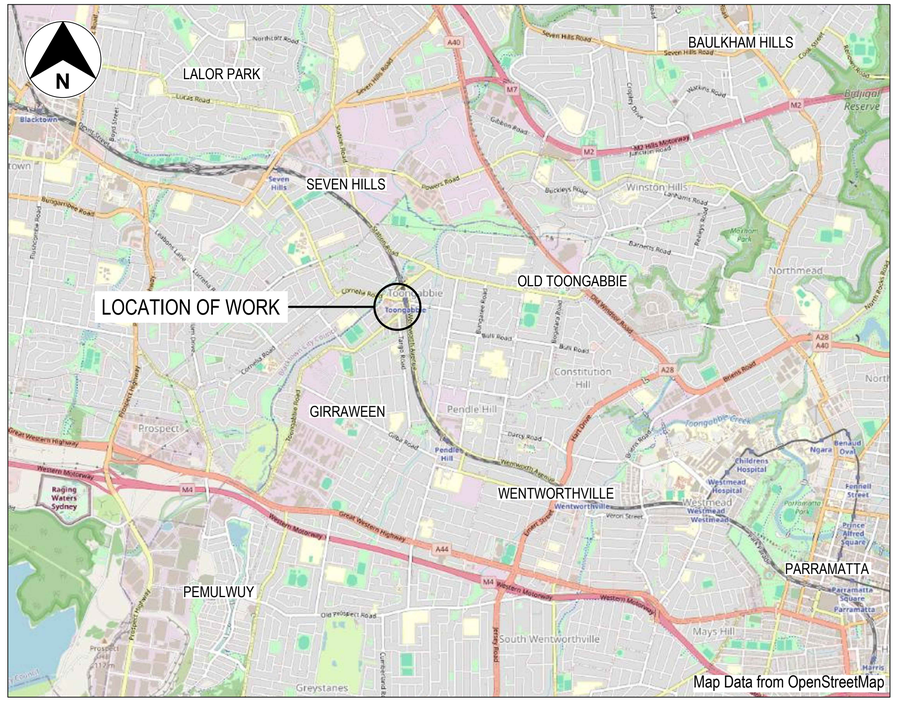
CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
80% DETAILED DESIGN



LOCALITY PLAN
NTS

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FOR REVIEW AND COMMENT

REFERENCES:

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B	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25
A	EARLY CONCEPT DESIGN	CR 04/07/25	DS 04/07/25	RH 04/07/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: NTS

DESIGN LOT CODE:

CLIENT:
CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
GENERAL
COVER SHEET

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-GN-DRG-000001	C			

FILE NAME: TOON-TURN-NWW-GN-DRG-000001.dwg
PLOT DATE & TIME: 07/11/2025 16:55:56

DRAWING INDEX

DRAWING No.	SHEET TYPE	SHEET DETAILS	No. OF SHEETS
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TOON-TURN-NWW-RW-DRG-040101	SITE 4	GENERAL ARRANGEMENT PLAN	1 OF 1
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TOON-TURN-NWW-RW-DRG-040211	SITE 4	LONGITUDINAL SECTION - MC10	1 OF 1
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TOON-TURN-NWW-UT-DRG-040101	SITE 4	PLAN	1 OF 1
TOON-TURN-NWW-ST-DRG-040101	SITE 4	RETAINING WALL - GENERAL ARRANGEMENT	1 OF 1
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TOON-TURN-NWW-RW-DRG-090101	SITE 9	GENERAL ARRANGEMENT PLAN	1 OF 1

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: NTS

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN _ _ _ _ _ MOMOKA TAKAHASHI _ _ _ 07/11/25
DESIGNED _ _ _ _ JOHN O'TOOLE _ _ _ _ _ _ 07/11/25
DRG CHECK _ _ _ BARRIE EVANS _ _ _ _ _ _ 07/11/25
DESIGN CHECK _ DMITRY SHIROKOV _ _ _ _ 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV _ _ _ _ 07/11/25
APPROVED _ _ _ ROCHELLE HICKS _ _ _ _ 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
GENERAL
DRAWING INDEX

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©
DRG No. TOON-TURN-NWW-GN-DRG-000002 | REV C | VER | EDMS No. | AMD No.

FILE NAME: TOON-TURN-NWW-GN-DRG-000002.dwg

PLOT DATE & TIME: 07/11/2025 16:56:00

GENERAL NOTES

G1. ALL DIMENSIONS ARE IN METRES AND LEVELS, CHAINAGES AND COORDINATES ARE IN METRES, UNLESS NOTED OTHERWISE.
G2. LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). UNLESS SECTIONS ARE OUTSIDE OF SURVEY, WHERE THE DESIGN IS IN 2D. THESE AREAS ARE REPRESENTED ON THE DRAWINGS.
G3. COORDINATES ARE TO MAP GRID AUSTRALIA (MGA-ZONE 56) AND GEOCENTRIC DATUM OF AUSTRALIA 2020 (GDA2020).
G4. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS MARKED "APPROVED FOR CONSTRUCTION".
G5. ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE REFERRED TO THE NOMINATED AUTHORITY FOR CLARIFICATION BEFORE PROCEEDING.
G6. THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES/UTILITIES SHOWN ON THE DRAWINGS IS INDICATIVE AND PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ESTABLISH THE EXACT POSITION AND LEVEL OF EXISTING AND RELOCATED SERVICES ON-SITE PRIOR TO COMMENCEMENT OF SITE WORKS.
G7. ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS UNLESS NOTED OTHERWISE.
G8. ALL BACKFILLED TRENCHES ARE TO BE PROTECTED FROM CONSTRUCTION TRAFFIC DURING THE COURSE OF THE WORKS.
G9. CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION AS PER AS5488-2019.

CIVIL WORKS

C1. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH TfNSW SPECIFICATION R44.
C2. ALL INTERFACES BETWEEN NEW AND EXISTING WORKS ARE TO BE MADE SMOOTH AND EVEN, FREE FROM ABRUPT CHANGES.
C3. KERB AND GUTTER SHAPES TO BE IN ACCORDANCE WITH CUMBERLAND CITY COUNCIL STANDARD DRAWING DS1 UNLESS NOTED OTHERWISE.
C4. KERBS AND GUTTERS TO BE CONSTRUCTED IN ACCORDANCE WITH TfNSW R15.

ROAD FURNITURE AND DELINEATION

F1. MANUFACTURE, SUPPLY AND INSTALLATION OF SIGNAGE SHALL BE IN ACCORDANCE WITH TfNSW SPECIFICATIONS R143 AND 3400.
F2. CONNECTION OF SIGN FACES AND ASSEMBLY DETAILS TO BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RELEVANT TfNSW SPECIFICATIONS.

STORMWATER DRAINAGE

S1. CONCRETE PIPES ARE TO BE CLASS B1.
S2. ALL DRAINAGE PITS ARE TO BE DETAILED AS PER TfNSW R0200 STORMWATER DRAINAGE SERIES AND RELEVANT CUMBERLAND CITY COUNCIL STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
S3. GRATES FOR DRAINAGE INLETS ARE TO BE RATED CLASS D IN ACCORDANCE WITH AS 3996 UNLESS NOTED OTHERWISE.
S4. CONCRETE DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH TfNSW SPECIFICATION R11 AND RELEVANT CUMBERLAND CITY COUNCIL STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
S5. PIT SETOUT COORDINATES ARE TAKEN AT CENTROID OF PIT UNLESS NOTED OTHERWISE.

PAVEMENTS

P1. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
P2. ALL UTILITY SERVICE FITTINGS AND STORMWATER DRAINAGE PITS POSITIONED WITHIN THE PAVEMENT MUST BE INSTALLED FLUSH WITH FINISHED SURFACE LEVEL.
P3. PAVEMENT MARKERS TO DENOTE UTILITIES ARE TO BE AS PER UTILITY DRAWING AND DETAILS.
P4. TIE-INS TO ACHIEVE A SMOOTH TRANSITION WITH EXISTING AT LIMITS OF WORK.
P5. UNBOUND PAVEMENT COURSE TO BE CONSTRUCTED IN ACCORDANCE WITH TfNSW SPECIFICATION R71.
P6. HEAVILY BOUND PAVEMENT COURSE TO BE CONSTRUCTED IN ACCORDANCE WITH TfNSW SPECIFICATION R73.
P7. SPRAYED SEALS TO BE CONSTRUCTED IN ACCORDANCE WITH TfNSW SPECIFICATION R107.
P8. CONCRETE TO BE IN ACCORDANCE WITH TfNSW SPECIFICATION R53.
P9. STEEL MESH TO BE IN ACCORDANCE WITH TfNSW SPECIFICATION R53.
P10. DGB MATERIAL TO BE IN ACCORDANCE WITH TfNSW SPECIFICATION 3051.
P11. EXISTING FILL MATERIAL (WHERE SPECIFIED) TO BE UNBOUND GRANULAR MATERIAL WITH MINIMUM 4-DAY SOAKED CBR OF 10 PER CENT AND MAXIMUM PLASTICITY INDEX OF 15 PER CENT.
P12. IN-SITU TEMPERATURES OF CONCRETE, DURING CONCRETE, SHALL NOT EXCEED:
- A PEAK TEMPERATURE OF 75 DEGREES CELSIUS; AND
- A DIFFERENTIAL TEMPERATURE OF 28 DEGREES CELSIUS.

UTILITIES

U1. THE PURPOSE OF PRESENTING EXISTING PUBLIC UTILITIES IS TO FACILITATE THE IDENTIFICATION AND DOCUMENTATION OF IMPACTS FROM NEW PROJECT WORKS.
U2. UTILITY INFORMATION SHOWN ON THE DRAWINGS DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE BASED ON AVAILABLE DOCUMENTARY EVIDENCE. THE PRESENCE OF A UTILITY SERVICE, ITS SIZE AND LOCATION SHOULD BE CONFIRMED BY FIELD INSPECTION AND POT HOLING PRIOR TO THE COMMENCEMENT OF ROADWORKS, AND THE RELEVANT UTILITY PLANS SHOULD BE OBTAINED FROM THE BEFORE YOU DIG AUSTRALIA (BYDA) WEBSITE. CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTILITY SERVICES.
U3. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR MUST GAIN APPROVAL OF THE RELEVANT SERVICE OWNER OR AUTHORITY FOR THE ADJUSTMENT AND/OR CONSTRUCTION OF TEMPORARY SERVICES.
U4. ANY AND ALL DAMAGE TO EXISTING SERVICES AS RESULT OF THESE WORKS MUST BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE RELEVANT SERVICE OWNER OR AUTHORITY.

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: NTS

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

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DESIGNED JOHN O'TOOLE 07/11/25
DRG CHECK BARRIE EVANS 07/11/25
DESIGN CHECK DMITRY SHIROKOV 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV 07/11/25
APPROVED ROCHELLE HICKS 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
GENERAL
NOTES

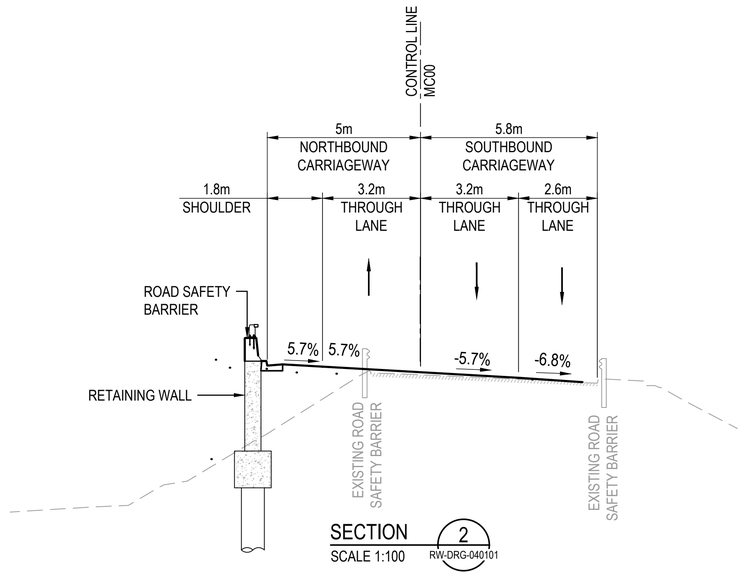
DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-GN-DRG-000011	B			

FILE NAME: TOON-TURN-NWW-GN-DRG-000011.dwg
PLOT DATE & TIME: 07/11/2025 16:56:03

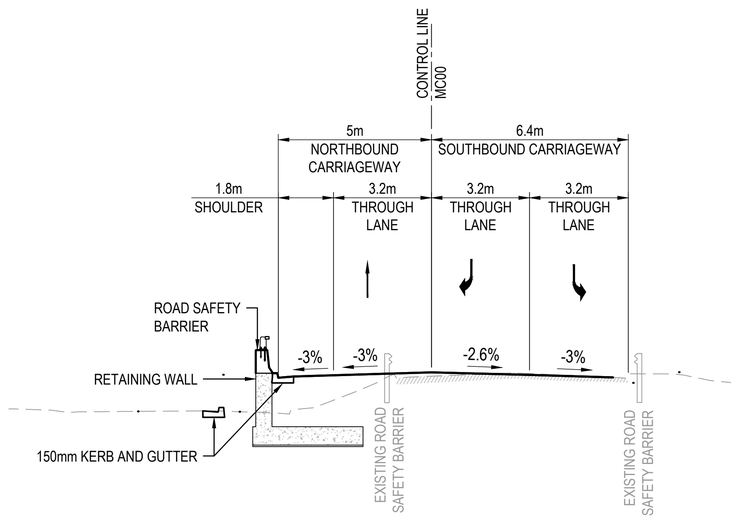
LEGEND

- PROJECT BOUNDARY
- DESIGN SURFACE
- EXISTING SURFACE
- EXISTING PAVEMENT



SECTION 2 RW-DRG-040101
SCALE 1:100

MC00 AT CH 110



SECTION 1 RW-DRG-040101
SCALE 1:100

MC00 AT CH 40

NOTES

1. FOR GENERAL NOTES REFER TO DRG No. GN-DRG-000011.

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:100

0 1 2 3 4 5
SCALE 1:100m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
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ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

