" 13°7'40"
42BJ 390m² 47°40' 25.00 12.80 12.80 3°17'40" 13°7'40" 4.39 270°49'
42BI 469m² 47°40' 30.00 15.80 12.80 3°17'40" 13°7'40" 4.39 89°10'31"
21.80 26.80 227°40' 227°40'

STREET NAME

42AA 615m² 47°40' 30.00 20.50 20.50 3°17'40" 13°7'40" NH4SI
42AB 480m² 47°40' 30.00 16.00 16.00 3°17'40" 13°7'40" NH4SI
42AC 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AD 480m² 47°40' 30.00 16.00 16.00 3°17'40" 13°7'40" NH4SI
42AE 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AF 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AG 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AH 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AI 420m² 47°40' 30.00 14.00 14.00 3°17'40" 13°7'40" NH4SI
42AJ 476m² 47°40' 30.00 13.04 16.04 3°17'40" 13°7'40" NH4SI
4.39 270°49'
26.80 227°40'

NH4SI

SEE SHEET 2

STREET NAME

42GA 589m² 47°40' 26.80 16.80 19.80 3°17'40" 137°40' (A) 4.39 4°31'
42GB 589m² 47°40' 26.80 16.80 19.80 3°17'40" 137°40' 4.39 90°49'
42HA 589m² 47°40' 26.80 16.80 19.80 3°17'40" 137°40' (A) 4.39 4°31'
42HB 589m² 47°40' 26.80 16.80 19.80 3°17'40" 137°40' 4.39 90°49'
42IA 588m² 47°40' 26.80 16.79 19.79 3°17'40" 137°40' (A) 4.39 4°31'
30.00 227°40'

STREET NAME

NH4SI

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3.5 WIDE

ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258-NH4S2

PLAN OF
SUBDIVISION OF NH4 – STAGE 1 RESIDUE AND NH3 – STAGE 1 RESIDUE B

LGA: QUEANBEYAN-PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres

Registered

NH4 – STAGE 2

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S3	PLAN OF SUBDIVISION OF NH4 – STAGE 2 RESIDUE A	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3500 Lengths are in metres.	Registered	NH4 – STAGE 3

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH4–STAGE 3
RESIDUE A

43HA
3175m²
PUBLIC
RESERVE

STREET NAME

43FA
5793m²
PUBLIC
RESERVE

STREET NAME

SEE SHEET 3

STREET NAME

43GA
6920m²

90°00' 103·38
49°55' 7·39
135°00' 6·79
7°30' 23·75
29·77
180°00'
3°47'52" 10·41
7°30' 12·40
320°32' 4·10
3·50 277°30'
76·39 277°30'
R195·29 C21·64 A21·65 280°29'40"
4·65 240°34'
18·74 200°00'
R39·20 C14·18 A14·25 190°25'00"

STREET NAME

43EB
2525m²

90°00' 51·95
135°00' 4·53
43°09' 4·39
0°00' 33·67
39·75
180°00'
88°47' 58·61
R60·80 C7·34 A7·34 3°27'40"
R60·80 C14·73 A14·76 13°52'40"
19·16
180°00'
20°30' 17·93
336°09' 4·27
R195·30 C42·44 A42·53 298°11'40"
R30·15 C23·92 A24·60 203°22'30"
21·92 226°45'
3·92 268°04'

43EA
2855m²

STREET NAME

43DL
386m²

45°00' 4·27
98°20' 10·00
26·86
0°00'
278°20' 13·05

43DM
366m²

98°20' 12·23
30·32
0°00'
278°20' 12·20 (A)

43DN
367m²

98°20' 12·23
30·32
0°03'
278°20' 12·25 (A)

43DA
378m²

98°20' 8·03
139°10' 7·57
30·32
0°01'
278°20' 13·04 (A)
25·32
180°00'

43DK
383m²
90°00'

25·25
98°20'
17·17
0°00'
13·50
180°00'
13·50 (A)

43DB
468m²
90°00'

25·29
98°20'
16·88
180°00'
20·55
0°00'

43DJ
337m²
90°00'

24·98
13·50
0°00'
13·50
180°00'
13·50 (A)

43DC
337m²
90°00'

25·02
13·50
0°00'
13·50
180°00'

43DI
413m²
90°00'

24·98
13·50
0°00'
16·00
180°00'
16·00 (A)

43DD
337m²
90°00'

25·02
13·50
0°00'
13·50
180°00'

27·68

43DH
557m²

R48·93 C16·23 A16·30 9°35'10"
R49·00 C8·21 A8·22 239°55'40"
180°00'
14·15
9·60
0°00'

43DE
499m²

25·02
8·79
180°00'

26·15 316°35'
46°35' 17·96
136°29' 26·06
R31·00 C20·94 A21·36 199°44'20"

43DF
472m²

26·26 316°35'
114·07 226°45'
R31·00 C3·93 A3·94 223°06'50"

43DG

SEE SHEET 3

STREET NAME

43CS
375m²

49°10' 6·54
7·94
98°20' 12·23
98°21' 12·23
98°18' 13·18
7·50
138°53'
0°00'
25·32
30·32
0°00'
278°20' 12·94
278°20' 12·23
278°20' 12·23 (A)
278°20' 18·19 (A)
180°00'
25·42

43CT
366m²

43CU
366m²

43CA
533m²

30·22
98°20'
18·79
0°00'

43CR
495m²
89°55'

14·36
179°55'
(A)

43CB

29·92
12·10
0°00'

43CQ
362m²
89°55'

12·10
179°55'
(A)

43CC

29·94
12·10
0°00'

43CP
362m²
89°55'

12·10
179°55'
(A)

43CD

29·96
7·04
0°00'

43CO
482m²
89°55'

16·00
179°55'
(A)

43CE

30·81

43CN
684m²

R49·00 C12·40 A12·43 179°48'10"
R49·00 C9·00 A9·01 5°16'00"
38·77 296°38'
29·24
179°55'
(A)

43CF

43CM

43CG

NH4–STAGE 3 RESIDUE B

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

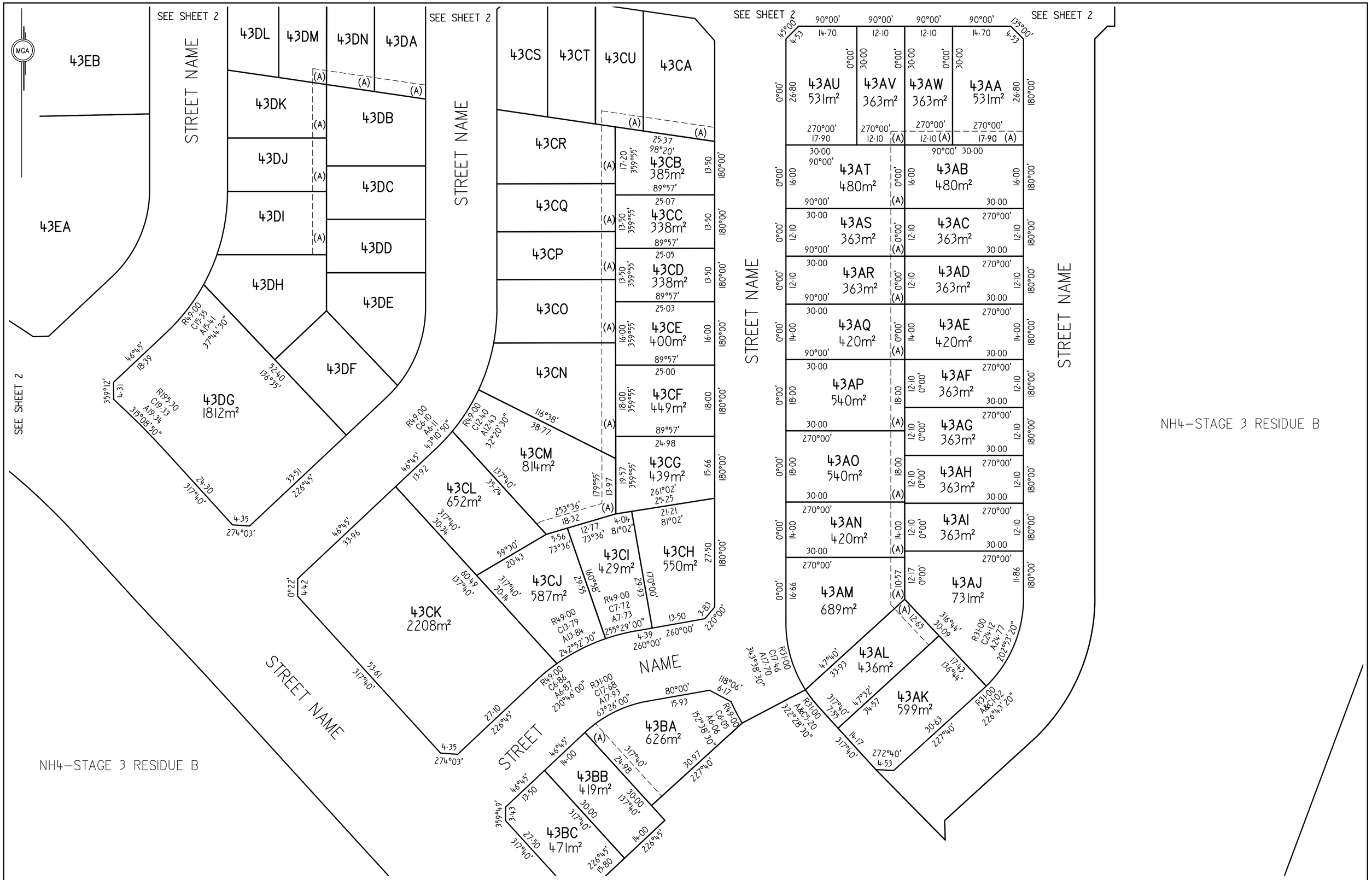
Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S3

PLAN OF
SUBDIVISION OF NH4 – STAGE 2 RESIDUE A

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH4 – STAGE 3



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S3	PLAN OF SUBDIVISION OF NH4 – STAGE 2 RESIDUE A	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 3

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S4

PLAN OF
SUBDIVISION OF NH4 – STAGE 3 RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 3500
Lengths are in metres·

