

ROAD & DRAINAGE RECONSTRUCTION WORKS

DIAL BEFORE YOU DIG www.1100.com.au The Essential First Step

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE
ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO
GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

BENTON ROAD, HEALESVILLE

DRAWING INDEX

SHEET No.	TITLE
1	TITLE SHEET - LOCALITY PLAN, GENERAL NOTES, DETAILS & DRAWING INDEX
2	OVERALL PLAN
3	SECTIONS A-A, B-B, C-C & D-D
4	SECTIONS E-E, F-F & G-G
5	GENERAL LAYOUT PLAN
6	GENERAL LAYOUT PLAN
7	GENERAL LAYOUT PLAN
7	GENERAL LAYOUT PLAN
9	SWEPT PATH ANALYSIS PLAN - YRSC WASTE VEHICLE
10	SWEPT PATH ANALYSIS PLAN - B85 VEHICLE

NOTES

THE CONTRACTOR IS TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITY SERVICES PRIOR TO CARRYING OUT WORKS BY TELEPHONING 1100 "DIAL

- 2. DISCREPANCIES BETWEEN PLANS AND EXISTING CONDITIONS ARE TO BE REPORTED IMMEDIATELY TO THE COUNCIL'S SUPERVISING ENGINEER.
- ALL SURPLUS EXCAVATED MATERIAL REMAINS THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE OR ADVISED BY THE COUNCIL'S SUPERVISING ENGINEER.
- "REMOVE" SHALL MEAN REMOVE OFF-SITE AND DISPOSE OF AT AN APPROVED DISPOSAL SITE AT THE CONTRACTOR'S EXPENSE, UNLESS SPECIFIED OTHERWISE.
- ON COMPLETION OF CONSTRUCTION ALL WORK AREA ARE TO BE CLEANED UP & REINSTATED TO THE SATISFACTION OF THE COUNCIL'S SUPERVISING ENGINEER.

PAVEME

- ROAD CROSSFALL TO BE 1 in 36 FALLING TOWARDS THE TABLE DRAIN OR KERB AND CHANNEL UNLESS SPECIFIED OTHERWISE.
- AT NEW FILL AREAS THE TOPSOIL SHALL BE STRIPPED AND FILLING MATERIAL PLACED IN 150mm THICK LAYER AND COMPACTED TO 95% A.A.S.H.O. COMPACTION TEST, THE TOPSOIL IS THEN RE-SPREAD ON THE BATTER AREAS.
- 8. NEW CONCRETE FOOTPATH PAVING TO BE 32 MPa STRENGTH.
- 9. TACTILE GROUND SURFACE INDICATOR (TGSI) PAVERS ARE TO BE 300mm x 300mm x 40mm PRE-CAST CONCRETE PAVERS AND SHALL HAVE A MINIMUM LUMINANCE CONTRAST OF 30% COMPARED TO THE AMOUNT OF LIGHT REFLECTED FROM THE ADJACENT SURFACE.

ROADSID

- 10. EXISTING DRIVEWAY ENTRANCES TO BE REINSTATED AND SEALED FOR 1.0m FROM EDGE OF SEAL WITH 50mm COMPACTED DEPTH 10mm TYPE N ASPHALT ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.
- 11. EXISTING DRIVEWAYS ARE TO BE REINSTATED FROM BACK OF KERB OR EDGE OF SEAL AT A MAXIMUM GRADE OF 1 in 8 FOR 2.0m THEN 1 in 4 THEREAFTER WITH A TRANSITION OF 1 in 6 FOR 2.0m IS PREFERRED WHERE POSSIBLE AS PER:
- 11.a. GRAVEL DRIVEWAY WITH 50mm COMPACTED DEPTH OF 3% CEMENT TREATED CRUSHED ROCK UNLESS SPECIFIED OTHERWISE.
- 11.b. ASPHALT DRIVEWAYS WITH 50mm COMPACTED DEPTH 10mm NOMINAL SIZE ASPHALT ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED PROCE
- 11.c. CONCRETE DRIVEWAYS WITH 150mm DEPTH CONCRETE PAVING ON A BASE OF 50mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.
- 11.d. BRICK PAVER DRIVEWAYS WITH SUITABLE HEAVY DUTY BRICK PAVERS ON 30mm OF BEDDING SAND ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.
- 12. TABLE DRAIN TO BE CLEANED, REDEFINED OR DEFINED AS NECESSARY ALONG THE HIGH SIDE OF THE ROADWAY, REFER TO TYPE OF SECTION FOR TABLE DRAIN PROFILE. MINIMUM DEPTH 300mm.

DRAINAGE

- 13. ALL DRAINAGE PIPES TO BE CLASS 2 RUBBER RING JOINTED SPIGOT AND
- 14. ALL PROPERTY STORM WATER OUTLETS WITHIN 3.0m OF THE NEW DRAIN OR KERB ARE TO BE CONNECTED TO UNDERGROUND DRAINAGE PIPES WHERE AVAILABLE, OR BACK OF KERB WHERE UNDERGROUND DRAINAGE PIPES ARE NOT AVAILABLE.
- DRAINAGE PITS GREATER THAN 1.0m IN DEPTH TO BE PROVIDED WITH STEP IRONS AT 300mm CENTRES VERTICALLY.
- 16. A.G. DRAIN PLACED BEHIND KERB AND CHANNEL AS SHOWN ON PLAN IF WITHIN 3.0m OF ANY TREE EXCAVATION TO BE HAND DUG OR BORED TO MINIMISE ROOT DAMAGE OF TREE.