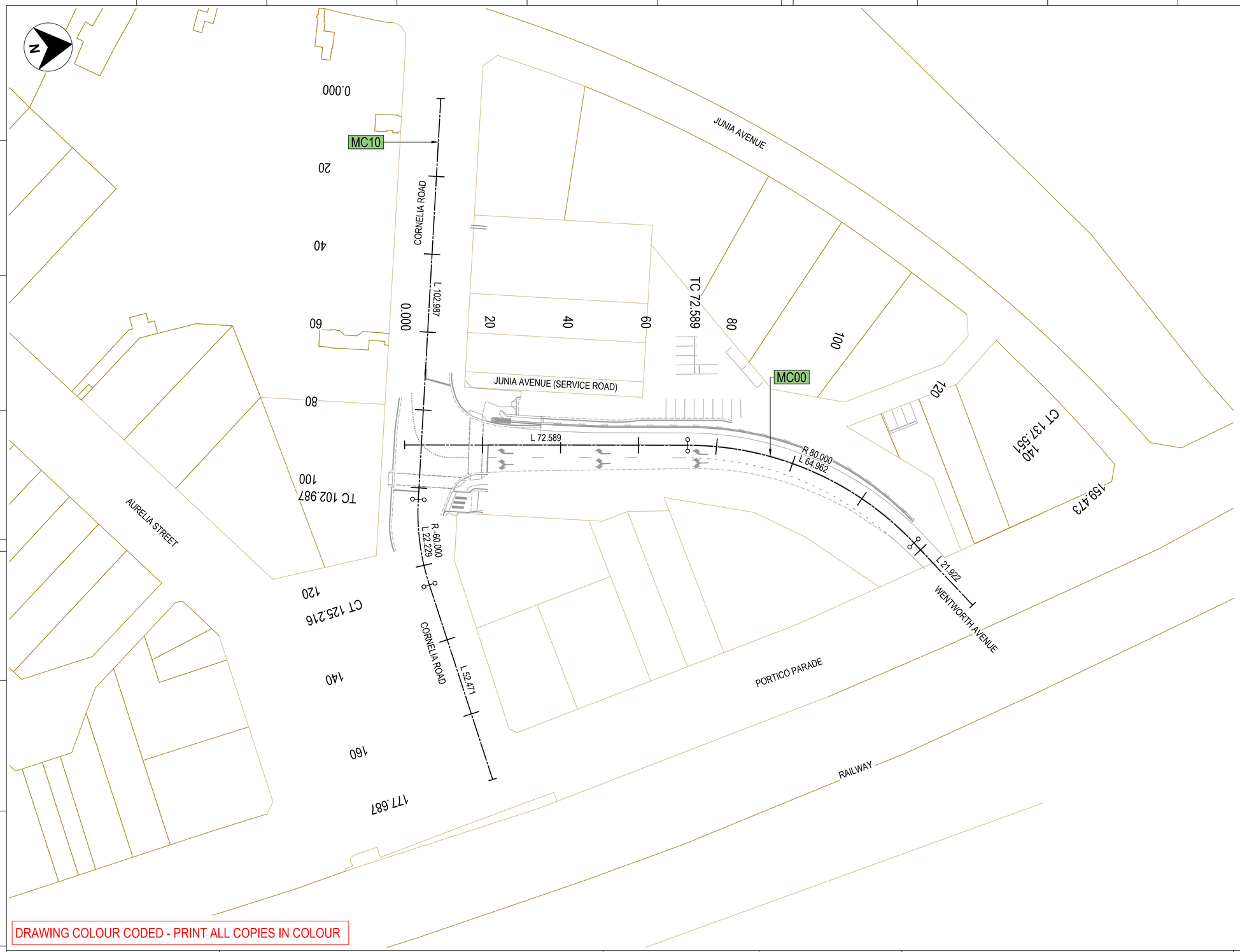
CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
TYPICAL SECTIONS

DRAWING SET No:	PART:	SHEET: 1 OF 1	A1
STATUS: 80% DETAILED DESIGN	BRIDGE No:		©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-RW-DRG-040001	B			

FILE NAME: TOON-TURN-NWW-RW-DRG-040001.dwg

PLOT DATE & TIME: 07/11/2025 16:56:06



LEGEND

GENERAL

- CADASTRAL BOUNDARY
- ROAD DESIGN

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE (50)
- MCXX CONTROL LINE LABEL

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

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FILE NAME: TOON-TURN-NWW-RW-DRG-040051.dwg

PLOT DATE & TIME: 07/11/2025 16:56:11

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:500

0 5 10 15 20 25
SCALE 1:500m

DESIGN LOT CODE:

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16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
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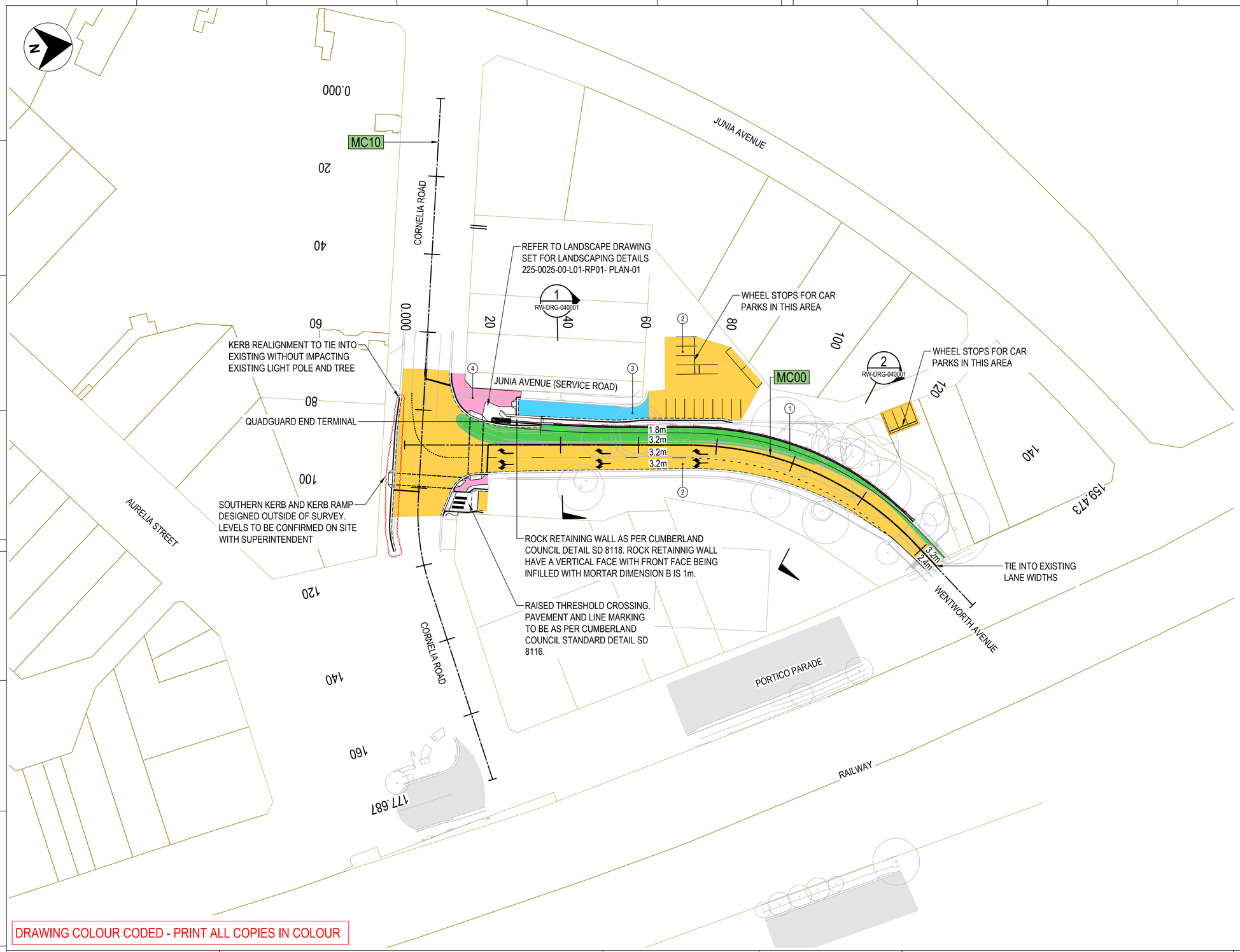
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
ALIGNMENT PLAN

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©
DRG No. TOON-TURN-NWW-RW-DRG-040051 | REV B | VER | EDMS No. | AMD No.



LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- ROAD DESIGN
- RW — RETAINING WALL
- STEEL RAIL SAFETY BARRIER
- WHEEL STOPS
- AREA OUTSIDE OF SURVEY

ROAD GEOMETRY

- 50 — CONTROL LINE AND CHAINAGE
- MCXX — CONTROL LINE LABEL

PAVEMENTS

- TYPE 1
- TYPE 2
- TYPE 3
- TYPE 4
- (1) PAVEMENT TYPE LABEL (REFER DRG No. RW-DRG-040401)

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

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FILE NAME: TOON-TURN-NWW-RW-DRG-040101.dwg

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:500

0 5 10 15 20 25
SCALE 1:500m

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CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
GENERAL ARRANGEMENT PLAN

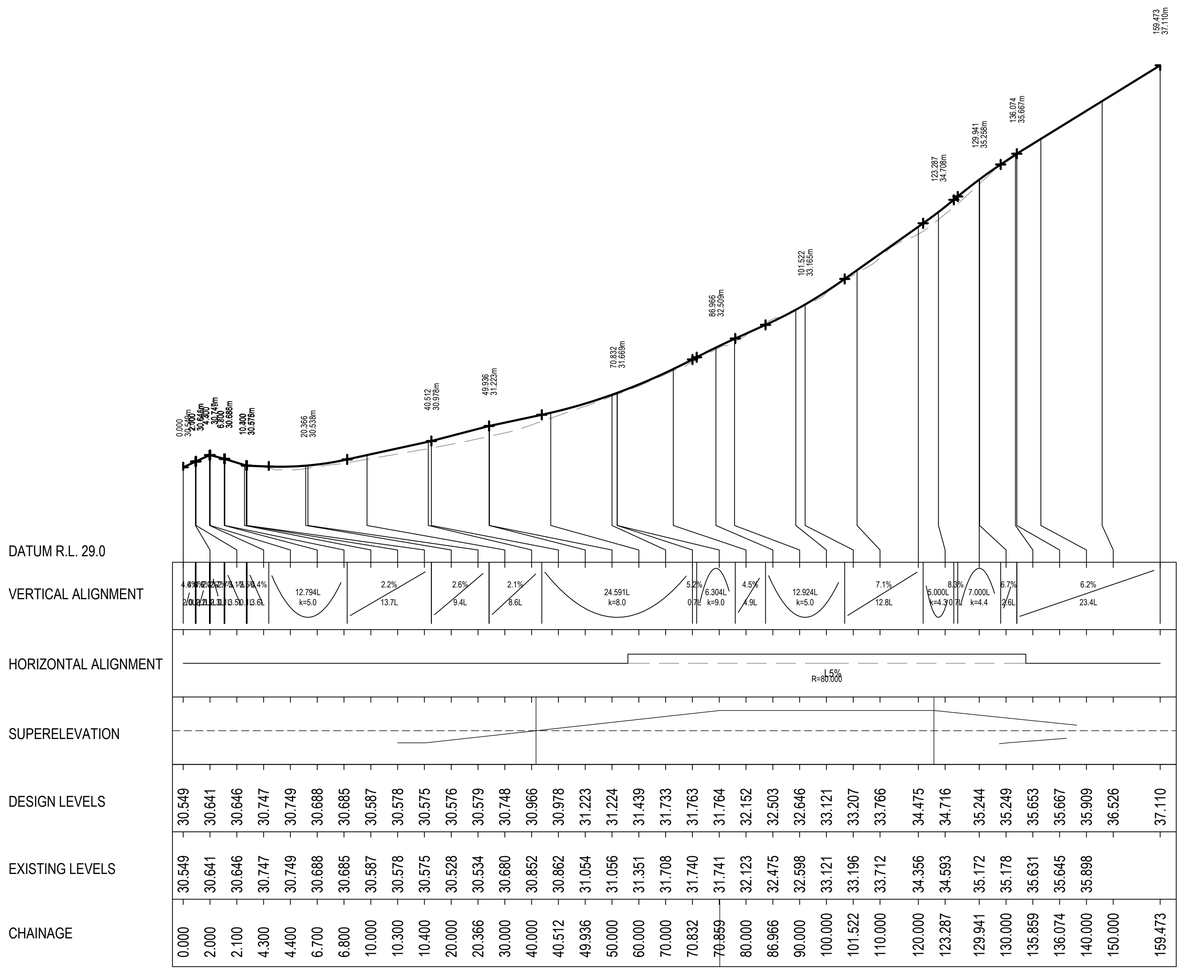
DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-RW-DRG-040101	C			

LEGEND

EXISTING SURFACE

DESIGN SURFACE



LONGITUDINAL SECTION ALONG - MC00

HORIZONTAL 1:500
VERTICAL 1:50

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: H 1:100 V 1:50

HORIZ. 1:500m 0 5 10 15 20 25
VERT. 1:50m 0 0.5 1.0 1.5 2.0 2.5

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LOCAL ROAD NETWORK ENHANCEMENTS
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SITE 4
LONGITUDINAL SECTION - MC00

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©
DRG No. TOON-TURN-NWW-RW-DRG-040201 | REV B | VER | EDMS No. | AMD No.