Registered

NH4 – STAGE 4

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH4S3

NH4S1

55°02'
6·72

97°30'
72·63

R165·00
C64·50
A64·92
107°40'10"

4·54
172°11'

R150·65
C95·50
A97·18
29°11'10"

44EA
1·526ha

4·57
92°27'

47°40'
30·91

R164·35
C26·15
A26·18
133°17'20"

44CA
1954m²

137°40'
22·50

47°40'
13·50

137°40'
25·00

44CV
337m²

227°40'
13·50

317°40'
55·00

180°49'
4·39

47°40'
16·00

137°40'
25·00

44CU
400m²

227°40'
16·00

20·80
47°40'

44CB
624m²

30·00
137°40'

33·15
227°40'

4·39
94°31'

47°40'
4·02

4·39

16·80
317°40'

177·78
227°40'

STREET NAME

47°40'
13·60

137°40'
25·00

44CT
400m²

227°40'
16·00

14·00
47°40'

44CC
420m²

137°40'
30·00

20·80
227°40'

47°40'
34·60

137°40'
53·60

91°30'
6·93

137°40'
15·00

47°40'
25·00

44FC
581m²

47°40'
18·00

137°40'
25·00

44CR
400m²

227°40'
16·00

12·10
47°40'

44CD
363m²

137°40'
30·00

14·00
227°40'

44BA
2246m²

137°40'
20·00

47°40'
30·00

19·80
317°40'

44FB
600m²

62·69
317°40'

47°40'
18·00

137°40'
25·00

44CQ
450m²

227°40'
18·00

12·10
47°40'

44CE
363m²

137°40'
30·00

12·10
227°40'

44BU
540m²

137°40'
30·00

317°40'
60·00

4·39
180°49'

137°40'
16·80

47°40'
13·50

137°40'
25·00

44CP
337m²

227°40'
13·50

16·00
47°40'

44CF
363m²

137°40'
30·00

12·10
227°40'

20·00
317°40'

44FA
594m²

4·53
182°40'

4·53
272°40'

STREET NAME

47°40'
13·50

137°40'
25·00

44CO
337m²

227°40'
13·50

14·00
47°40'

44CG
480m²

137°40'
30·00

16·00
227°40'

44BT
540m²

30·00
317°40'

18·00
227°40'

44BB

20·00
317°40'

26·80
227°40'

317°40'
25·00

44CN

44CH
420m²

137°40'
30·00

317°40'
30·00

14·00
227°40'

44BS

30·00
317°40'

18·00
227°40'

44BC

44CM

44CL

44CJ

44CI

44BR

44BQ

44BD

NH4—STAGE 4
RESIDUE

44DL

SEE SHEET 3

SEE SHEET 3

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S4

PLAN OF
SUBDIVISION OF NH4 – STAGE 3 RESIDUE B

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres·

Registered

NH4 – STAGE 4



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S4	PLAN OF SUBDIVISION OF NH4 – STAGE 3 RESIDUE B	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 4

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

PLAN FORM 1 (A2)

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S7	PLAN OF SUBDIVISION OF NH4 – STAGE 2 RESIDUE B AND SUPERLOT 6	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3500 Lengths are in metres·	Registered	NH4 – STAGE 7

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

STREET NAME

47DE 786m²
47DB 455m²
47DC 487m²
47DD 386m²
47DF 739m²
47DAE 737m²
47DG 418m²
47DH 428m²
47DAD 637m²
47DI 490m²
47DAC 607m²
47DJ 486m²
47DAB 559m²
47DK 434m²
47DAA 558m²
47DL 430m²
47DZ 560m²
47DM 430m²
47DY 561m²
47DN 488m²
47DO 490m²
47DX
47DP
47DW

47EA
1·683ha
PUBLIC RESERVE

47CY 518m²
47CZ 432m²
47CX 544m²
47CAA 534m²
47CW 504m²
47CA 585m²
47CV 437m²
47CB 566m²
47CU 438m²
47CC 638m²
47CT 441m²
47CD 727m²
47CS 437m²
47CE 724m²
47CR
47CF
47CQ
47CG
47CP

47BQ
47BR
47BA
47BP
47BB
47BO
47BC
47BN

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR ACCESS AND/OR SERVICES
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S7

PLAN OF
SUBDIVISION OF NH4 – STAGE 2 RESIDUE B AND SUPERLOT 6

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres

Registered

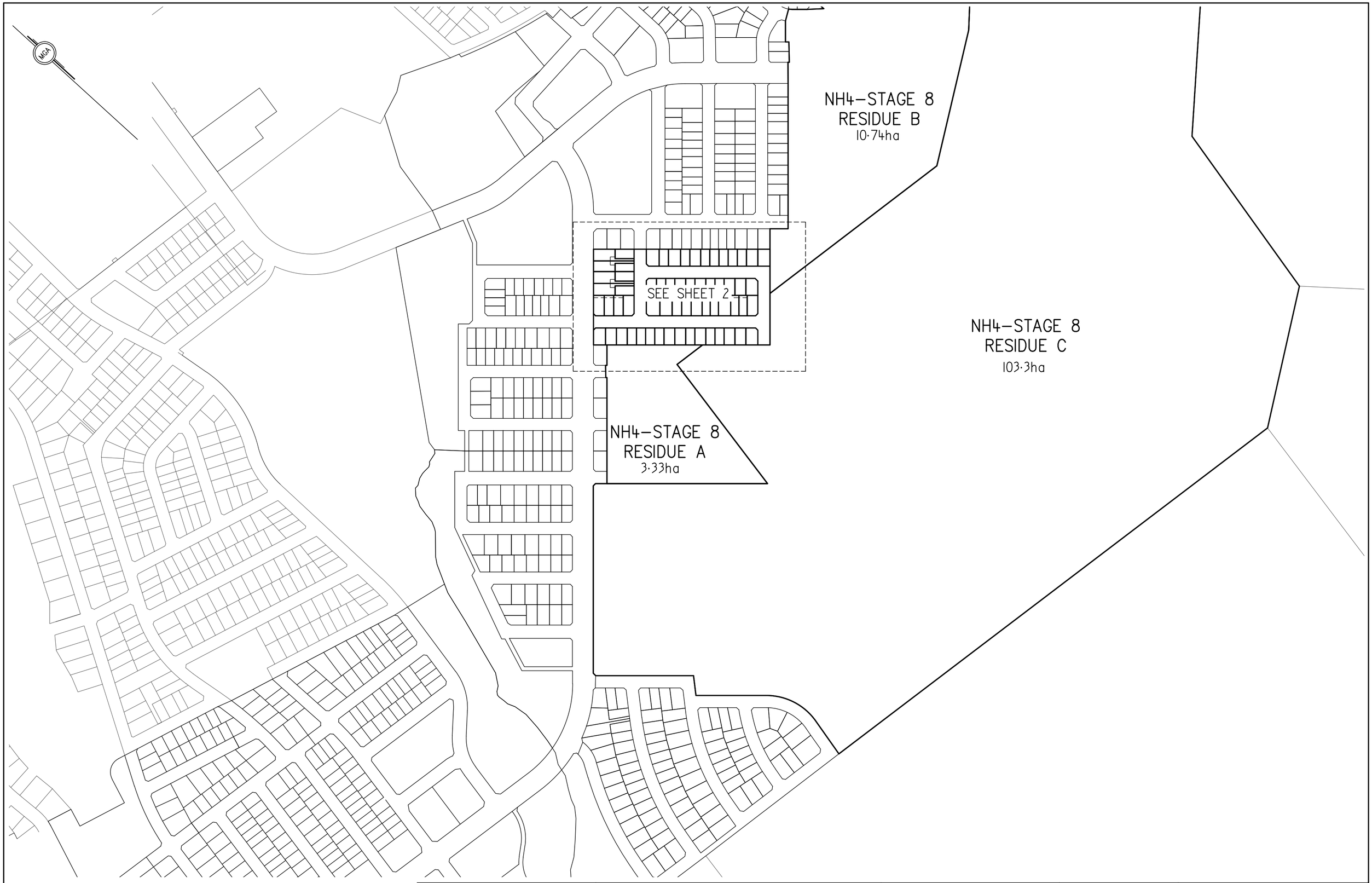
NH4 – STAGE 7



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR ACCESS AND/OR SERVICES
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258-NH4S7	PLAN OF SUBDIVISION OF NH4 – STAGE 2 RESIDUE B AND SUPERLOT 6	LGA: QUEANBEYAN-PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres.	Registered	NH4 – STAGE 7



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S8	PLAN OF SUBDIVISION OF NH4 – STAGE 7 RESIDUE AND NH4 – STAGE 4 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:3500 Lengths are in metres.	Registered	NH4 – STAGE 8

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH4S4 NH4S4

137°40' 137°40'

31·80 28·00

48AA 651m²

48AB 389m²

59·80 137°40' 28·00

48AC 594m²

48AD 338m²

31·80 28·00

48AF 654m²

48AE 392m²

59·80 28·00

48AG 654m²

48AH 392m²

317°40' 317°40'

31·80 28·00

15·80 (A) 14·00 (A) 14·00 (A) 16·00

137°40' 137°40' 137°40' 137°40'

48AL 469m² 48AK 420m² 48AJ 420m² 48AI 474m²

317°40' 317°40' 317°40' 317°40'

STREET NAME

NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4 NH4S4

137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40'

19·00 13·50 18·00 13·50 16·00 13·50 13·50 13·50 13·50 13·50 13·50 16·60

48BA 469m² 48BB 337m² 48BC 450m² 48BD 337m² 48BE 400m² 48BF 337m² 48BG 337m² 48BH 337m² 48BI 337m² 48BJ 337m² 48BK 415m² 48BL PUBLIC RESERVE 450m²

15·80 13·50 18·00 13·50 16·00 13·50 13·50 13·50 13·50 13·50 13·50 16·60

317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40'

STREET NAME

137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 182°40'

11·81 13·50 13·50 16·00 13·50 16·00 13·50 13·50 16·00 16·00 13·59 5·66

48CA 370m² 48CB 337m² 48CC 337m² 48CD 400m² 48CE 337m² 48CF 400m² 48CG 337m² 48CH 337m² 48CI 400m² 48CJ 400m² 48CK 431m²