VEGETATIO

- 17. TREE PROTECTION ZONES (TPZ) HAVE BEEN SHOWN FOR ALL TREES LOCATED CLOSE TO THE WORKS AREA. WORKS AND ANY STOCKPILES OF CONSTRUCTION EQUIPMENT AND MATERIAL ARE TO BE CONTAINED OUTSIDE THE TPZ UNLESS SPECIFICALLY APPROVED BY THIS PLAN. PRIOR APPROVAL MUST BE SOUGHT FOR ANY WORKS NOT SPECIFIED AND APPROVED BY THIS PLAN THAT ARE TO BE CONDUCTED WITHIN THE TPZ OF ANY TREE.
- 18. ONLY TREES SHOWN TO BE REMOVED ON THIS PLAN CAN BE REMOVED. ANY DAMAGE TO THE BARK, BRANCHES, TRUNKS OR ROOTS OF OTHER TREES SHOULD BE IMMEDIATELY REPORTED TO COUNCIL'S CONSTRUCTION SURVEILLANCE OFFICER BEFORE ANY WORKS CONTINUE AROUND THE SUBJECT

ANCILLARY

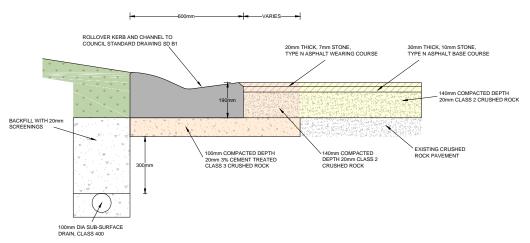
19. ALL EXISTING SIGNS AND POSTS REMAIN THE PROPERTY OF THE COUNCIL

PULLY MOUNTABLE KERB IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL 30mm THICK, 10mm STONE, TYPE N ASPHALT WEARING COURSE 140mm COMPACTED DEPTH 20mm CLASS 2 CRUSHED ROCK EXISTING CRUSHED ROCK PAVEMENT 140mm COMPACTED 140mm C

FULLY MOUNTABLE KERB DETAIL

RANGES SHIRE COUNCIL DRAWING SD / D

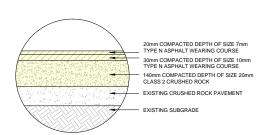
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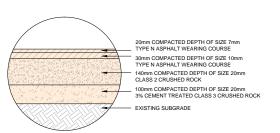
ROLLOVER KERB AND CHANNEL DETAIL

GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL DRAWING SD / D5

NOT TO SCALE



OVERLAY EXISTING PAVEMENT DETAIL



FULL DEPTH
PAVEMENT DETAIL

02	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	10-12-2021
01	DRAFT FUNCTIONAL DESIGN - ISSUED FOR REVIEW	25-10-2021
00	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	30-04-2021
VED	DESCRIPTION	DATE

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LUKE WHITFIELD
CHRIS PROCTOR

ORIENTATION OF THE STATE OF THE

ORIGINAL SCALE & SHEET SIZE

AS SHOWN @ A1

HEIGHT DATUM

AHD

COORDINATE DATUM

MGA 94 ZONE 55

SURVEY DATE

12-10-2021

AERIAL IMAGE DATE

23-12-2018

CIENT PROJECT MANAGER / CONTACT

GRANT McCARTHY | YARRA RANGES SHIRE COUNCIL

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

BENTON ROAD, HEALESVILLE

PC20010B SHEET No. 01 OF 10 VERSION 02

PC20010B-01-02

TITLE SHEET - LOCALITY PLAN, GENERAL NOTES, DETAILS & DRAWING INDEX



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PROJECT No.
PC20010B

02 of 10

02

DWG No. PC20010B-02-02







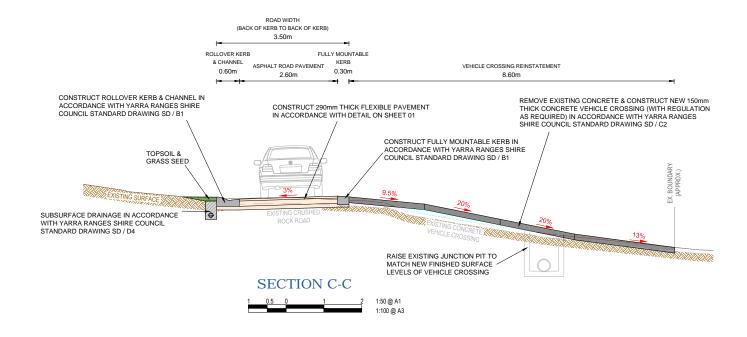


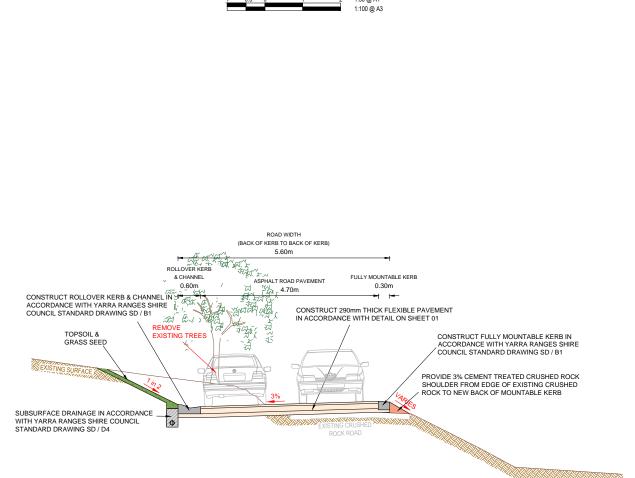
CONSTRUCT FULLY MOUNTABLE KERB IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / B1