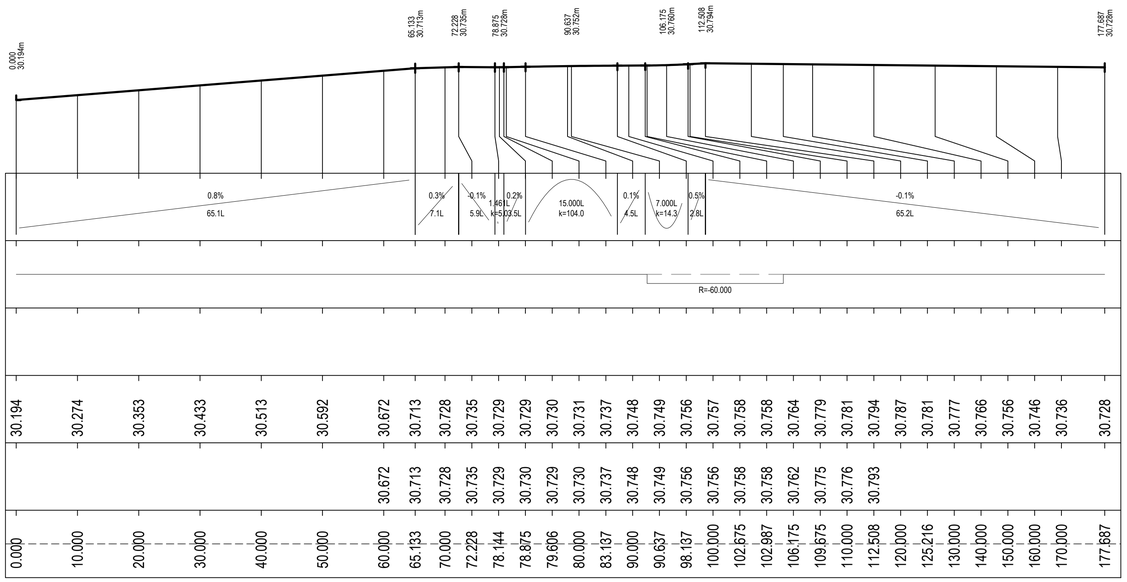
FILE NAME: TOON-TURN-NWW-RW-DRG-040201.dwg

PLOT DATE & TIME: 07/11/2025 16:56:20

LEGEND

EXISTING SURFACE

DESIGN SURFACE



DATUM R.L. 29.0

VERTICAL ALIGNMENT

HORIZONTAL ALIGNMENT

SUPERELEVATION

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS
0.000	30.194	
10.000	30.274	
20.000	30.353	
30.000	30.433	
40.000	30.513	
50.000	30.592	
60.000	30.672	30.672
65.133	30.713	30.713
70.000	30.728	30.728
72.228	30.735	30.735
78.144	30.729	30.729
78.875	30.729	30.730
79.606	30.730	30.729
80.000	30.731	30.730
83.137	30.737	30.737
90.000	30.748	30.748
90.637	30.749	30.749
98.137	30.756	30.756
100.000	30.757	30.756
102.675	30.758	30.758
102.987	30.758	30.758
106.175	30.764	30.762
109.675	30.779	30.775
110.000	30.781	30.776
112.508	30.794	30.793
120.000	30.787	
125.216	30.781	
130.000	30.777	
140.000	30.766	
150.000	30.756	
160.000	30.746	
170.000	30.736	
177.687	30.728	

LONGITUDINAL SECTION ALONG - MC10

HORIZONTAL 1:500
VERTICAL 1:50

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: H 1:100 V 1:50

HORIZ. 1:500m 0 5 10 15 20 25
VERT. 1:50m 0 0.5 1.0 1.5 2.0 2.5

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
LONGITUDINAL SECTION - MC10

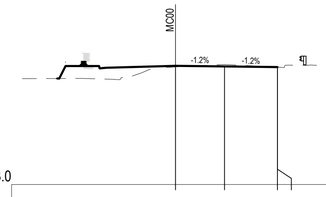
DRAWING SET No: PART: SHEET: 1 OF 1 A1
STATUS: 80% DETAILED DESIGN BRIDGE No: ©
DRG No. TOON-TURN-NWW-RW-DRG-040211 REV B VER EDMS No. AMD No.

FILE NAME: TOON-TURN-NWW-RW-DRG-040211.dwg
PLOT DATE & TIME: 07/11/2025 16:56:25

LEGEND

EXISTING SURFACE

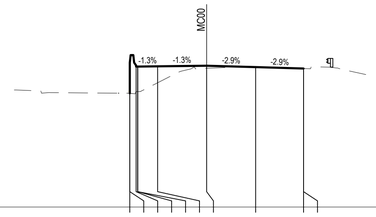
DESIGN SURFACE



DATUM 23.0

	LD00	L30I	CE0I
CUT STRINGS			
DESIGN LEVELS	30.748	30.709	30.667 30.667
EXISTING LEVELS	30.68	30.834	30.664 30.664
DESIGN OFFSETS	0.000	3.200	6.658 6.659

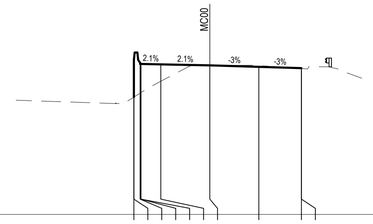
CH 30



DATUM 22.0

	WB01 WT00 CE01	LE00 LD00	L30I	CE0I
CUT STRINGS				
DESIGN LEVELS	29.419 31.426 31.166 31.167 31.167 31.164 31.224		31.132	31.042 31.042
EXISTING LEVELS	29.419 29.419 29.536 29.535 29.535 30.11 31.056		31.17	31.039 31.039
DESIGN OFFSETS	-5.017 -5.017 -4.609 -4.501 -4.500 -3.200 0.000		3.200	6.327 6.328

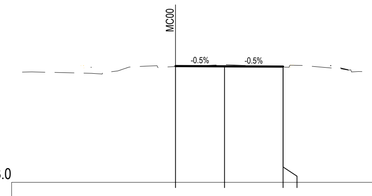
CH 50



DATUM 22.0

	WB01 WT00 CE00	LE00 LD00	L30I	CE0I
CUT STRINGS				
DESIGN LEVELS	29.662 32.085 31.825 31.826 31.826 31.799 31.733		31.637	31.554 31.554
EXISTING LEVELS	29.662 29.662 29.92 29.952 29.953 30.695 31.708		31.719	31.528 31.528
DESIGN OFFSETS	-4.959 -4.959 -4.551 -4.501 -4.500 -3.200 0.000		3.200	5.980 5.981

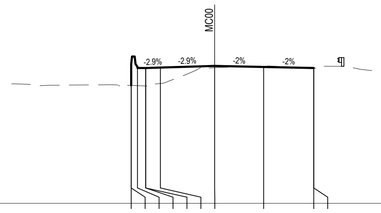
CH 70



DATUM 23.0

	LD00	L30I	CE0I
CUT STRINGS			
DESIGN LEVELS	30.589	30.574	30.555 30.555
EXISTING LEVELS	30.553	30.685	30.518 30.518
DESIGN OFFSETS	0.000	3.200	7.024 7.025

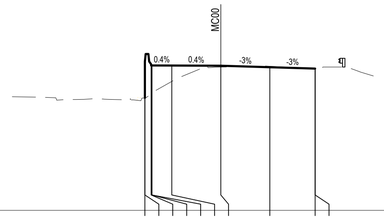
CH 21



DATUM 22.0

	WB01 WT00 CE01	LE00 LD00	L30I	CE0I
CUT STRINGS				
DESIGN LEVELS	29.696 31.093 30.833 30.834 30.835 30.863 30.966		30.901	30.834 30.834
EXISTING LEVELS	29.696 29.696 29.682 29.66 29.66 29.821 30.852		30.98	30.83 30.83
DESIGN OFFSETS	-5.449 -5.448 -5.040 -4.501 -4.500 -3.543 0.000		3.200	6.470 6.471

CH 40



DATUM 22.0

	WB01 WT00 CE00	LE00 LD00	L30I	CE0I
CUT STRINGS				
DESIGN LEVELS	29.338 31.715 31.455 31.457 31.457 31.452 31.439		31.343	31.254 31.254
EXISTING LEVELS	29.338 29.339 29.612 29.653 29.654 30.414 31.351		31.405	31.25 31.25
DESIGN OFFSETS	-4.959 -4.959 -4.551 -4.501 -4.500 -3.200 0.000		3.200	6.156 6.157

CH 60

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FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:200

0 2 4 6 8 10
SCALE 1:200m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL

TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
CROSS SECTIONS - MC00

DRAWING SET No: | PART: | SHEET: 1 OF 3 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-RW-DRG-040301 | REV B | VER | EDMS No. | AMD No.

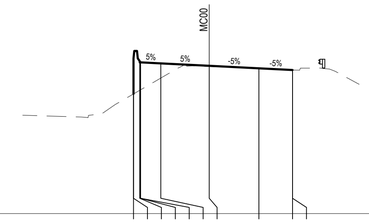
FILE NAME: TOON-TURN-NWW-RW-DRG-040301.dwg

PLOT DATE & TIME: 07/11/2025 16:56:29

LEGEND

EXISTING SURFACE

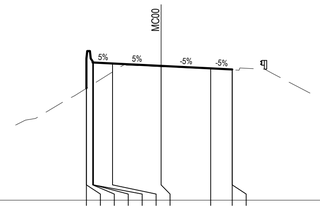
DESIGN SURFACE



DATUM 23.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	30.810	33.129	32.869	32.870	32.804	32.484	32.374
	30.810	33.129	32.869	32.870	32.804	32.646	32.374
EXISTING LEVELS	30.81	30.81	31.047	31.076	31.077	32.46	32.368
	30.81	30.81	31.047	31.076	31.077	32.598	32.368
DESIGN OFFSETS	-4.948	-4.948	-4.540	-4.490	-4.489	3.240	5.436
	-4.948	-4.948	-4.540	-4.490	-3.163	0.000	5.437

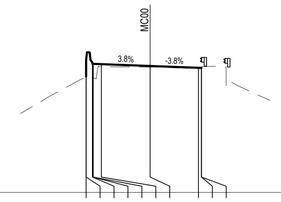
CH 90



DATUM 25.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	32.301	34.245	33.985	33.987	33.987	33.604	33.534
	32.301	34.245	33.985	33.987	33.987	33.925	33.534
EXISTING LEVELS	32.301	32.301	32.558	32.589	32.59	33.566	33.503
	32.301	32.301	32.558	32.589	32.59	33.712	33.503
DESIGN OFFSETS	-4.876	-4.876	-4.468	-4.418	-4.417	3.240	4.644
	-4.876	-4.876	-4.468	-4.418	-3.169	0.000	4.645

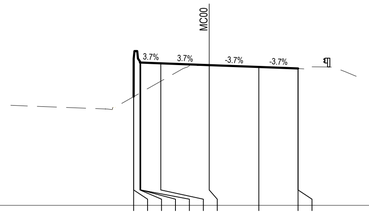
CH 110



DATUM 27.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	34.555	35.650	35.390	35.391	35.371	35.130	35.123
	34.555	35.650	35.390	35.391	35.249	35.123	35.123
EXISTING LEVELS	34.555	34.555	34.508	34.488	34.487	35.083	35.205
	34.555	34.555	34.508	34.488	35.208	35.205	35.205
DESIGN OFFSETS	-4.176	-4.176	-3.768	-3.719	-3.717	3.152	3.354
	-4.176	-4.176	-3.768	-3.719	-3.183	0.000	3.355

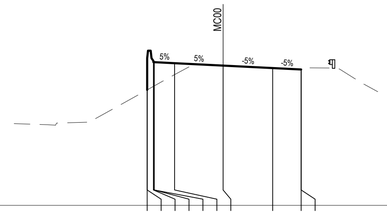
CH 130



DATUM 23.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	30.094	32.578	32.318	32.319	32.319	32.031	31.936
	30.094	32.578	32.318	32.319	32.270	32.152	31.936
EXISTING LEVELS	30.094	30.094	30.326	30.355	30.355	32.01	31.927
	30.094	30.094	30.326	30.355	31.102	32.123	31.927
DESIGN OFFSETS	-4.936	-4.936	-4.528	-4.478	-4.477	3.237	5.796
	-4.936	-4.936	-4.528	-4.478	-3.163	0.000	5.797

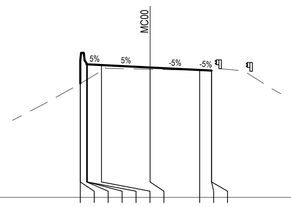
CH 80



DATUM 24.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	31.534	33.604	33.344	33.346	33.346	32.959	32.866
	31.534	33.604	33.344	33.346	33.279	33.121	32.866
EXISTING LEVELS	31.534	31.534	31.765	31.793	31.794	32.944	32.841
	31.534	31.534	31.765	31.793	32.531	33.121	32.841
DESIGN OFFSETS	-4.956	-4.956	-4.548	-4.498	-4.497	3.241	5.097
	-4.956	-4.956	-4.548	-4.498	-3.165	0.000	5.098

CH 100



DATUM 26.0

	WB01	WT00	CE00	LE00	LD00	LA0I	CE0I
CUT STRINGS							
DESIGN LEVELS	33.422	34.939	34.679	34.680	34.680	34.634	34.475
	33.422	34.939	34.679	34.680	34.680	34.475	34.275
EXISTING LEVELS	33.422	33.422	33.668	33.698	33.699	34.256	34.356
	33.422	33.422	33.668	33.698	33.699	34.356	34.277
DESIGN OFFSETS	-4.559	-4.559	-4.150	-4.100	-4.099	3.236	4.013
	-4.559	-4.559	-4.150	-4.100	-3.175	0.000	4.014

CH 120

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:200

0 2 4 6 8 10
SCALE 1:200m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
CROSS SECTIONS - MC00

DRAWING SET No: | PART: | SHEET: 2 OF 3 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-RW-DRG-040302 | REV B | VER | EDMS No. | AMD No.

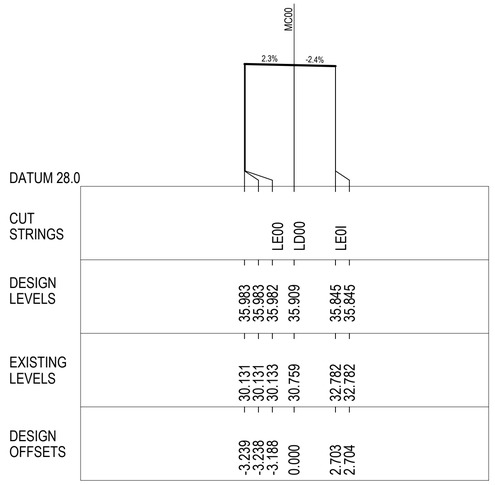
FILE NAME: TOON-TURN-NWW-RW-DRG-040302.dwg

PLOT DATE & TIME: 07/11/2025 16:56:34

LEGEND

EXISTING SURFACE

DESIGN SURFACE



CH 140

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:200

0 2 4 6 8 10
SCALE 1:200m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL

TOONGABBIE BRIDGE

LOCAL ROAD NETWORK ENHANCEMENTS

CIVIL WORKS

SITE 4

CROSS SECTIONS - MC00

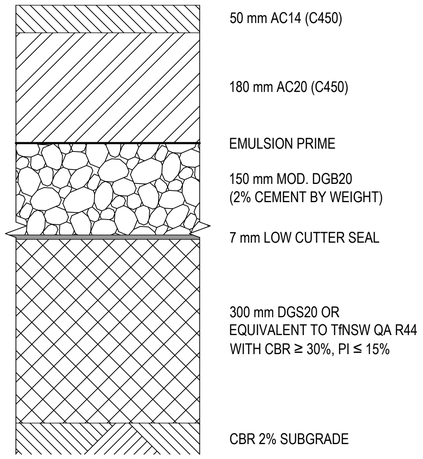
DRAWING SET No: | PART: | SHEET: 3 OF 3 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

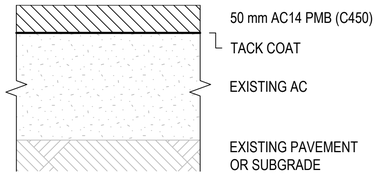
DRG No. TOON-TURN-NWW-RW-DRG-040303 | REV B | VER | EDMS No. | AMD No.