317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 21·00

15·01 13·50 13·50 16·00 13·50 16·00 13·50 13·50 16·00 16·00 17·59

20·01 (A) 18·00 (A) 14·00 (A) 14·00 (A) 16·00 (A) 12·10 (A) 12·10 (A) 18·00 (A) 12·10 (A) 12·10 (A) 15·69

137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40'

48CV 595m² 48CU 540m² 48CT 420m² 48CS 420m² 48CR 480m² 48CQ 363m² 48CP 363m² 48CO 540m² 48CN 363m² 48CM 363m² 48CL 465m²

16·81 18·00 14·00 14·00 16·00 12·10 12·10 18·00 12·10 12·10 12·49

317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40'

STREET NAME

137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 137°40' 182°40'

14·79 16·00 16·00 13·50 13·50 13·50 13·50 16·00 16·00 13·50 16·00 13·50 13·50 16·00 16·00 14·41 4·53

48DA 439m² 48DB 400m² 48DC 400m² 48DD 337m² 48DE 337m² 48DF 337m² 48DG 337m² 48DH 400m² 48DI 400m² 48DJ 337m² 48DK 400m² 48DL 337m² 48DM 337m² 48DN 400m² 48DO 400m² 48DP 435m²

317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 317°40' 21·80

17·79 16·00 16·00 13·50 13·50 13·50 13·50 16·00 16·00 13·50 16·00 13·50 13·50 16·00 16·00 17·61

STREET NAME

NH4S2

NH4–STAGE 8 RESIDUE A

NH4–STAGE 8 RESIDUE B

NH4–STAGE 8 RESIDUE C

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR ACCESS AND/OR SERVICES
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH4S8

PLAN OF
SUBDIVISION OF NH4 – STAGE 7 RESIDUE AND NH4 – STAGE 4 RESIDUE

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 600
Lengths are in metres

Registered

NH4 – STAGE 8

MGA

SEE SHEET 2

SEE SHEET 3

SEE DIAGRAM A

NH4 STAGE 9 RESIDUE
101.3ha

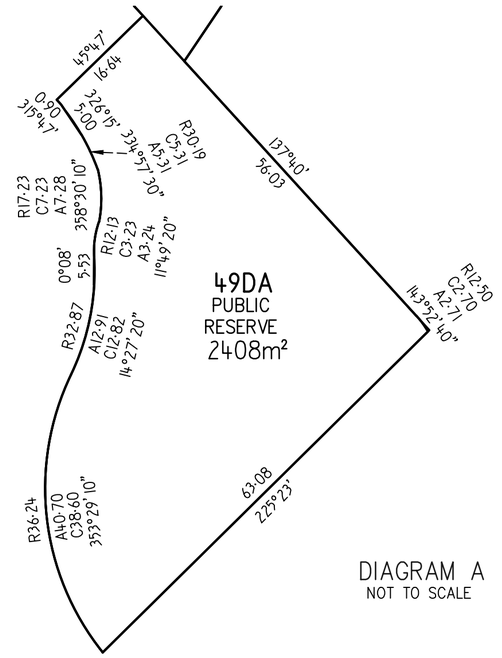


DIAGRAM A
NOT TO SCALE

NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258-NH4S9	PLAN OF SUBDIVISION OF NH4 – STAGE 8 RESIDUE A & RESIDUE C	LGA: QUEANBEYAN-PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:3500 Lengths are in metres.	Registered	NH4 – STAGE 9

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH4S1 NH4S2 NH4S8

49AA 540m²
49AB 480m²
49AC 420m²
49AD 420m²
49AE 480m²
49AF 540m²
49AG 420m²
49AH 420m²
49AI 480m²
49AJ 363m²
49AK 363m²
49AL
49AM
49AN
49AO

49BA 540m²
49BB 480m²
49BC 420m²
49BD 420m²
49BE 480m²
49BF 540m²
49BG 420m²
49BH 420m²
49BI
49BJ
49BK
49BL
49BM
49BU
49BV
49BW
49BX 420m²
49BY 420m²
49BZ 540m²
49BAA 480m²
49BAB 420m²
49BAC 420m²
49BAD 480m²
49BAE 540m²

49CA 540m²
49CAA 420m²
49CAB 420m²
49CAC 480m²
49CAD 540m²
49CB 480m²
49CC 420m²
49CD 420m²
49CE
49CF
49CG
49CH
49CY
49CZ

STREET NAME

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S9	PLAN OF SUBDIVISION OF NH4 – STAGE 8 RESIDUE A & RESIDUE C	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 9

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE

ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH4S9	PLAN OF SUBDIVISION OF NH4 – STAGE 8 RESIDUE A & RESIDUE C	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH4 – STAGE 9

MGA

55LA
2·533ha
PUBLIC RESERVE

SEE SHEET 2

SEE DIAGRAM A

SEE SHEET 3

NH5–STAGE 5 RESIDUE
16·35ha

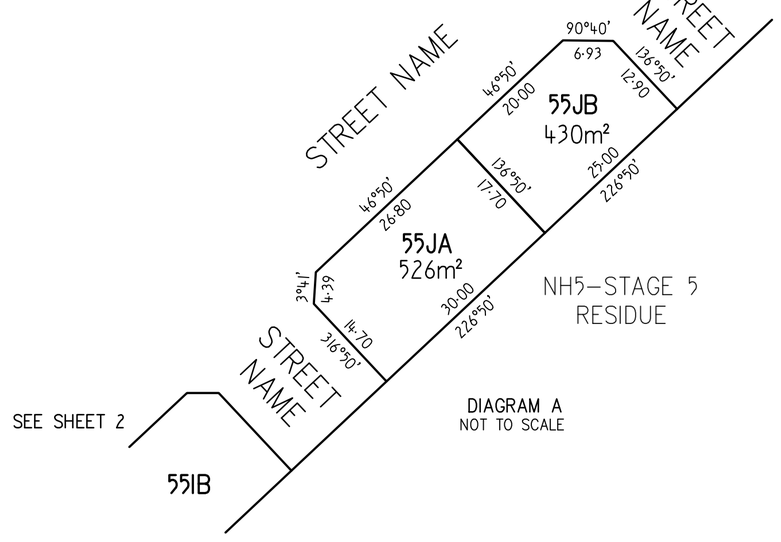


DIAGRAM A
NOT TO SCALE

NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH5S5

PLAN OF
SUBDIVISION OF NH4 STAGE 8
RESIDUE B AND SUPERLOT 5

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 3500
Lengths are in metres.

Registered

NH5 – STAGE 5

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH5–STAGE 5 RESIDUE

55AA 600m²
55AB 600m²
55AC 600m²
55AD 600m²
55AE 600m²
55AF
55AG

STREET NAME

55BA 571m²
55BT 480m²
55BS 600m²
55BR 600m²
55BQ 540m²
55BP 540m²
55BO 488m²
55BB 739m²
55BC 600m²
55BD 608m²
55BE 685m²
55BF 854m²
55BG
55BH
55BI
55BJ
55BK
55BL
55BM
55BN

55KA
1·974ha
PUBLIC RESERVE

STREET NAME

55CA 474m²
55CB 420m²
55CC 712m²
55CD 480m²
55CE 480m²
55CF 559m²
55CG 515m²

STREET NAME

SEE DIAGRAM A SHEET 1

55JA
55IB 437m²
55IA 526m²
55HB
55HA

STREET NAME

NH5–STAGE 5 RESIDUE

SEE SHEET 3

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH5S5

PLAN OF
SUBDIVISION OF NH4 STAGE 8 RESIDUE B AND SUPERLOT 5

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres

Registered

NH5 – STAGE 5

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 14/06/2022
Surveyor's Ref: 20258–NH5S5

PLAN OF
SUBDIVISION OF NH4 STAGE 8
RESIDUE B AND SUPERLOT 5

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres·

Registered

NH5 – STAGE 5

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S6	PLAN OF SUBDIVISION OF NH5 – STAGE 5 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3500 Lengths are in metres.	Registered	NH5 – STAGE 6

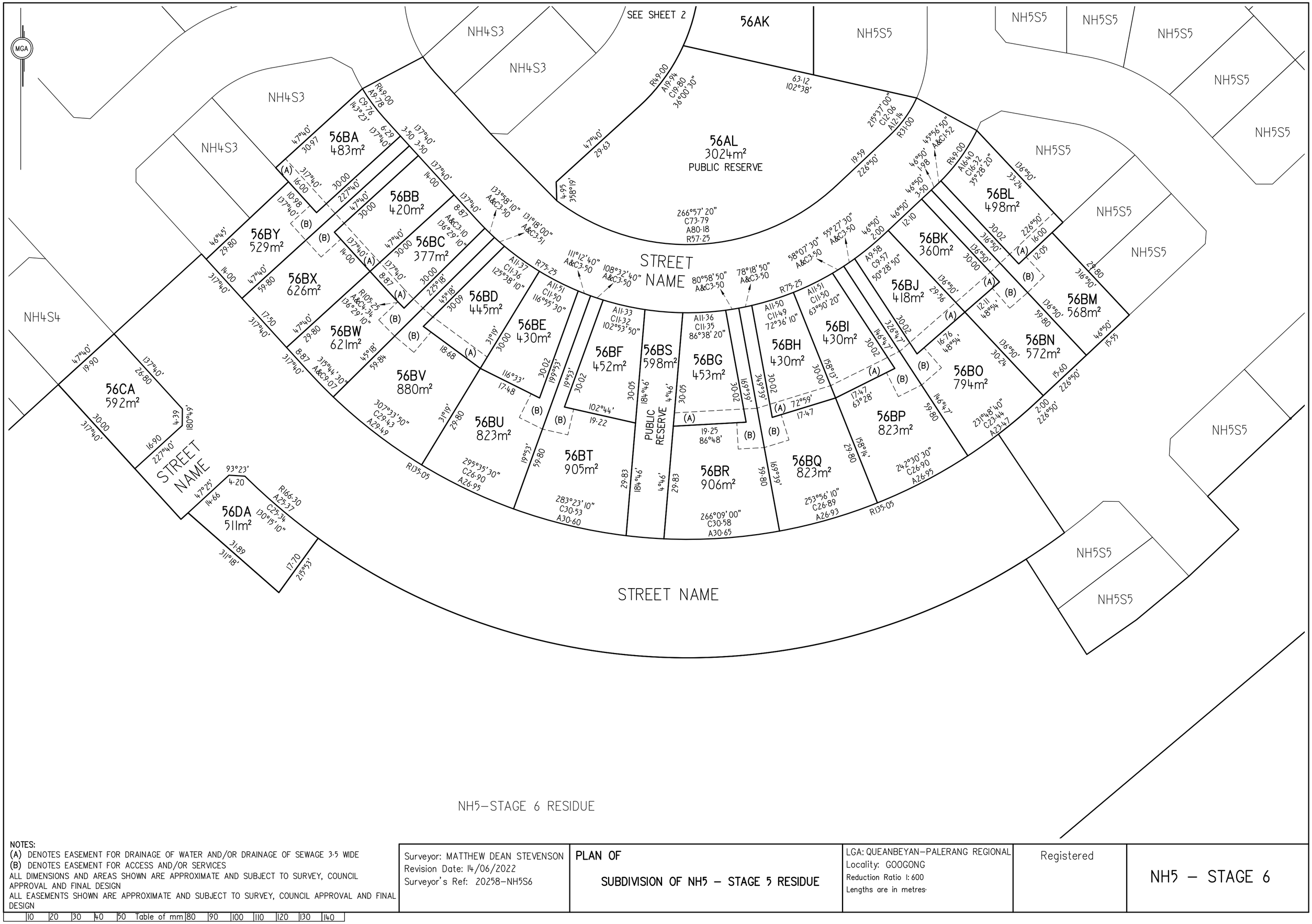
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
(B) DENOTES EASEMENT FOR ACCESS AND/OR SERVICES
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10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