ENSTING SURFACE

TOPSOIL & GRASS SEED WARNING
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ROAD WIDTH (BACK OF KERB) 5.60m ROLLOVER KERB ROLLOVER KERB & CHANNEL & CHANNEL ASPHALT ROAD PAVEMENT VEHICLE CROSSING REINSTATEMENT 0.60m 0.60m CONSTRUCT ROLLOVER KERB & CHANNEL IN CONSTRUCT 190mm THICK FLEXIBLE ACCORDANCE WITH YARRA RANGES SHIRE CONSTRUCT 290mm THICK FLEXIBLE PAVEMENT OVER EXISTING CRUSHED PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01 REMOVE EXISTING CONCRETE & CONSTRUCT NEW 150mm THICK CONCRETE VEHICLE CROSSING (WITH REGULATION AS REQUIRED) IN ACCORDANCE WITH YARRA RANGES COUNCIL STANDARD DRAWING SD / B1 ROCK ROAD PAVEMENT IN SHIRE COUNCIL STANDARD DRAWING SD / C2 TOPSOIL & SUBSURFACE DRAINAGE IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / D4 CONSTRUCT FULLY MOUNTABLE KERB IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / B1 **SECTION A-A**





SECTION D-D

(BACK OF KERB TO BACK OF KERB)

3.50m

SECTION B-B

& CHANNEL

0.60m

CONSTRUCT ROLLOVER KERB & CHANNEL IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD/B1

SUBSURFACE DRAINAGE IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL

STANDARD DRAWING SD / D4

GRASS SEED

CONSTRUCT 290mm THICK FLEXIBLE PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01 ASPHALT ROAD PAVEMENT KERB 0.30m

FULLY MOUNTABLE

CONSTRUCT 190mm THICK FLEXIBLE PAVEMENT OVER EXISTING CRUSHED

ACCORDANCE WITH DETAIL ON SHEET 01

ROCK ROAD PAVEMENT IN

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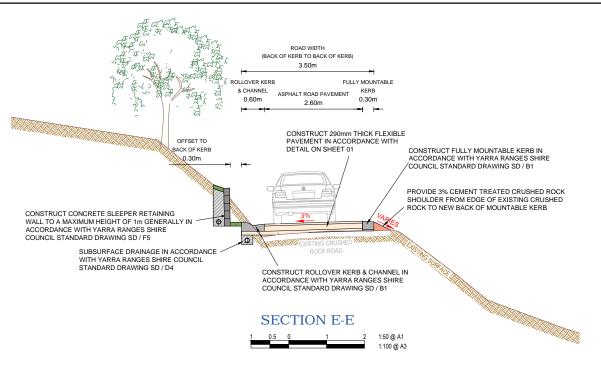


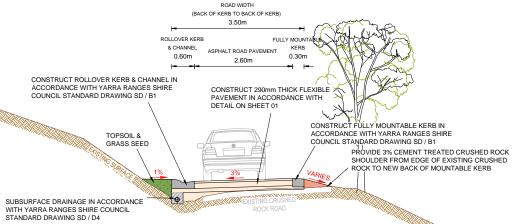
	ORIGINAL SCALE & SHEET SIZE AS SHOWN @ A1	LOCAL GOVERNMENT AREA SHIRE OF YARRA RANGES
	HEIGHT DATUM	CLIENT
	AHD	Yarra
=	COORDINATE DATUM MGA 94 ZONE 55	Ranges Council
	SURVEY DATE	Council
	12-10-2021	
	AERIAL IMAGE DATE 23-12-2018	CLIENT PROJECT MANAGER / CONTACT GRANT McCARTHY YARRA RANGES SHIRE COUNC

PC20010B

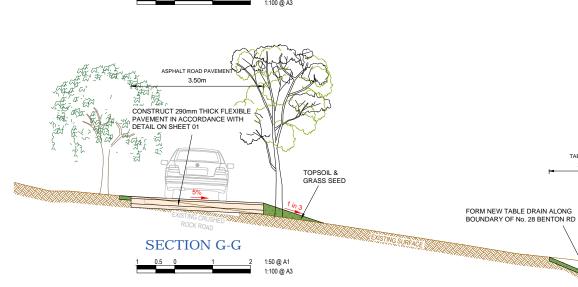


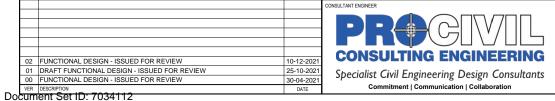
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SECTION F-F