FILE NAME: TOON-TURN-NWW-RW-DRG-040303.dwg

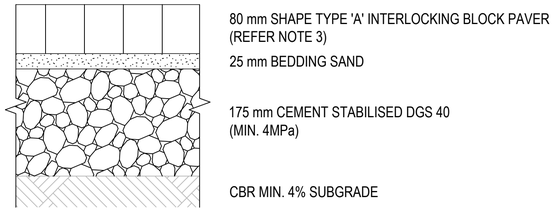
PLOT DATE & TIME: 07/11/2025 16:56:38



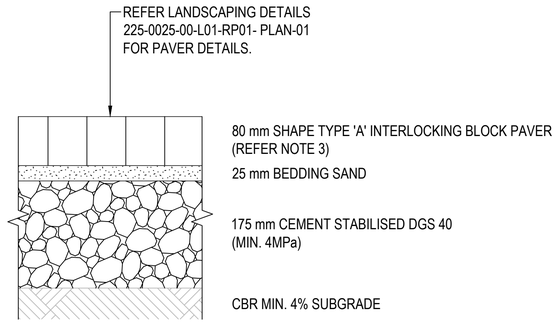
PAVEMENT TYPE 1
WENTWORTH WIDENING



PAVEMENT TYPE 2
MILL AND RESHEET



PAVEMENT TYPE 3
BLOCK PAVERS



PAVEMENT TYPE 4
BLOCK PAVERS

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.
2. MILL EXISTING AC TO 45 mm DEPTH, TACK COAT AND RESHEET WITH AC14.
3. BLOCK PAVING MUST BE LAID IN HERRINGBONE PATTERN.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-RW-DRG-040401.dwg

PLOT DATE & TIME: 07/11/2025 16:56:43

REFERENCES:

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.

REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:5

0 0.05 0.1 0.15 0.2 0.25
SCALE 1:5m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

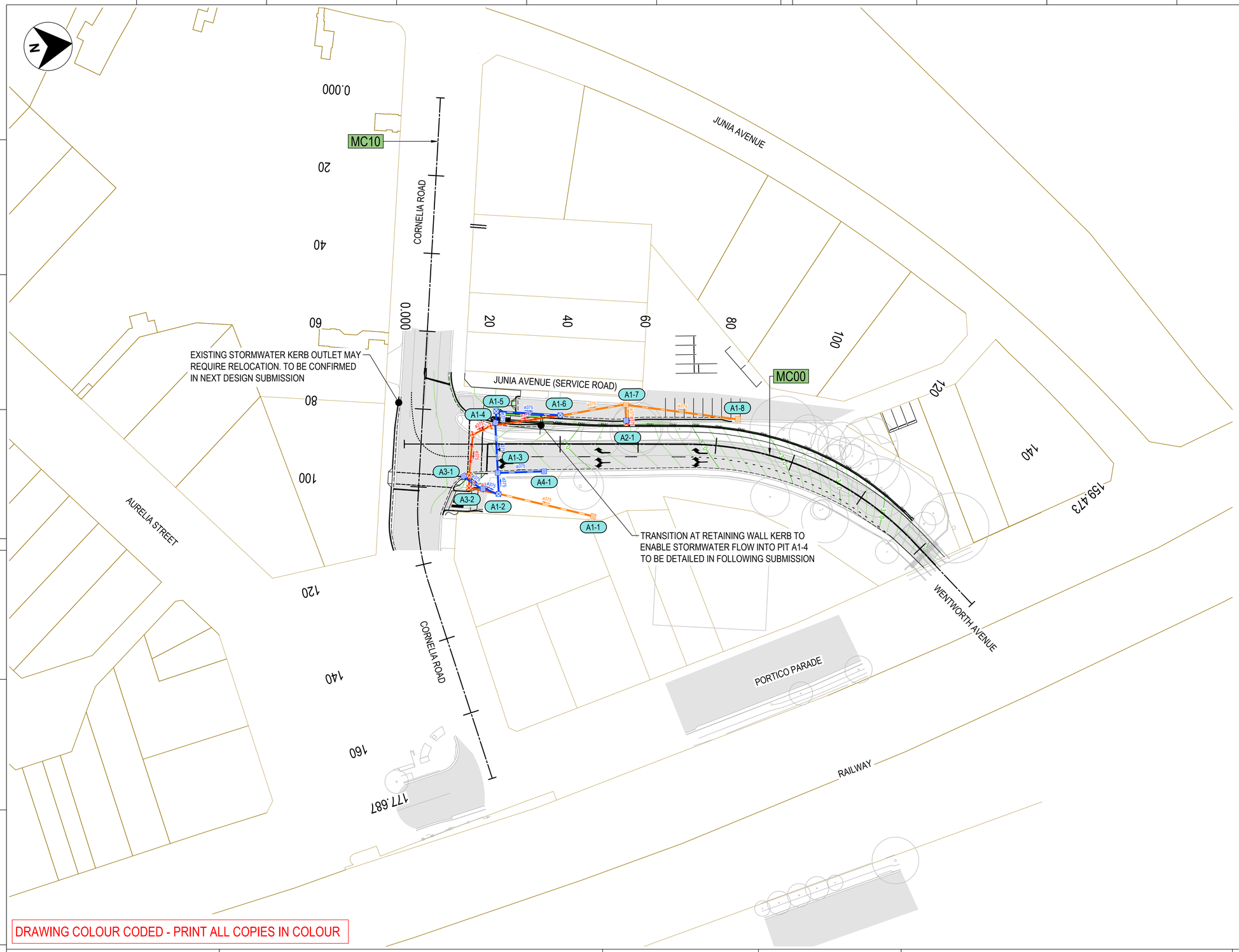
turnbull

DRAWN MOMOKA TAKAHASHI 07/11/25
DESIGNED JOHN O'TOOLE 07/11/25
DRG CHECK BARRIE EVANS 07/11/25
DESIGN CHECK DMITRY SHIROKOV 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV 07/11/25
APPROVED ROCHELLE HICKS 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 4
TYPICAL DETAILS

DRAWING SET No: PART: SHEET: 1 OF 1 A1
STATUS: 80% DETAILED DESIGN BRIDGE No: ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-RW-DRG-040401	B			



LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- ROAD DESIGN
- RW RW RW — RETAINING WALL
- STEEL RAIL SAFETY BARRIER
- EXISTING PAVEMENT

ROAD GEOMETRY

- 50 — CONTROL LINE AND CHAINAGE
- MCXX — CONTROL LINE LABEL

STORMWATER DRAINAGE

- ø375 — EXISTING STORMWATER DRAINAGE PIPE, PIT, SIZE AND FLOW
- ø375 — ABANDONED STORMWATER DRAINAGE PIPE, PIT, SIZE AND FLOW
- ø375 — PROPOSED STORMWATER DRAINAGE PIPE, PIT, SIZE AND FLOW
- LINE No. A1-1 PIT No. — STORMWATER DRAINAGE PIT TAG
- 51.0 — MAJOR CONTOUR (1.0m INCREMENT)
- MINOR CONTOUR (0.2m INCREMENT)

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-GRD-000011.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-SD-DRG-040101.dwg

PLOT DATE & TIME: 07/11/2025 16:57:25

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:500

0 5 10 15 20 25
SCALE 1:500m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

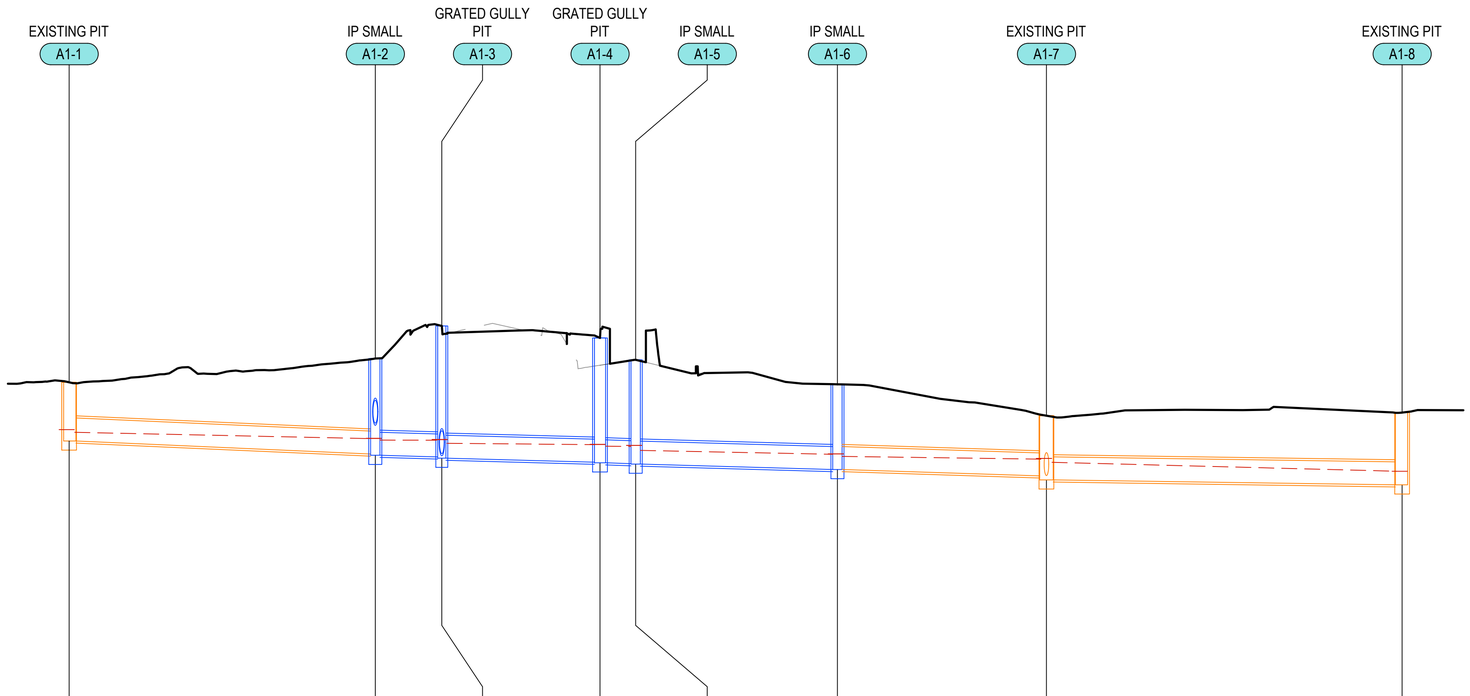
DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STORMWATER DRAINAGE
SITE 4
GENERAL ARRANGEMENT PLAN

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-SD-DRG-040101 | REV B | VER | EDMS No. | AMD No.



LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- HYDRAULIC GRADE LINE (HGL)
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINAGE PIPE
- A1-1 (LINE No. / PIT No.) STORMWATER DRAINAGE PIT TAG

5yr ARI VELOCITY (m/s)	0.35	0.45	0.73	0.78	0.78	0.77	0.83	
5yr ARI PIPE FLOW (L/s)	38.7	49.5	80.8	85.7	85.6	85.2	91.4	
PIPE GRADE %	0.9	0.5	0.5	0.5	0.5	0.6	0.3	
PIPE SLOPE 1 in X	117.1	198	198	194	185.2	164.7	358.4	
PIPE SIZE (mm)	ø375	ø375	ø375	ø375	ø375	ø375	ø375	
PIPE TYPE	EXISTING RCP	RCP CLASS 4	RCP CLASS 4	RCP CLASS 4	RCP CLASS 4	EXISTING RCP	EXISTING RCP	
MIN COVER (m)	0.531	1.172	1.473	1.21	0.978	0.592	0.608	
DATUM	20							
5yr ARI H.G.L. LEVEL	28.951 28.848	28.825 28.822	28.772 28.75	28.725 28.72	28.656 28.592	28.558 28.514	28.462	28.316
DEPTH TO INVERT	0.957 1.559	1.579 2.138	2.158 2.027	2.037 1.696	1.702 1.391	1.391 0.982	1.047 1.179	1.179
INVERT LEVEL	28.81 28.597	28.577 28.549	28.529 28.464	28.454 28.439	28.433 28.344	28.344 28.24	28.175 28.094	28.094
DESIGN SURFACE LEVEL	29.767	30.156	30.687	30.491	30.135	29.735	29.222	29.273
EXISTING SURFACE LEVEL	29.767	30.156	30.687	30.046	30.135	29.735	29.222	29.273
CHAINAGE	-55.224 L=24.988m	-30.236 L=5.429m	-24.807 L=12.91m	-11.893 L=2.91m	-8.983 L=16.465m	7.482 L=17.06m	24.542 L=29.03m	53.572

LINE A1

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

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A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: H 1:250 V 1:50

HORIZ. 1:250m 0 2.5 5.0 7.5 10.0 12.5
0 0.5 1.0 1.5 2.0 2.5
VERT. 1:50m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

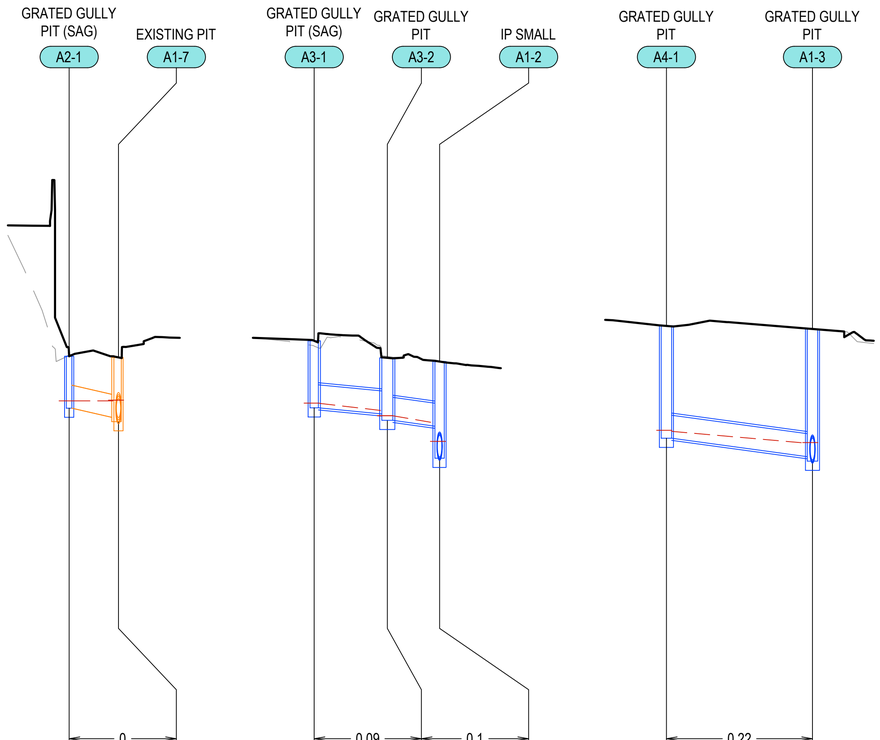
CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STORMWATER DRAINAGE
SITE 4
PROFILES

DRAWING SET No: | PART: | SHEET: 1 OF 2 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©
DRG No. TOON-TURN-NWW-SD-DRG-040201 | REV B | VER | EDMS No. | AMD No.