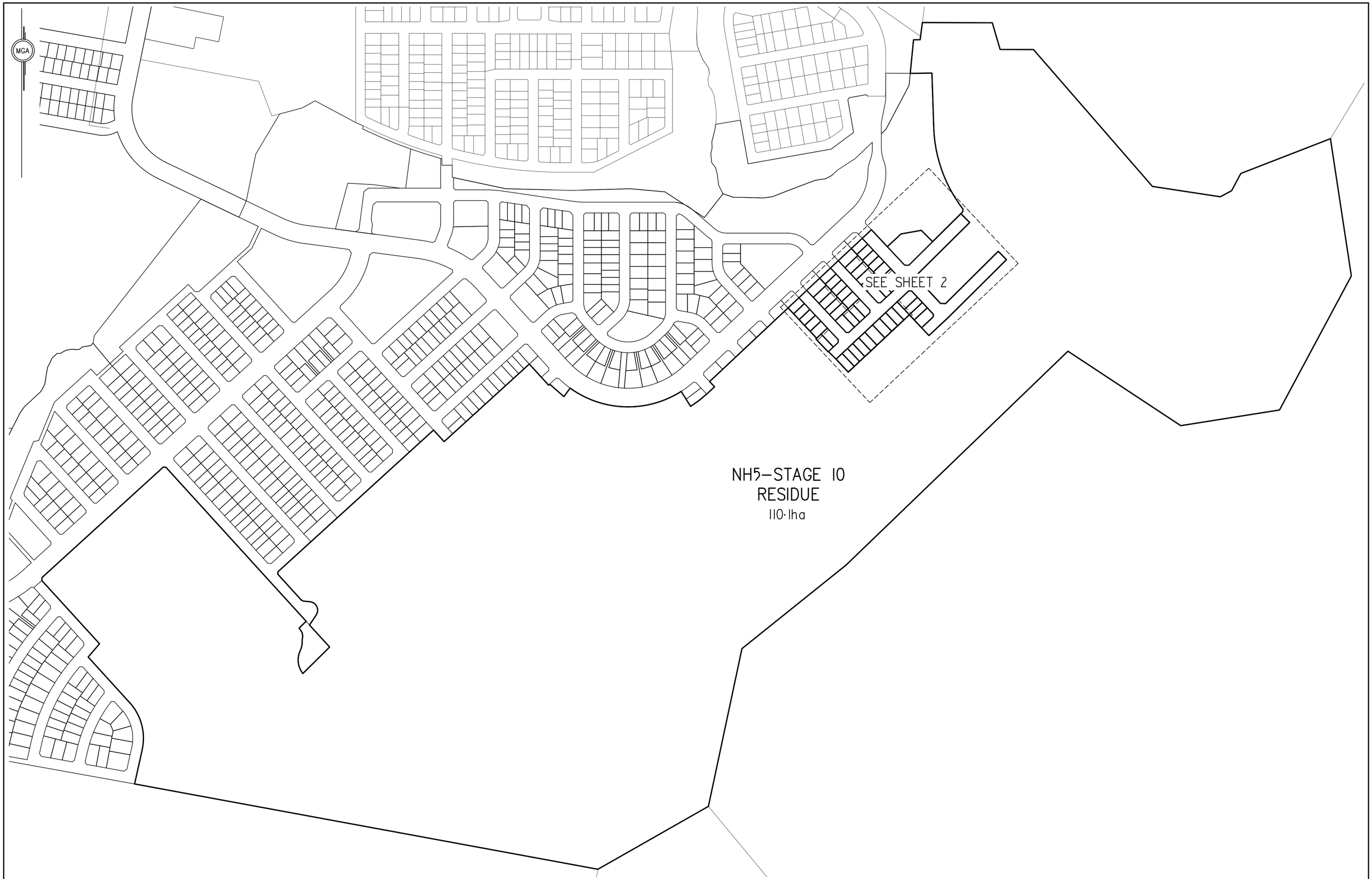
Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258-NH5S6	PLAN OF SUBDIVISION OF NH5 – STAGE 5 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH5 – STAGE 6



NOTES:
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10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

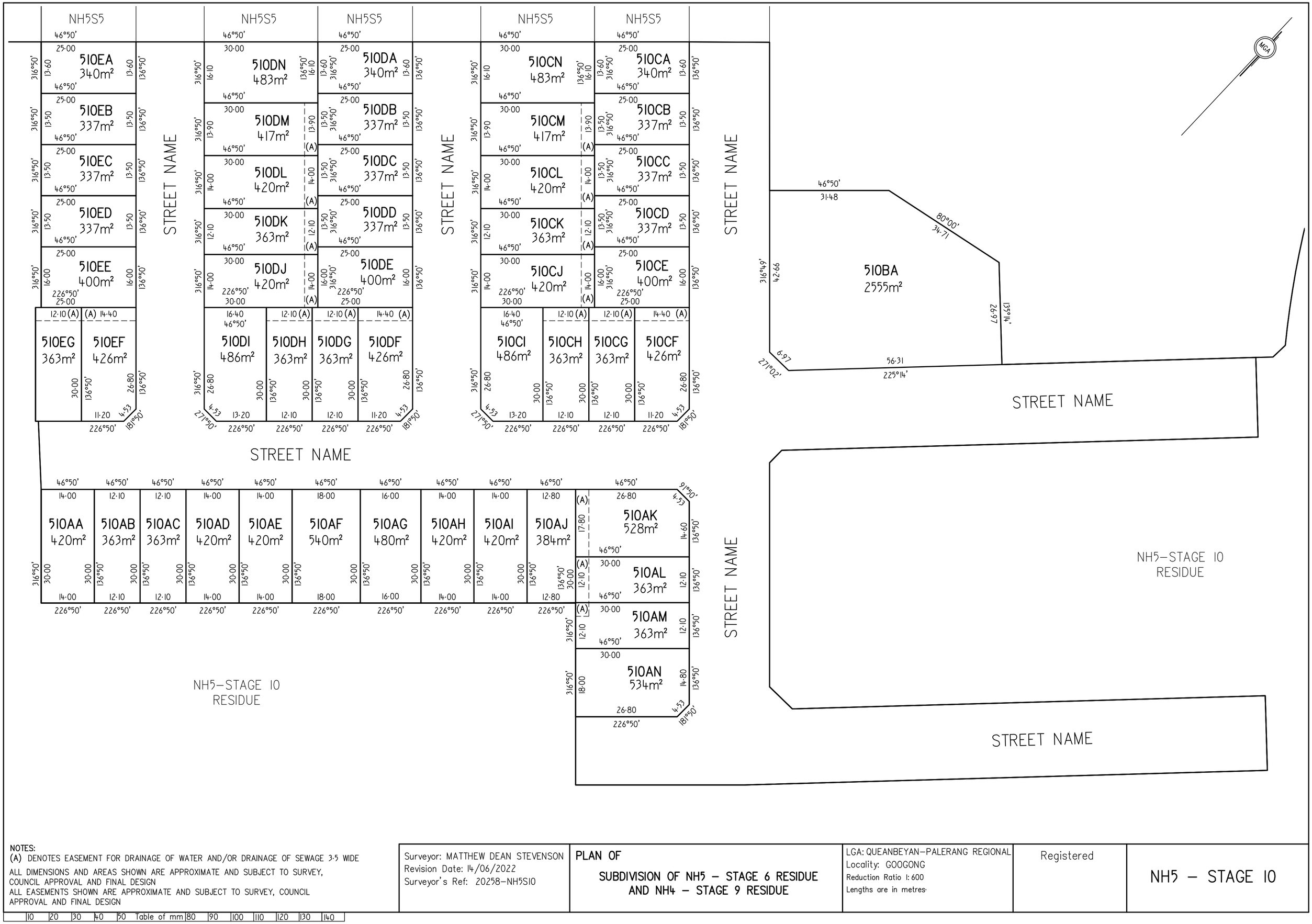
Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S6	PLAN OF SUBDIVISION OF NH5 – STAGE 5 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:600 Lengths are in metres·	Registered	NH5 – STAGE 6



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S10	PLAN OF SUBDIVISION OF NH5 – STAGE 6 RESIDUE AND NH4 – STAGE 9 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:4000 Lengths are in metres.	Registered	NH5 – STAGE 10