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REGISTERED & CHARTERED PROFESSIONAL	ENGINEER	

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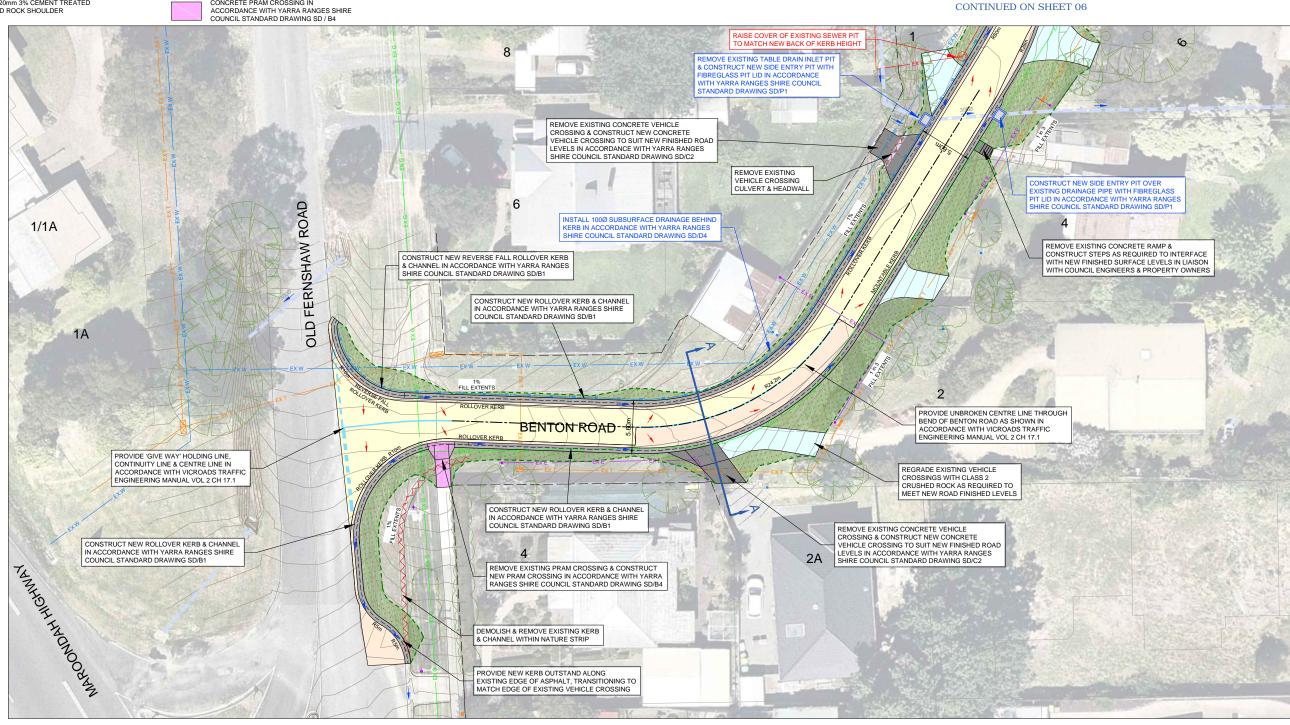
FUNCTIONAL DESIGN
ROAD & DRAINAGE RECONSTRUCTION WORKS
BENTON ROAD, HEALESVILLE
•

TABLE DRAIN 2.00m

LEGEND OVERLAY EXISTING PAVEMENT - 190mm THICK FLEXIBLE PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01 EXISTING WATER PROPOSED PAVEMENT GRADE EXISTING GAS EXISTING DRAINAGE PIPE O----EX S----EXISTING SEWER 2 NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE FULL DEPTH PAVEMENT - 290mm THICK FLEXIBLE PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01 EXISTING TELECOMMUNICATIONS EXISTING UNDERGROUND ELECTRICITY DIRECTION OF CHANNEL FLOW EXISTING CONTOUR MAJOR (1.0m) SUBSURFACE DRAINAGE IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / D4 LAWN AREA TO BE REINSTATED WITH YARRA RANGES SHIRE COUNCIL APPROVED TOPSOIL AND SEED EXISTING CONTOUR MINOR (0.2m) SWALE INVERT FINISHED SURFACE CONTOUR MAJOR (1.0m) PAVEMENT LINE MARKING FINISHED SURFACE CONTOUR MINOR (0.2m) 150mm MINIMUM THICKNESS CONCRETE VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE NEW CONCRETE KERB AND CHANNEL IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / B1 ---- FILL BATTER EXTENT ---- CUT BATTER EXTENT COUNCIL STANDARD DRAWING SD / C2 REMOVE EXISTING DRAINAGE PIPE 100mm MINIMUM THICKNESS CLASS 2 CRUSHED ROCK NEW CONCRETE SLEEPER RETAINING WALL TREE CONSIDERED FOR REMOVAL VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH GENERALLY IN ACCORDANCE WITH YARRA RANGES YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / C2 SHIRE COUNCIL STANDARD DRAWING SD / F5 VARYING DEPTH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK SHOULDER CONCRETE PRAM CROSSING IN ACCORDANCE WITH YARRA RANGES SHIRE

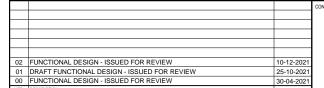


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GENERAL LAYOUT PLAN





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CML ENGINEERING DESIGN
LUKE WHITFIELD
CHRIS PROCTOR



ORIGINAL SCALE & SHEET SIZE	LOCAL GOVERNMENT AREA
AS SHOWN @ A1	SHIRE OF YARRA RANGES
HEIGHT DATUM	CLIENT
AHD	Yarra
COORDINATE DATUM	
MGA 94 ZONE 55	Ranges
SURVEY DATE	Council
12-10-2021	
AERIAL IMAGE DATE	CLIENT PROJECT MANAGER / CONTACT
23-12-2018	GRANT McCARTHY LYARRA RANGES SHIRE COLING

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

BENTON ROAD, HEALESVILLE

PC20010B

SHEET No.