FILE NAME: TOON-TURN-NWW-SD-DRG-040201.dwg
PLOT DATE & TIME: 07/11/2025 16:57:29

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- HYDRAULIC GRADE LINE (HGL)
- EXISTING STORMWATER DRAINAGE PIPE
- PROPOSED STORMWATER DRAINAGE PIPE
- A1-1 (LINE No. / PIT No.) STORMWATER DRAINAGE PIT TAG



	LINE A2			LINE A3				LINE A4		
5yr ARI VELOCITY (m/s)	0			0.09	0.1			0.22		
5yr ARI PIPE FLOW (L/s)	0			10.4	11.1			24.5		
PIPE GRADE %	3.7			1.7	2.2			2.5		
PIPE SLOPE 1 in X	27			59.7	44.5			39.5		
PIPE SIZE (mm)	ø375			ø375	ø375			ø375		
PIPE TYPE	EXISTING PVC			RCP CLASS 4	RCP CLASS 4			RCP CLASS 4		
MIN COVER (m)	0.491			0.512	0.602			1.416		
DATUM	19			20				20		
5yr ARI H.G.L. LEVEL	28.514		28.514	29.472		29.355	29.27		29.153	28.462	28.825	29.016		28.822	28.772
DEPTH TO INVERT	0.847		0.977	1.094		0.916	1.02		1.056	1.047	1.579	1.833		2.084	2.158
INVERT LEVEL	28.394		28.245	29.4		29.3	29.196		29.1	28.175	28.577	28.904		28.603	28.529
DESIGN SURFACE LEVEL	29.241		29.222	30.494			30.216			29.222	30.156	30.737			30.687
EXISTING SURFACE LEVEL	29.264		29.222	30.407			30.238			30.156	30.737				30.687
CHAINAGE	0	L=4.028m	4.028	0	L=5.974m	5.974		L=4.26m		10.235	0	L=11.919m			11.919

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

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A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: H 1:250 V 1:50

HORIZ. 1:250m 0 2.5 5.0 7.5 10.0 12.5 / 0 0.5 1.0 1.5 2.0 2.5

VERT. 1:50m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
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turnbull

DRAWN MOMOKA TAKAHASHI 07/11/25
DESIGNED JOHN O'TOOLE 07/11/25
DRG CHECK BARRIE EVANS 07/11/25
DESIGN CHECK DMITRY SHIROKOV 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV 07/11/25
APPROVED ROCHELLE HICKS 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STORMWATER DRAINAGE
SITE 4
PROFILES

DRAWING SET No: PART: SHEET: 2 OF 2 A1
STATUS: 80% DETAILED DESIGN BRIDGE No: ©
DRG No. TOON-TURN-NWW-SD-DRG-040202 REV B VER EDMS No. AMD No.

FILE NAME: TOON-TURN-NWW-SD-DRG-040202.dwg
PLOT DATE & TIME: 07/11/2025 16:57:33

PIT AND PIPE SCHEDULE

PIT		COORDINATES			PIPE							DRAWING REFERENCE	PIT NOTES
NAME	TYPE	EASTING	NORTHING	SETOUT RL	TYPE	DIA (mm)	LENGTH (m)	U/S INVERT RL	D/S INVERT RL	GRADE (%)	D/S PIT NAME		
A1-2	IP SMALL	310228.052	6259558.357	30.156	RCP CLASS 4	375	5.429	28.577	28.549	0.510	A1-3	TfNSW R0220-35	INTERCEPT EXISTING DN375 RCP WITH INSPECTION MANHOLE TOPOGRAPHIC SURVEY REQUIRED TO CONFIRM PIT SETOUT RL
A1-3	GRATED GULLY PIT	310222.187	6259558.866	30.575	RCP CLASS 4	375	12.910	28.529	28.464	0.510	A1-4	CCC SD 8010	CCC GRATED GULLY PIT WITH 1.8m LINTEL LENGTH
A1-4	GRATED GULLY PIT	310210.214	6259559.716	30.531	RCP CLASS 4	375	2.910	28.454	28.439	0.520	A1-5	SD 8010	CCC GRATED GULLY PIT WITH 1.8m LINTEL LENGTH
A1-5	IP SMALL	310206.932	6259560.407	30.135	RCP CLASS 4	375	16.465	28.433	28.344	0.540	A1-6	TfNSW R0220-35	
A1-6	IP SMALL	310210.264	6259576.538	29.738	EXISTING RCP	375	17.060	28.344	28.240	0.610	A1-7	TfNSW R0220-35	INTERCEPT EXISTING DN375 RCP WITH INSPECTION MANHOLE BEHIND RETAINING WALL
A2-1	GRATED GULLY PIT (SAG)	310212.930	6259593.213	29.281	EXISTING PVC	375	4.028	28.394	28.245	3.710	A1-7	SD 8010	INTERCEPT EXISTING DN375 PVC UNDER RETAINING WALL WITH CCC GRATED GULLY PIT WITH 1.8m LINTEL LENGTH
A3-1	GRATED GULLY PIT (SAG)	310222.259	6259550.034	30.507	RCP CLASS 4	375	5.974	29.400	29.300	1.670	A3-2	SD 8010	CCC GRATED GULLY PIT WITH 0.9m LINTEL LENGTH
A3-2	GRATED GULLY PIT	310226.616	6259554.491	30.254	RCP CLASS 4	375	4.260	29.196	29.100	2.250	A1-2	SD 8010	CCC GRATED GULLY PIT WITH 0.9m LINTEL LENGTH
A4-1	GRATED GULLY PIT	310223.301	6259570.745	30.766	RCP CLASS 4	375	11.919	28.904	28.603	2.530	A1-3	CCC SD 8010	CCC GRATED GULLY PIT WITH 1.8m LINTEL LENGTH

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: NTS

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

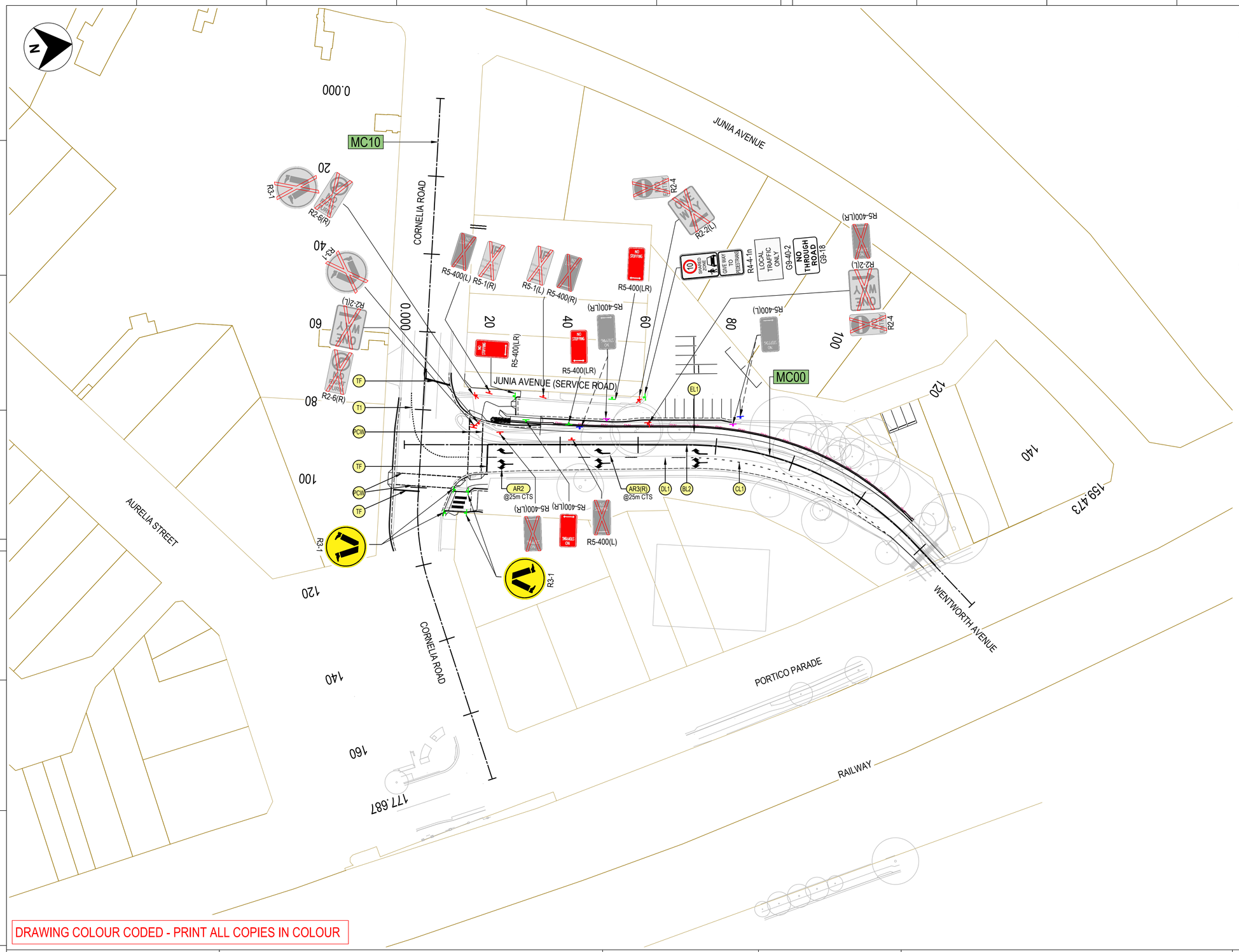
DRAWN MOMOKA TAKAHASHI 07/11/25
DESIGNED JOHN O'TOOLE 07/11/25
DRG CHECK BARRIE EVANS 07/11/25
DESIGN CHECK DMITRY SHIROKOV 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV 07/11/25
APPROVED ROCHELLE HICKS 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STORMWATER DRAINAGE
SITE 4
PIT AND PIPE SCHEDULE

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-SD-DRG-040401 | REV B | VER | EDMS No. | AMD No.

FILE NAME: TOON-TURN-NWW-SD-DRG-040401.dwg
PLOT DATE & TIME: 07/11/2025 16:57:36



LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- ROAD DESIGN
- RETAINING WALL
- STEEL RAIL SAFETY BARRIER

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE
- MCXX — CONTROL LINE LABEL

LINEMARKING TAGS

- DL1 — LINEMARKING TAG
- AR3(L) — LINEMARKING ARROW OR SYMBOL TAG

SIGNAGE

- R5-400(R) — EXISTING SIGN POST AND FACE TO BE REMOVED
- FROM / TO — R5-400(L) — RELOCATED EXISTING SIGN FACE ON NEW SIGN POST
- LEFT LANE MUST TURN LEFT — R2-9(L) — NEW SIGN POST AND FACE

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

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REFERENCES:

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COORDINATE SYSTEM: GDA2020MGA56 — GDA2020

HEIGHT DATUM: AHD

SCALE: H 1:100 V 1:50

0 5 10 15 20 25
SCALE 1:500m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
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turnbull

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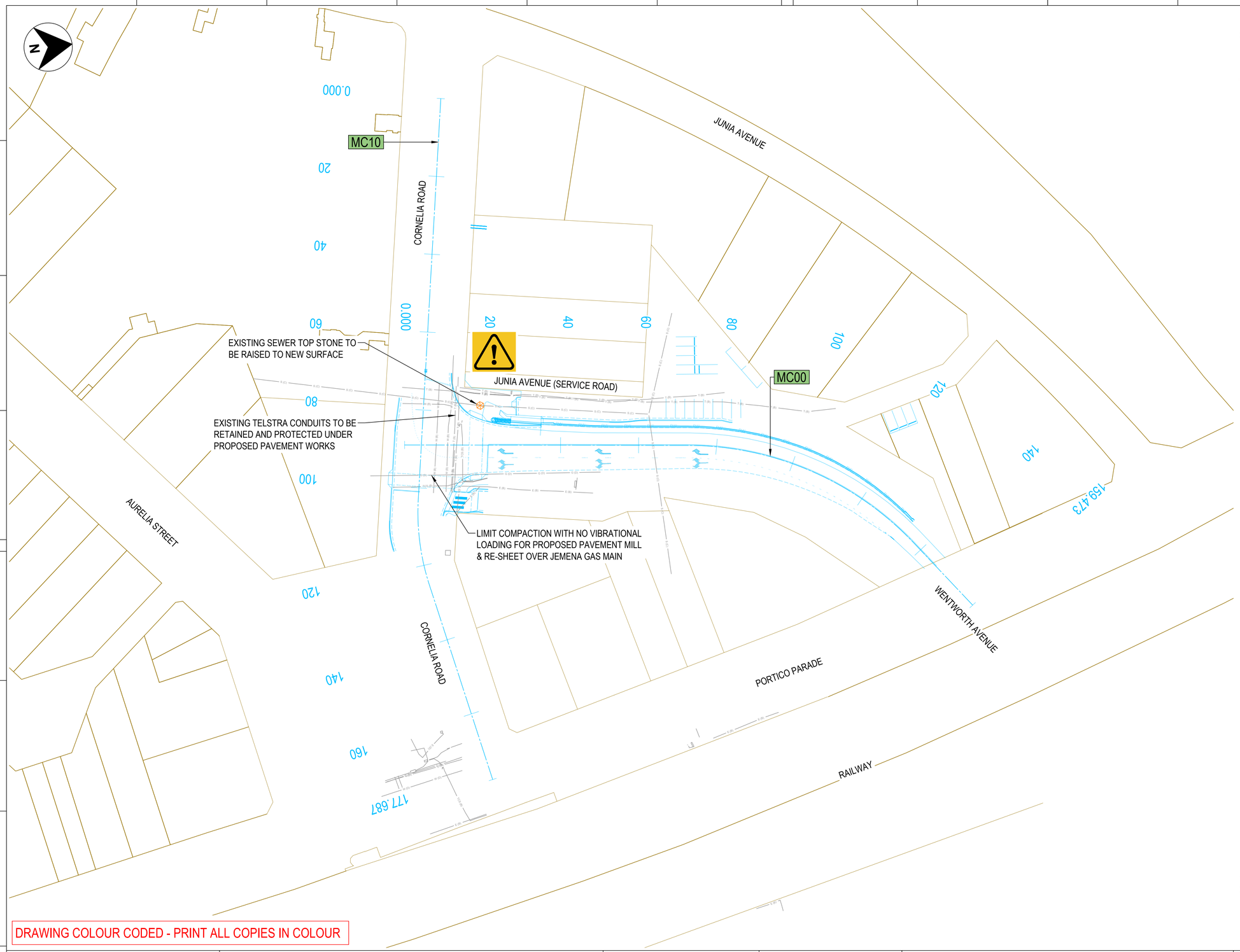
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
GUIDANCE AND DELINEATION
SITE 4
SIGNPOSTING AND LINEMARKING PLAN