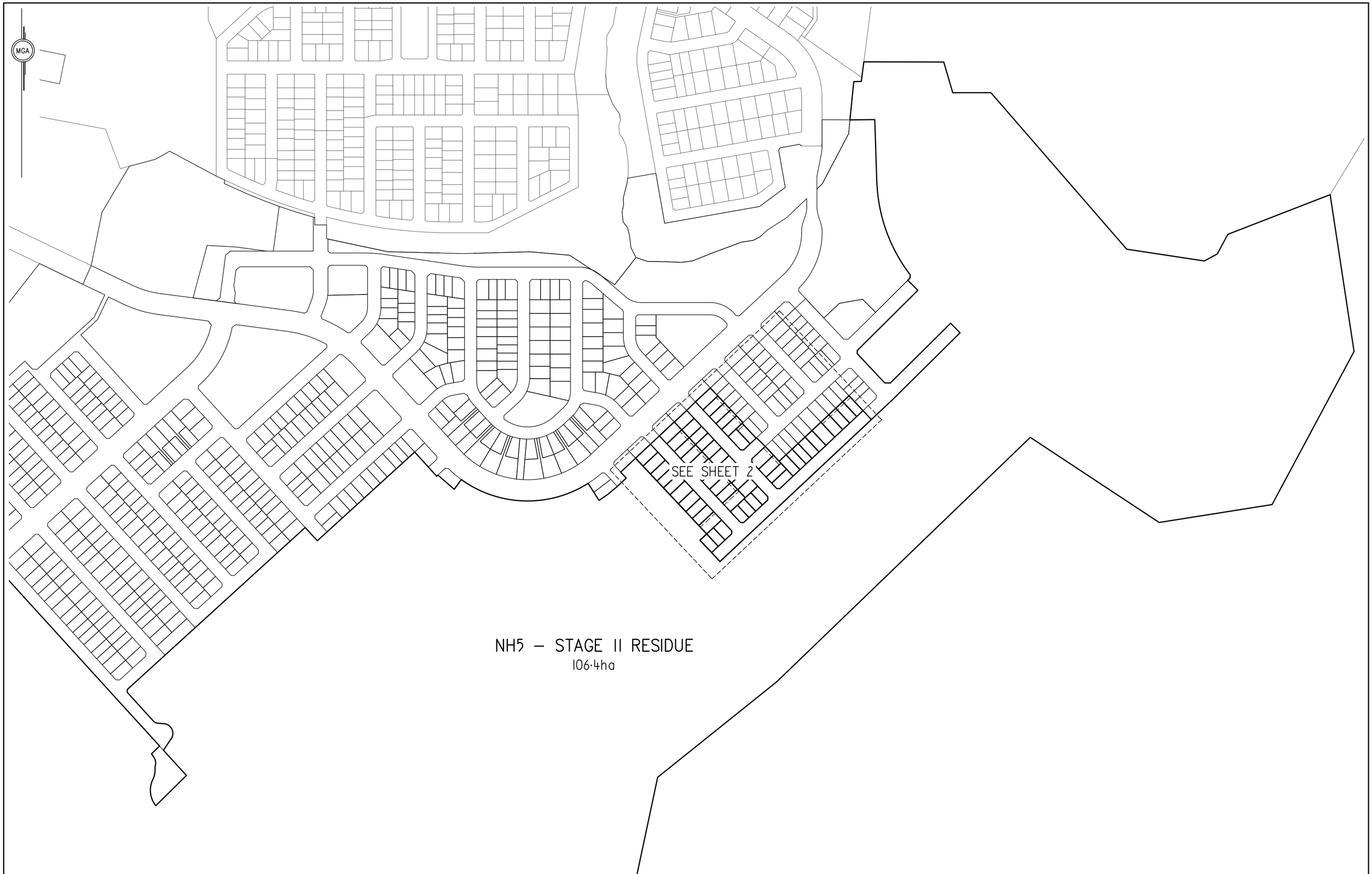
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S10	PLAN OF SUBDIVISION OF NH5 – STAGE 6 RESIDUE AND NH4 – STAGE 9 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:600 Lengths are in metres.	Registered	NH5 – STAGE 10

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

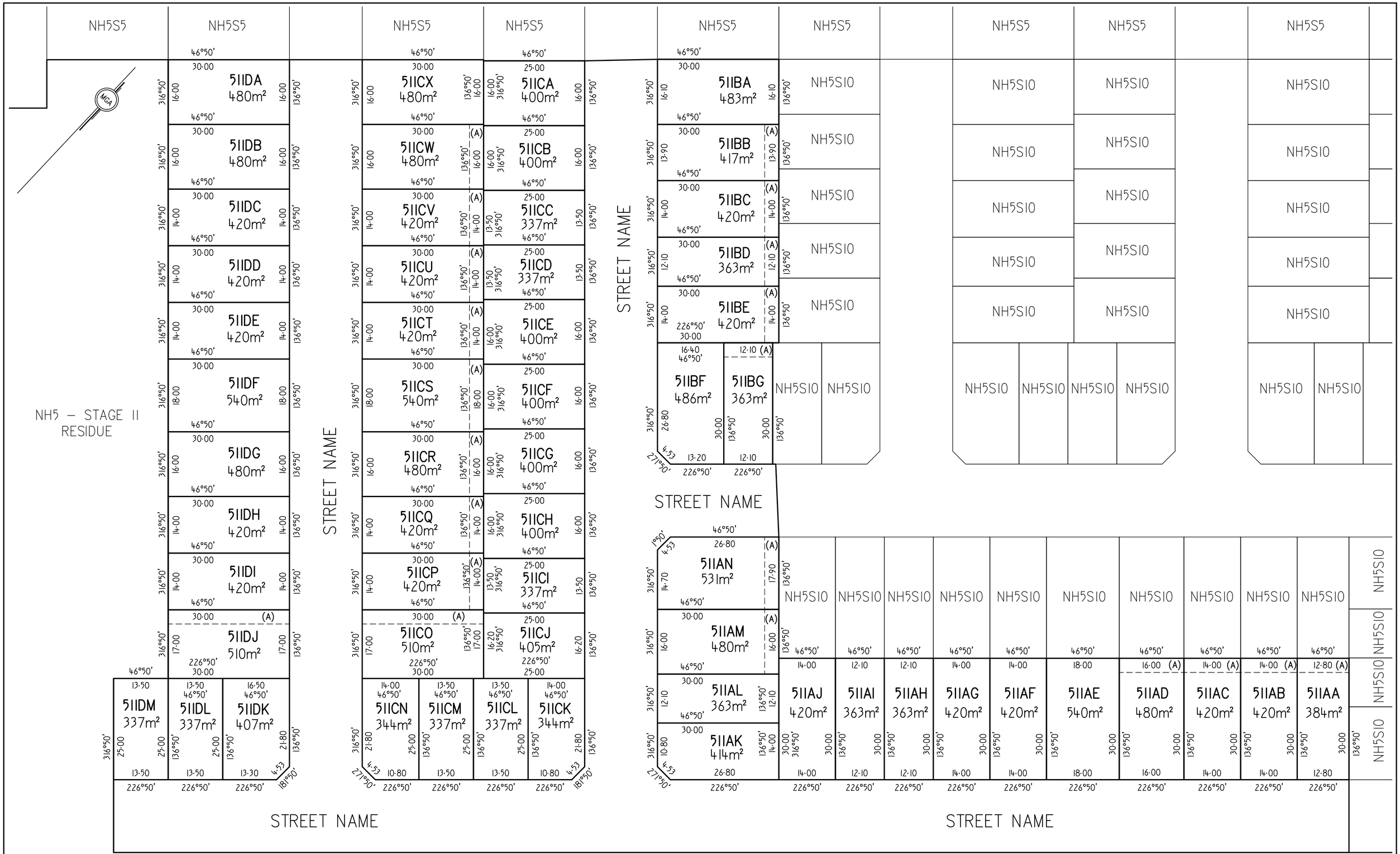


NOTES:
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ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S11	PLAN OF SUBDIVISION OF NH5 – STAGE 10 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3500 Lengths are in metres.	Registered	NH5 – STAGE 11

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

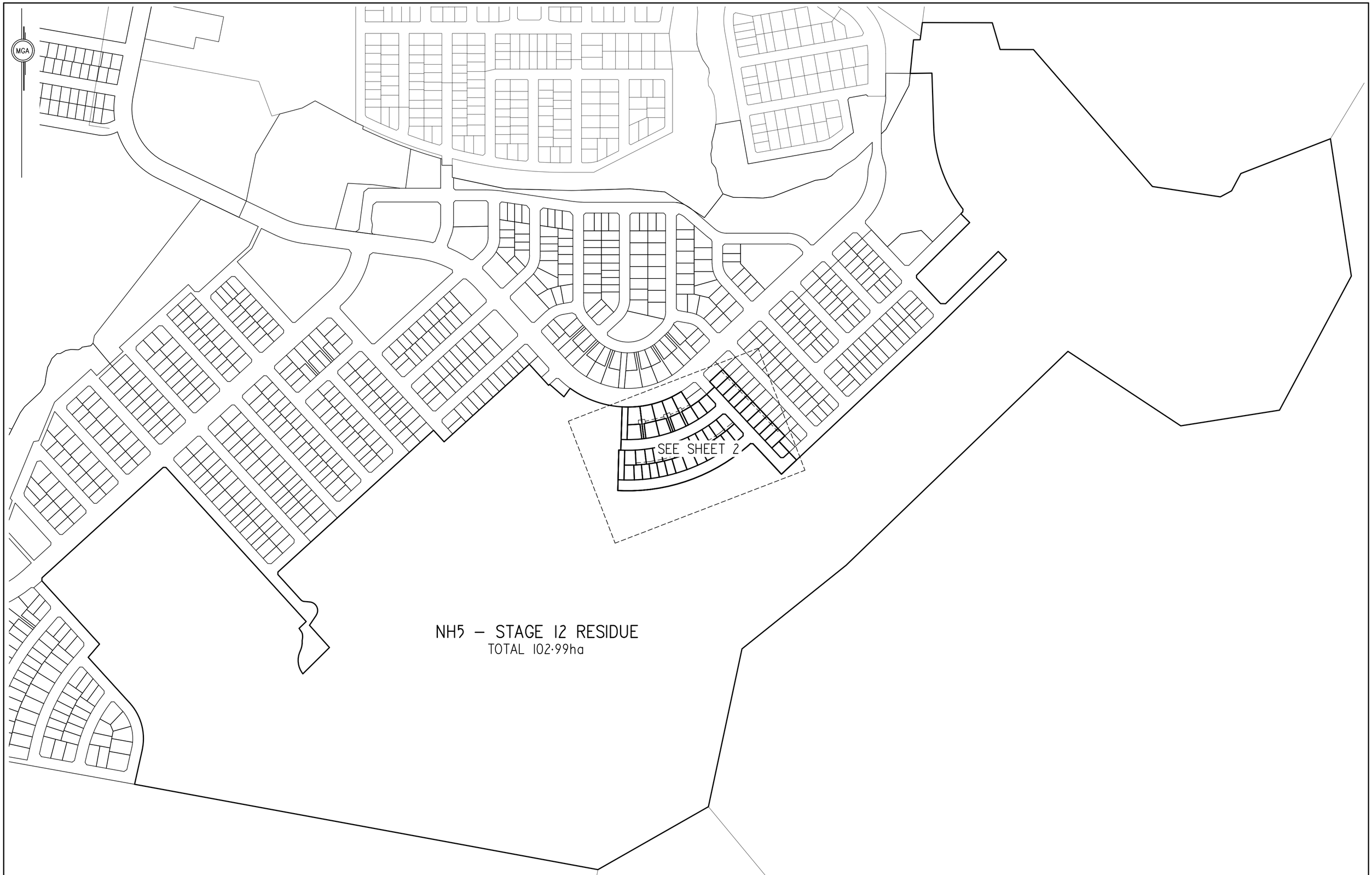
PLAN FORM 1 (A2) WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION Sheet 2 of 2 sheets



NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
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ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S11	PLAN OF SUBDIVISION OF NH5 – STAGE 10 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH5 – STAGE 11

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
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Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 15/06/2022
Surveyor's Ref: 20258–NH5S12

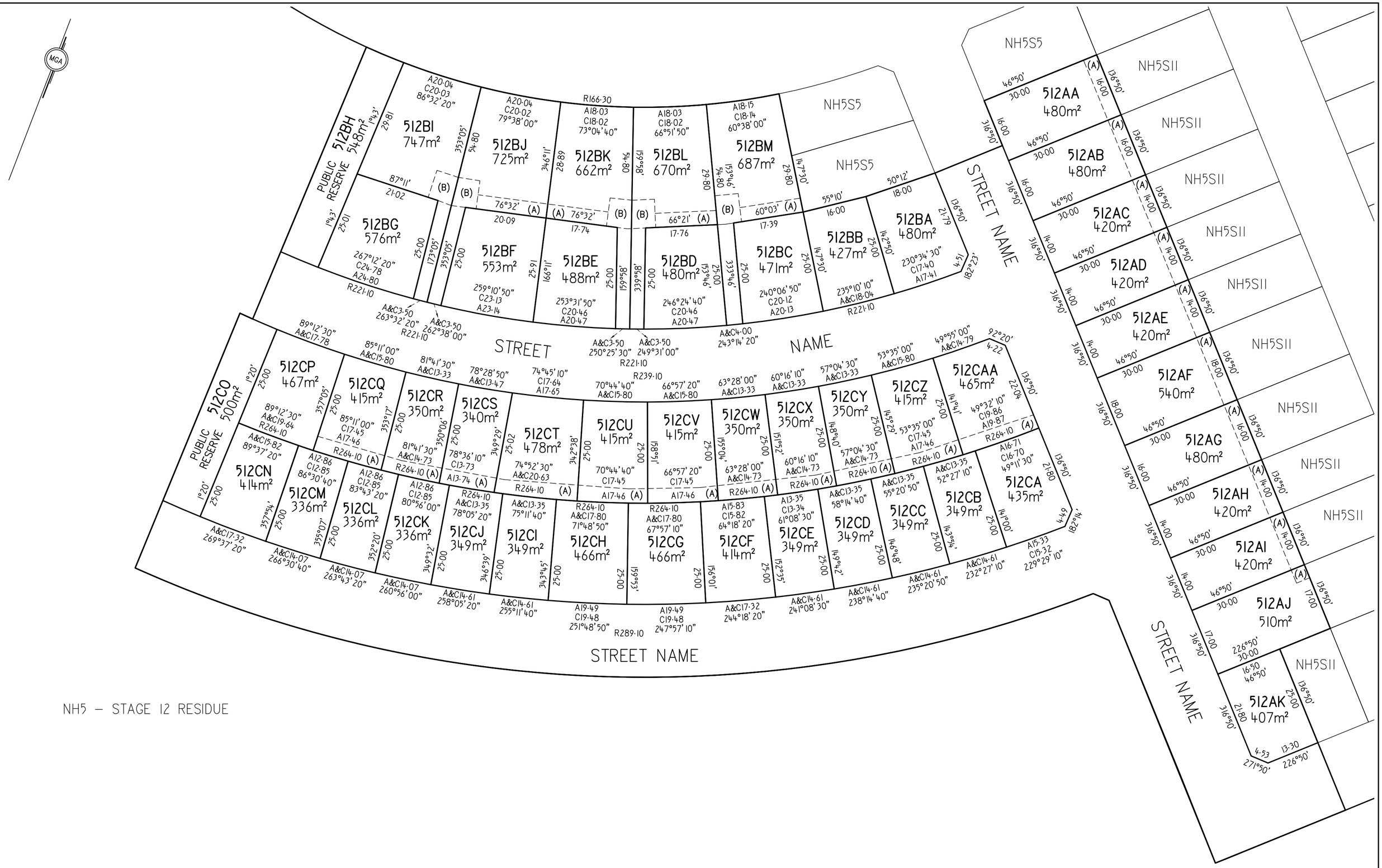
PLAN OF
SUBDIVISION OF NH5 – STAGE 11 RESIDUE

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 4000
Lengths are in metres·

Registered

NH5 – STAGE 12

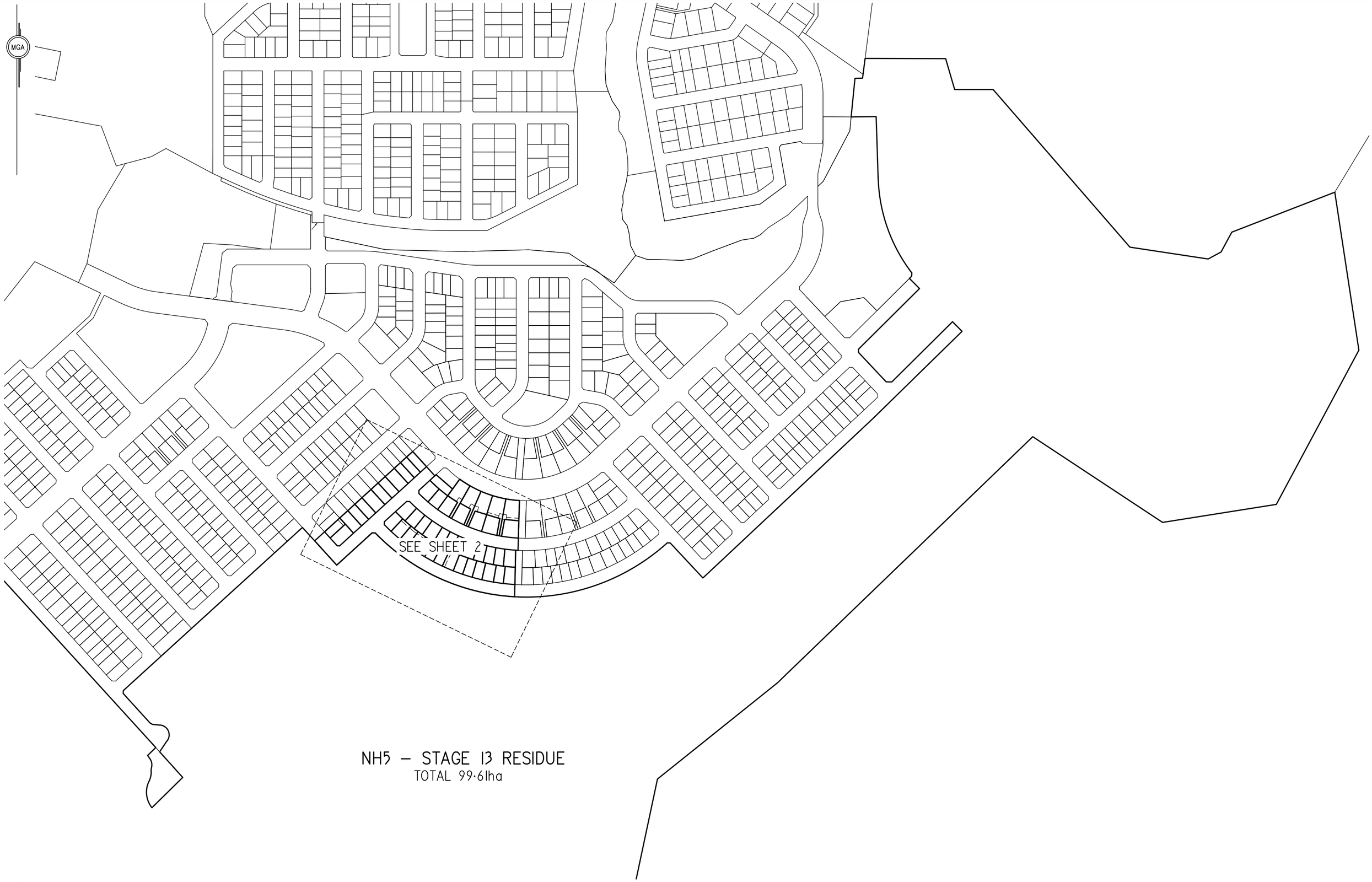
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
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ALL EASEMENTS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S12	PLAN OF SUBDIVISION OF NH5 – STAGE 11 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH5 – STAGE 12