05 OF 10

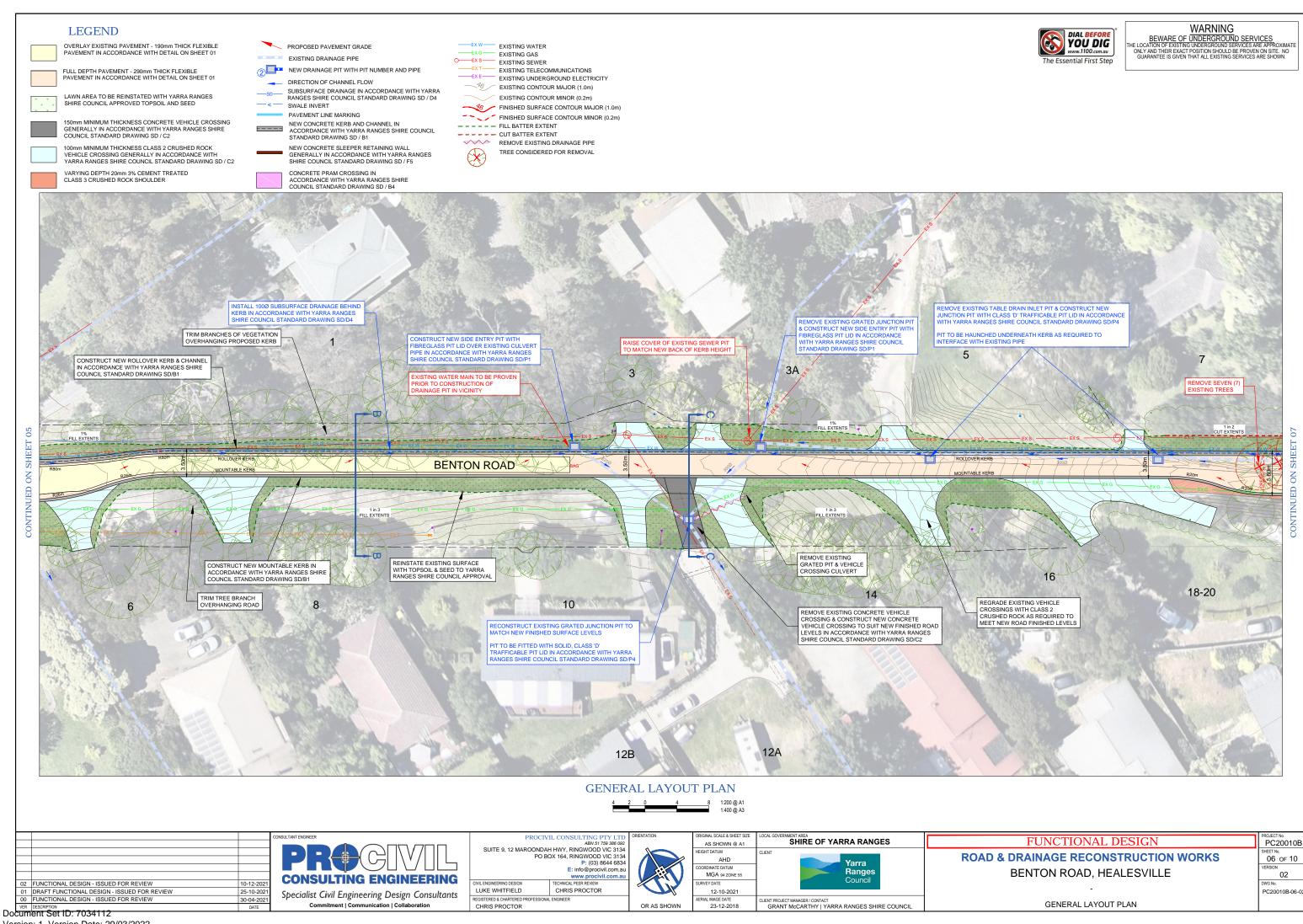
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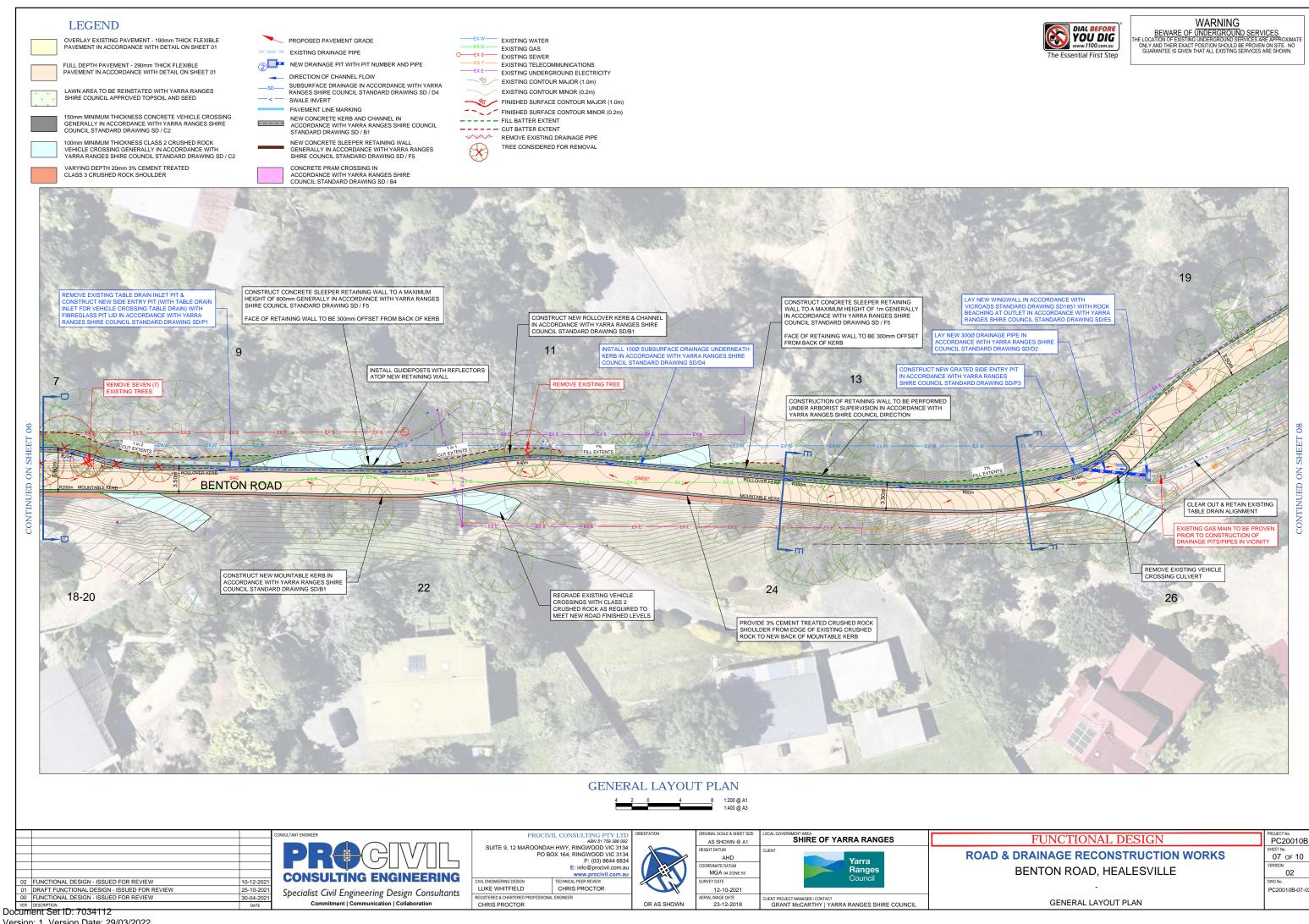