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-GD-DRG-040101	B			

FILE NAME: TOON-TURN-NWW-GD-DRG-040101.dwg
PLOT DATE & TIME: 07/11/2025 16:55:53



LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- PROJECT BOUNDARY
- ROAD DESIGN

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE (50)
- MCXX — CONTROL LINE LABEL

UTILITIES

- PROPOSED SEWER MANHOLE ADJUSTMENT
- E(*) — EXISTING ELECTRICAL
- G(*) — EXISTING GAS
- S(*) — EXISTING SEWER
- TCS(*) — EXISTING TRAFFIC CONTROL SIGNALS
- T(*) — EXISTING TELSTRA
- C(*) — EXISTING TELECOMMUNICATIONS
- W(*) — EXISTING WATER MAIN
- WORKS ADJACENT TO EXISTING UTILITY CONDUITS CONTAINING ASBESTOS

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.
2. ASTERISK (*) ON EXISTING UTILITY DENOTES SURVEY QUALITY LEVEL AS PER SUBSURFACE UTILITY INFORMATION (SUI) AS 5488.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-UT-DRG-040101.dwg

PLOT DATE & TIME: 07/11/2025 16:57:57

REFERENCES:

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COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:500

0 5 10 15 20 25
SCALE 1:500m

DESIGN LOT CODE:

CLIENT:

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PREPARED FOR:
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16 MEMORIAL AVENUE (PO BOX 42)
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turnbull

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DESIGNED	JOHN O'TOOLE	07/11/25
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PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

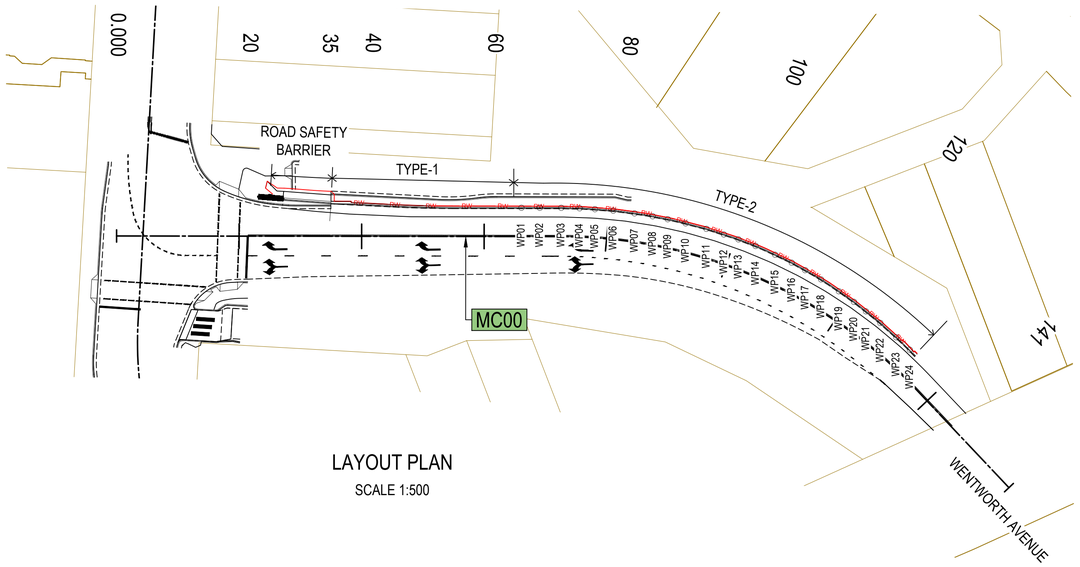
CUMBERLAND CITY COUNCIL

TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
UTILITIES

SITE 4

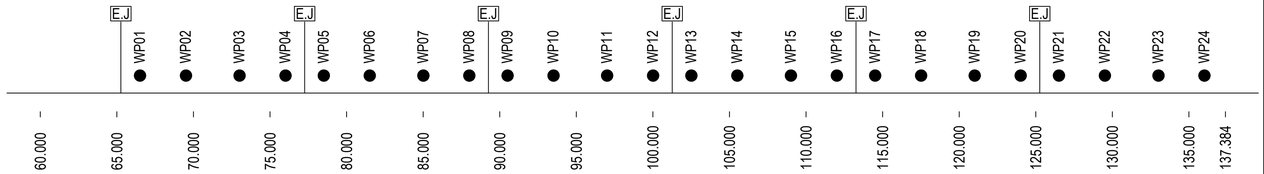
PLAN

DRAWING SET No:	PART:	SHEET: 1 OF 1	A1
STATUS: 80% DETAILED DESIGN	BRIDGE No:		©
DRG No. TOON-TURN-NWW-UT-DRG-040101	REV B	VER	EDMS No. / AMD No.



LAYOUT PLAN

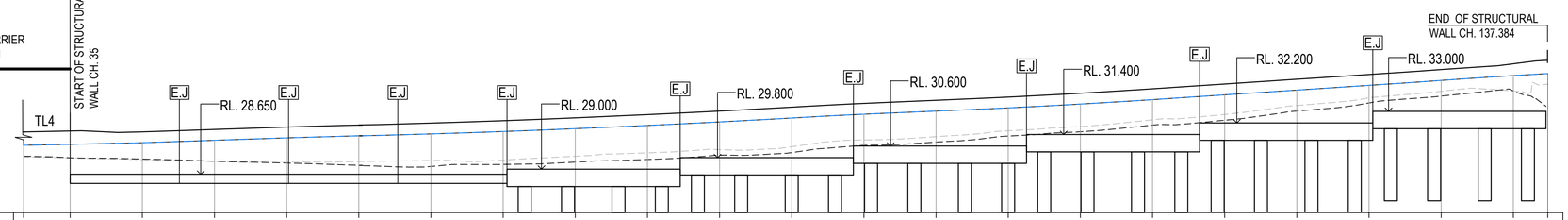
SCALE 1:500



PILE LAYOUT

RETAINING WALL PILE SETOUT SCHEDULE

PILE NO	EASTING	NORTHING	PILE DIA. (mm)	PILE TOE LEVEL. (mm)	PILE CUT OFF LEVEL. (mm)	MIN. PILE LENGTH (mm)	MIN. SOCKET LENGTH TO MW ROCK (mm)
WP01	E 310215.926	N 6259602.089	900	19.850	27.850	8000	2500
WP02	E 310216.301	N 6259605.065	900	19.850	27.850	8000	2500
WP03	E 310216.738	N 6259608.538	900	19.850	27.850	8000	2500
WP04	E 310217.179	N 6259611.505	900	19.850	27.850	8000	2500
WP05	E 310217.634	N 6259613.970	900	20.650	28.650	8000	2500
WP06	E 310218.233	N 6259616.912	900	20.650	28.650	8000	2500
WP07	E 310219.108	N 6259620.301	900	20.650	28.650	8000	2500
WP08	E 310219.941	N 6259623.179	900	20.650	28.650	8000	2500
WP09	E 310220.727	N 6259625.565	900	21.450	29.450	8000	2500
WP10	E 310221.757	N 6259628.378	900	21.450	29.450	8000	2500
WP11	E 310223.064	N 6259631.627	900	21.450	29.450	8000	2500
WP12	E 310224.327	N 6259634.349	900	21.450	29.450	8000	2500
WP13	E 310225.415	N 6259636.610	900	21.750	30.250	8500	1800
WP14	E 310226.830	N 6259639.257	900	21.750	30.250	8500	1800
WP15	E 310228.641	N 6259642.245	900	21.750	30.250	8500	1800
WP16	E 310230.267	N 6259644.770	900	21.750	30.250	8500	1800
WP17	E 310231.745	N 6259646.796	900	22.550	31.050	8500	1800
WP18	E 310233.561	N 6259649.185	900	22.550	31.050	8500	1800
WP19	E 310235.843	N 6259651.835	900	22.550	31.050	8500	1800
WP20	E 310237.860	N 6259654.059	900	22.550	31.050	8500	1800
WP21	E 310239.647	N 6259655.816	900	23.350	31.850	8500	1800
WP22	E 310241.806	N 6259657.903	900	23.350	31.850	8500	1800
WP23	E 310244.453	N 6259660.196	900	23.350	31.850	8500	1800
WP24	E 310246.734	N 6259662.145	900	23.350	31.850	8500	1800



DATUM R.L. 26.0

R.L TOP OF CONCRETE BARRIER PARAPET WALL R.L (CB00)		31.642	31.583	31.748	31.915	32.06	32.191	32.357	32.554	32.776	33.02	33.291	33.553	33.767	33.99	34.255	34.561	34.893	35.224	35.553	35.894	36.294	
R.L INSIDE CONCRETE BARRIER PARAPET AT ROAD SURFACE (CE00)	30.657	30.722	30.834	30.999	31.166	31.31	31.441	31.607	31.804	32.026	32.27	32.542	32.803	33.018	33.24	33.505	33.811	34.142	34.472	34.801	35.142	35.475	35.615
R.L INTERFACE AT TOE/ BASE OF RETAINING WALL (WB00)	29.928	29.789	29.705	29.556	29.427	29.255	29.19	29.33	29.491	29.674	29.966	30.15	30.65	30.877	31.292	31.586	32.052	32.388	33.022	33.583	34.057	34.408	
RETAINING WALL DEPTH (m) - (CE00 subtract WB00)	-0.81	-0.942	-1.173	-1.469	-1.631	-1.774	-1.836	-1.973	-1.908	-1.896	-1.917	-1.987	-1.781	-1.768	-1.586	-1.552	-1.395	-1.355	-1.066	-0.868	-0.752	-1.061	-0.726
R.L ROAD SURFACE DESIGN LEVELS (CE00)	30.657	30.722	30.834	30.999	31.166	31.310	31.441	31.607	31.804	32.026	32.270	32.542	32.803	33.018	33.240	33.505	33.811	34.142	34.472	34.801	35.142	35.475	35.615
EXISTING LEVELS (BELOW CE00)	29.847	29.780	29.661	29.530	29.536	29.536	29.605	29.633	29.896	30.130	30.353	30.555	31.022	31.249	31.654	31.954	32.416	32.787	33.406	33.933	34.390	34.413	34.889
CHAINAGE AT INSIDE OF CONCRETE BARRIER/ ROAD EDGE (CE00/ MC00)	31.771	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000	125.000	130.000	135.000	137.384

LONGITUDINAL SECTION - R.L INSIDE CONCRETE BARRIER PARAPET AT OUTER EDGE OF ROAD SURFACE - CE00

SCALE - HORIZONTAL 1:200, VERTICAL 1:200

GENERAL NOTES

1. LIVE LOAD SURCHARGE: 20kPa.
2. CONSTRUCTION SURCHARGE: 10kPa.
3. LATERAL COMPACTION PRESSURE ON BACK OF WALL: 12kPa.
4. EARTHQUAKE LOADING: AS4678 – 2002
5. HAZARD FACTOR (Z): 0.08
6. SITE FACTOR (S): 1.0
7. STRUCTURE CLASSIFICATION: C
8. EARTHQUAKE DESIGN CATEGORY: Cer
9. DIMENSIONS ARE IN MILLIMETRES.
10. CHAINAGES AND REDUCED LEVELS ARE IN METRES.
11. REDUCED LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
12. CO-ORDINATES ARE TO CIVIL DRAWING GENERAL NOTES SHEET No. GN-DRG-000011.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-ST-DRG-040101.dwg

PLOT DATE & TIME: 07/11/2025 17:07:32

REFERENCES:

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.

REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
A	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:500, 1:200

0 5 10 15 20 25 SCALE 1:500m

0 2 4 6 8 10 SCALE 1:200m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

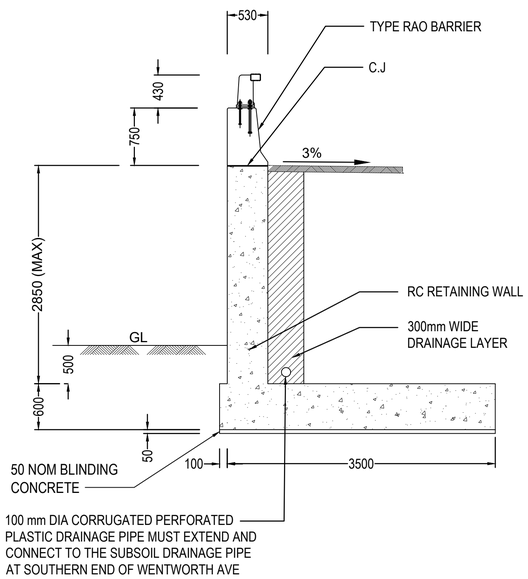
DRAWN	KELVIN HO	07/11/25
DESIGNED	MARCO LIANG	07/11/25
DRG CHECK	SAM THORNE	07/11/25
DESIGN CHECK	K. KAMAL	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STRUCTURAL
SITE 4
RETAINING WALL - GENERAL ARRANGEMENT

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1

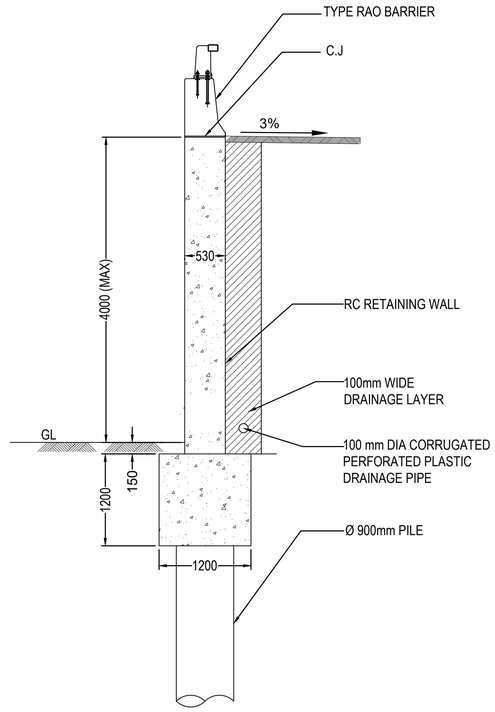
STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-ST-DRG-040101 | REV A | VER | EDMS No. | AMD No.