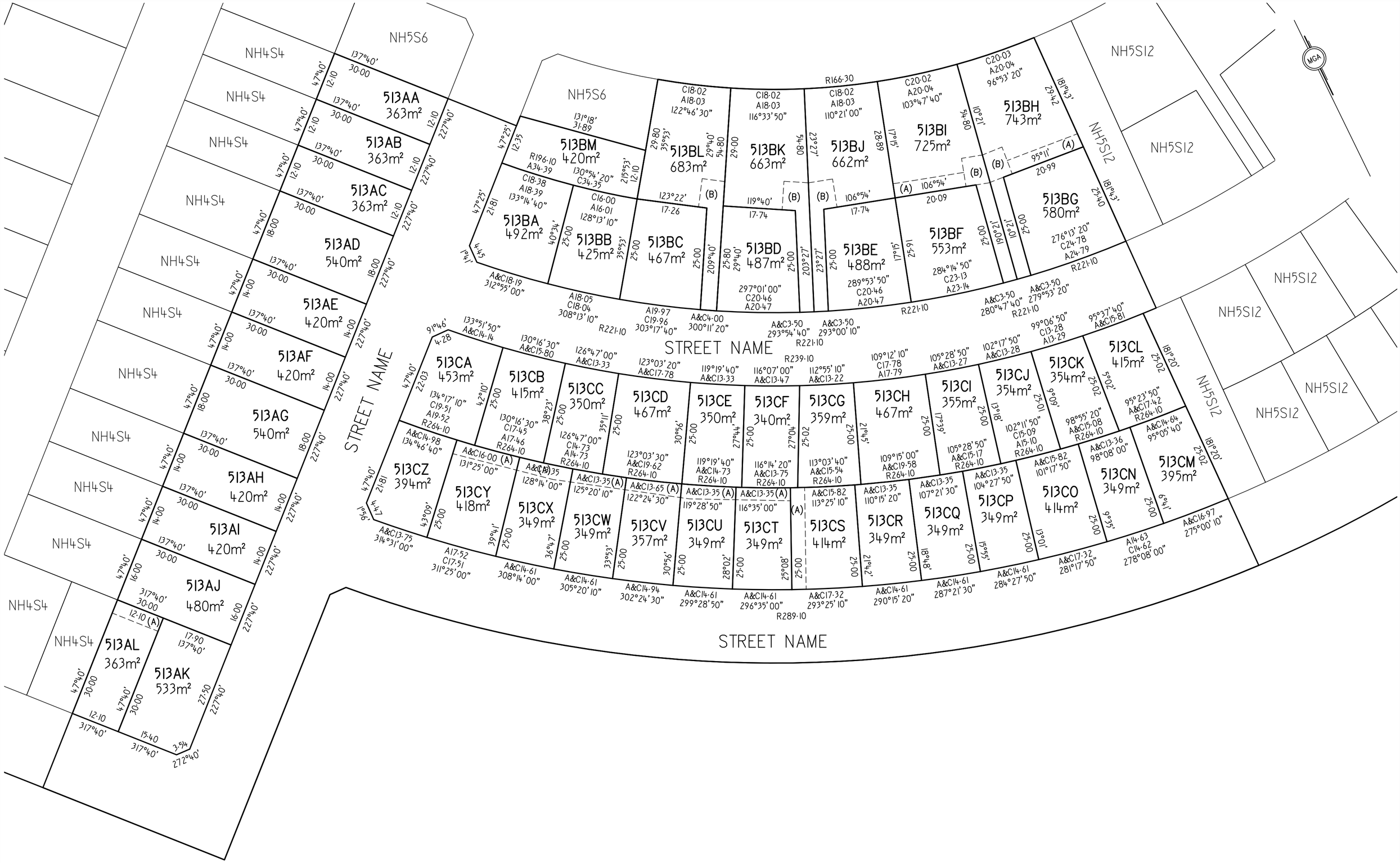
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S13	PLAN OF SUBDIVISION OF NH5 – STAGE 12 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 3500 Lengths are in metres·	Registered	NH5 – STAGE 13

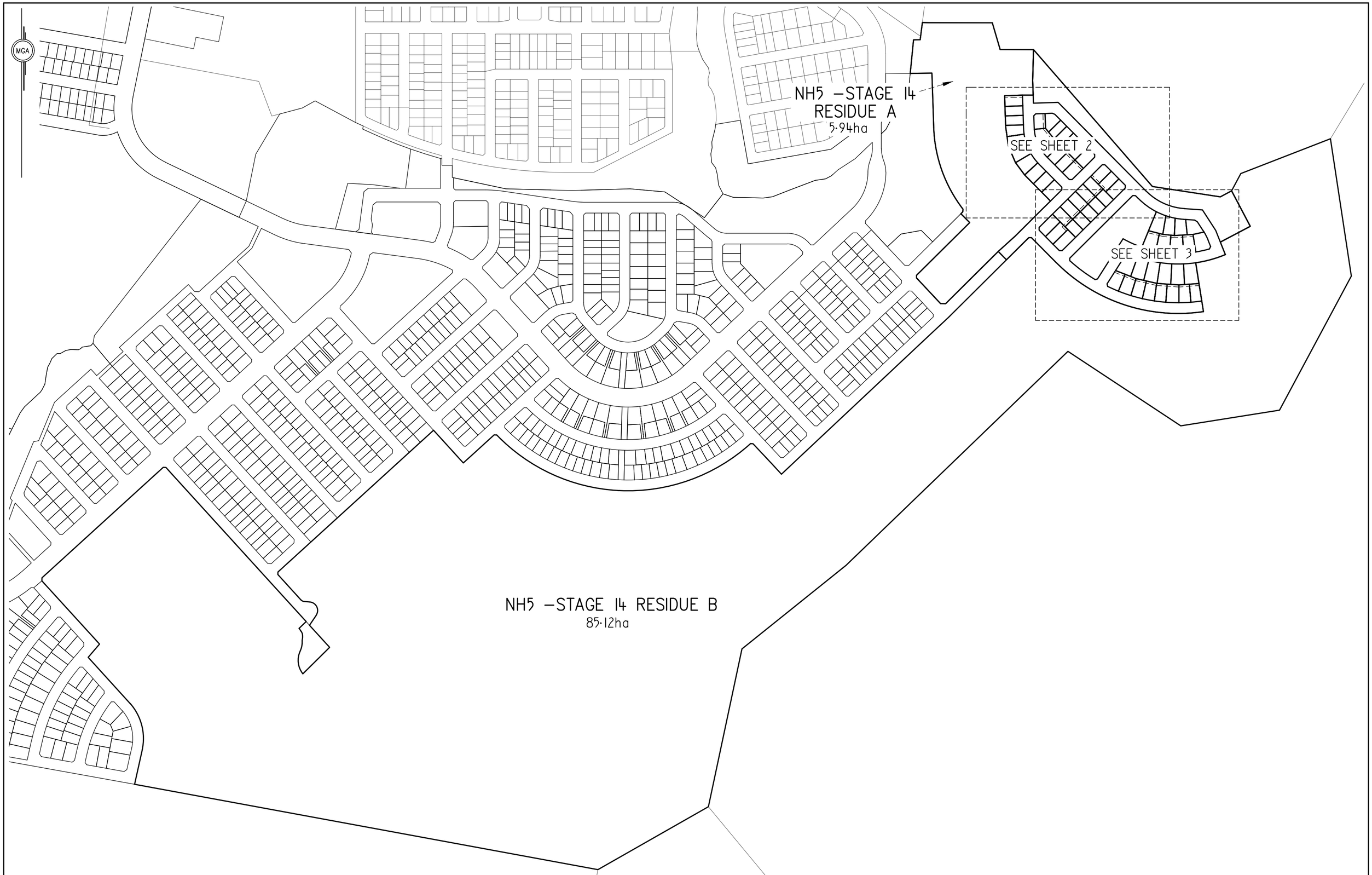
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



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10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

Surveyor: MATTHEW DEAN STEVENSON Revision Date: 14/06/2022 Surveyor's Ref: 20258–NH5S13	PLAN OF SUBDIVISION OF NH5 – STAGE 12 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres·	Registered	NH5 – STAGE 13



NOTES:
ALL DIMENSIONS AND AREAS SHOWN ARE APPROXIMATE AND SUBJECT TO SURVEY, COUNCIL APPROVAL AND FINAL DESIGN
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Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 15/06/2022
Surveyor's Ref: 20258–NH5S14

PLAN OF
SUBDIVISION OF NH5 STAGE 13 RESIDUE

LGA: QUEANBEYAN–PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1: 4000
Lengths are in metres·

Registered

NH5 – STAGE 14

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

NH5 –STAGE 14
RESIDUE B

514AA 540m²
514AB 480m²
514AC 480m²
514AD 508m²
514AE 595m²
514AF 594m²
514AG 666m²
514AH 611m²
514AI 592m²
514AJ 624m²
514BL 477m²
514BA 527m²
514BB 424m²
514BK 610m²
514BC 480m²
514BD 480m²
514BJ 554m²
514BI 540m²
514BE 540m²
514BH 540m²
514BF 594m²
514BG 594m²
514FA PUBLIC RESERVE 1·383ha
514CA 568m²
514CB 558m²
514CP 540m²
514CC 568m²
514CO 527m²
514CD 450m²
514CN
514CE 439m²
514CM
514CF
514CL
514CG
514DJ