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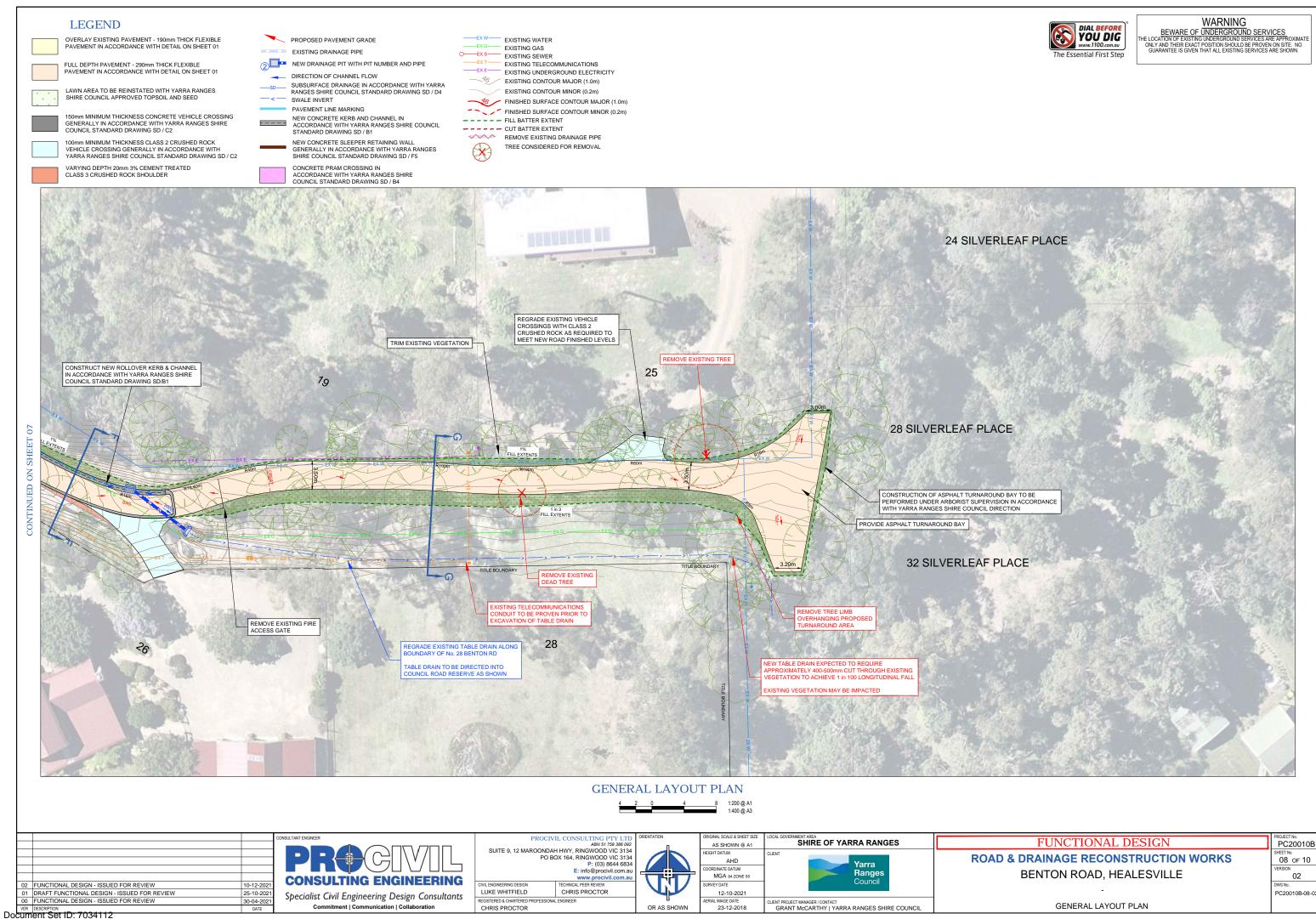
GENERAL LAYOUT PLAN