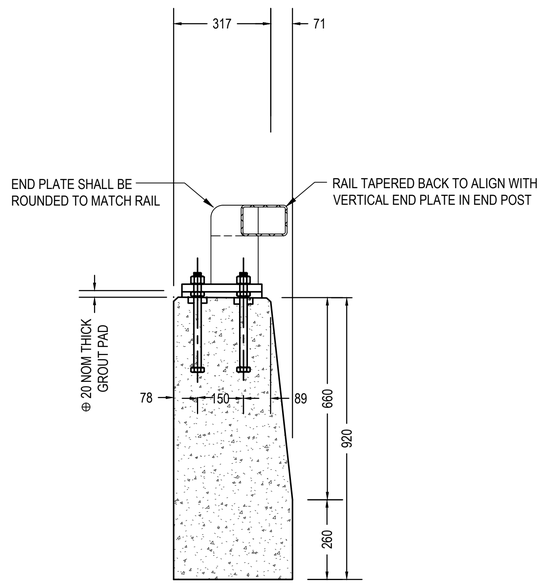
RETAINING WALL - TYPE 1

SCALE 1:40



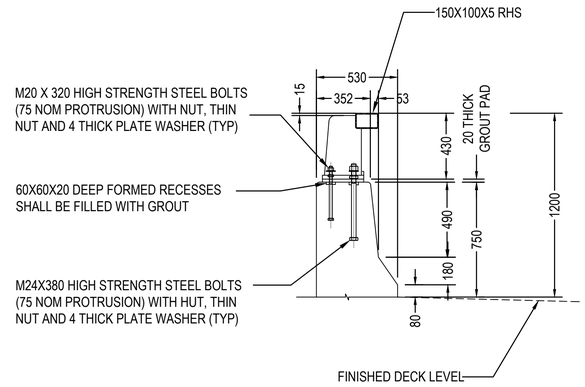
RETAINING WALL - TYPE 2

SCALE 1:40



SECTION 1 / -

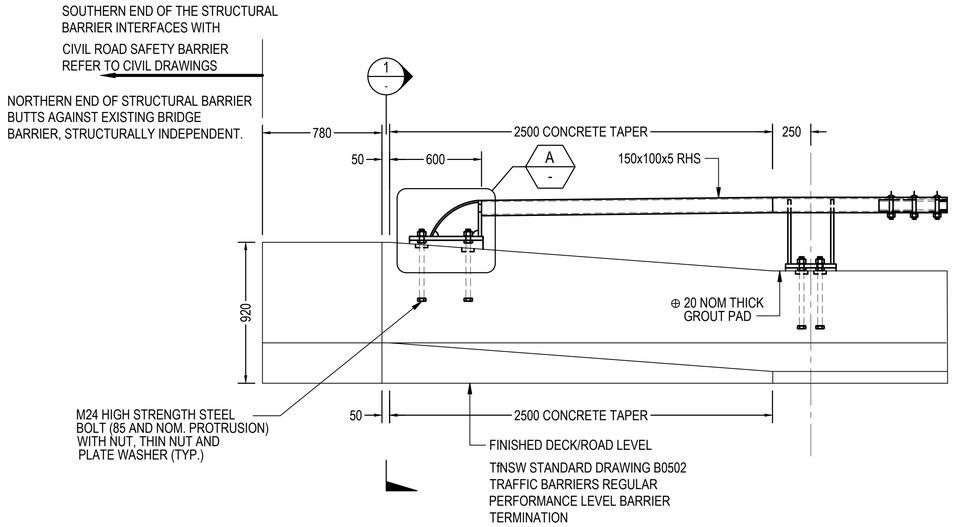
SCALE 1:10



TYPE RAO

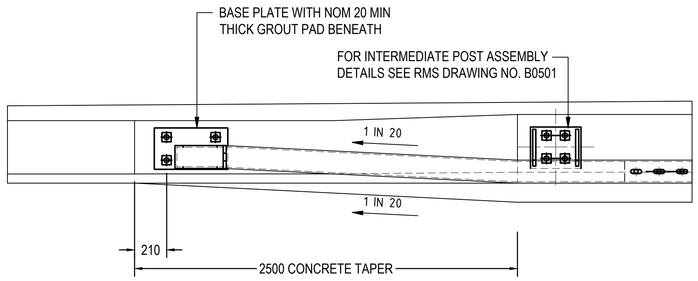
SCALE 1:20

REFER TO TFNSW STANDARD DRAWINGS B0500 SERIES
FOR RAIL BARRIER, POST, BASE PLATE, ANCHORAGE,
AND EXPANSION JOINT CONFIGURATION DETAILS.



ELEVATION

SCALE 1:20



PLAN

SOUTHERN END SHOWN, NORTHERN END MIRRORED

SCALE 1:20

GENERAL NOTES

1. FOR GENERAL NOTES RELATING TO THIS SHEET, SEE SHEET No. ST-DRG-040101.

CONCRETE NOTES

1. CONCRETE EXPOSURE CLASSIFICATION: B1
2. MINIMUM 28 DAY COMPRESIVE STRENGTH OF CONCRETE MUST BE 40MPa.
3. MINIMUM CEMENT CONTENT OF CONCRETE MUST BE 440kg/m3
4. MAXIMUM WATER CONTENT OF CEMENT MIXTURE MUST BE 0.45.
5. SUPPLEMENTARY CEMENTITIOUS MATERIAL MUST BE MINIMUM 25% FLY ASH OR MINIMUM 50% BLAST FURNACE SLAG.
6. THE REQUIRED CONCRETE COVER OF 45mm WHERE STANDARD FORWORK AND COMPACTION ARE USED AND CURING WITHOUT USING CURING COMPOUNDS.
7. FOR PILE, THE REQUIRED COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE MUST BE 75mm UNLESS NOTED OTHERWISE.
8. REINFORCEMENT MUST BE GRADE D500N UNLESS SPECIFIED OTHERWISE.
9. UNLESS OTHERWISE SPECIFIED, THE MINIMUM DEVELOPMENT LENGTHS AND LENGTHS OF LAPS MUST BE AS FOLLOWS:

BAR SIZE	N12	N16	N20	N24	N28	N32	N36
a) LAP LENGTH (HORIZONTAL BARS WITH <300mm OF CONCRETE CAST BELOW THE BAR):	500	650	950	1200	1500	1950	2350
b) LAP LENGTH (OTHER BARS):	350	500	750	1000	1250	1500	1800

10. REINFORCEMENT MAY BE DISPLACED SLIGHTLY WHERE NECESSARY TO CLEAR GENERAL FITMENTS, SPLICE BARS, DOWELS AND DRAINAGE PIPES.
11. THE EXPOSED SURFACES OF ALL VISIBLE CONCRETE ELEMENTS MUST BE TREATED WITH A NON-SACRIFICIAL ANTI-GRAFFITI COATING SUBJECT TO COUNCIL AND URBAN DESIGNER'S CONFIRMATION.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
A	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:40, 1:20, 1:10

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0 0.2 0.4 0.6 0.8 1.0 SCALE 1:20m

0 0.1 0.2 0.3 0.4 0.5 SCALE 1:10m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	KELVIN HO	07/11/25
DESIGNED	MARCO LIANG	07/11/25
DRG CHECK	SAM THORNE	07/11/25
DESIGN CHECK	K. KAMAL	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL

TOONGABBIE BRIDGE

LOCAL ROAD NETWORK ENHANCEMENTS

STRUCTURAL

SITE 4

RETAINING WALL - STRUCTURAL DETAILS - SHEET A

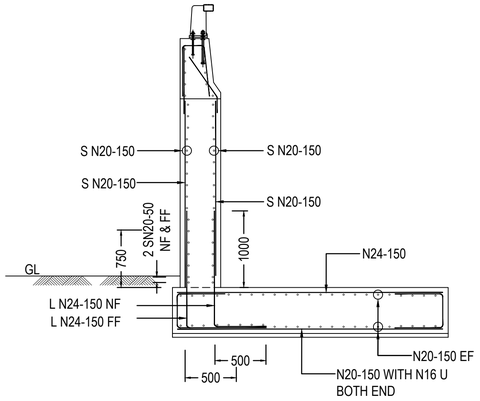
DRAWING SET No: | PART: | SHEET: 1 OF 2 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-ST-DRG-040201 | REV A | VER | EDMS No. | AMD No.

FILE NAME: TOON-TURN-NWW-ST-DRG-040201.dwg

PLOT DATE & TIME: 07/11/2025 16:57:46



RETAINING WALL - TYPE 1

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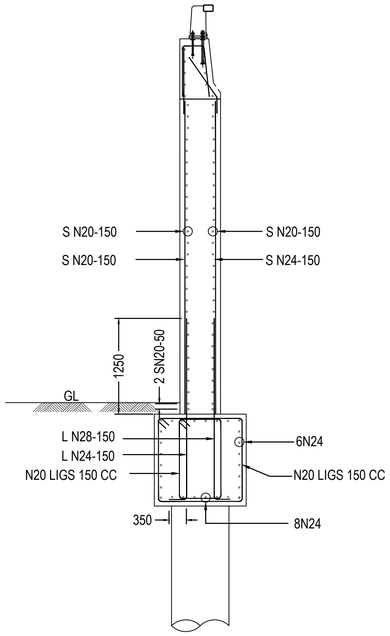

RETAINING WALL - TYPE 2

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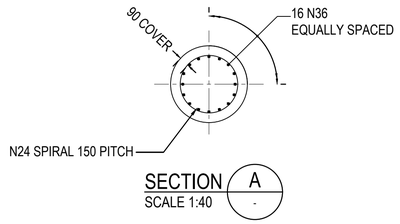

SECTION A
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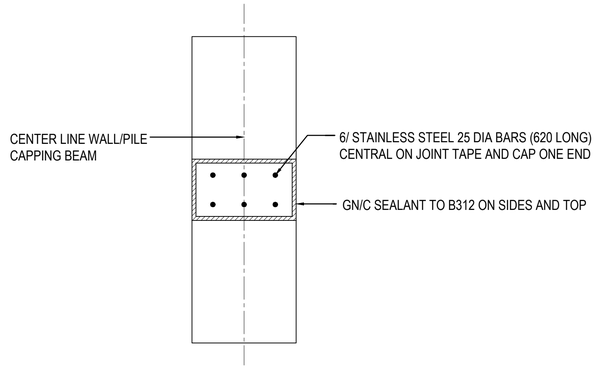
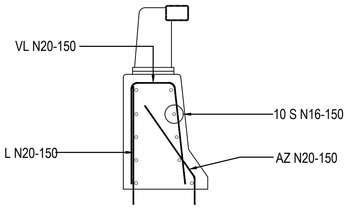


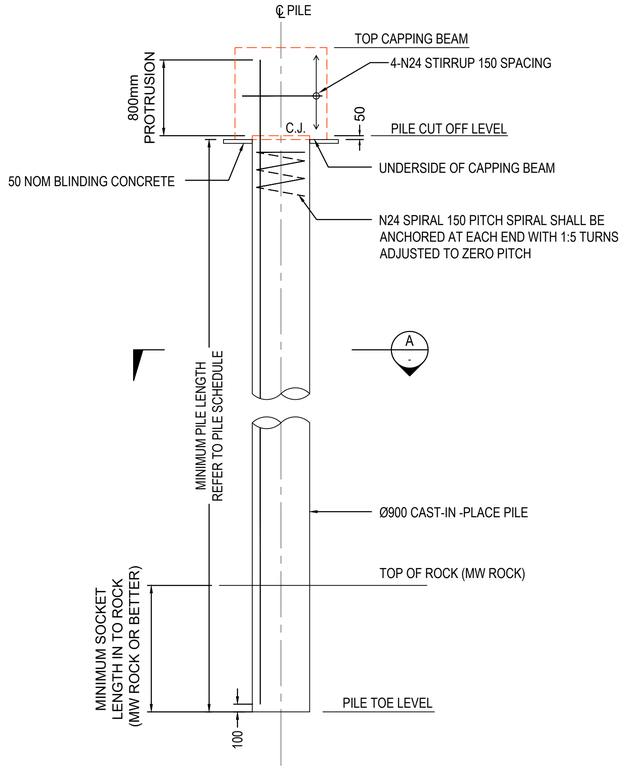
EXPANSION JOINT (PILE CAPPING BEAM)

SECTION B
SCALE 1:20



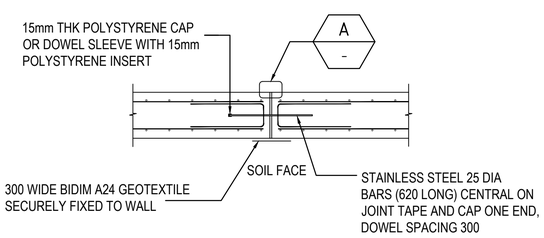
TYPE RAO
OUTER TRAFFIC BARRIER TYPE RAO SHOWN

SCALE 1:10



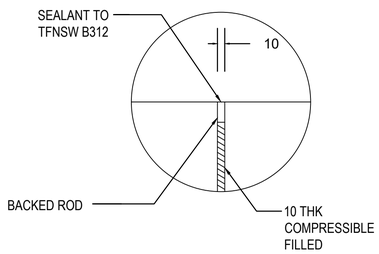
ELEVATION PILE REINFORCEMENT

SCALE 1:40

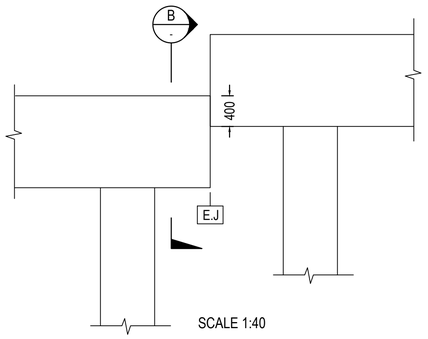


EXPANSION JOINT (WALL)

SCALE 1:40



DETAIL A
SCALE 1:10



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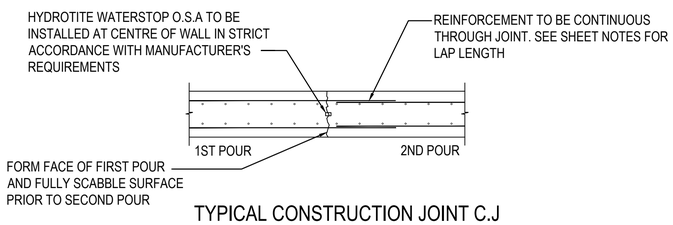

TYPICAL CONSTRUCTION JOINT C.J

SCALE 1:40

GENERAL NOTES

1. FOR GENERAL NOTES RELATING TO THIS SHEET, SEE SHEET No. ST-DRG-040101.
2. FOR CONCRETE NOTES RELATING TO THIS SHEET, SEE SHEET No. ST-DRG-040201.