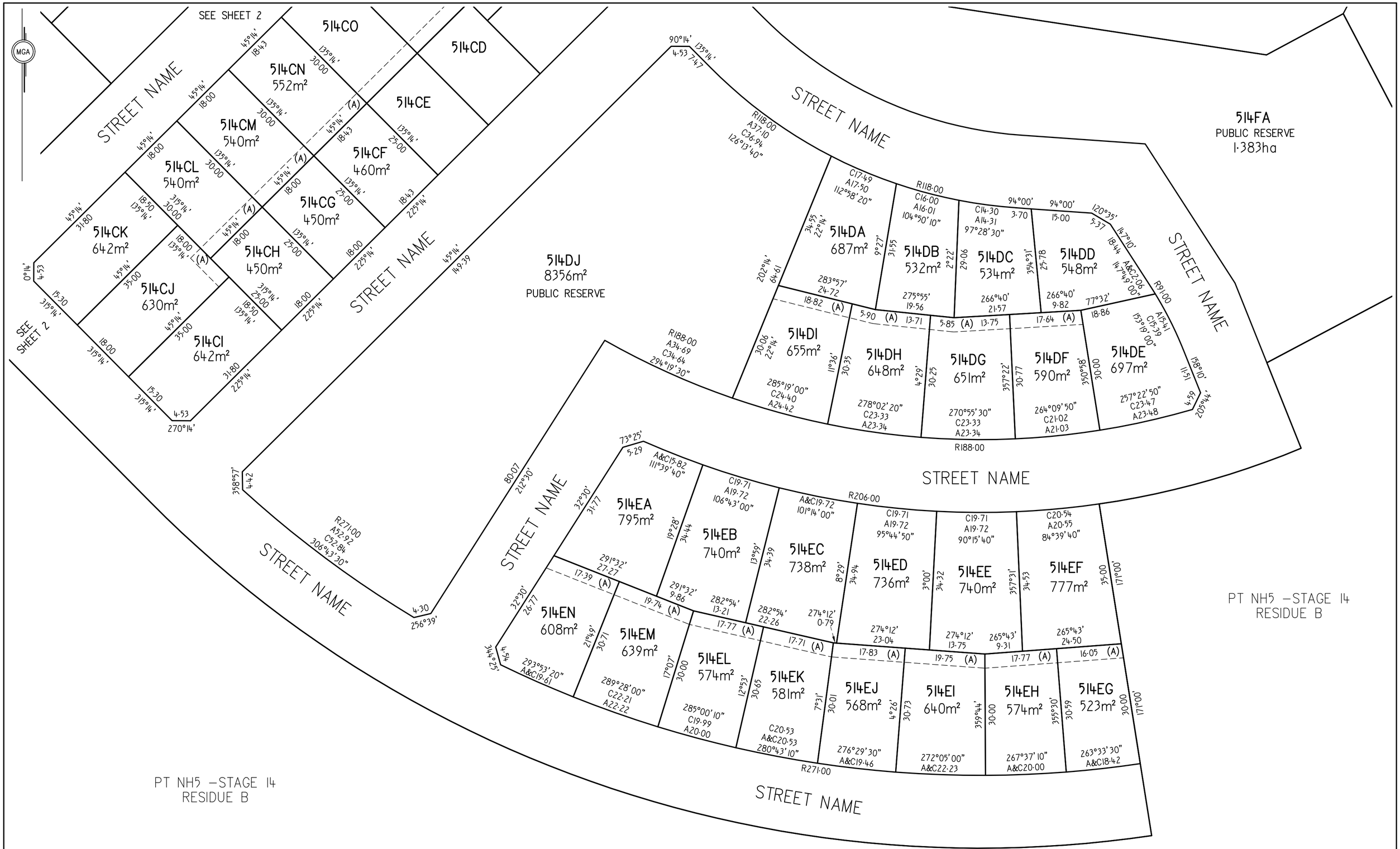
STREET NAME
STREET NAME
STREET NAME
STREET NAME

SEE SHEET 3
SEE SHEET 3
SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S14	PLAN OF SUBDIVISION OF NH5 STAGE 13 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH5 – STAGE 14

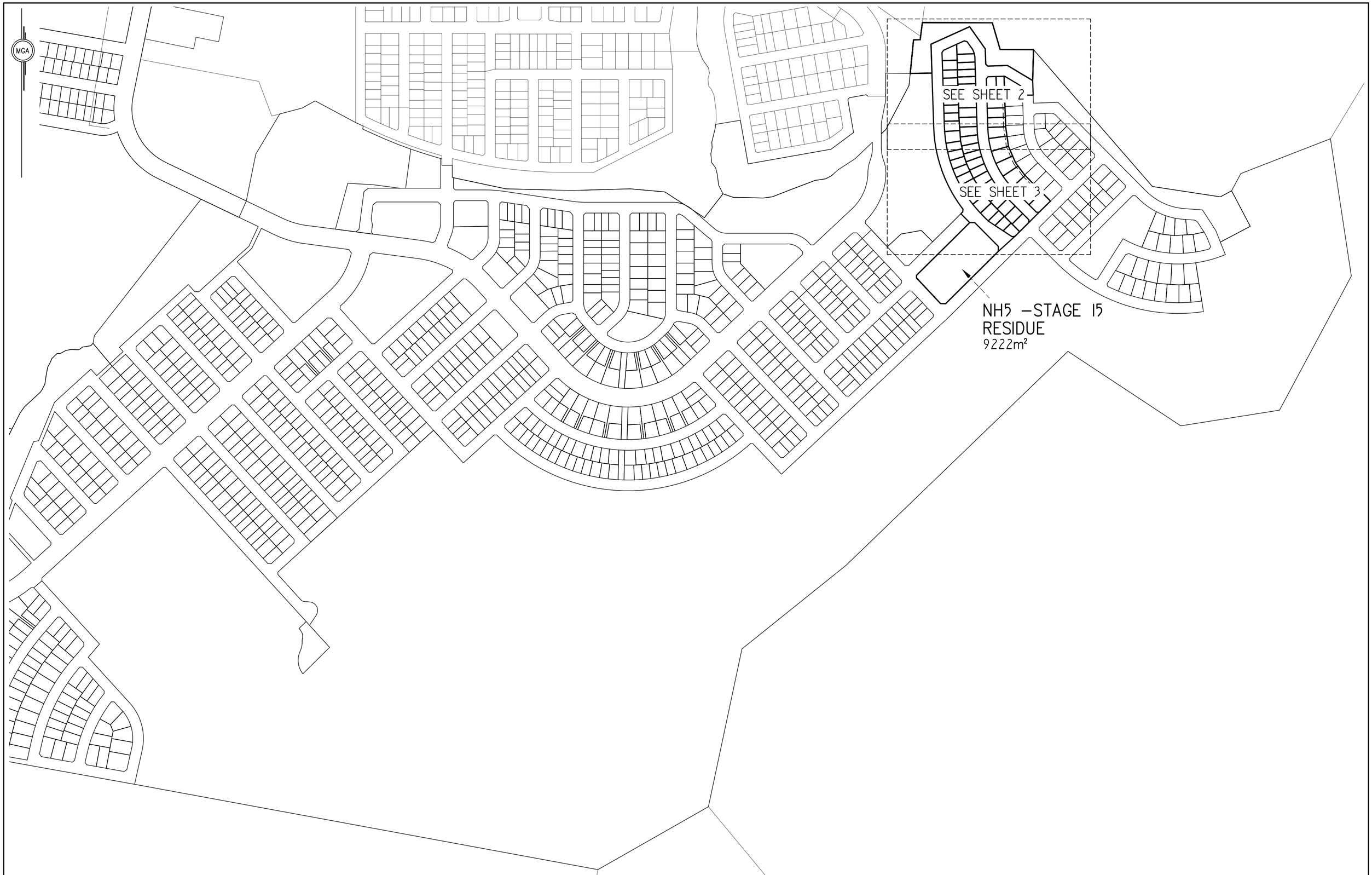
10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S14	PLAN OF SUBDIVISION OF NH5 STAGE 13 RESIDUE	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 600 Lengths are in metres	Registered	NH5 – STAGE 14

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140



NOTES:
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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5S15	PLAN OF SUBDIVISION OF NH5 STAGE 14 RESIDUE A	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1: 4000 Lengths are in metres	Registered	NH5 – STAGE 15

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

515CA
7928m²
PUBLIC RESERVE

STREET NAME

515AAT 534m²
515AA 489m²
515AB 417m²
515AC 362m²
515AD 362m²
515AE 362m²
515AF 362m²
515AG 419m²
515AH 419m²
515AI 479m²
515AJ 474m²
515AK 445m²
515AL
515AM
515AAS 400m²
515AAR 337m²
515AAP 337m²
515AAO 400m²
515AAN 400m²
515AAM 337m²
515AAL 338m²
515AAK 425m²
515AAJ
515AAI

STREET NAME

515BC 407m²
515BB 337m²
515BA 707m²
515BD 420m²
515BE 420m²
515BF 480m²
515BG 479m²
515BH
515BI

STREET NAME

NH5S5

NH5S14

SEE SHEET 3

SEE SHEET 3

NOTES:
(A) DENOTES EASEMENT FOR DRAINAGE OF WATER AND/OR DRAINAGE OF SEWAGE 3·5 WIDE
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Surveyor: MATTHEW DEAN STEVENSON
Revision Date: 15/06/2022
Surveyor's Ref: 20258-NH5S15

PLAN OF
SUBDIVISION OF NH5 STAGE 14 RESIDUE A

LGA: QUEANBEYAN-PALERANG REGIONAL
Locality: GOOGONG
Reduction Ratio 1:600
Lengths are in metres·

Registered

NH5 – STAGE 15

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140

MGA

SEE SHEET 2

SEE SHEET 2

STREET NAME

STREET NAME

515AAK

515AK

515AAJ 480m²

515AL 417m²

515AAI 356m²

515AM 366m²

515AAH 355m²

515AN 360m²

515AAG 358m²

515AO 393m²

515AAF 360m²

515AP 383m²

515AAE 359m²

515AQ 441m²

515AAD 427m²

515AR 364m²

515AAC 480m²

515AS 360m²

515AAB 472m²

515AT 408m²

515AAA 456m²

515AU 450m²

515AZ 317m²

515AV 443m²

515AY 326m²

515AW 444m²

515AX 333m²

515BG

515BH 529m²

515BI 606m²

515BJ 604m²

515BK 668m²

515BL 669m²

515BM 616m²

515BN 593m²

515BO 625m²

NH5S14

NH5S5

NH5 – STAGE 15
RESIDUE

NOTES:
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Surveyor: MATTHEW DEAN STEVENSON Revision Date: 15/06/2022 Surveyor's Ref: 20258–NH5SI5	PLAN OF SUBDIVISION OF NH5 STAGE 14 RESIDUE A	LGA: QUEANBEYAN–PALERANG REGIONAL Locality: GOOGONG Reduction Ratio 1:600 Lengths are in metres	Registered	NH5 – STAGE 15

10 20 30 40 50 Table of mm 80 90 100 110 120 130 140