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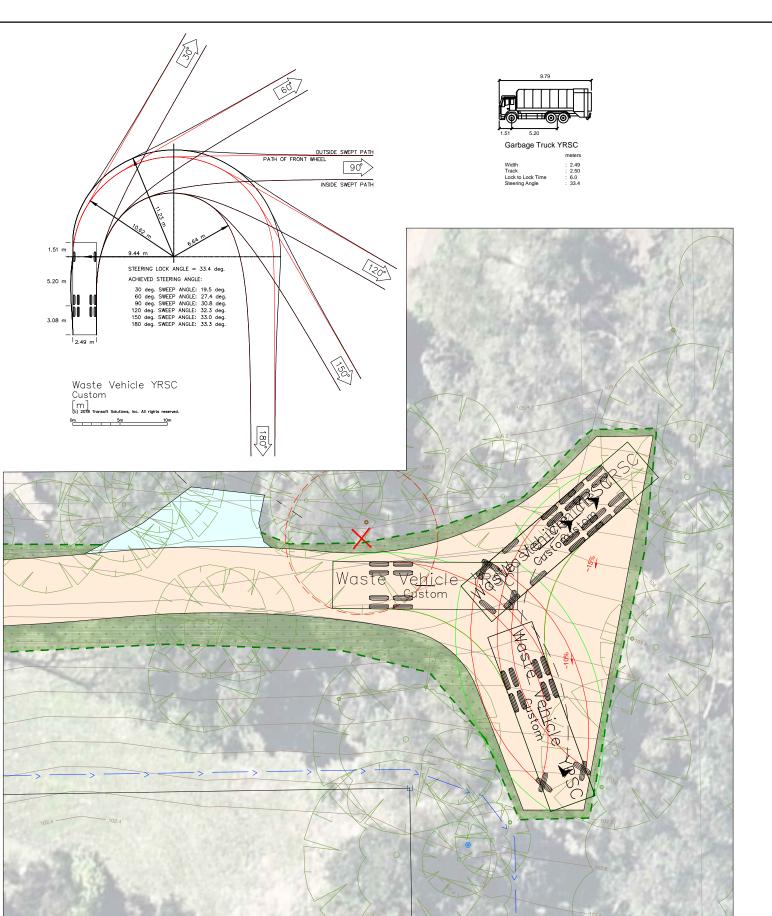