GEOTECHNICAL NOTES

1. BORED CAST-IN-PLACE REINFORCED CONCRETE COLUMNS MUST BE CONSTRUCTED IN ACCORDANCE WITH TfNSW D&C SPECIFICATION B59.
2. STABILITY OF PILE EXCAVATION TO BE MANAGED BY PILING CONTRACTOR.
3. A GEOTECHNICAL STRENGTH REDUCTION FACTOR OF 0.4 HAVE BEEN ADOPTED FOR THE GEOTECHNICAL CAPACITY OF THE PILES. PILE SOCKET LENGTH AND FOUNDING MATERIAL IS MINIMUM REQUIREMENTS.
4. THE TOP OF FOUNDING ROCK , FOUNDING ROCK CLASS AND BEARING CAPACITY OF THE ROCK AT THE FOUNDING LEVEL MUST BE VERIFIED BYTHE GEOTECHNICAL SITE REPRESENTATIVE PRIOR TO PLACING CONCRETE. FURTHER THE GEOTECHNICAL SITE REPRESENTATIVE MUST VALIDATE THE ASSUMED GROUND CONDITIONS AND CONFIRM THAT THE MINIMUM ROCK SOCKET LENGTH HAS BEEN ACHIEVED IN ACCORDANCE WITH THE REQUIREMENTS OF TfNSW D&C SPECIFICATION B59. IF THE TOP OF FOUNDING ROCK CLASS LEVEL AND/ OR THE PILE TOE LEVEL VARIES FROM THE VALUES GIVEN IN THE PILE SCHEDULE BY MORE THAN 1000mm, THE DESIGNERS REPRESENTATIVE'S ADVICE MUST BE SOUGHT PRIOR TO PLACEMENT OF THE PILE CONCRETE.
5. ROCK UNIT CLASSIFICATIONS ARE AS PER BELOW. PROPERTIES OF FOUNDING MATERIAL MUST BE AS FOLLOWS:

ROCK UNIT	STRENGTH	UNCONFINED COMPRESSIVE STRENGTH (MPa)	ULTIMATE SHAFT FRICTION (kpa)	ULTIMATE END BEARING (MPa)
MW ROCK	600	6	350	10000
SW ROCK	1200	20	1500	20000

6. THE CONTRACTOR MUST DETERMINE WHETHER TEMPORARY CASINGS ARE REQUIRED TO KEEP DRILLED HOLE STABLE AT ALL TIMES DURING PILE INSTALLATION. DESIGN DOES NOT ALLOW FOR BENTONITE SLURRY OR OTHER DRILLING FLUIDS TO STABILISE PILE HOLE.
7. THE PILE SOCKET BASE AND SHAFT MUST BE CLEANED IMMEDIATELY PRIOR TO CONSTRUCTION OF THE PILE.
8. THE MINIMUM ALLOWABLE BEARING CAPACITY OF FOUNDING MATERIAL FOR L SHAPE RETAINING WALL MUST BE 150kPa.
9. ALL BACKFILLING WORK, DRAINAGE ZONE DETAILS AND THE EXTENT OF SELECT FILL BEHIND THE RETAINING WALL MUST COMPLY WITH SPECIFICATIONS B30.
10. GEOTEXTILE MUST BE G4 APPLICATION STRENGTH CLASS B FILTRATION CLASS 2.
11. THE CONTRACTOR IS TO LIMIT ALL CONSTRUCTION EQUIPMENT AND MATERIAL STOCKPILES IN AN AREA WITHIN A DISTANCE 2.0m FROM THE BACK OF THE WALL, SUCH THAT THE CONSTRUCTION SURCHARGE DOES NOT EXCEED THE 10kPa DESIGN ALLOWANCE.
12. COMPACTION EQUIPMENT USED TO COMPACT THE SELECT FILL MATERIAL WITHIN A DISTANCE 2.0m FROM THE BACK OF THE WALL FOOTING MUST BE LIGHT COMPACTION EQUIPMENT AND INDUCE LATERAL COMPACTION PRESSURES OF NO MORE THAN 12kPa.

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-ST-DRG-040202.dwg

PLOT DATE & TIME: 07/11/2025 16:57:52

REFERENCES:

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.

REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
A	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:40, 1:20, 1:10

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0 0.2 0.4 0.6 0.8 1.0 SCALE 1:20m

0 0.1 0.2 0.3 0.4 0.5 SCALE 1:10m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

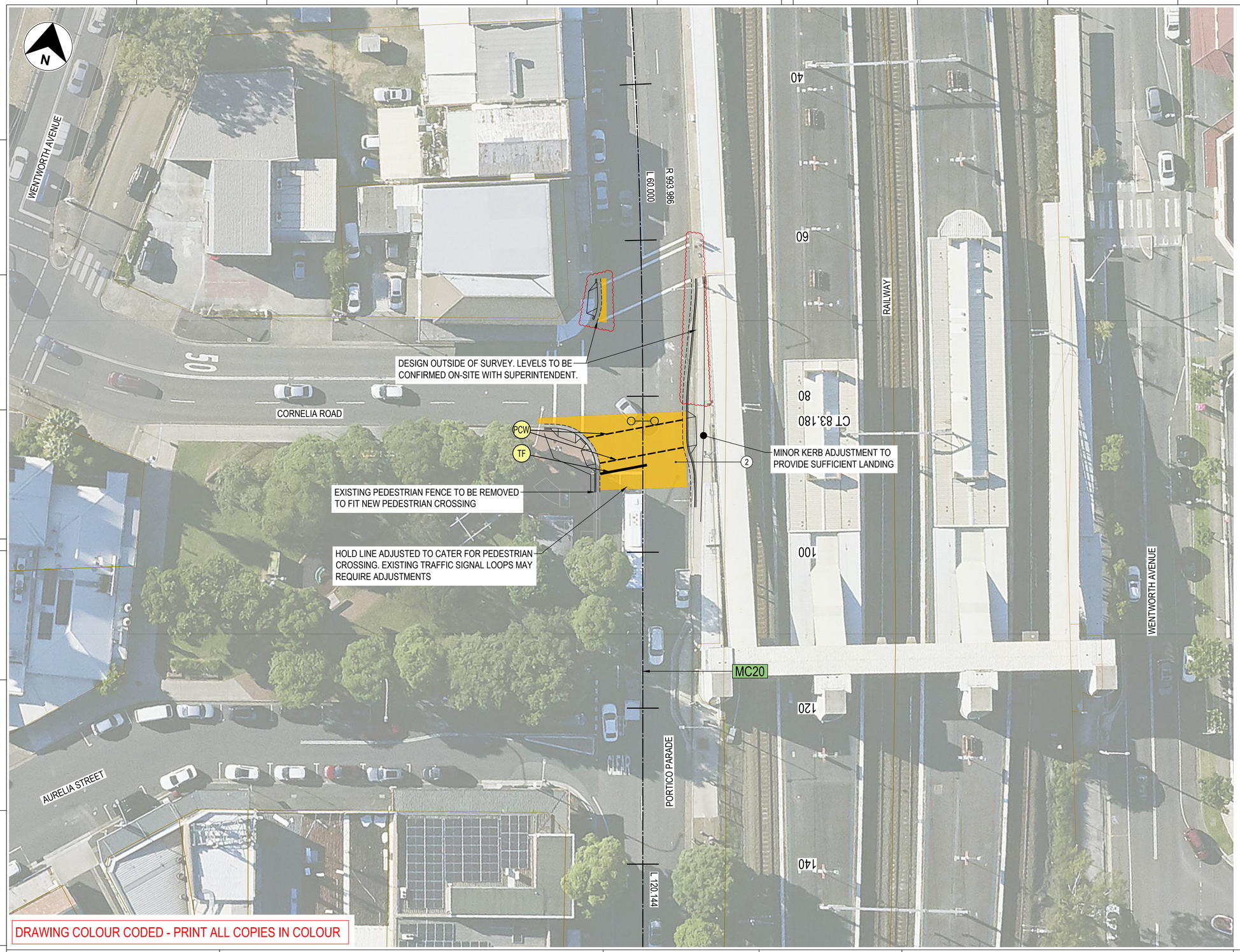
PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	KELVIN HO	07/11/25
DESIGNED	MARCO LIANG	07/11/25
DRG CHECK	SAM THORNE	07/11/25
DESIGN CHECK	K. KAMAL	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
STRUCTURAL
SITE 4
RETAINING WALL - STRUCTURAL DETAILS - SHEET B

DRAWING SET No: PART: SHEET: 2 OF 2 A1
STATUS: 80% DETAILED DESIGN BRIDGE No: ©
DRG No. TOON-TURN-NWW-ST-DRG-040202 REV A VER EDMS No. AMD No.



DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- ROAD DESIGN
- RETAINING WALL
- STEEL RAIL SAFETY BARRIER
- WHEEL STOPS
- AREA OUTSIDE OF SURVEY

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE
- MCXX CONTROL LINE LABEL

PAVEMENTS

- TYPE 1
- TYPE 2
- TYPE 3
- TYPE 4
- (1) PAVEMENT TYPE LABEL (REFER DRG No. RW-DRG-040401)

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-RW-DRG-050101.dwg

PLOT DATE & TIME: 07/11/2025 16:57:00

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
C	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
B	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25
A	EARLY CONCEPT DESIGN	CR 04/07/25	DS 04/07/25	RH 04/07/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:250

0 2.5 5.0 7.5 10.0 12.5
SCALE 1:250m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 5
GENERAL ARRANGEMENT PLAN

DRAWING SET No:	PART:	SHEET: 1 OF 1	A1
STATUS: 80% DETAILED DESIGN	BRIDGE No:		©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-RW-DRG-050101	C			

DRAWING RESERVED FOR
FUTURE DESIGN SUBMISSION

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

FOR REVIEW AND COMMENT

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
B	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
A	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:200

0 1 2 3 4 5
SCALE 1:100m

DESIGN LOT CODE:

CLIENT:

CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
TTY 02 9840 9988
ABN 22 798 563 329

turnbull

DRAWN _ _ _ _ _ MOMOKA TAKAHASHI _ _ _ 07/11/25
DESIGNED _ _ _ _ JOHN O'TOOLE _ _ _ _ _ _ 07/11/25
DRG CHECK _ _ _ BARRIE EVANS _ _ _ _ _ _ 07/11/25
DESIGN CHECK _ DMITRY SHIROKOV _ _ _ _ 07/11/25
PROJ/DES MNGR DMITRY SHIROKOV _ _ _ _ 07/11/25
APPROVED _ _ _ ROCHELLE HICKS _ _ _ _ _ 07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 5
TYPICAL DETAILS

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1
STATUS: 80% DETAILED DESIGN | BRIDGE No: ©

DRG No.	REV	VER	EDMS No.	AMD No.
TOON-TURN-NWW-RW-DRG-050401	B			

FILE NAME: TOON-TURN-NWW-RW-DRG-050401.dwg
PLOT DATE & TIME: 07/11/2025 16:57:04

DRAWING COLOUR CODED - PRINT ALL COPIES IN COLOUR

LEGEND

GENERAL

- SURVEY
- CADASTRAL BOUNDARY
- ROAD DESIGN
- RETAINING WALL
- STEEL RAIL SAFETY BARRIER
- WHEEL STOPS
- AREA OUTSIDE OF SURVEY

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE (60)
- MCXX CONTROL LINE LABEL

PAVEMENTS

- TYPE 1
- TYPE 2
- TYPE 3
- TYPE 4
- (1) PAVEMENT TYPE LABEL (REFER DRG No. RW-DRG-040401)

NOTES

1. FOR GENERAL NOTES REFER DRG No. GN-DRG-000011.

FOR REVIEW AND COMMENT

FILE NAME: TOON-TURN-NWW-RW-DRG-090101.dwg

PLOT DATE & TIME: 07/11/2025 17:12:07

REFERENCES:

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REV	DESCRIPTION	DESIGNER INITIAL/DATE	VERIFIED INITIAL/DATE	APPROVED INITIAL/DATE
C	80% DETAILED DESIGN	JOT 07/11/25	DS 07/11/25	RH 07/11/25
B	CONCEPT DESIGN	JOT 03/09/25	DS 03/09/25	RH 03/09/25
A	EARLY CONCEPT DESIGN	CR 04/07/25	DS 04/07/25	RH 04/07/25

COORDINATE SYSTEM: GDA2020MGA56 GDA2020

HEIGHT DATUM: AHD

SCALE: 1:250

0 2.5 5.0 7.5 10.0 12.5
SCALE 1:250m

DESIGN LOT CODE:

CLIENT: CUMBERLAND CITY COUNCIL

PREPARED FOR:
CUMBERLAND CITY COUNCIL
16 MEMORIAL AVENUE (PO BOX 42)
MERRYLANDS NSW 2160
T 02 9840 9840 I F02 9840 9734
DX 25408 MERRYLANS
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ABN 22 798 563 329

turnbull

DRAWN	MOMOKA TAKAHASHI	07/11/25
DESIGNED	JOHN O'TOOLE	07/11/25
DRG CHECK	BARRIE EVANS	07/11/25
DESIGN CHECK	DMITRY SHIROKOV	07/11/25
PROJ/DES MNGR	DMITRY SHIROKOV	07/11/25
APPROVED	ROCHELLE HICKS	07/11/25

CUMBERLAND CITY COUNCIL
TOONGABBIE BRIDGE
LOCAL ROAD NETWORK ENHANCEMENTS
CIVIL WORKS
SITE 9
GENERAL ARRANGEMENT PLAN

DRAWING SET No: | PART: | SHEET: 1 OF 1 | A1

STATUS: 80% DETAILED DESIGN | BRIDGE No: | ©

DRG No. TOON-TURN-NWW-RW-DRG-090101 | REV C | VER | EDMS No. | AMD No.