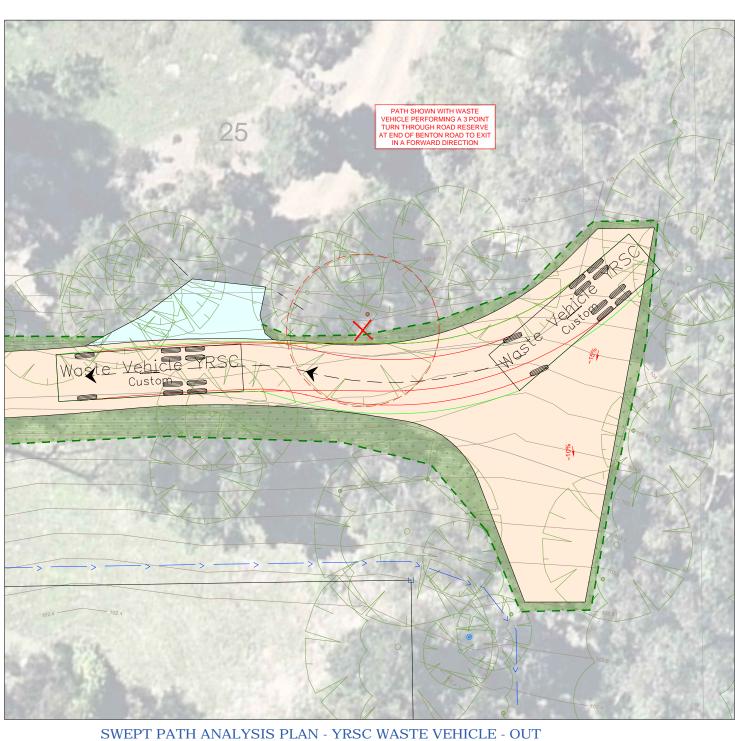
Version: 1, Version Date: 29/03/2022



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ORIGINAL SCALE & SHEET SZE

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HEIGHT DATUM
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COORDINATE DATUM
MGA 94 ZONE 55

SURVEY DATE

12-10-2021

AERUAL MAGE DATE
23-12-2018

CLIENT FROJECT MANAGER / CONTACT
GRANT MCCARTHY | YARRA RANGES SHIRE COUNCIL

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

BENTON ROAD, HEALESVILLE

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SWEPT PATH ANALYSIS PLAN - YRSC WASTE VEHICLE

02 DWG No. PC20010B-09-02

PROJECT No.
PC20010B

09 of 10

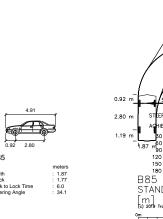
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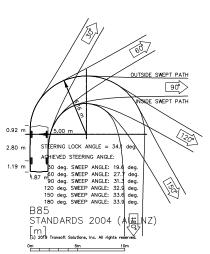
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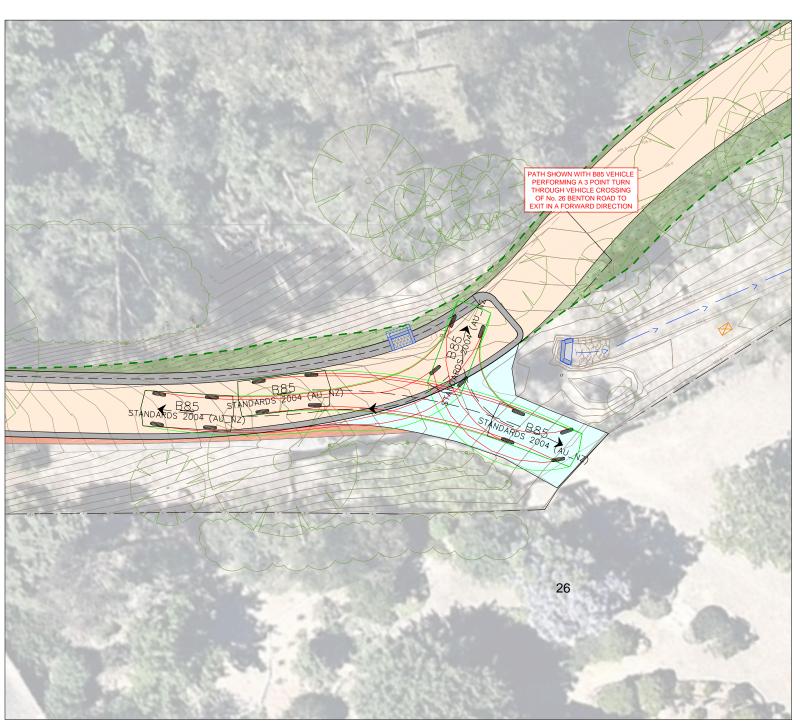
02 FUNCTIONAL DESIGN - ISSUED FOR REVIEW
01 DRAFT FUNCTIONAL DESIGN - ISSUED FOR REVIEW
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SWEPT PATH ANALYSIS PLAN - B85 VEHICLE



LTD	ORIENTATION	ORIGINAL SCALE & SHEET SIZE	LOCAL GOVERNMENT AREA	
092		AS SHOWN @ A1	SHIRE OF YARRA RANGES	
3134		HEIGHT DATUM	CLIENT	_
3134 3834		AHD	Yarra	
n.au		COORDINATE DATUM	Ranges	
n.au		MGA 94 ZONE 55	Council	
		SURVEY DATE	Council	
		12-10-2021		
		AERIAL IMAGE DATE	CLIENT PROJECT MANAGER / CONTACT	
	OR AS SHOWN	23-12-2018	GRANT McCARTHY YARRA RANGES SHIRE COUNCIL	

FUNCTIONAL DESIGN **ROAD & DRAINAGE RECONSTRUCTION WORKS** BENTON ROAD, HEALESVILLE

10 of 10 02 DWG No. PC20010B-10-02

PROJECT No. PC20010B

SWEPT PATH ANALYSIS PLAN - B85 VEHICLE

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02 FUNCTIONAL DESIGN - ISSUED FOR REVIEW
01 DRAFT FUNCTIONAL DESIGN - ISSUED FOR REVIEW
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